

Employment and Earnings May 1980



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In this issue:
1977-79 annual averages for
States and areas





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.

² Revised data introduced October 1979.

Employment and Earnings

Vol. 27 No. 5 May 1980

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

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Employment and Unemployment Developments, April 1980

Unemployment rose sharply in April and employment declined for the second month in a row. The April unemployment rate was 7.0 percent, up from 6.2 percent in March. The number of persons unemployed increased by 825,000 over the month and was up nearly 1.2 million from December.

Total employment—as measured by the monthly survey of households—was down 500,000 in April, following a decline of 300,000 in the previous month. At 97.2 million, total employment has fallen back to the levels which prevailed during the summer of 1979.

Nonfarm payroll employment—as measured by the monthly survey of establishments—dropped by 480,000 in April to 90.3 million. The decrease was concentrated in the manufacturing, construction, and trade industries. Average weekly hours also declined over the month.

Unemployment

In April, the unemployment rate rose 0.8 percentage point to 7.0 percent, the highest rate since August 1977. The number of unemployed increased by 825,000 to 7.3 million. Unemployment increased for nearly all worker groups, including adults, full-time workers, whites, and blacks. The unemployment rate for adult men rose a full percentage point to 5.9 percent; the rate for adult women moved up from 5.7 to 6.3 percent. (See table A-36.)

Unemployment increases were particularly large for workers in construction and durable goods manufacturing. Similarly, unemployment rates in the blue-collar occupations were up markedly in April, with operatives and craft workers registering the most sizeable increases. (See table A-36.)

Job losers (including persons on layoff and those whose jobs were terminated) led the unemployment increase and, in April, constituted half of all unemployed workers. There were smaller, though substantial, increases in the number of unemployed who had voluntarily left their last job and in the number who were reentering the labor force after a period of absence. Average duration of unemployment was about unchanged, as increases occurred not only in the number of workers recently out of work but also in the number who had been jobless for longer periods of time. (See tables A-39 and A-37.)

The number of nonfarm workers on part-time work schedules for economic reasons (sometimes termed the “partially unemployed”) increased by 400,000 in April to 3.8 million. More than 60 percent of the increase was among those who usually worked full time. (See table A-42.)

Employment

Total employment fell by 500,000 in April, and the 2-month decline totaled 800,000 workers. These decreases were most pronounced among adult men, whose employment level dropped by 430,000 in April and by 660,000 over the 2-month period. On an occupational basis, the largest over-the-month employment decline occurred among blue-collar workers. Since April 1979, total employment has risen by only 890,000 or less than 1 percent. (See tables A-33 and A-42.)

With the large decline in employment, the overall employment-population ratio fell 0.4 percentage point over the month to 58.6 percent. The corresponding ratio for adult men dropped from 73.8 to 73.1 percent.

The civilian labor force rose by 325,000 in April to 104.4 million. The labor force participation rate edged upward, to 63.8 percent. Most of the labor force increase occurred among adult women.

Industry payroll employment

Nonagricultural payroll employment declined by 480,000 in April to 90.3 million. This was the largest over-the-month reduction since December 1974.

The decline was concentrated in the goods-producing sector, with durable goods manufacturing and construction bearing the brunt of the cutbacks. Employment in the durable goods industries fell by 265,000, with over half occurring in transportation equipment, mainly in automobile production. Sizeable declines were also posted in fabricated metals, lumber and wood products, and stone, clay, and glass products. Employment changes in the nondurable goods industries were generally small. (See table B-4.)

Employment in construction dropped 140,000 in April following a decline of like magnitude in the previous month. This industry has lost 335,000 jobs since January.

In the service-producing sector, employment fell by 130,000 in trade; an additional 30,000-job decline occurred in transportation and public utilities. On the other hand, government employment was up 75,000 in April, on top of a 60,000 increase in March; both gains were due primarily to the hiring of temporary workers for the 1980 Census.

Hours of work

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls edged down 0.1 hour to 35.3 hours in April; average weekly hours have fallen for 3 consecutive months. The manufacturing workweek, at 39.6 hours in April, dropped 0.2 hour over the month and was down 0.7 hour since January. Factory overtime declined 0.3 hour in April to 2.8 hours. (See table C-7.)

Mainly due to the large employment cutback, the index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls fell 1.3 percent to 124.5 (1967 = 100) in April. The manufacturing index dropped 2.4 percent over the month. Whereas the overall index was up slightly over the past year, the factory index was down 2.6 percent. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls were unchanged over the month and were 7.9 percent above the April 1979 level (seasonally adjusted). Average weekly earnings declined by 0.3 percent from March but were up 7.9 percent over the year.

Before adjustment for seasonality, average hourly earnings were unchanged over the month at \$6.51, 48 cents above April a year ago. Average weekly earnings declined by 65 cents over the month to \$228.50; this level was \$16.85 above a year ago. (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 245.6 (1967 = 100) in April, 0.2 percent higher than in March. The Index was 8.3 percent above April a year ago. In dollars of constant purchasing power, the Index decreased 5.0 percent during the 12-month period ended in March. (See table C-9.)

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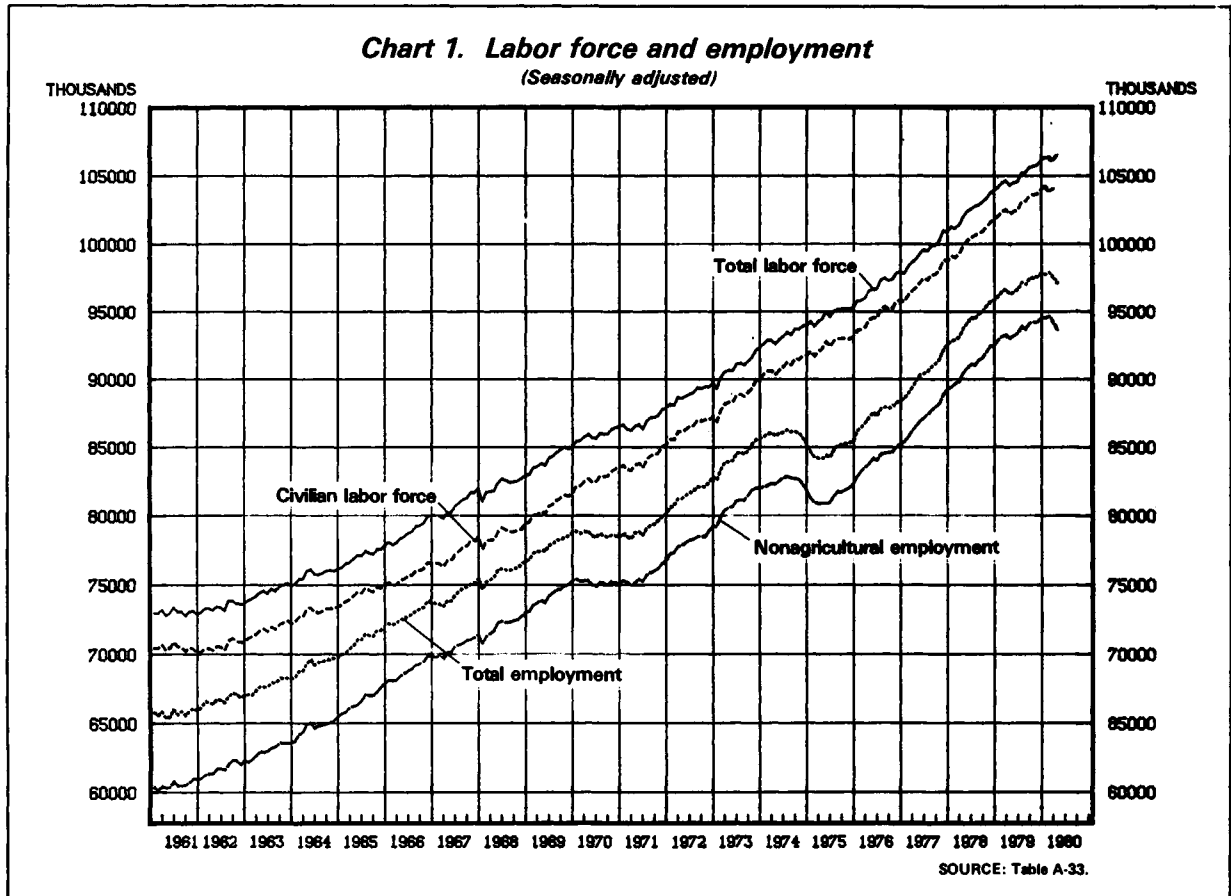


Chart 2. Major unemployment indicators
(Seasonally adjusted)

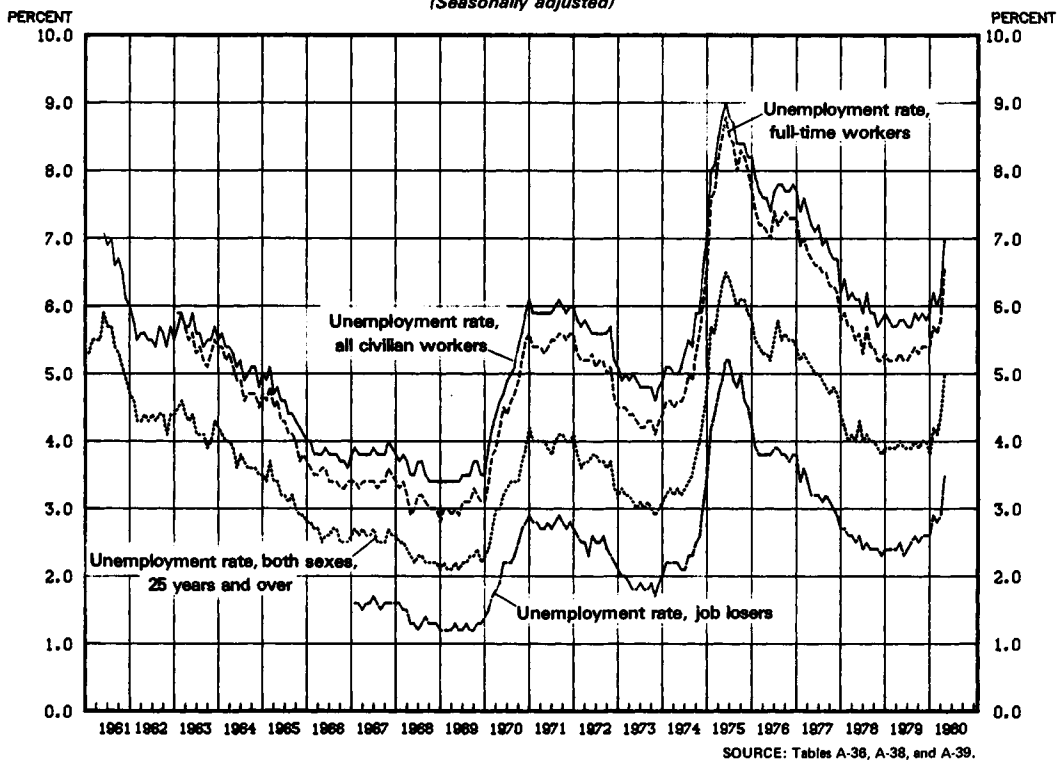


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(Seasonally adjusted)

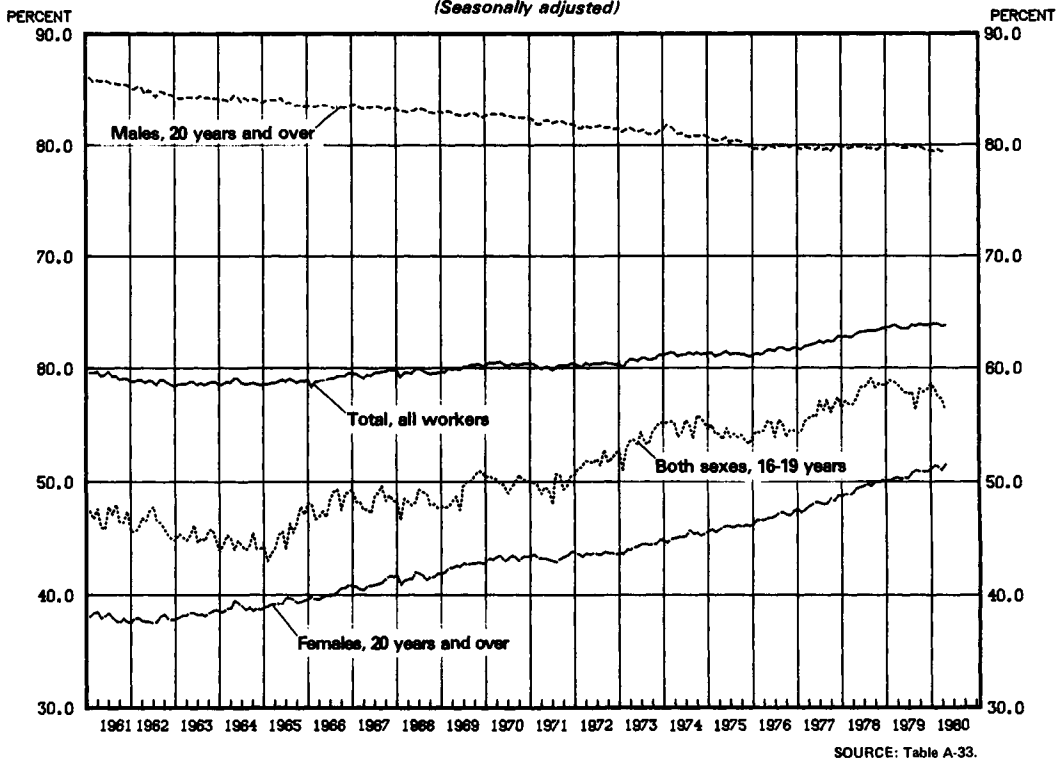
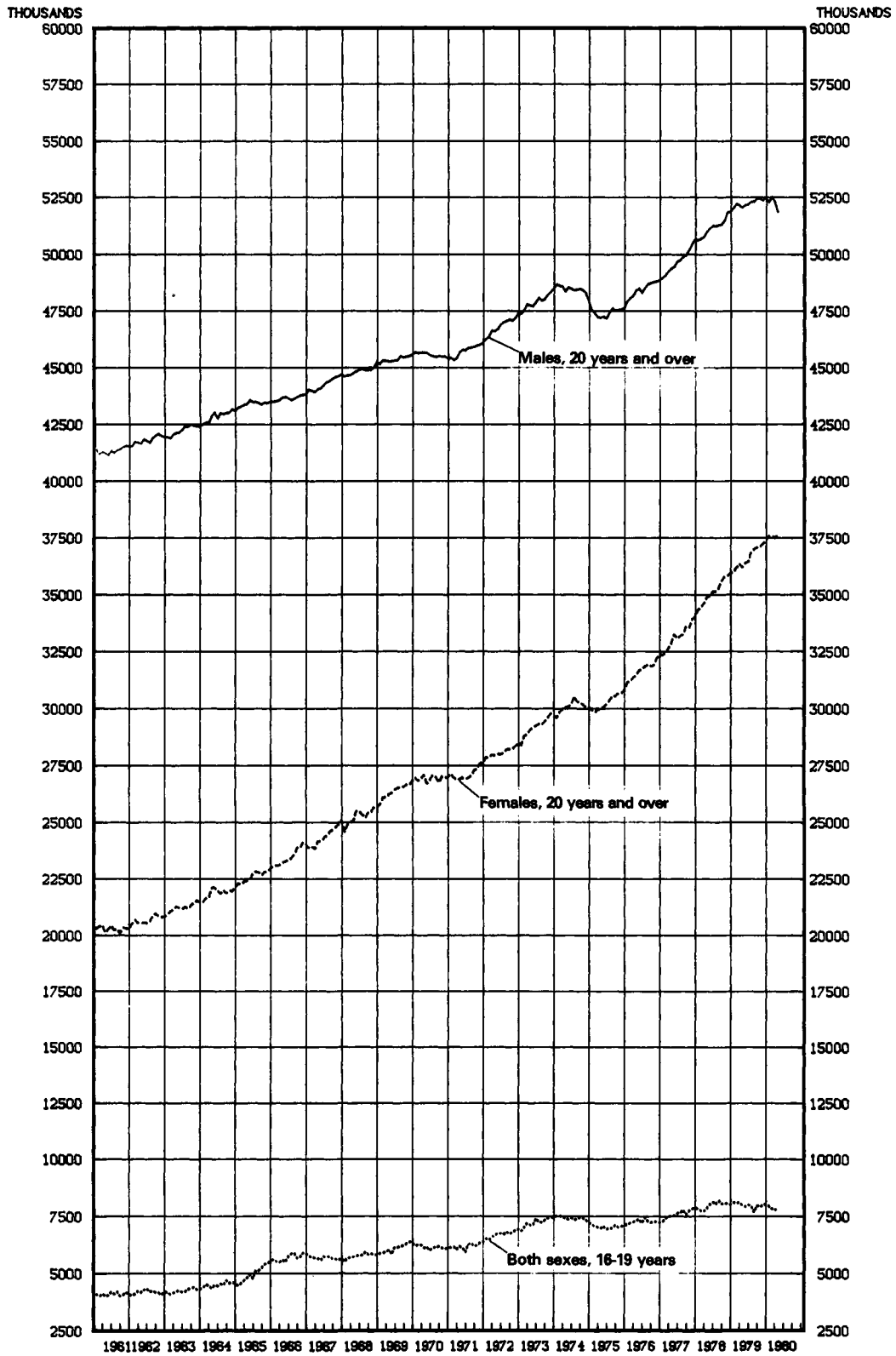


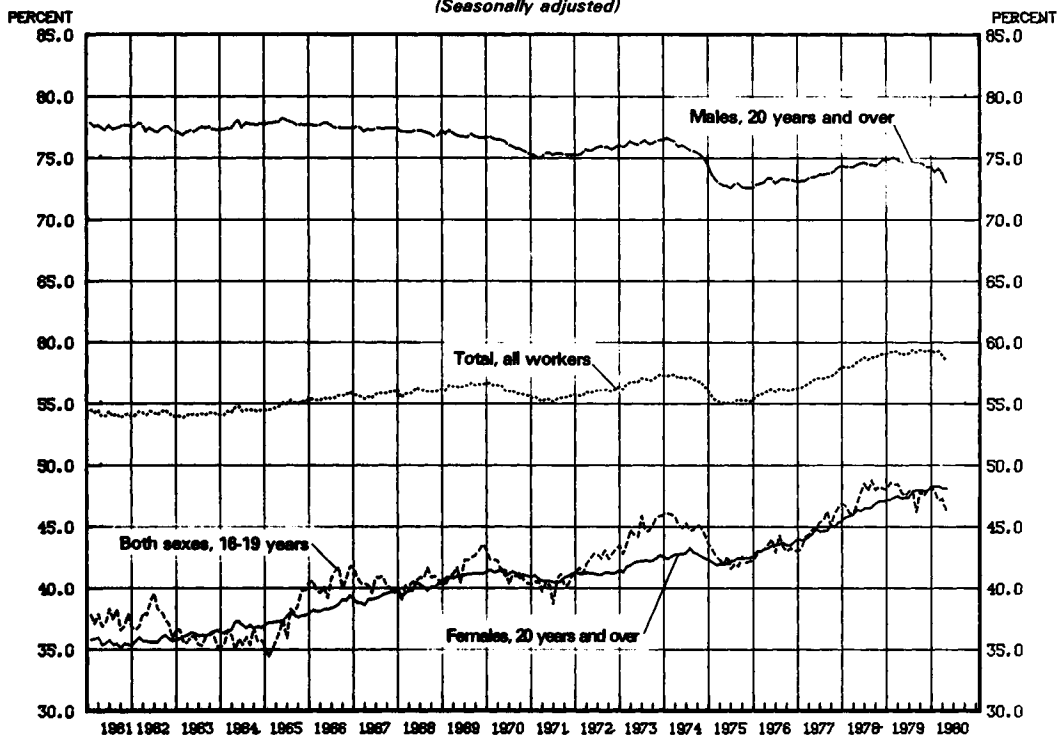
Chart 4. Total employment by sex and age

(Seasonally adjusted)



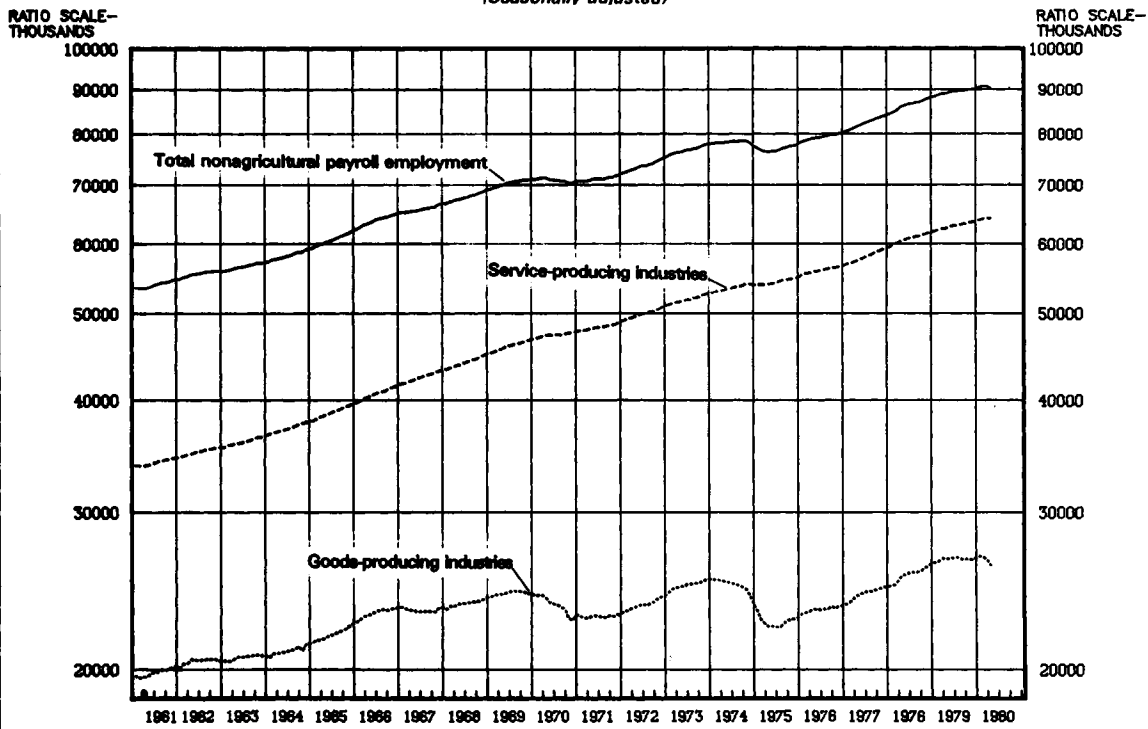
SOURCE: Table A-33.

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



SOURCE: Table A-33.

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

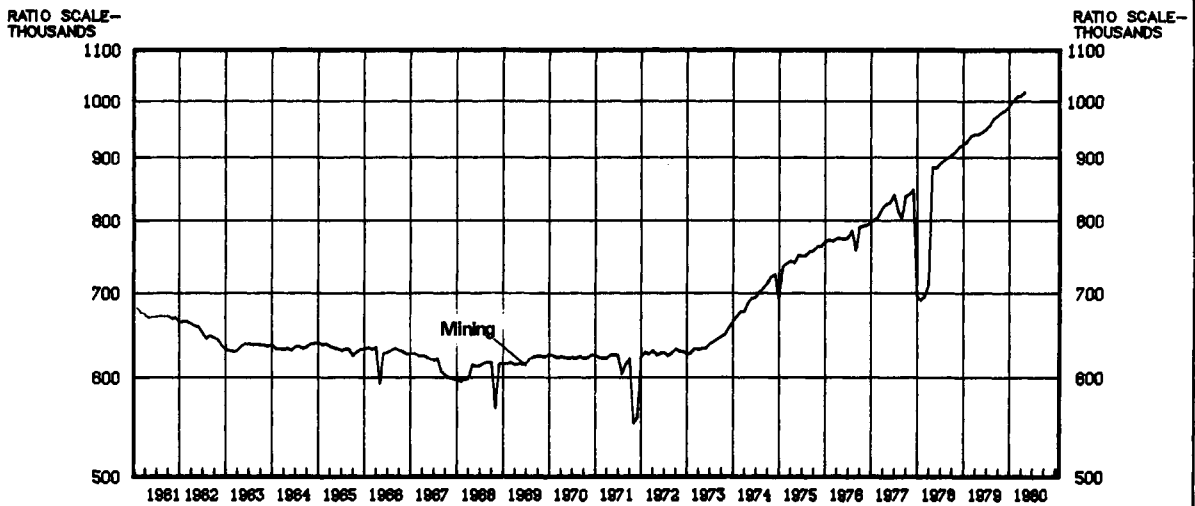
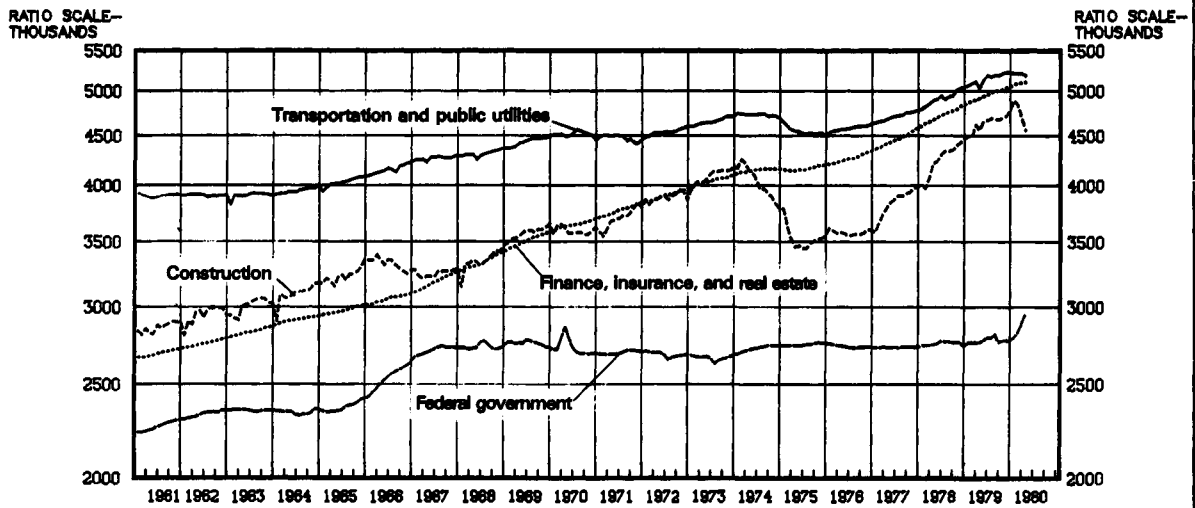
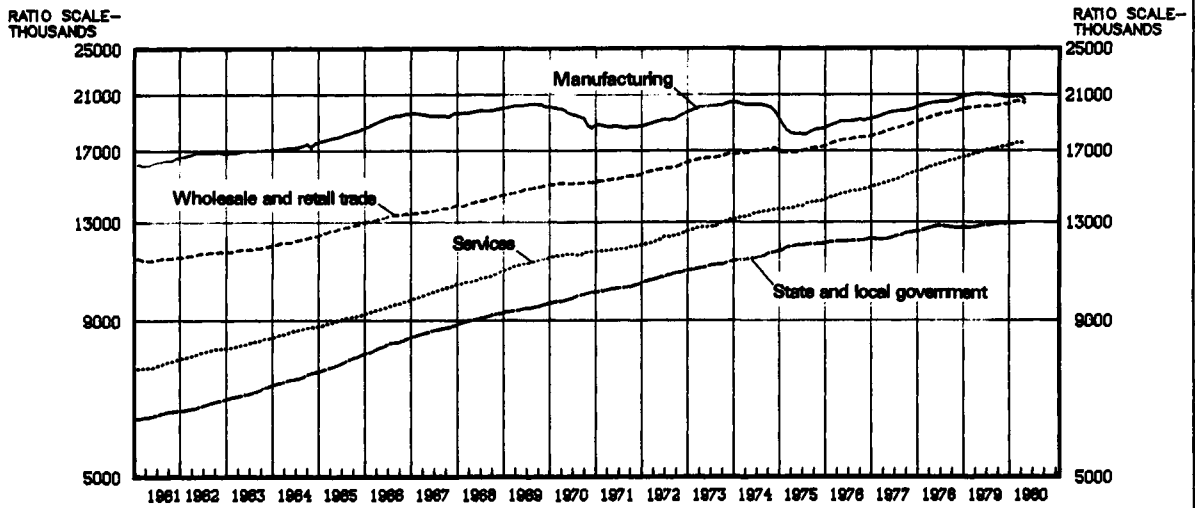


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

Chart 7. Nonagricultural payroll employment by industry

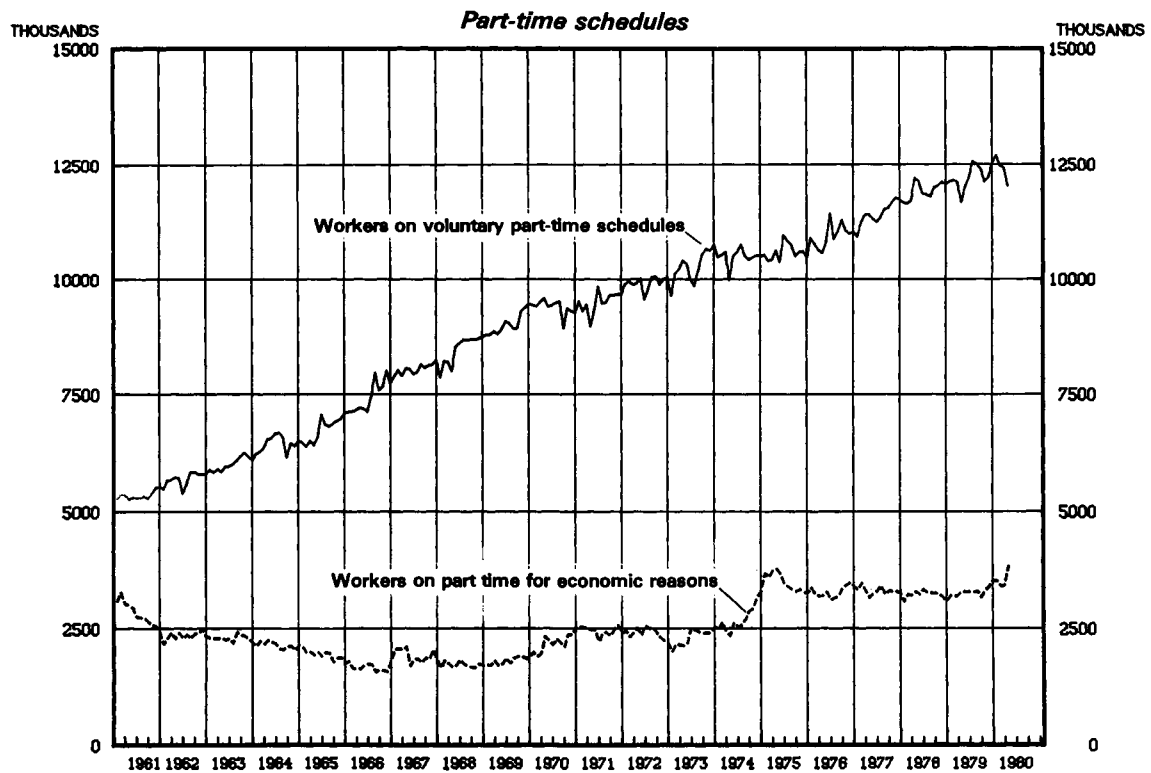
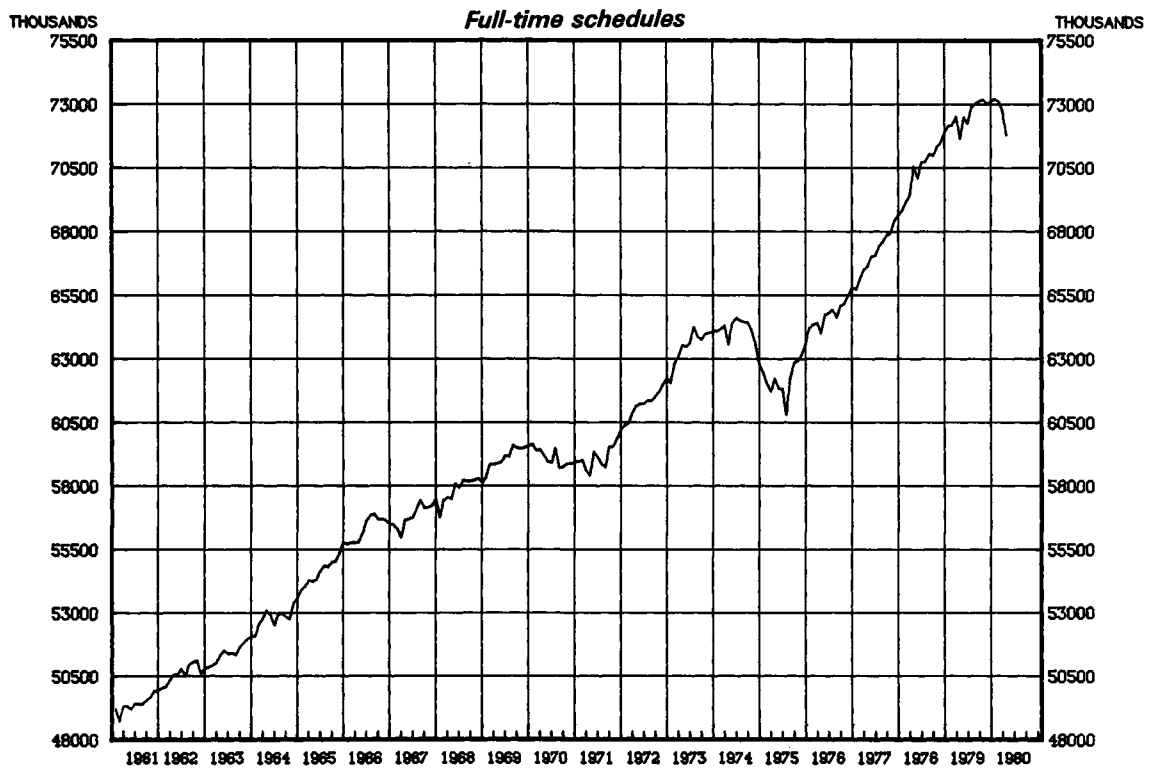
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

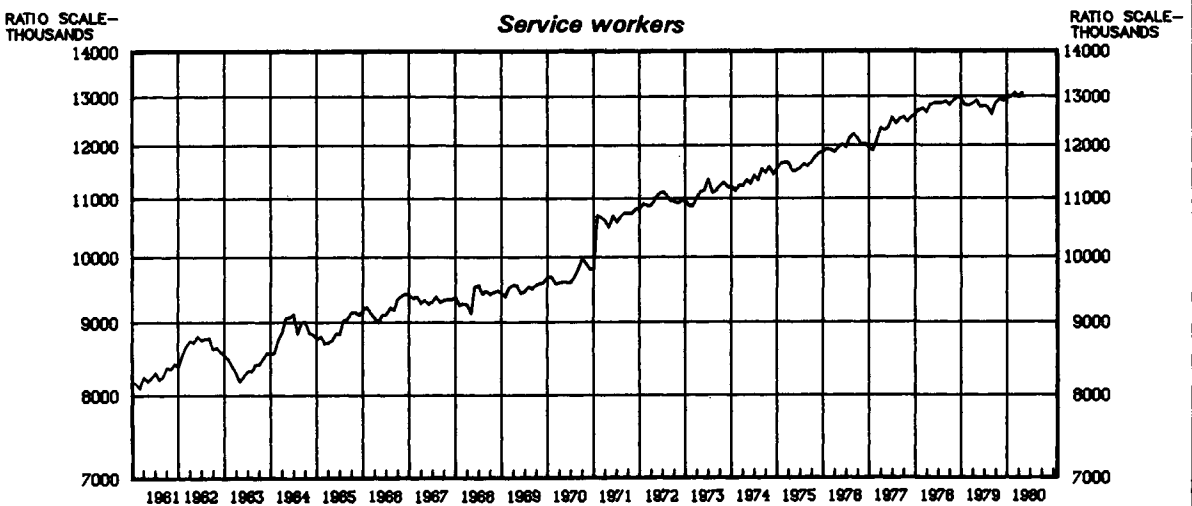
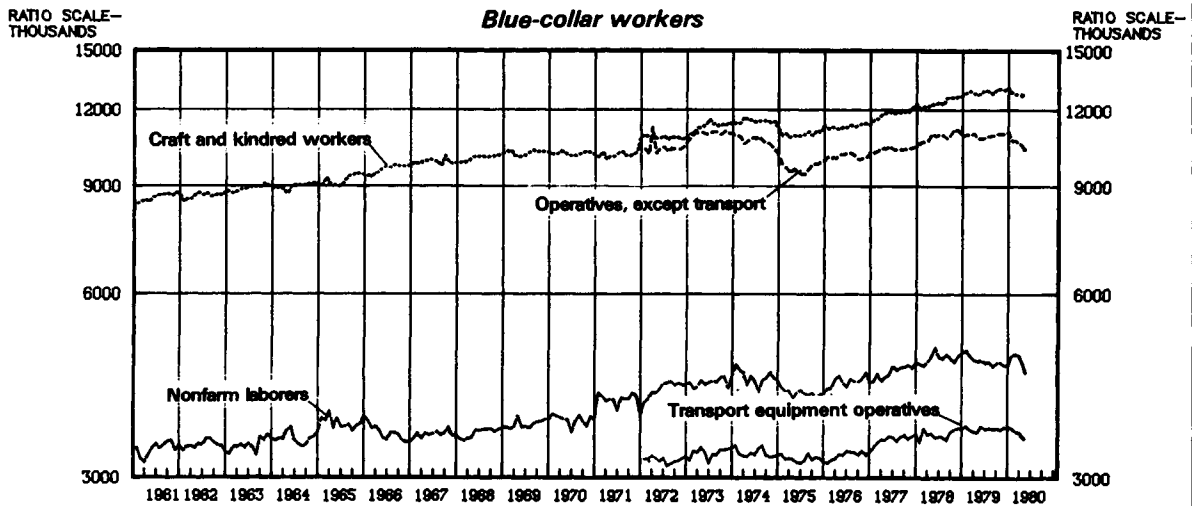
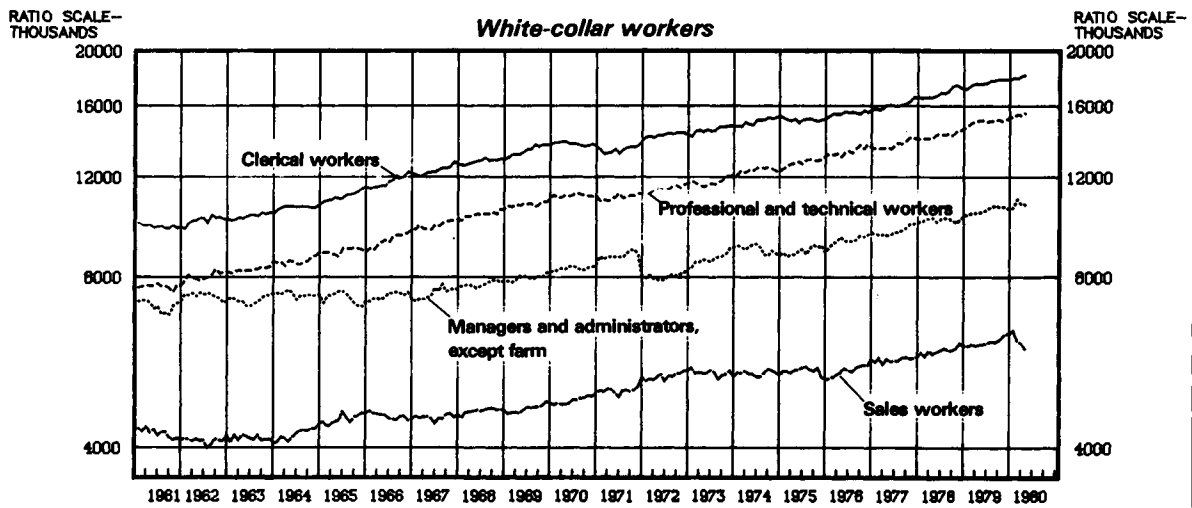
Chart 8. Persons at work full and part time in nonagricultural industries
(Seasonally adjusted)



SOURCE: Table A-42.

Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)



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

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

(Seasonally adjusted)

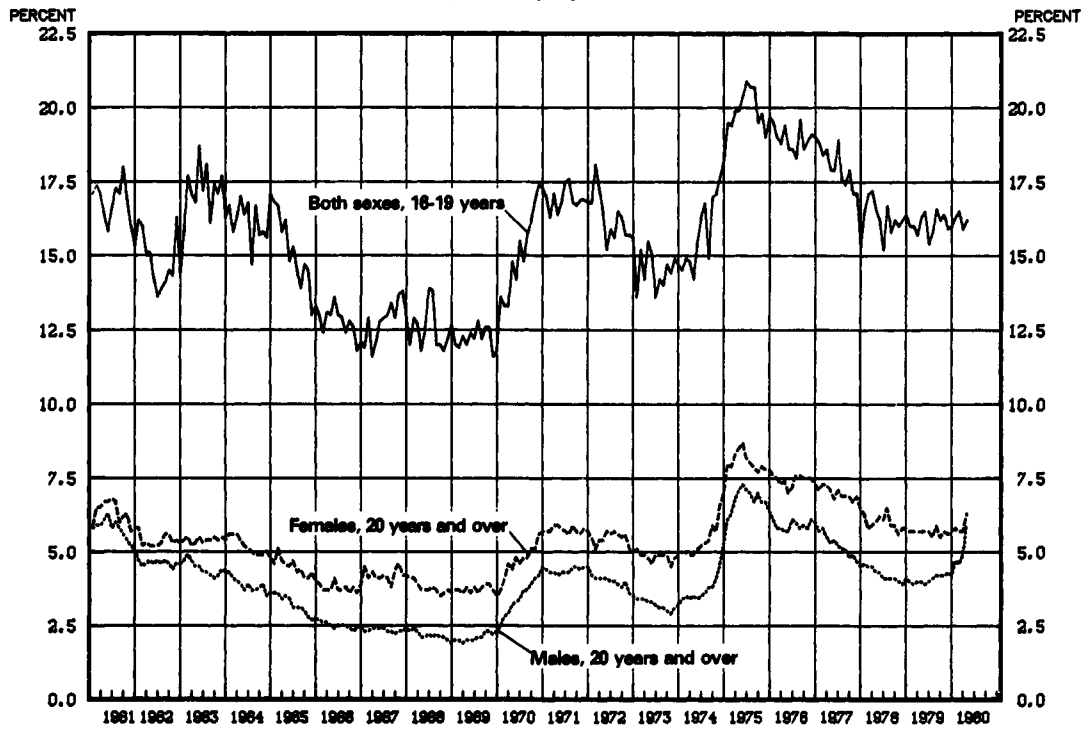
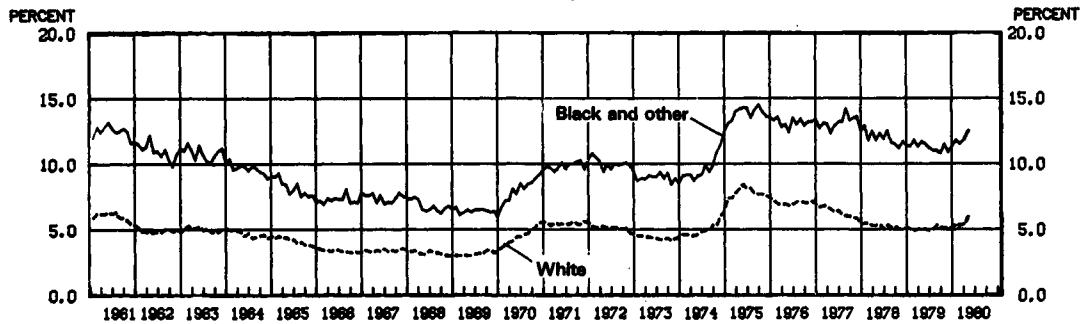
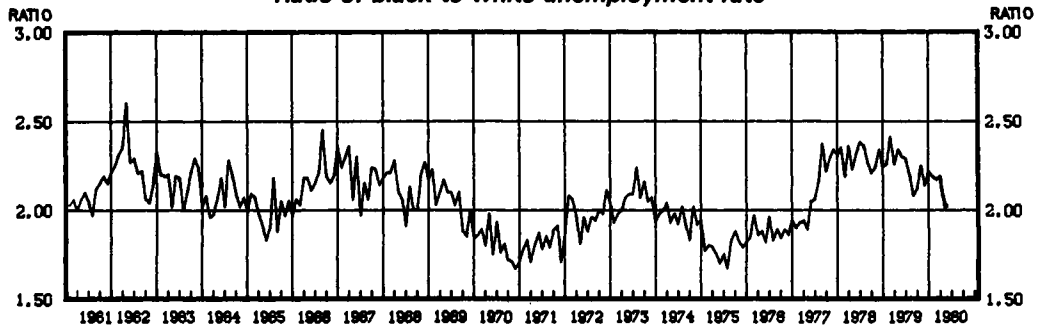


Chart 11. Unemployment rates by race

(Seasonally adjusted)

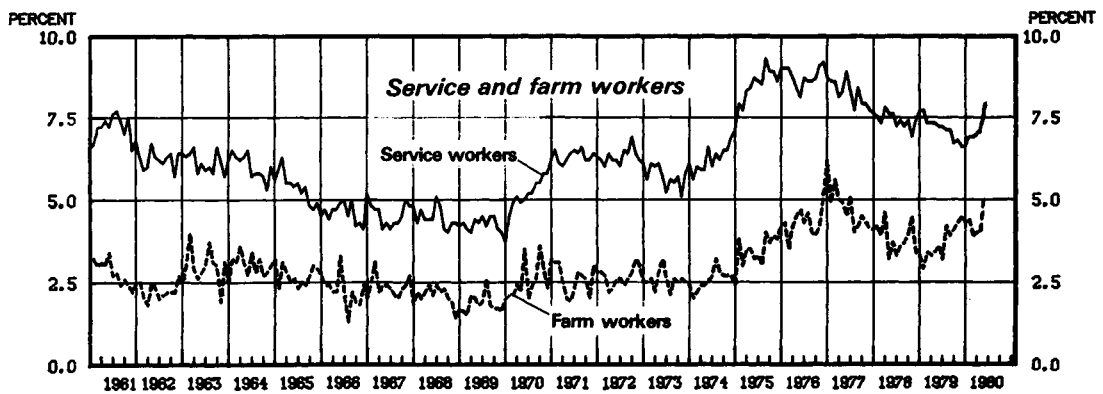
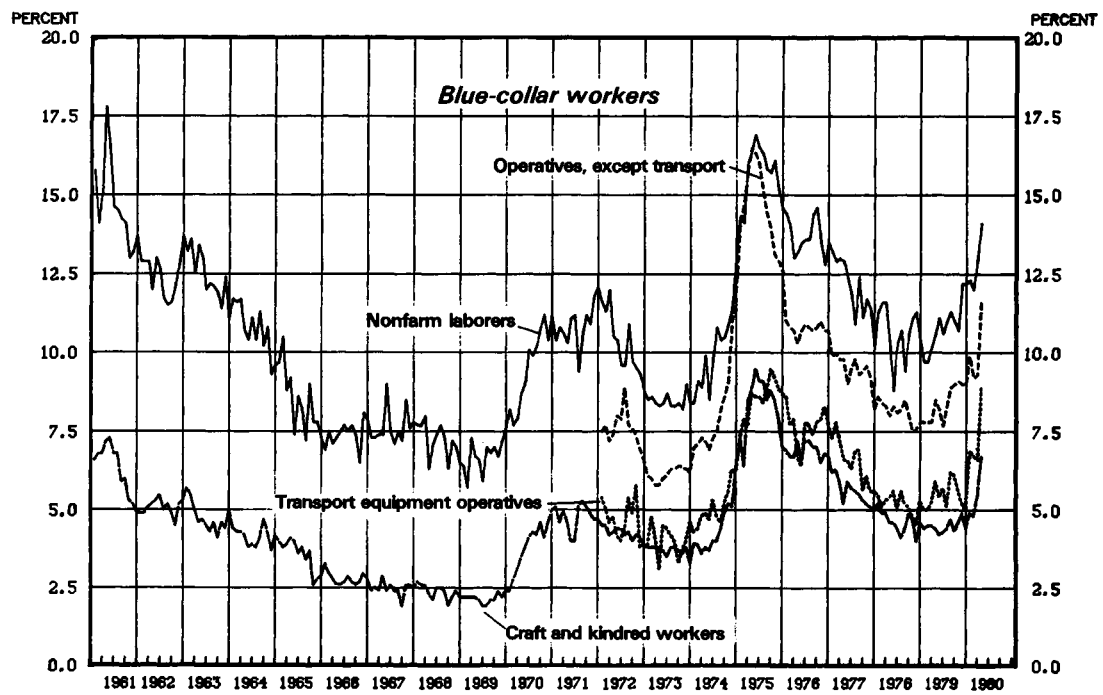
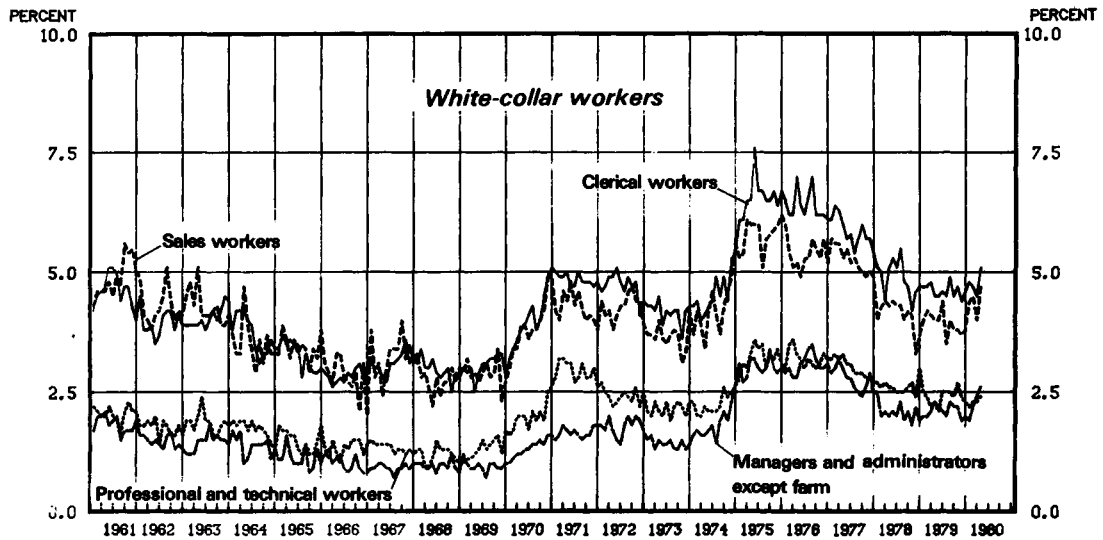


Ratio of black to white unemployment rate



SOURCE: Table A-36.

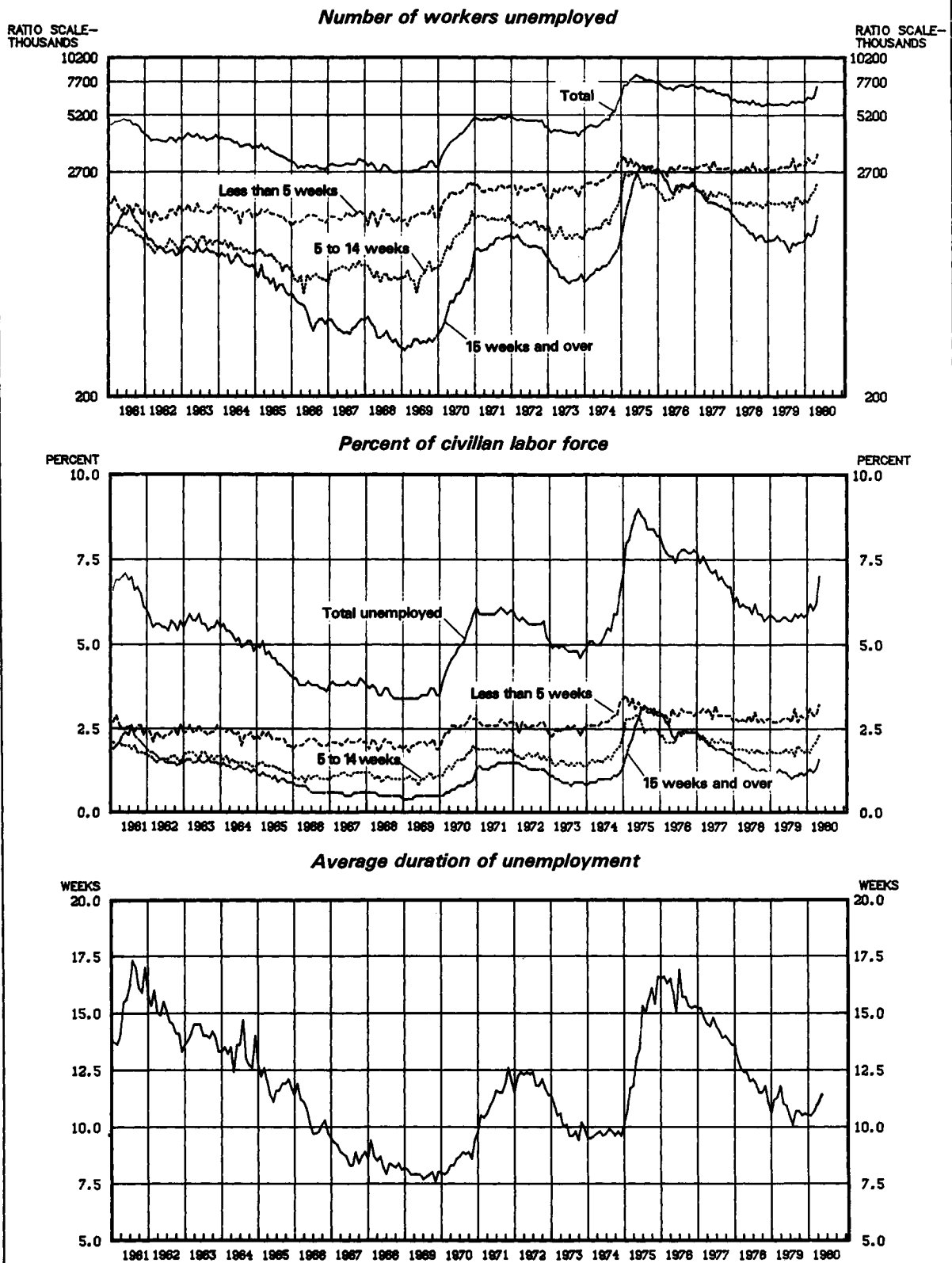
Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

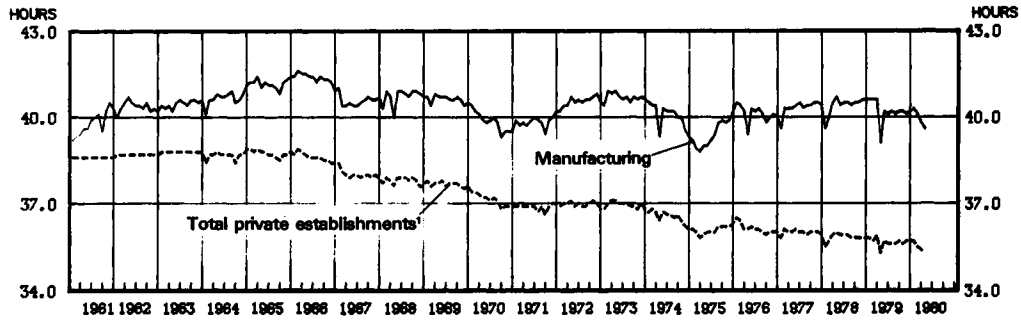
Chart 13. Duration of unemployment

(Seasonally adjusted)

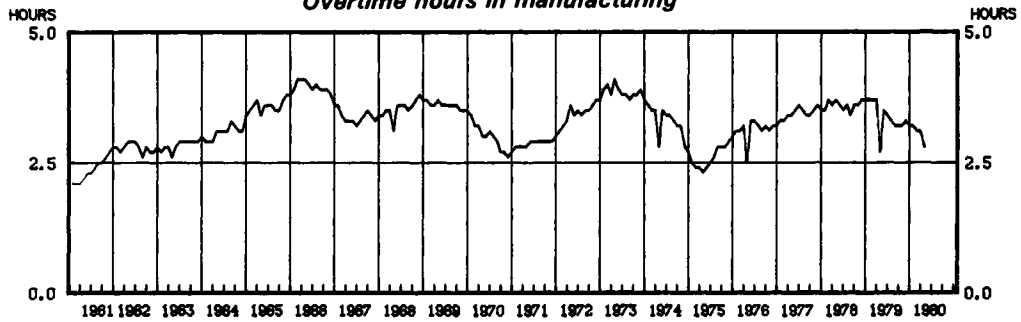


SOURCE: Table A-37.

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



Overtime hours in manufacturing

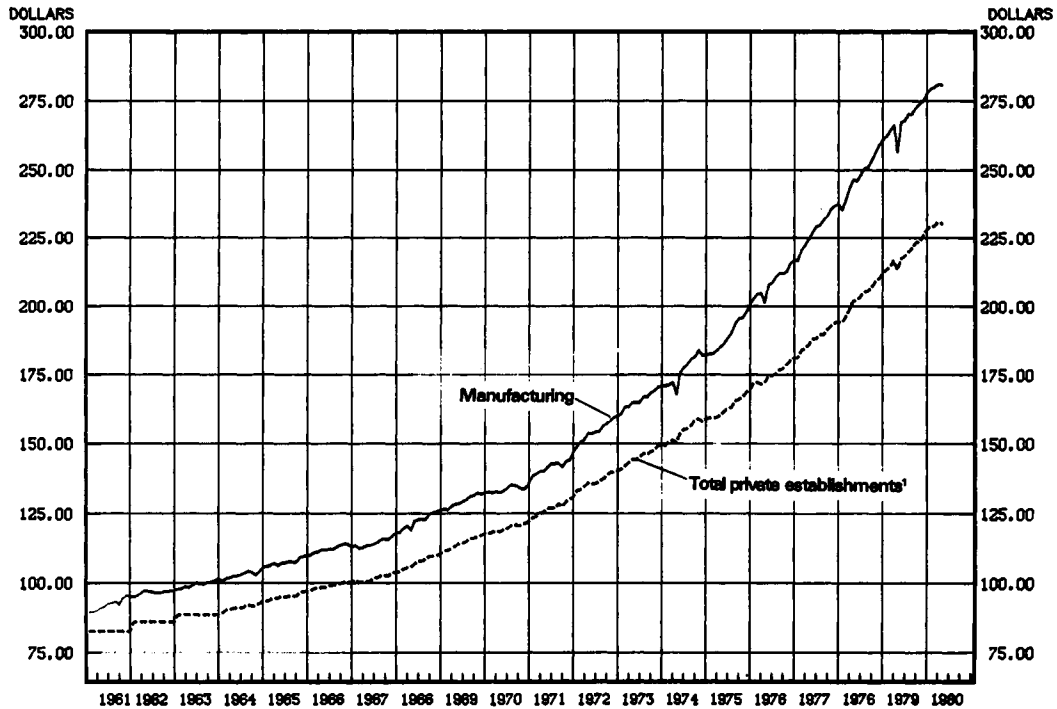


¹ Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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



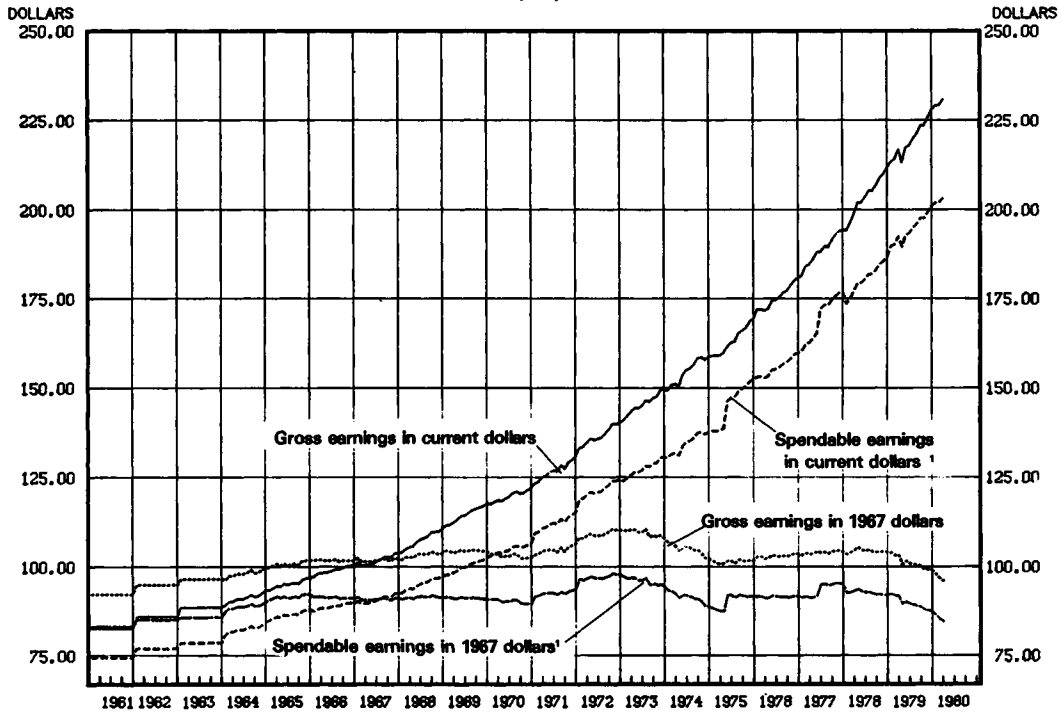
¹ Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

Chart 16. Total private gross and spendable weekly earnings

(Seasonally adjusted)



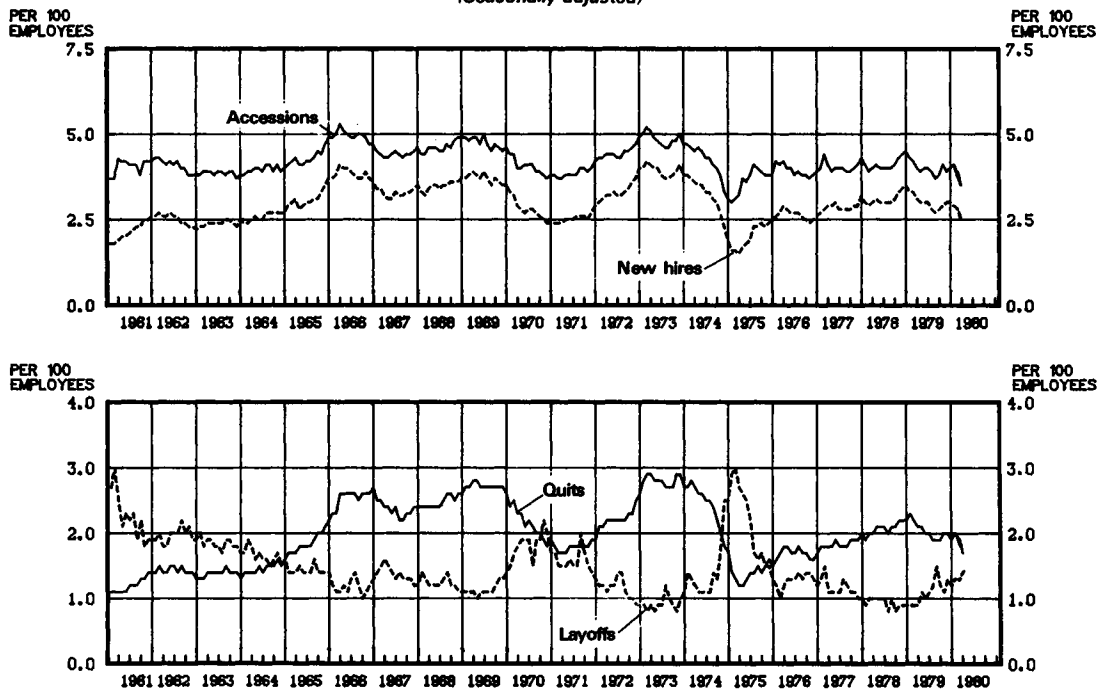
¹ Married worker with three dependents.

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.....	103,419	60,941	58.9	59,250	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	59.5	61,246	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	5.2	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,923	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	62,015	61,179	6,260	54,919	1,894	2.9	44,041
1954.....	111,671	66,902	60.0	62,643	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	6,282	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	4.2	45,336
1958.....	116,263	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	52,602
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	92,240	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.....	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 adjusted²										
1979:										
April.....	163,008	104,280	64.0	102,198	96,254	3,215	92,039	5,944	5.8	58,728
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	58,780
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

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

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

**HOUSEHOLD DATA
HISTORICAL**

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

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
MALES										
Annual averages										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978.....	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:										
April....	78,105	61,240	78.4	59,293	56,294	2,593	53,701	2,999	5.1	16,865
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
FEMALES										
Annual averages										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 ¹	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
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:										
April....	84,903	43,040	50.7	42,905	39,960	622	39,338	2,945	6.9	41,863
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

¹ See footnote 1, table A-1.

² See footnote 2, table A-1.

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

[Numbers in thousands]

Sex, age, and race	April 1990										
	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	61,333	77.3	59,397	55,458	3,939	6.6	18,049	324	4,595	1,853	11,278
16 to 21 years	8,259	65.1	7,617	6,474	1,143	15.0	4,422	11	3,754	35	622
16 to 19 years	4,832	57.6	4,556	3,853	703	15.4	3,562	7	3,069	19	467
16 to 17 years	1,878	45.5	1,862	1,524	338	18.1	2,248	--	1,985	9	255
18 to 19 years	2,954	69.2	2,694	2,329	365	13.6	1,314	6	1,085	10	212
20 to 64 years	54,623	89.3	52,965	49,792	3,172	6.0	6,570	155	1,524	1,363	3,530
20 to 24 years	8,843	85.5	8,112	7,141	971	12.0	1,502	15	1,128	52	308
25 to 54 years	38,598	94.2	37,672	35,732	1,940	5.1	2,368	84	389	721	1,173
25 to 29 years	8,716	94.4	8,354	7,649	705	8.4	521	7	255	53	206
30 to 34 years	8,067	96.2	7,814	7,392	422	5.4	316	18	67	73	158
35 to 39 years	6,479	95.8	6,290	6,024	266	4.2	282	13	23	102	144
40 to 44 years	5,332	94.9	5,246	5,049	197	3.8	289	10	15	105	159
45 to 49 years	5,010	93.5	4,981	4,787	193	3.9	351	9	17	160	165
50 to 54 years	4,994	89.2	4,987	4,830	157	3.1	607	26	12	228	341
55 to 64 years	7,182	72.7	7,181	6,920	261	3.6	2,701	57	6	590	2,048
55 to 59 years	4,372	81.4	4,370	4,209	161	3.7	999	26	6	304	664
60 to 64 years	2,810	62.3	2,810	2,711	100	3.6	1,701	30	--	286	1,385
65 years and over	1,877	19.2	1,877	1,813	64	3.4	7,917	162	2	471	7,281
65 to 69 years	1,109	29.1	1,109	1,065	44	4.0	2,705	57	1	159	2,488
70 years and over	768	12.8	768	748	20	2.6	5,212	105	1	312	4,794
White											
16 years and over	54,570	78.2	53,070	49,911	3,159	6.0	15,235	244	3,654	1,449	9,888
16 to 21 years	7,286	67.8	6,807	5,879	928	13.6	3,460	6	2,964	24	467
16 to 19 years	4,322	61.0	4,115	3,534	581	14.1	2,768	3	2,384	17	364
16 to 17 years	1,720	49.6	1,706	1,419	287	16.8	1,746	--	1,530	8	208
18 to 19 years	2,602	71.8	2,409	2,115	293	12.2	1,022	2	854	9	156
20 to 64 years	48,551	90.1	47,258	44,724	2,534	5.4	5,352	99	1,269	1,060	2,922
20 to 24 years	7,656	86.3	7,111	6,340	771	10.8	1,218	8	971	32	207
25 to 54 years	34,300	95.0	33,554	32,008	1,546	4.6	1,802	47	295	555	906
25 to 29 years	14,811	95.9	14,327	13,442	885	6.2	625	15	251	93	262
30 to 34 years	10,545	96.3	10,315	9,944	371	3.6	410	10	25	159	216
35 to 44 years	8,944	92.1	8,912	8,622	290	3.3	767	23	20	298	427
55 to 64 years	6,594	73.9	6,593	6,376	217	3.3	2,332	45	3	474	1,810
55 to 59 years	4,018	83.0	4,017	3,879	138	3.4	823	18	3	233	569
60 to 64 years	2,576	63.1	2,576	2,497	79	3.1	1,509	27	--	241	1,241
65 years and over	1,697	19.3	1,697	1,653	44	2.6	7,115	142	1	371	6,602
Black and other											
16 years and over	6,762	70.6	6,327	5,547	780	12.3	2,814	80	941	404	1,390
16 to 21 years	973	50.3	811	595	216	26.6	962	5	790	12	155
16 to 19 years	510	39.1	440	318	122	27.7	794	4	685	1	103
16 to 17 years	158	23.9	155	105	51	32.5	503	--	455	1	47
18 to 19 years	352	54.7	285	213	72	25.1	291	4	231	1	56
20 to 64 years	6,072	83.3	5,706	5,068	638	11.2	1,217	55	254	301	607
20 to 24 years	1,186	80.7	1,001	801	200	20.0	284	6	156	20	101
25 to 54 years	4,298	88.4	4,118	3,724	394	9.6	565	37	94	166	268
25 to 29 years	1,972	90.3	1,842	1,600	242	13.1	212	11	72	28	101
30 to 34 years	1,267	88.6	1,221	1,129	92	7.6	162	13	13	48	88
35 to 44 years	1,060	84.8	1,055	995	60	5.7	191	13	9	90	79
55 to 64 years	588	61.4	588	544	44	7.5	369	12	4	115	238
55 to 59 years	354	66.7	354	330	23	6.6	177	8	3	71	94
60 to 64 years	234	54.9	234	214	20	8.7	192	4	1	45	143
65 years and over	180	18.3	180	160	20	11.2	803	21	1	101	680

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	April 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	44,172	51.2	44,015	41,108	2,907	6.6	42,139	31,277	4,632	1,247	4,983
16 to 21 years	6,679	53.8	6,616	5,768	848	12.8	5,734	1,338	3,774	24	598
16 to 19 years	3,932	47.9	3,904	3,321	583	14.9	4,268	644	3,141	9	474
16 to 17 years	1,519	38.1	1,518	1,249	270	17.8	2,472	164	2,025	1	281
18 to 19 years	2,413	57.3	2,386	2,073	314	13.1	1,797	480	1,116	8	193
20 to 64 years	39,084	60.9	38,955	36,666	2,289	5.9	25,042	21,055	1,474	588	1,925
20 to 24 years	6,955	67.3	6,879	6,234	645	9.4	3,377	2,089	998	39	252
25 to 64 years	27,469	64.3	27,416	25,929	1,487	5.4	15,280	13,604	461	305	910
25 to 29 years	6,385	67.8	6,348	5,865	483	7.6	3,028	2,613	190	32	193
30 to 34 years	5,559	64.6	5,548	5,243	305	5.5	3,043	2,736	128	31	148
35 to 39 years	4,613	64.9	4,610	4,398	212	4.6	2,494	2,246	72	48	127
40 to 44 years	3,978	66.7	3,978	3,781	197	4.9	1,987	1,798	34	40	115
45 to 49 years	3,554	62.9	3,553	3,409	145	4.1	2,100	1,906	29	56	110
50 to 64 years	3,378	56.2	3,378	3,234	145	4.3	2,628	2,306	9	98	216
55 to 64 years	4,660	42.2	4,660	4,503	157	3.4	6,385	5,362	15	245	763
55 to 59 years	2,924	49.5	2,924	2,830	94	3.2	2,982	2,533	5	137	307
60 to 64 years	1,736	33.8	1,736	1,673	63	3.6	3,403	2,829	10	108	456
65 years and over	1,156	8.3	1,156	1,121	35	3.0	12,828	9,578	17	649	2,584
65 to 69 years	728	15.3	728	701	27	3.7	4,033	3,244	8	107	673
70 years and over	427	4.6	427	419	8	1.9	8,796	6,334	9	542	1,911
White											
16 years and over	38,291	51.0	38,174	35,975	2,200	5.8	36,775	27,940	3,585	938	4,311
16 to 21 years	5,922	56.8	5,877	5,234	643	10.9	4,510	1,065	2,960	13	473
16 to 19 years	3,536	51.4	3,517	3,054	462	13.1	3,343	511	2,440	5	387
16 to 17 years	1,388	41.6	1,387	1,164	223	16.1	1,947	138	1,572	1	235
18 to 19 years	2,149	60.6	2,130	1,890	239	11.2	1,396	373	868	4	151
20 to 64 years	33,729	60.7	33,623	31,928	1,705	5.1	21,794	18,630	1,131	421	1,612
20 to 24 years	6,017	69.0	5,961	5,509	452	7.6	2,707	1,703	790	24	190
25 to 64 years	23,559	63.9	23,519	22,397	1,123	4.8	13,331	12,029	331	219	753
25 to 29 years	10,148	65.9	10,113	9,531	581	5.7	5,254	4,706	222	50	277
30 to 34 years	7,376	65.3	7,372	7,061	311	4.2	3,920	3,579	81	63	198
35 to 44 years	6,036	59.2	6,035	5,804	231	3.8	4,157	3,744	28	106	279
55 to 64 years	4,153	41.9	4,153	4,023	130	3.1	5,756	4,897	12	178	669
55 to 59 years	2,597	49.1	2,597	2,519	78	3.0	2,687	2,309	4	103	271
60 to 64 years	1,555	33.6	1,555	1,503	52	3.4	3,069	2,588	7	75	398
65 years and over	1,025	8.1	1,025	993	32	3.1	11,637	8,799	14	512	2,312
Black and other											
16 years and over	5,881	52.3	5,841	5,134	707	12.1	5,364	3,337	1,047	308	672
16 to 21 years	756	38.2	739	534	205	27.8	1,224	273	815	11	126
16 to 19 years	396	30.0	388	267	121	31.2	925	133	701	4	87
16 to 17 years	131	20.0	131	85	47	35.5	525	26	453	--	45
18 to 19 years	265	39.8	257	182	74	29.0	400	106	248	4	42
20 to 64 years	5,355	62.3	5,323	4,740	583	11.0	3,248	2,426	341	167	313
20 to 24 years	938	58.1	918	726	193	21.0	670	386	208	14	63
25 to 64 years	3,910	66.7	3,897	3,533	364	9.3	1,949	1,576	131	86	156
25 to 29 years	1,796	68.7	1,784	1,577	207	11.6	817	643	96	13	64
30 to 34 years	1,217	68.5	1,216	1,118	98	8.0	560	465	25	25	45
35 to 44 years	897	61.1	897	838	59	6.5	571	467	9	47	47
55 to 64 years	508	44.7	508	481	27	5.3	629	465	3	67	94
55 to 59 years	327	52.6	327	311	16	5.0	295	224	--	34	37
60 to 64 years	181	35.1	181	170	11	5.9	334	241	3	33	57
65 years and over	130	9.9	130	127	3	2.3	1,191	778	4	137	272

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	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
MALES								
16 years and over	60,594	61,333	77.6	77.3	58,647	59,397	77.0	76.7
16 to 19 years	4,970	4,832	58.9	57.6	4,689	4,556	57.5	56.1
16 to 17 years	2,005	1,878	47.9	45.5	1,993	1,862	47.8	45.3
18 to 19 years	2,965	2,954	69.6	69.2	2,696	2,694	67.6	67.2
20 to 24 years	8,802	8,843	86.1	85.5	8,057	8,112	85.0	84.4
25 to 54 years	37,821	38,598	94.3	94.2	36,900	37,672	94.1	94.1
25 to 34 years	16,222	16,784	95.2	95.2	15,614	16,168	95.0	95.1
35 to 44 years	11,513	11,811	95.6	95.4	11,236	11,536	95.5	95.3
45 to 54 years	10,087	10,004	91.4	91.3	10,051	9,968	91.3	91.2
55 to 64 years	7,068	7,182	72.5	72.7	7,067	7,181	72.5	72.7
55 to 59 years	4,341	4,372	81.2	81.4	4,340	4,370	81.2	81.4
60 to 64 years	2,727	2,810	61.9	62.3	2,727	2,810	61.9	62.3
65 years and over	1,933	1,877	20.2	19.2	1,933	1,877	20.2	19.2
White								
16 years and over	53,903	54,570	78.3	78.2	52,358	53,070	77.9	77.7
16 to 19 years	4,426	4,322	61.9	61.0	4,209	4,115	60.7	59.8
16 to 17 years	1,826	1,720	51.8	49.6	1,816	1,706	51.7	49.4
18 to 19 years	2,600	2,602	71.7	71.8	2,393	2,409	70.0	70.2
20 to 24 years	7,617	7,656	86.6	86.3	7,044	7,111	85.7	85.4
25 to 54 years	33,650	34,300	95.0	95.0	32,896	33,554	94.9	94.9
25 to 34 years	14,343	14,811	95.8	95.9	13,854	14,327	95.7	95.8
35 to 44 years	10,269	10,545	96.4	96.3	10,037	10,315	96.3	96.2
45 to 54 years	9,038	8,944	92.2	92.1	9,005	8,912	92.2	92.1
55 to 64 years	6,463	6,594	73.3	73.9	6,462	6,593	73.3	73.9
55 to 59 years	3,971	4,018	82.4	83.0	3,970	4,017	82.4	83.0
60 to 64 years	2,492	2,576	62.4	63.1	2,492	2,576	62.4	63.1
65 years and over	1,747	1,697	20.3	19.3	1,747	1,697	20.3	19.3
Black and other								
16 years and over	6,691	6,762	71.9	70.6	6,289	6,327	70.6	69.2
16 to 19 years	544	510	42.2	39.1	480	440	39.1	35.7
16 to 17 years	179	158	27.2	23.9	177	155	27.0	23.6
18 to 19 years	365	352	57.7	54.7	303	285	53.1	49.4
20 to 24 years	1,185	1,186	82.8	80.7	1,014	1,001	80.4	77.9
25 to 54 years	4,172	4,298	88.8	88.4	4,005	4,118	88.4	87.9
25 to 34 years	1,879	1,972	90.4	90.3	1,760	1,842	89.9	89.7
35 to 44 years	1,243	1,267	89.8	88.6	1,199	1,221	89.5	88.3
45 to 54 years	1,049	1,060	84.8	84.8	1,045	1,055	84.8	84.7
55 to 64 years	605	588	64.8	61.4	605	588	64.8	61.4
55 to 59 years	370	354	70.1	66.7	370	354	70.1	66.7
60 to 64 years	235	234	57.8	54.9	235	234	57.8	54.9
65 years and over	186	180	19.5	18.3	186	180	19.5	18.3

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
FEMALES								
16 years and over	42,724	44,172	50.3	51.2	42,589	44,015	50.2	51.1
16 to 19 years	4,187	3,932	50.7	47.9	4,164	3,904	50.6	47.8
16 to 17 years	1,683	1,519	41.5	38.1	1,682	1,518	41.5	38.1
18 to 19 years	2,504	2,413	59.5	57.3	2,482	2,386	59.3	57.0
20 to 24 years	6,907	6,955	67.6	67.3	6,839	6,879	67.4	67.1
25 to 54 years	25,859	27,469	61.7	64.3	25,815	27,416	61.7	64.2
25 to 34 years	11,027	11,944	63.3	66.3	10,988	11,896	63.2	66.2
35 to 44 years	8,040	8,592	63.3	65.7	8,036	8,588	63.3	65.7
45 to 54 years	6,793	6,932	57.7	59.5	6,792	6,931	57.7	59.4
55 to 64 years	4,582	4,660	42.1	42.2	4,582	4,660	42.1	42.2
55 to 59 years	2,846	2,924	48.5	49.5	2,846	2,924	48.5	49.5
60 to 64 years	1,736	1,736	34.5	33.8	1,736	1,736	34.5	33.8
65 years and over	1,189	1,156	8.7	8.3	1,189	1,156	8.7	8.3
White								
16 years and over	36,942	38,291	49.9	51.0	36,837	38,174	49.9	50.9
16 to 19 years	3,707	3,536	53.4	51.4	3,690	3,517	53.3	51.3
16 to 17 years	1,525	1,388	44.9	41.6	1,525	1,387	44.9	41.6
18 to 19 years	2,182	2,149	61.5	60.6	2,165	2,130	61.3	60.4
20 to 24 years	5,975	6,017	69.1	69.0	5,922	5,961	69.0	68.8
25 to 54 years	22,130	23,559	61.1	63.9	22,096	23,519	61.0	63.8
25 to 34 years	9,322	10,148	62.5	65.9	9,292	10,113	62.4	65.8
35 to 44 years	6,870	7,376	62.5	65.3	6,867	7,372	62.5	65.3
45 to 54 years	5,938	6,036	57.5	59.2	5,937	6,035	57.5	59.2
55 to 64 years	4,076	4,153	41.7	41.9	4,076	4,153	41.7	41.9
55 to 59 years	2,531	2,597	48.2	49.1	2,531	2,597	48.2	49.1
60 to 64 years	1,546	1,555	34.1	33.6	1,546	1,555	34.1	33.6
65 years and over	1,053	1,025	8.5	8.1	1,053	1,025	8.5	8.1
Black and other								
16 years and over	5,782	5,881	52.9	52.3	5,752	5,841	52.8	52.1
16 to 19 years	480	396	36.5	30.0	475	388	36.3	29.5
16 to 17 years	157	131	24.0	20.0	157	131	24.0	20.0
18 to 19 years	322	265	49.0	39.8	317	257	48.6	39.1
20 to 24 years	932	938	59.3	58.3	917	918	58.9	57.8
25 to 54 years	3,729	3,910	65.9	66.7	3,719	3,897	65.8	66.7
25 to 34 years	1,705	1,796	68.4	68.7	1,696	1,784	68.3	68.6
35 to 44 years	1,170	1,217	68.1	68.5	1,169	1,216	68.1	68.4
45 to 54 years	854	897	58.9	61.1	854	897	58.9	61.1
55 to 64 years	505	508	45.7	44.7	505	508	45.7	44.7
55 to 59 years	315	327	51.2	52.6	315	327	51.2	52.6
60 to 64 years	190	181	38.8	35.1	190	181	38.8	35.1
65 years and over	136	130	10.6	9.9	136	130	10.6	9.9

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

[Numbers in thousands]

Sex and age	April 1980						Not in labor force
	Civilian labor force					Total	
	Total	Employed		Unemployed			
		Total	Agri- culture	Nonagri- cultural indus- tries	Number			Percent of labor force
TOTAL							
16 years and over	10,310	8,966	193	8,773	1,343	13.0	7,021
16 to 19 years	700	478	6	472	222	31.8	1,523
16 to 17 years	237	151	3	149	85	36.0	916
18 to 19 years	463	326	3	323	137	29.6	607
20 to 24 years	1,661	1,293	27	1,266	368	22.1	798
25 to 54 years	6,731	6,058	121	5,937	672	10.0	2,072
25 to 34 years	3,029	2,631	42	2,589	398	13.2	812
35 to 44 years	2,056	1,886	47	1,838	170	8.3	612
45 to 54 years	1,645	1,541	33	1,509	104	6.3	648
55 to 64 years	946	885	22	864	61	6.5	889
55 to 59 years	587	553	15	538	34	5.8	410
60 to 64 years	359	332	7	325	27	7.5	479
65 years and over	272	252	18	234	20	7.2	1,739
Males							
16 years and over	5,365	4,654	172	4,482	710	13.2	2,404
16 to 19 years	383	268	5	263	115	30.0	694
16 to 17 years	131	84	1	85	46	35.1	449
18 to 19 years	251	183	3	179	69	27.5	245
20 to 24 years	866	681	25	656	185	21.4	224
25 to 54 years	3,455	3,104	104	3,000	350	10.1	477
25 to 34 years	1,533	1,319	37	1,282	213	13.9	165
35 to 44 years	1,025	945	37	907	80	7.8	148
45 to 54 years	897	839	30	810	57	6.4	164
55 to 64 years	506	464	22	443	42	8.3	330
55 to 59 years	305	279	15	264	26	8.5	152
60 to 64 years	201	185	7	178	16	8.0	178
65 years and over	154	137	18	119	18	11.7	680
Females							
16 years and over	4,945	4,312	21	4,291	633	12.8	4,617
16 to 19 years	317	210	1	209	107	33.8	829
16 to 17 years	106	67	2	64	39	36.9	467
18 to 19 years	212	143	--	144	68	32.3	362
20 to 24 years	795	612	2	610	183	23.0	574
25 to 54 years	3,276	2,954	17	2,937	322	9.8	1,595
25 to 34 years	1,496	1,312	5	1,307	185	12.3	647
35 to 44 years	1,031	941	10	931	90	8.7	464
45 to 54 years	748	702	3	699	47	6.2	484
55 to 64 years	440	421	--	421	19	4.3	559
55 to 59 years	282	274	--	274	8	3.0	258
60 to 64 years	158	147	--	147	11	6.7	301
65 years and over	118	115	--	115	2	1.9	1,059

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

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A-6. Employment status of the noninstitutional population by 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	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
TOTAL								
Total noninstitutional population	163,008	165,693	69,663	70,988	76,645	78,110	16,700	16,595
Total labor force	103,318	105,505	55,624	56,500	38,537	40,240	9,157	8,764
Percent of population	63.4	63.7	79.8	79.6	50.3	51.5	54.8	52.8
Civilian labor force	101,236	103,412	53,958	54,842	38,425	40,111	8,853	8,460
Employed	95,675	96,566	51,773	51,605	36,403	37,787	7,499	7,174
Agriculture	3,074	3,081	2,237	2,255	534	514	303	311
Nonagricultural industries	92,601	93,485	49,536	49,350	35,869	37,273	7,195	6,863
Unemployed	5,561	6,846	2,185	3,236	2,021	2,324	1,355	1,286
Percent of labor force	5.5	6.6	4.0	5.9	5.3	5.8	15.3	15.2
Not in labor force	59,690	60,188	14,039	14,487	38,108	37,870	7,543	7,831
White								
Total noninstitutional population	142,773	144,870	61,646	62,715	67,031	68,186	14,096	13,970
Total labor force	90,845	92,861	49,477	50,248	33,234	34,754	8,133	7,858
Percent of population	63.6	64.1	80.3	80.1	49.6	51.0	57.7	56.3
Civilian labor force	89,195	91,245	48,149	48,955	33,147	34,658	7,899	7,632
Employed	84,997	85,886	46,474	46,377	31,649	32,921	6,874	6,589
Agriculture	2,816	2,833	2,038	2,049	492	485	285	298
Nonagricultural industries	82,181	83,053	44,436	44,328	31,157	32,435	6,589	6,290
Unemployed	4,198	5,359	1,675	2,578	1,498	1,737	1,025	1,043
Percent of labor force	4.7	5.9	3.5	5.3	4.5	5.0	13.0	13.7
Not in labor force	51,928	52,010	12,169	12,467	33,797	33,431	5,963	6,111
Black and other								
Total noninstitutional population	20,234	20,822	8,017	8,273	9,614	9,924	2,604	2,625
Total labor force	12,473	12,644	6,147	6,252	5,303	5,485	1,024	906
Percent of population	61.6	60.7	76.7	75.6	55.2	55.3	39.3	34.5
Civilian labor force	12,041	12,168	5,809	5,886	5,277	5,453	955	828
Employed	10,678	10,680	5,299	5,228	4,755	4,867	625	585
Agriculture	259	248	199	206	42	29	18	13
Nonagricultural industries	10,419	10,432	5,100	5,022	4,713	4,838	607	572
Unemployed	1,363	1,487	510	658	523	586	330	243
Percent of labor force	11.3	12.2	8.8	11.2	9.9	10.8	34.6	29.3
Not in labor force	7,761	8,179	1,869	2,020	4,311	4,439	1,580	1,719

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

(Numbers in thousands)

Employment status	April 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	25,093	12,681	12,413	21,179	10,746	10,433	3,915	1,934	1,980
Total labor force	14,937	8,259	6,679	13,208	7,286	5,922	1,729	973	756
Percent of population	59.5	65.1	53.8	62.4	67.8	56.8	44.2	50.3	38.2
Civilian labor force	14,234	7,617	6,616	12,684	6,807	5,877	1,550	811	739
Employed	12,242	6,474	5,768	11,113	5,879	5,234	1,129	595	534
Agriculture	438	365	73	414	343	71	24	22	2
Nonagricultural industries	11,804	6,109	5,695	10,699	5,536	5,163	1,105	573	532
Unemployed	1,991	1,143	848	1,570	928	643	421	216	205
Looking for full-time work	1,292	774	517	1,019	638	381	273	137	136
Looking for part-time work	700	369	331	552	290	262	148	79	69
Percent of labor force	14.0	15.0	12.8	12.4	13.6	10.9	27.1	26.6	27.8
Not in labor force	10,156	4,422	5,734	7,970	3,460	4,510	2,186	962	1,224
Major activity: going to school									
Civilian labor force	4,051	2,167	1,884	3,636	1,941	1,695	415	226	189
Employed	3,407	1,806	1,601	3,137	1,669	1,468	270	137	133
Agriculture	137	113	24	136	112	24	1	2	--
Nonagricultural industries	3,270	1,693	1,577	3,001	1,557	1,443	269	136	133
Unemployed	644	361	283	499	272	227	145	89	56
Looking for full-time work	80	50	30	61	35	26	19	15	4
Looking for part-time work	564	311	253	438	237	201	126	74	52
Percent of labor force	15.9	16.7	15.0	13.7	14.0	13.4	34.9	39.3	29.6
Not in labor force	7,528	3,754	3,774	5,923	2,964	2,960	1,605	790	815
Major activity: other									
Civilian labor force	10,183	5,450	4,733	9,048	4,866	4,182	1,135	584	550
Employed	8,835	4,668	4,167	7,977	4,210	3,766	859	458	401
Agriculture	301	252	49	278	231	47	23	21	2
Nonagricultural industries	8,534	4,416	4,118	7,699	3,979	3,720	836	437	399
Unemployed	1,347	782	565	1,071	655	416	276	127	149
Looking for full-time work	1,212	724	487	958	603	355	254	122	132
Looking for part-time work	136	58	78	113	53	61	22	5	17
Percent of labor force	13.2	14.3	11.9	11.8	13.5	9.9	24.3	21.7	27.1
Not in labor force	2,628	668	1,960	2,047	496	1,551	581	171	410

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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	April 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.....	87,254	77,931	3,730	5,594	6.4	16,158	14,905	1,252	7.8
16 to 21 years.....	8,380	6,372	717	1,292	15.4	5,854	5,154	700	12.0
16 to 19 years.....	3,805	2,738	394	674	17.7	4,655	4,042	612	13.2
16 to 17 years.....	604	335	93	176	29.1	2,776	2,344	431	15.5
18 to 19 years.....	3,201	2,402	301	498	15.6	1,879	1,698	181	9.6
20 years and over.....	83,449	75,193	3,336	4,920	5.9	11,503	10,863	640	5.6
20 to 24 years.....	12,736	10,560	747	1,429	11.2	2,255	2,067	187	8.3
25 years and over.....	70,713	64,633	2,588	3,492	4.9	9,249	8,795	452	4.9
25 to 54 years.....	58,770	53,601	2,076	3,093	5.3	6,317	5,983	334	5.3
55 years and over.....	11,943	11,032	512	399	3.3	2,931	2,812	118	4.0
Males, 16 years and over.....	54,041	48,730	1,859	3,452	6.4	5,356	4,868	488	9.1
16 to 21 years.....	4,698	3,575	349	774	16.5	2,919	2,550	369	12.6
16 to 19 years.....	2,181	1,603	197	382	17.5	2,374	2,054	321	13.5
20 years and over.....	51,860	47,128	1,663	3,070	5.9	2,982	2,815	167	5.6
20 to 24 years.....	7,178	5,900	378	900	12.5	934	863	71	7.6
25 years and over.....	44,681	41,227	1,284	2,169	4.9	2,048	1,952	95	4.6
25 to 54 years.....	36,905	33,964	1,039	1,902	5.2	767	729	38	5.0
55 years and over.....	7,776	7,263	245	267	3.4	1,282	1,223	57	4.4
Females, 16 years and over.....	33,213	29,200	1,871	2,142	6.4	10,802	10,037	765	7.1
16 to 21 years.....	3,682	2,796	368	517	14.0	2,935	2,604	331	11.3
16 to 19 years.....	1,624	1,135	197	292	18.0	2,280	1,989	292	12.8
20 years and over.....	31,589	28,066	1,673	1,850	5.9	8,521	8,048	473	5.6
20 to 24 years.....	5,558	4,660	369	529	9.5	1,321	1,205	116	8.8
25 years and over.....	26,032	23,405	1,304	1,322	5.1	7,201	6,843	357	5.0
25 to 54 years.....	21,865	19,638	1,037	1,190	5.4	5,551	5,254	297	5.4
55 years and over.....	4,167	3,768	267	131	3.1	1,650	1,589	61	3.7
White									
Males, 16 years and over.....	48,312	43,946	1,584	2,782	5.8	4,758	4,381	377	7.9
16 to 21 years.....	4,177	3,253	286	638	15.3	2,630	2,340	290	11.0
16 to 19 years.....	1,976	1,477	169	331	16.7	2,139	1,889	250	11.7
20 years and over.....	46,335	42,469	1,416	2,451	5.3	2,620	2,492	127	4.9
20 to 24 years.....	6,285	5,256	317	713	11.3	826	768	58	7.0
25 years and over.....	40,050	37,212	1,099	1,739	4.3	1,793	1,725	70	3.9
25 to 54 years.....	32,917	30,506	891	1,520	4.6	636	609	28	4.4
55 years and over.....	7,133	6,706	208	219	3.1	1,157	1,115	42	3.6
Females, 16 years and over.....	28,330	25,239	1,522	1,570	5.5	9,844	9,214	630	6.4
16 to 21 years.....	3,209	2,485	343	381	11.9	2,668	2,406	262	9.8
16 to 19 years.....	1,434	1,021	183	230	16.0	2,083	1,850	233	11.2
20 years and over.....	26,896	24,218	1,338	1,340	5.0	7,761	7,364	397	5.1
20 to 24 years.....	4,782	4,108	318	357	7.5	1,179	1,083	95	8.1
25 years and over.....	22,114	20,111	1,021	983	4.4	6,583	6,280	302	4.6
25 to 54 years.....	18,403	16,719	809	877	4.8	5,117	4,869	247	4.8
55 years and over.....	3,711	3,392	212	107	2.9	1,467	1,411	55	3.7
Black and other									
Males, 16 years and over.....	5,729	4,784	275	670	11.7	598	487	110	18.5
16 to 21 years.....	522	322	63	137	26.2	289	210	79	27.3
16 to 19 years.....	205	126	28	51	25.0	235	165	71	30.0
20 years and over.....	5,524	4,659	247	618	11.2	362	323	40	10.9
20 to 24 years.....	893	645	61	187	20.9	108	95	13	12.1
25 years and over.....	4,631	4,014	186	432	9.3	255	228	26	10.2
25 to 54 years.....	3,988	3,457	148	384	9.6	130	119	11	8.5
55 years and over.....	643	557	38	48	7.5	124	109	15	12.1
Females, 16 years and over.....	4,883	3,962	349	572	11.7	958	823	135	14.1
16 to 21 years.....	473	311	25	136	28.8	267	198	69	25.9
16 to 19 years.....	190	114	14	62	32.7	198	139	59	29.7
20 years and over.....	4,693	3,848	335	510	10.9	760	684	76	10.0
20 to 24 years.....	776	552	52	172	22.1	142	121	21	14.7
25 years and over.....	3,917	3,295	284	338	8.6	617	563	56	9.1
25 to 54 years.....	3,462	2,919	229	314	9.1	434	385	50	11.5
55 years and over.....	455	377	55	25	5.5	183	177	6	3.3

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

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

(Numbers in thousands)

Family relationship	April 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	103,412	63.2	96,566	6,846	6.6	60,188	31,601	9,227	3,099	16,261
Husbands ¹	40,786	80.8	39,057	1,729	4.2	9,696	136	261	1,219	8,080
With employed wife	21,158	92.0	20,358	800	3.8	1,852	39	112	429	1,272
With unemployed wife	1,121	93.4	974	147	13.1	79	--	5	16	59
With wife not in labor force	16,790	70.0	16,131	660	3.9	7,210	79	88	688	6,355
Wives	24,210	50.2	23,010	1,200	5.0	24,000	21,654	346	313	1,688
With employed husband	21,332	56.9	20,357	975	4.6	16,130	14,987	283	116	745
With unemployed husband	947	58.9	800	147	15.5	660	608	10	9	33
With husband not in labor force	1,931	21.1	1,852	79	4.1	7,210	6,059	53	188	910
Relatives in husband-wife families	13,713	58.9	12,048	1,666	12.1	9,581	1,258	6,244	426	1,653
16-19 years	5,996	52.0	5,207	789	13.2	5,543	158	4,763	18	604
20-24 years	4,968	73.0	4,393	575	11.6	1,836	182	1,362	49	243
25 years and over	2,749	55.5	2,448	302	11.0	2,202	918	119	359	806
Women who head families	5,120	58.9	4,682	438	8.6	3,567	2,781	129	185	472
Relatives in female-headed families	4,136	54.0	3,399	737	17.8	3,518	752	1,593	281	893
16-19 years	1,343	45.8	1,008	334	24.9	1,587	102	1,219	8	258
20-24 years	1,241	69.3	1,014	227	18.3	549	115	291	25	119
25 years and over	1,552	52.9	1,377	176	11.3	1,382	535	83	248	516
Persons not living in families ²	15,447	61.1	14,370	1,076	7.0	9,826	5,020	654	675	3,475

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	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
	Total, 16 years and over	2,902	3,939	4.9	6.6	2,659	2,907	6.2	6.6
Married, spouse present	1,136	1,693	2.8	4.2	1,118	1,269	4.7	5.2
Widowed, divorced, or separated	312	432	7.0	8.8	520	601	6.5	7.1
Single (never married)	1,454	1,814	10.2	12.4	1,022	1,037	9.3	9.4
White, 16 years and over	2,236	3,159	4.3	6.0	1,962	2,200	5.3	5.8
Married, spouse present	927	1,431	2.6	3.9	925	1,048	4.4	4.8
Widowed, divorced, or separated	219	328	6.0	8.1	382	429	5.9	6.2
Single (never married)	1,090	1,399	8.8	11.1	656	723	7.1	7.7
Black and other, 16 years and over	666	780	10.6	12.3	697	707	12.1	12.1
Married, spouse present	209	262	5.8	7.4	193	221	7.8	8.6
Widowed, divorced, or separated	93	104	10.9	12.2	138	173	8.8	10.8
Single (never married)	364	414	19.9	21.4	366	314	21.3	18.6
Total, 20 to 64 years of age	2,105	3,172	4.0	6.0	1,987	2,289	5.3	5.9
Married, spouse present	1,063	1,613	2.8	4.2	1,052	1,195	4.6	5.0
Widowed, divorced, or separated	285	417	6.8	9.0	483	567	6.6	7.3
Single (never married)	757	1,142	7.8	11.2	452	526	6.4	7.1
White, 20 to 64 years of age	1,609	2,534	3.5	5.4	1,471	1,705	4.6	5.1
Married, spouse present	864	1,368	2.5	3.9	869	982	4.2	4.6
Widowed, divorced, or separated	199	316	5.8	8.3	352	403	6.1	6.5
Single (never married)	547	850	6.6	9.8	249	322	4.3	5.3
Black and other, 20 to 64 years of age	495	638	8.8	11.2	516	583	10.0	11.0
Married, spouse present	200	246	5.8	7.2	185	213	7.7	8.6
Widowed, divorced, or separated	86	101	10.7	12.4	131	165	8.8	10.9
Single (never married)	210	291	15.5	19.5	201	205	15.9	15.4

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
Total, 16 years and over	5,561	6,846	5.5	6.6	4.9	6.6	6.2	6.6
White-collar workers	1,486	1,727	2.9	3.3	2.0	2.4	3.8	4.0
Professional and technical	293	318	1.9	2.0	1.4	1.7	2.5	2.3
Managers and administrators, except farm	220	267	2.1	2.5	1.8	1.9	3.0	3.9
Sales workers	241	279	3.8	4.4	2.5	3.1	5.4	6.1
Clerical workers	732	862	4.0	4.5	3.3	4.6	4.2	4.5
Blue-collar workers	2,363	3,329	7.1	9.8	6.4	9.2	10.1	12.3
Craft and kindred workers	596	920	4.5	6.8	4.6	6.8	3.5	6.7
Carpenters and other construction craft	326	509	8.1	12.1	8.1	12.1	(1)	(1)
All other	270	411	3.0	4.4	3.0	4.3	3.2	6.2
Operatives, except transport	1,001	1,355	8.6	11.7	6.8	10.5	11.4	13.4
Transport equipment operatives	224	342	5.9	9.0	6.0	9.1	5.6	7.1
Nonfarm laborers	542	712	10.8	14.3	10.9	14.4	10.2	13.6
Construction laborers	187	207	19.6	21.2	19.8	20.7	(1)	(1)
All other	355	505	8.7	12.6	8.5	12.6	10.0	12.5
Service workers	927	1,023	6.7	7.3	6.1	7.7	7.1	7.0
Private household	48	48	4.6	4.4	(1)	(1)	4.7	4.4
All other	879	975	6.9	7.5	6.1	7.7	7.4	7.4
Farm workers	96	136	3.6	5.1	3.2	4.1	5.8	9.9
No previous work experience	689	631	--	--	--	--	--	--
16 to 19 years	532	432	--	--	--	--	--	--
20 to 24 years	88	124	--	--	--	--	--	--
25 years and over	69	74	--	--	--	--	--	--

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	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
Total, 16 years and over	100.0	100.0	5.5	6.6	4.9	6.6	6.2	6.6
Nonagricultural private wage and salary workers	75.2	78.2	5.6	7.1	5.1	7.2	6.4	6.8
Mining	.9	.9	6.0	6.8	5.8	7.5	7.3	1.9
Construction	10.1	11.8	11.5	16.3	11.9	17.2	6.2	6.3
Manufacturing	22.2	27.4	5.5	8.1	4.1	6.9	8.4	10.6
Durable goods	11.7	17.3	4.7	8.4	4.2	7.7	6.2	10.7
Lumber and wood products	.8	1.7	6.9	17.7	7.3	17.5	(1)	19.1
Furniture and fixtures	.9	.7	8.1	8.8	7.6	9.1	9.0	8.1
Stone, clay, and glass products	.6	.9	5.0	8.9	4.7	8.2	6.2	12.0
Primary metal industries	.9	1.6	4.0	8.2	3.7	7.9	5.6	11.2
Fabricated metal products	1.7	2.2	6.3	9.6	6.1	8.0	7.5	15.0
Machinery, except electrical equipment	1.5	1.8	3.0	4.1	2.2	3.5	6.1	6.6
Electrical equipment	1.7	2.1	3.9	5.8	3.2	3.2	4.8	8.8
Transportation equipment	2.3	5.0	5.3	14.5	5.0	13.9	6.5	17.1
Automobiles	1.6	4.1	6.7	21.9	6.8	21.0	6.3	26.3
Other transportation equipment	.7	.8	3.4	5.2	2.8	4.9	6.9	6.5
Instruments and related products	.3	.4	3.1	4.5	2.3	1.9	3.9	7.2
Other durable goods industries	.9	.9	6.9	8.2	4.4	4.9	9.7	12.7
Nondurable goods	10.5	10.2	6.6	7.6	3.9	5.6	10.6	10.6
Food and kindred products	2.7	2.5	8.3	9.1	4.9	6.1	16.4	15.8
Textile mill products	1.1	.9	8.0	8.0	3.1	6.6	13.1	9.5
Apparel and other textile products	2.7	2.1	10.5	10.2	9.5	9.3	10.7	10.4
Paper and allied products	.3	.9	2.3	8.0	1.8	5.9	4.4	13.5
Printing and publishing	1.1	1.2	4.3	5.6	3.4	4.5	5.7	7.1
Chemicals and allied products	.8	.9	3.3	4.4	2.6	2.7	5.6	9.2
Rubber and plastics products	1.1	1.0	7.6	8.8	3.5	8.5	14.5	9.4
Other nondurable goods industries	.8	.6	6.6	7.0	4.6	4.9	9.8	9.7
Transportation and public utilities	2.8	3.5	2.8	4.3	2.6	4.4	3.5	4.1
Railroads and railway express	.3	.3	2.4	3.6	2.6	3.8	(1)	(1)
Other transportation	1.9	2.5	4.1	6.7	3.9	6.7	5.1	6.5
Communication and other public utilities	.6	.6	1.4	1.8	.7	1.3	2.6	2.8
Wholesale and retail trade	21.4	18.6	6.4	6.9	5.3	5.7	7.7	8.2
Finance, insurance, and real estate	2.2	2.5	2.3	3.2	2.0	3.3	2.5	3.2
Service industries	15.6	13.4	5.2	5.3	4.7	6.3	5.4	4.7
Professional services	6.9	4.7	3.9	3.1	2.8	2.9	4.4	3.2
All other service industries	8.7	8.7	6.9	8.4	6.5	9.5	7.3	7.5
Agricultural wage and salary workers	2.3	2.6	8.8	12.0	8.1	10.6	11.6	17.6
All other classes of workers	10.1	10.0	2.3	2.7	2.1	2.5	2.5	2.9
No previous work experience	12.4	9.2	--	--	--	--	--	--

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

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	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands.....	5,561	6,846	2,185	3,236	2,021	2,324	1,355	1,286	4,198	5,359	1,363	1,487
Job losers.....	2,579	3,687	1,420	2,361	871	1,003	288	323	1,991	2,949	588	738
On layoff.....	838	1,415	477	973	283	363	78	79	689	1,191	148	224
Other job losers.....	1,741	2,272	943	1,388	588	640	210	244	1,302	1,758	440	514
Job leavers.....	751	823	301	329	305	360	146	135	621	663	131	160
Reentrants.....	1,543	1,705	419	473	735	836	390	396	1,112	1,289	432	416
New entrants.....	688	631	46	74	110	124	532	432	475	458	213	173
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.....	46.4	53.9	65.0	73.0	43.1	43.1	21.3	25.1	47.4	55.0	43.1	49.7
On layoff.....	15.1	20.7	21.8	30.1	14.0	15.6	5.8	6.2	16.4	22.2	10.9	15.1
Other job losers.....	31.3	33.2	43.2	42.9	29.1	27.5	15.5	18.9	31.0	32.8	32.2	34.6
Job leavers.....	13.5	12.0	13.8	10.2	15.1	15.5	10.7	10.5	14.8	12.4	9.6	10.8
Reentrants.....	27.8	24.9	19.2	14.6	36.4	36.0	28.8	30.8	26.5	24.1	31.7	28.0
New entrants.....	12.4	9.2	2.1	2.3	5.5	5.3	39.2	33.6	11.3	8.5	15.6	11.6
UNEMPLOYMENT RATE												
Total unemployment rate.....	5.5	6.6	4.0	5.9	5.3	5.8	15.3	15.2	4.7	5.9	11.3	12.2
Job loser rate ¹	2.5	3.6	2.6	4.3	2.2	2.5	3.3	3.8	2.3	3.2	4.8	6.0
On layoff rate ¹.....	.7	.8	.6	.6	.8	.9	2.4	1.6	.7	.7	1.1	1.3
Other job losers rate ¹	1.5	1.6	.8	.9	1.9	2.1	4.4	4.7	1.2	1.4	3.6	3.4
Reentrant rate ¹.....	.7	.6	.1	.1	.3	.3	6.0	5.1	.5	.5	1.8	1.4

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	April 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.....	6,846	100.0	42.0	29.3	28.8	17.9	10.8
Job losers.....	3,687	100.0	34.7	30.7	34.6	22.9	11.7
On layoff.....	1,415	100.0	44.9	26.4	28.7	23.4	5.3
Other job losers.....	2,272	100.0	28.4	33.3	38.2	22.5	15.7
Job leavers.....	823	100.0	48.1	27.7	24.2	14.2	10.0
Reentrants.....	1,705	100.0	50.6	28.9	20.5	11.4	9.1
New entrants.....	631	100.0	52.6	24.3	23.1	11.5	11.6
Males, 20 years and over.....	3,236	100.0	34.8	29.6	35.6	22.2	13.4
Job losers.....	2,361	100.0	32.7	29.3	38.0	24.9	13.0
On layoff.....	973	100.0	42.4	26.4	31.2	25.8	5.4
Other job losers.....	1,388	100.0	25.9	31.4	42.7	24.3	18.4
Job leavers.....	329	100.0	38.0	33.1	28.9	15.6	13.3
Reentrants.....	473	100.0	41.3	29.3	29.4	15.5	13.9
New entrants.....	74	100.0	(1)	(1)	(1)	(1)	(1)
Females, 20 years and over.....	2,324	100.0	46.2	29.0	24.8	15.8	9.0
Job losers.....	1,003	100.0	37.0	31.8	31.2	21.0	10.2
On layoff.....	363	100.0	47.2	27.8	25.0	19.7	5.3
Other job losers.....	640	100.0	31.2	34.1	34.7	21.8	12.9
Job leavers.....	360	100.0	52.2	24.3	23.5	14.7	8.8
Reentrants.....	836	100.0	54.4	28.5	17.1	10.4	6.7
New entrants.....	124	100.0	48.0	22.6	29.5	13.8	15.6
Both sexes, 16 to 19 years.....	1,286	100.0	52.2	29.0	18.8	11.0	7.8
Job losers.....	323	100.0	42.7	36.9	20.4	13.5	7.0
On layoff.....	79	100.0	64.4	20.4	15.2	11.2	4.0
Other job losers.....	244	100.0	35.7	42.2	22.1	14.2	7.9
Job leavers.....	135	100.0	61.8	23.5	14.7	9.5	5.2
Reentrants.....	396	100.0	53.8	29.1	17.1	8.7	8.4
New entrants.....	432	100.0	54.9	24.8	20.3	11.8	8.6

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

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

Sex, age, and race	April 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	6,846	5,315	27.9	5.7	70.8	31.3	14.3	6.2	1.56
16 to 19 years	1,286	1,195	20.8	1.8	76.6	24.1	13.2	4.8	1.41
20 to 24 years	1,616	1,294	31.3	7.7	69.0	34.2	15.6	5.6	1.63
25 to 34 years	1,915	1,403	31.5	5.7	70.8	36.5	13.8	5.6	1.64
35 to 44 years	872	618	29.3	5.5	68.8	30.4	15.2	7.8	1.57
45 to 54 years	640	430	28.4	7.9	62.8	35.1	14.9	10.5	1.60
55 to 64 years	418	304	25.0	9.5	72.0	22.0	13.2	7.9	1.50
65 years and over	99	71	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Males, 16 years and over	3,939	2,846	31.2	5.7	71.6	28.5	16.7	7.6	1.61
16 to 19 years	703	645	19.5	1.6	78.0	21.9	15.2	5.0	1.41
20 to 24 years	971	731	35.8	5.6	72.0	32.0	16.8	4.9	1.67
25 to 34 years	1,127	738	38.2	6.0	70.5	35.8	19.0	7.0	1.76
35 to 44 years	463	286	33.9	5.9	70.3	22.0	16.4	14.7	1.63
45 to 54 years	350	217	30.4	11.5	59.0	32.7	17.5	15.2	1.66
55 to 64 years	261	182	26.4	11.0	70.9	16.5	13.2	12.1	1.50
65 years and over	64	47	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	2,907	2,469	24.0	5.7	69.9	34.5	11.5	4.5	1.50
16 to 19 years	583	550	22.2	2.2	75.1	26.9	10.9	4.5	1.42
20 to 24 years	645	563	25.4	10.3	65.2	37.3	13.9	6.6	1.59
25 to 34 years	789	665	23.9	5.4	71.3	37.3	8.0	4.1	1.50
35 to 44 years	409	333	25.2	4.8	67.3	37.2	14.1	1.8	1.50
45 to 54 years	289	213	25.8	4.2	67.1	37.6	11.7	5.6	1.52
55 to 64 years	157	122	23.0	7.4	73.8	29.5	13.1	1.6	1.48
65 years and over	35	24	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Whites, 16 years and over	5,359	4,070	26.1	5.8	71.6	33.0	14.9	6.3	1.58
Males	3,159	2,225	29.5	6.2	71.9	30.1	17.1	8.2	1.63
Females	2,200	1,844	22.1	5.3	71.4	36.6	12.3	4.1	1.52
Black and other, 16 years and over	1,487	1,245	33.5	5.1	68.3	25.7	12.2	5.6	1.50
Males	780	620	37.4	3.5	70.6	22.9	15.5	5.3	1.55
Females	707	625	29.6	6.7	65.9	28.6	9.0	5.8	1.46

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	April 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	6,846	5,315	27.9	5.7	70.8	31.3	14.3	6.2	1.56
Job losers	3,687	2,243	35.8	6.6	70.5	30.6	15.6	7.3	1.66
Job leavers	823	820	27.8	7.2	72.1	38.5	14.0	2.9	1.63
Reentrants	1,705	1,623	20.8	4.6	68.8	30.7	12.4	6.5	1.44
New entrants	631	628	18.2	3.5	75.8	25.6	14.6	5.4	1.43
Males, 16 years and over	3,939	2,846	31.2	5.7	71.6	28.5	16.7	7.6	1.61
Job losers	2,572	1,519	36.6	6.6	71.7	28.6	17.0	9.0	1.69
Job leavers	393	388	33.2	6.7	71.9	39.2	14.2	3.9	1.69
Reentrants	672	638	23.4	3.8	69.0	23.5	17.4	7.5	1.45
New entrants	302	301	17.9	3.7	76.4	24.6	16.9	5.3	1.45
Females, 16 years and over	2,907	2,469	24.0	5.7	69.9	34.5	11.5	4.5	1.50
Job losers	1,114	724	34.1	6.5	68.0	34.8	12.6	3.9	1.60
Job leavers	430	433	22.6	7.6	72.3	38.1	13.9	2.1	1.57
Reentrants	1,033	985	19.0	5.1	68.6	35.4	9.1	5.9	1.43
New entrants	329	327	18.3	3.4	75.5	26.6	12.8	5.5	1.42

NOTE: See notes, table A-15.

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	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
Total, 16 years and over	5,561	6,846	100.0	100.0	4,370	5,594	100.0	100.0
Less than 5 weeks	2,498	2,872	44.9	42.0	1,846	2,129	42.2	38.1
5 to 14 weeks	1,580	2,004	28.4	29.3	1,237	1,665	28.3	29.8
5 to 10 weeks	1,098	1,404	19.7	20.5	854	1,165	19.5	20.8
11 to 14 weeks	483	600	8.7	8.8	384	500	8.8	8.9
15 weeks and over	1,483	1,970	26.7	28.8	1,286	1,800	29.4	32.2
15 to 26 weeks	894	1,228	16.1	17.9	774	1,134	17.7	20.3
27 weeks and over	588	742	10.6	10.8	512	665	11.7	11.9
27 to 51 weeks	310	429	5.6	6.3	268	380	6.1	6.8
52 weeks and over	278	314	5.0	4.6	244	285	5.6	5.1
Average (mean) duration, in weeks	12.4	12.7	--	--	13.4	13.7	--	--
Median duration, in weeks	6.4	6.8	--	--	7.2	8.1	--	--

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			Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
	April 1980								Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
Total, 16 years and over	6,846	2,872	2,004	1,228	742	12.7	6.8	44.9	42.0	26.7	28.8
16 to 21 years	1,991	931	626	251	183	10.4	5.6	53.3	46.8	18.4	21.8
16 to 19 years	1,286	672	373	182	100	9.3	4.8	55.3	52.2	17.4	18.8
20 to 24 years	1,616	620	550	261	186	12.4	7.6	48.1	38.3	24.3	27.6
25 to 34 years	1,915	787	534	398	197	13.1	7.4	43.2	41.1	27.2	31.1
35 to 44 years	872	339	243	183	107	14.2	7.3	39.1	38.9	34.5	33.2
45 to 64 years	640	267	153	144	76	13.9	7.3	39.4	41.7	31.6	34.3
65 to 64 years	418	139	126	87	67	16.6	9.4	25.6	33.2	43.5	36.7
65 years and over	99	49	25	13	11	14.3	5.0	28.8	49.9	34.5	24.4
Males, 16 years and over	3,939	1,473	1,156	815	495	14.0	8.5	40.3	37.4	30.6	33.3
16 to 21 years	1,143	495	351	178	119	11.4	6.6	49.7	43.3	20.8	26.0
16 to 19 years	703	386	198	97	62	10.2	5.2	49.3	49.2	20.2	22.6
20 to 24 years	971	323	337	187	124	13.5	9.2	48.3	33.3	25.0	32.0
25 to 34 years	1,127	395	330	260	142	14.9	9.6	38.0	35.0	32.8	35.7
35 to 44 years	463	160	138	119	51	14.2	9.0	31.3	34.5	40.8	36.6
45 to 64 years	350	133	73	85	59	16.5	10.0	32.9	38.0	35.2	41.1
65 to 64 years	261	83	68	60	49	18.1	10.4	21.2	31.8	50.4	42.0
65 years and over	64	33	16	6	9	14.8	4.8	29.5	(1)	39.4	(1)
Females, 16 years and over	2,907	1,399	848	413	247	10.9	5.4	49.9	48.1	22.4	22.7
16 to 21 years	848	436	275	73	64	9.1	4.9	57.0	51.4	16.0	16.2
16 to 19 years	583	326	175	45	38	8.1	4.5	61.9	55.8	14.2	14.2
20 to 24 years	645	296	213	73	62	10.8	5.7	47.9	45.9	23.4	21.0
25 to 34 years	789	392	203	138	55	10.5	5.1	48.4	49.7	21.6	24.5
35 to 44 years	409	179	109	64	56	14.2	6.2	46.8	43.9	28.2	29.4
45 to 64 years	289	134	80	59	17	10.8	5.8	46.7	46.2	27.6	26.1
65 to 64 years	157	56	58	27	17	14.3	8.4	31.4	35.4	34.3	28.0
65 years and over	35	16	10	7	2	13.4	6.4	(1)	(1)	(1)	(1)
White, 16 years and over	5,359	2,218	1,609	979	553	12.5	6.9	44.6	41.4	25.8	28.6
Males	3,159	1,161	949	668	381	13.9	8.6	39.4	36.7	29.9	33.2
Females	2,200	1,057	660	311	172	10.6	5.4	50.6	48.0	21.3	21.9
Black and other, 16 years and over	1,487	654	395	249	190	13.1	6.6	45.8	44.0	29.2	29.5
Males	780	312	206	147	114	14.3	8.2	43.3	40.1	33.0	33.5
Females	707	342	188	102	75	11.8	5.3	48.2	48.4	25.5	25.0
Males, 16 years and over:											
Married, spouse present	1,693	574	498	400	221	14.9	9.8	34.8	33.9	34.8	36.7
Widowed, divorced, or separated	432	180	104	99	49	13.8	7.3	34.0	41.7	35.9	34.2
Single (never married)	1,814	720	554	315	225	13.1	7.5	46.0	39.7	26.1	29.8
Females, 16 years and over:											
Married, spouse present	1,269	642	348	196	82	9.7	4.9	47.7	50.6	23.0	21.9
Widowed, divorced, or separated	601	251	178	106	66	13.8	6.5	44.3	41.7	24.4	28.6
Single (never married)	1,037	506	322	111	99	10.6	5.2	55.3	48.8	20.7	20.2

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			Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
	April 1980										
OCCUPATION											
White-collar workers	1,727	768	547	239	172	11.5	6.0	41.8	44.5	28.2	23.8
Professional and managerial	585	258	158	86	84	13.9	5.7	34.1	44.1	32.4	29.2
Sales workers	279	126	83	41	29	10.8	6.6	39.1	45.3	28.3	25.1
Clerical workers	862	383	307	112	60	10.1	5.9	48.1	44.5	25.2	19.9
Blue-collar workers	3,329	1,229	945	751	403	14.0	9.1	42.6	36.9	27.9	34.7
Craft and kindred workers	920	328	288	220	84	12.9	9.1	40.3	35.6	31.2	33.1
Operatives, except transport	1,355	552	379	266	158	13.2	8.2	48.5	40.7	24.4	31.3
Transport equipment operatives	342	105	78	103	55	17.9	13.3	37.5	30.9	29.7	46.2
Nonfarm laborers	712	244	200	162	105	15.0	9.5	36.1	34.3	30.1	37.6
Service workers	1,023	473	323	138	89	11.2	5.7	46.8	46.2	27.6	22.2
INDUSTRY¹											
Agriculture	177	82	49	38	7	9.8	6.5	53.7	46.4	26.5	25.7
Construction	834	246	269	248	71	13.7	10.9	38.3	29.5	34.5	38.2
Manufacturing	1,883	778	501	372	231	13.4	7.6	44.8	41.3	27.1	32.1
Durable goods	1,185	508	294	248	135	12.8	7.0	42.3	42.9	29.6	32.3
Non-durable goods	698	270	207	124	97	14.3	8.4	47.6	38.7	24.2	31.6
Transportation and public utilities	268	88	74	70	36	15.7	11.2	35.9	32.9	28.4	39.6
Wholesale and retail trade	1,280	531	458	163	128	11.3	6.7	44.2	41.5	25.4	22.7
Finance and service industries	1,367	654	395	182	135	11.4	5.4	45.3	47.8	27.3	23.2
Public administration	216	74	59	49	33	16.3	9.9	34.8	34.2	38.9	38.3
No previous work experience	631	332	152	72	73	11.9	4.7	55.2	52.7	19.0	23.0

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	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
	All industries	95,675	96,566	55,745	55,458	39,930	41,108
16 to 19 years	7,499	7,174	3,972	3,853	3,526	3,321
16 to 17 years	3,011	2,773	1,639	1,524	1,372	1,249
18 to 19 years	4,488	4,401	2,333	2,329	2,155	2,073
20 to 24 years	13,684	13,375	7,433	7,141	6,251	6,234
25 to 54 years	60,187	61,660	35,621	35,732	24,566	25,929
25 to 34 years	25,310	26,149	14,969	15,041	10,341	11,108
35 to 44 years	18,615	19,252	10,907	11,072	7,708	8,179
45 to 54 years	16,262	16,259	9,744	9,617	6,517	6,642
55 to 64 years	11,297	11,423	6,866	6,920	4,431	4,503
55 to 59 years	6,975	7,040	4,214	4,209	2,761	2,830
60 to 64 years	4,322	4,384	2,652	2,711	1,670	1,673
65 years and over	3,008	2,934	1,853	1,813	1,155	1,121
Nonagricultural industries	92,601	93,485	53,240	52,951	39,361	40,535
16 to 19 years	7,195	6,863	3,704	3,601	3,492	3,262
16 to 17 years	2,841	2,607	1,490	1,396	1,351	1,211
18 to 19 years	4,354	4,256	2,214	2,205	2,141	2,050
20 to 24 years	13,304	13,023	7,120	6,853	6,183	6,171
25 to 54 years	58,586	60,050	34,381	34,469	24,204	25,581
25 to 34 years	24,691	25,555	14,490	14,560	10,201	10,995
35 to 44 years	18,152	18,710	10,557	10,666	7,595	8,044
45 to 54 years	15,742	15,785	9,334	9,243	6,408	6,541
55 to 64 years	10,802	10,905	6,447	6,484	4,355	4,421
55 to 59 years	6,706	6,757	3,995	3,977	2,711	2,780
60 to 64 years	4,096	4,148	2,452	2,507	1,644	1,640
65 years and over	2,714	2,645	1,587	1,544	1,127	1,101
Agriculture	3,074	3,081	2,506	2,507	569	574
16 to 19 years	303	311	269	252	34	60
16 to 17 years	170	166	150	128	20	37
18 to 19 years	133	146	119	123	14	22
20 to 24 years	381	352	313	288	68	64
25 to 54 years	1,601	1,611	1,239	1,263	362	349
25 to 34 years	619	595	479	482	140	113
35 to 44 years	463	542	350	407	113	135
45 to 54 years	520	475	410	374	109	101
55 to 64 years	495	518	419	436	76	83
55 to 59 years	269	282	219	232	50	50
60 to 64 years	226	236	200	203	26	33
65 years and over	293	289	266	269	28	19

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	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
TOTAL	95,675	96,566	51,773	51,605	36,403	37,787	3,972	3,853	3,526	3,321
White-collar workers	49,134	50,474	22,722	22,781	24,009	25,298	589	652	1,815	1,744
Professional and technical	15,302	15,775	8,630	8,675	6,514	6,941	86	78	73	81
Health workers	2,735	2,962	923	933	1,787	2,006	9	7	17	16
Teachers, except college	3,290	3,291	960	952	2,308	2,320	3	7	19	12
Other professional and technical	9,277	9,522	6,747	6,790	2,419	2,615	74	64	37	53
Managers and administrators, except farm	10,211	10,552	7,700	7,690	2,435	2,764	38	50	37	48
Salaried workers	8,494	8,707	6,405	6,331	2,017	2,285	35	48	37	42
Self-employed workers in retail trade	837	897	566	569	271	323	1	--	--	4
Self-employed workers, except retail trade	880	948	729	789	148	155	3	2	--	2
Sales workers	6,140	6,036	3,209	3,159	2,309	2,262	216	235	405	379
Retail trade	3,215	3,063	1,072	1,004	1,590	1,553	171	161	382	344
Other industries	2,925	2,973	2,137	2,155	719	709	46	74	23	35
Clerical workers	17,481	18,111	3,183	3,256	12,750	13,330	248	289	1,300	1,236
Stenographers, typists, and secretaries	4,906	4,955	68	62	4,483	4,588	14	12	341	293
Other clerical workers	12,575	13,156	3,115	3,194	8,267	8,742	234	277	959	943
Blue-collar workers	31,122	30,550	23,292	22,964	5,269	5,269	2,180	1,989	382	328
Craft and kindred workers	12,507	12,581	11,311	11,425	670	686	484	433	42	37
Carpenters	1,186	1,115	1,124	1,055	9	11	51	48	2	2
Construction craft, except carpenters	2,497	2,578	2,355	2,441	27	48	108	87	6	2
Mechanics and repairers	3,419	3,462	3,172	3,229	45	65	201	158	--	9
Metal craft	1,277	1,330	1,205	1,239	25	48	43	41	5	1
Blue-collar worker supervisors, not elsewhere classified	1,661	1,663	1,481	1,484	164	167	11	10	5	3
All other	2,469	2,434	1,974	1,977	401	347	70	89	24	20
Operatives, except transport	10,587	10,221	5,811	5,556	3,903	3,867	646	585	227	213
Durable goods manufacturing	4,993	4,681	3,067	2,911	1,595	1,513	234	178	97	79
Nondurable goods manufacturing	3,165	3,207	1,274	1,200	1,716	1,797	93	115	81	94
Other industries	2,429	2,334	1,469	1,444	592	557	319	292	49	40
Transport equipment operatives	3,550	3,469	3,099	3,032	265	269	164	159	22	8
Drivers, motor vehicles	3,014	2,965	2,622	2,564	243	254	130	139	20	8
All other	536	504	477	468	23	15	33	20	2	1
Nonfarm laborers	4,478	4,280	3,071	2,950	430	448	886	812	91	69
Construction	765	771	621	637	18	12	124	121	2	1
Manufacturing	1,067	937	787	714	166	148	94	70	20	6
Other industries	2,646	2,572	1,663	1,599	246	289	668	621	69	63
Service workers	12,884	13,015	3,856	3,966	6,746	6,836	982	1,010	1,300	1,203
Private household workers	995	1,038	11	14	789	842	10	11	185	172
Service workers, except private household	11,889	11,977	3,845	3,952	5,957	5,994	972	999	1,115	1,032
Food service workers	4,421	4,484	774	880	2,221	2,248	622	638	804	718
Protective service workers	1,385	1,395	1,254	1,253	109	123	16	12	6	7
All other	6,083	6,098	1,817	1,819	3,627	3,623	334	349	305	307
Farm workers	2,534	2,527	1,903	1,895	380	384	222	202	29	46
Farmers and farm managers	1,386	1,423	1,247	1,262	121	147	19	12	--	1
Farm laborers and supervisors	1,148	1,104	656	632	259	237	203	190	30	45
Paid workers	899	860	611	603	123	101	147	131	18	25
Unpaid family workers	249	244	45	30	136	136	56	59	12	20

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
TOTAL						
Total, 16 years and over (thousands)	95,675	96,566	55,745	55,458	39,930	41,108
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.4	52.3	41.8	42.3	64.7	65.8
Professional and technical	16.0	16.3	15.6	15.8	16.5	17.1
Managers and administrators, except farm	10.7	10.9	13.9	14.0	6.2	6.8
Sales workers	6.4	6.3	6.1	6.1	6.8	6.4
Clerical workers	18.3	18.8	6.2	6.4	35.2	35.4
Blue-collar workers	32.5	31.6	45.7	45.0	14.2	13.6
Craft and kindred workers	13.1	13.0	21.2	21.4	1.8	1.8
Operatives, except transport	11.1	10.6	11.6	11.1	10.3	9.9
Transport equipment operatives	3.7	3.6	5.9	5.8	.7	.7
Nonfarm laborers	4.7	4.4	7.1	6.8	1.3	1.3
Service workers	13.5	13.5	8.7	9.0	20.2	19.6
Private household workers	1.0	1.1	(1)	(1)	2.4	2.5
Other service workers	12.4	12.4	8.6	8.9	17.7	17.1
Farm workers	2.6	2.6	3.8	3.8	1.0	1.0
Farmers and farm managers	1.4	1.5	2.3	2.3	.3	.4
Farm laborers and supervisors	1.2	1.1	1.5	1.5	.7	.7
White						
Total, 16 years and over (thousands)	84,997	85,886	50,122	49,911	34,874	35,975
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	53.0	53.9	43.4	43.9	67.0	67.9
Professional and technical	16.4	16.8	16.1	16.3	16.8	17.4
Managers and administrators, except farm	11.4	11.7	14.7	14.8	6.7	7.3
Sales workers	6.9	6.7	6.6	6.5	7.3	6.9
Clerical workers	18.4	18.8	6.0	6.2	36.1	36.2
Blue-collar workers	32.2	31.2	45.0	44.1	13.7	13.2
Craft and kindred workers	13.6	13.4	21.7	21.8	1.9	1.8
Operatives, except transport	10.6	10.1	11.2	10.7	9.8	9.4
Transport equipment operatives	3.6	3.4	5.6	5.4	.7	.7
Nonfarm laborers	4.3	4.2	6.5	6.2	1.3	1.3
Service workers	12.1	12.2	7.7	8.2	18.3	17.8
Private household workers	.8	.8	(1)	(1)	1.8	1.9
Other service workers	11.3	11.4	7.7	8.1	16.5	16.0
Farm workers	2.7	2.7	3.9	3.9	1.1	1.1
Farmers and farm managers	1.6	1.6	2.5	2.5	.3	.4
Farm laborers and supervisors	1.1	1.1	1.4	1.4	.7	.7
Black and other						
Total, 16 years and over (thousands)	10,678	10,680	5,623	5,547	5,055	5,134
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	38.0	39.1	28.1	27.7	48.9	51.3
Professional and technical	12.7	12.8	11.4	11.0	14.2	14.9
Managers and administrators, except farm	5.0	4.8	6.9	6.0	2.8	3.5
Sales workers	2.7	2.8	2.5	2.7	3.0	2.9
Clerical workers	17.5	18.6	7.4	8.1	28.8	30.0
Blue-collar workers	35.4	35.5	51.8	53.0	17.2	16.6
Craft and kindred workers	9.2	9.7	16.5	17.3	1.1	1.5
Operatives, except transport	14.4	14.1	14.8	14.8	14.0	13.4
Transport equipment operatives	4.4	5.0	7.8	9.1	.7	.6
Nonfarm laborers	7.4	6.7	12.7	11.8	1.5	1.1
Service workers	24.7	23.6	17.1	16.2	33.1	31.6
Private household workers	3.3	3.3	.1	.1	6.8	6.7
Other service workers	21.4	20.3	16.9	16.1	26.3	24.9
Farm workers	2.0	1.8	3.0	3.1	.8	.5
Farmers and farm managers	.3	.3	.5	.5	.1	.1
Farm laborers and supervisors	1.6	1.5	2.5	2.5	.8	.4

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	April 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	86,358	1,095	15,825	69,438	6,745	382	1,297	1,529	255
16 to 19 years	6,752	205	513	6,034	87	24	210	22	79
16 to 17 years	2,550	140	152	2,258	49	8	104	10	51
18 to 19 years	4,203	65	361	3,776	38	15	106	12	28
20 to 24 years	12,659	74	1,525	11,060	335	29	240	85	27
25 to 34 years	23,965	172	4,562	19,231	1,528	61	304	260	31
35 to 44 years	16,925	123	3,565	13,237	1,675	111	204	288	50
45 to 54 years	14,170	191	3,236	10,743	1,512	103	140	302	32
55 to 64 years	9,764	191	2,069	7,504	1,099	42	132	357	30
55 to 59 years	6,086	110	1,345	4,631	643	28	87	177	19
60 to 64 years	3,677	80	724	2,873	456	14	45	181	11
65 years and over	2,123	139	356	1,629	509	13	68	215	5
Males, 16 years and over	48,181	95	7,775	40,311	4,727	43	1,058	1,357	92
16 to 19 years	3,526	36	240	3,250	60	14	171	21	60
16 to 17 years	1,360	25	85	1,250	31	5	83	10	35
18 to 19 years	2,167	11	155	2,000	29	10	88	11	24
20 to 24 years	6,629	10	657	5,962	213	11	197	79	12
25 to 34 years	13,499	12	2,227	11,260	1,054	7	251	224	7
35 to 44 years	9,489	1	1,733	7,755	1,174	3	152	249	6
45 to 54 years	8,138	8	1,655	6,475	1,104	1	107	263	4
55 to 64 years	5,704	7	1,059	4,638	778	2	113	322	--
55 to 59 years	3,533	3	680	2,850	443	1	76	156	--
60 to 64 years	2,171	4	380	1,787	335	2	37	165	--
65 years and over	1,195	20	204	971	344	4	67	199	4
Females, 16 years and over	38,178	1,000	8,050	29,128	2,018	339	239	172	163
16 to 19 years	3,226	169	273	2,784	26	9	39	1	20
16 to 17 years	1,190	115	67	1,008	17	4	21	--	16
18 to 19 years	2,036	54	206	1,776	9	5	18	1	4
20 to 24 years	6,030	64	868	5,098	123	17	42	6	15
25 to 34 years	10,466	161	2,334	7,971	474	54	53	35	24
35 to 44 years	7,436	122	1,832	5,482	501	108	52	39	44
45 to 54 years	6,032	182	1,581	4,268	408	102	33	39	28
55 to 64 years	4,059	184	1,009	2,867	322	39	18	35	29
55 to 59 years	2,553	107	665	1,781	200	27	11	20	19
60 to 64 years	1,506	76	344	1,086	121	13	8	15	10
65 years and over	928	118	152	658	165	9	1	16	2

A-24. Employed persons by industry and occupation

[In thousands]

Industry	April 1980											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Total, 16 years and over:	3,081	75	28	9	75	68	7	42	242	--	8	2,527
Agriculture	857	120	74	--	93	247	254	41	19	--	9	--
Mining	5,785	166	748	29	434	3,194	254	165	771	--	25	--
Construction	2,1738	2,482	1,697	538	2,732	4,317	7,887	753	937	--	395	--
Manufacturing	13,129	1,686	941	208	1,607	2,880	4,681	352	533	--	241	--
Durable goods	8,609	795	756	300	1,125	1,437	3,207	401	404	--	155	--
Nondurable goods												
Transportation and public utilities	6,397	646	610	71	1,448	1,388	150	1,463	456	--	165	--
Wholesale and retail trade	19,354	369	3,712	3,952	3,455	1,452	897	729	1,206	--	3,583	--
Wholesale trade	3,741	140	743	889	796	295	196	368	269	--	44	--
Retail trade	15,613	229	2,969	3,063	2,659	1,156	701	360	937	--	3,538	--
Finance, insurance, and real estate	5,833	307	1,133	1,242	2,709	108	10	15	61	--	249	--
Services	28,314	10,581	1,929	189	5,231	1,504	716	210	426	1,038	6,491	--
Private households	1,163	12	--	--	7	3	5	63	1,038	--	33	--
Other service industries	27,151	10,569	1,929	189	5,224	1,502	713	205	363	--	6,458	--
Public administration	5,207	1,029	622	7	1,933	306	46	51	162	--	1,052	--

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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			
					Paid absences ²		Unpaid absences ²	
	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980
Total, 16 years and over	5,586	5,357	5,459	5,243	2,755	2,554	2,215	2,127
Vacation	3,006	2,761	2,992	2,739	2,036	1,833	784	728
Illness	1,369	1,445	1,330	1,411	529	544	694	739
Bad weather	145	141	105	110	--	--	--	--
Industrial dispute	284	146	282	146	--	--	--	--
All other reasons	783	863	751	837	190	176	736	660
Males, 16 years and over	2,905	2,729	2,788	2,636	1,455	1,355	1,053	928
Vacation	1,376	1,286	1,365	1,268	1,029	964	250	203
Illness	795	775	762	747	328	305	374	359
All other reasons ³	734	667	662	621	99	86	430	365
Females, 16 years and over	2,681	2,628	2,671	2,607	1,298	1,199	1,163	1,199
Vacation	1,630	1,475	1,627	1,470	1,007	869	536	525
Illness	573	669	567	664	200	239	320	379
All other reasons ³	478	484	477	473	91	90	307	295

¹Excludes private household.

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

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

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

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

Hours of work	April 1980					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total, 16 years and over	91,209	88,242	2,967	100.0	100.0	100.0
1-34 hours	23,602	22,694	909	25.9	25.7	30.6
1-4 hours	754	723	31	.8	.8	1.0
5-14 hours	4,423	4,198	225	4.8	4.8	7.6
15-29 hours	11,542	11,078	464	12.7	12.6	15.6
30-34 hours	6,883	6,695	189	7.5	7.6	6.4
35 hours and over	67,607	65,550	2,058	74.1	74.3	69.4
35-39 hours	6,511	6,368	143	7.1	7.2	4.8
40 hours	39,068	38,547	521	42.8	43.7	17.6
41 hours and over	22,028	20,635	1,394	24.2	23.4	47.0
41 to 48 hours	8,855	8,620	235	9.7	9.8	7.9
49 to 59 hours	7,394	7,021	374	8.1	8.0	12.6
60 hours and over	5,779	4,994	785	6.3	5.7	26.5
Average hours, total at work	38.1	37.9	43.7	--	--	--
Average hours, workers on full-time schedules	42.5	42.2	51.5	--	--	--

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	April 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 . . .	23,602	8,018	15,584	22,694	7,708	14,985
Economic reasons	3,730	1,768	1,962	3,542	1,665	1,877
Slack work	2,107	1,417	690	1,963	1,324	639
Material shortages or repairs to plant and equipment	70	70	--	70	70	--
New job started during week	186	186	--	175	175	--
Job terminated during week	95	95	--	94	94	--
Could find only part-time work	1,272	--	1,272	1,238	--	1,238
Other reasons	19,872	6,250	13,622	19,151	6,043	13,108
Does not want, or unavailable for, full-time work	11,563	--	11,563	11,164	--	11,164
Vacation	1,188	1,188	--	1,174	1,174	--
Illness	1,800	1,637	163	1,747	1,610	137
Bad weather	627	627	--	501	501	--
Industrial dispute	32	32	--	32	32	--
Legal or religious holiday	1,194	1,194	--	1,190	1,190	--
Full time for this job	1,432	--	1,432	1,383	--	1,383
All other reasons	2,036	1,572	464	1,960	1,536	424
Average hours:						
Economic reasons	22.1	24.2	20.2	22.2	24.3	20.3
Other reasons	21.1	26.5	18.6	21.1	26.6	18.6
Worked 30 to 34 hours:						
Economic reasons	1,182	727	455	1,139	702	437
Other reasons	5,701	3,481	2,220	5,556	3,413	2,143

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

(Numbers in thousands)

Industry	April 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	88,242	3,542	13,108	71,592	50,957	8,620	12,015	37.9	42.2	
Wage and salary workers	81,625	3,078	11,897	66,650	48,712	8,058	9,880	37.7	41.8	
Construction	4,451	304	237	3,910	3,093	349	468	38.1	40.5	
Manufacturing	20,279	710	660	18,909	14,018	2,608	2,283	40.2	41.4	
Durable goods	12,241	335	272	11,634	8,568	1,651	1,415	40.7	41.6	
Non-durable goods	8,038	375	388	7,275	5,451	957	867	39.4	41.3	
Transportation and public utilities	5,733	166	361	5,206	3,786	589	831	40.5	42.6	
Wholesale and retail trade	16,527	877	4,492	11,158	7,089	1,804	2,265	35.6	43.2	
Finance, insurance, and real estate	5,154	96	552	4,506	3,508	416	582	38.2	40.9	
Service industries	23,693	824	5,283	17,586	13,197	1,722	2,667	35.5	41.4	
Private households	1,042	131	560	351	257	21	73	24.0	43.5	
All other industries	22,651	693	4,723	17,235	12,940	1,701	2,594	36.0	41.4	
Public administration	5,001	82	306	4,613	3,601	463	549	39.7	41.5	
Self-employed workers	6,235	448	1,052	4,735	2,132	535	2,068	40.7	48.0	
Unpaid family workers	382	15	160	207	115	26	66	34.8	46.1	

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	April 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	88,242	3,542	13,108	71,592	50,957	20,635	37.9	42.2
16 to 21 years	11,342	696	4,684	5,962	4,737	1,225	29.5	40.3
16 to 19 years	6,557	377	3,645	2,535	2,031	504	25.9	40.0
16 to 17 years	2,490	85	2,115	290	234	56	18.3	38.1
18 to 19 years	4,067	294	1,530	2,243	1,797	446	30.5	40.2
20 years and over	81,686	3,163	9,464	69,059	48,928	20,131	38.9	42.3
20 to 24 years	12,563	718	1,918	9,927	7,610	2,317	36.6	41.0
25 years and over	69,123	2,446	7,546	59,131	41,318	17,813	39.3	42.5
25 to 44 years	41,844	1,488	3,905	36,451	25,140	11,311	39.8	42.6
45 to 64 years	24,833	870	2,419	21,544	15,385	6,159	39.5	42.4
65 years and over	2,446	88	1,222	1,136	792	344	28.9	42.6
Males, 16 years and over	50,315	1,711	4,207	44,397	28,603	15,794	40.7	43.6
16 to 21 years	5,893	327	2,294	3,272	2,455	817	30.8	41.2
16 to 19 years	3,455	182	1,831	1,442	1,099	343	27.1	40.6
16 to 17 years	1,348	41	1,129	178	138	40	19.1	38.4
18 to 19 years	2,107	140	702	1,265	961	304	32.2	41.0
20 years and over	46,860	1,530	2,376	42,954	27,503	15,451	41.7	43.7
20 to 24 years	6,636	351	801	5,484	3,861	1,623	38.2	42.1
25 years and over	40,224	1,179	1,574	37,471	23,642	13,829	42.3	43.9
25 to 44 years	24,079	759	487	22,833	14,060	8,773	43.0	44.1
45 to 64 years	14,711	382	419	13,910	9,094	4,816	42.3	43.6
65 years and over	1,835	40	669	726	486	240	30.2	42.7
Females, 16 years and over	37,927	1,830	8,901	27,196	22,356	4,840	34.2	40.0
16 to 21 years	5,449	368	2,390	2,691	2,284	407	28.1	39.3
16 to 19 years	3,102	196	1,813	1,093	933	160	24.5	39.1
16 to 17 years	1,142	42	986	114	97	17	17.4	37.7
18 to 19 years	1,960	154	827	979	837	142	28.7	39.3
20 years and over	34,826	1,634	7,088	26,104	21,425	4,679	35.0	40.1
20 to 24 years	5,927	367	1,117	4,443	3,748	695	34.7	39.7
25 years and over	28,898	1,268	5,970	21,660	17,675	3,985	35.1	40.2
25 to 44 years	17,765	730	3,418	13,617	11,080	2,537	35.4	40.0
45 to 64 years	10,122	488	2,000	7,634	6,290	1,344	35.4	40.3
65 years and over	1,011	49	552	410	306	104	27.1	42.4
RACE								
White	78,410	2,951	11,938	63,521	44,255	19,266	38.0	42.4
Males	45,291	1,466	3,783	40,042	25,175	14,867	41.0	43.8
Females	33,119	1,485	8,155	23,479	19,079	4,400	34.1	40.2
Black and other	9,832	591	1,171	8,070	6,703	1,367	36.8	40.5
Males	5,024	245	424	4,355	3,429	926	38.7	41.6
Females	4,808	346	747	3,715	3,274	441	34.9	39.3
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	34,590	911	1,217	32,462	20,205	12,257	42.5	44.0
Widowed, divorced, or separated	4,051	189	203	3,659	2,433	1,226	41.3	43.5
Single (never married)	11,674	610	2,788	8,276	5,965	2,311	35.2	42.1
Females, 16 years and over:								
Married, spouse present	21,193	926	5,098	15,169	12,588	2,581	34.2	39.8
Widowed, divorced, or separated	7,308	408	1,061	5,839	4,613	1,226	36.7	40.7
Single (never married)	9,426	497	2,742	6,187	5,155	1,032	32.2	39.9

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

[Numbers in thousands]

Occupational group and sex	April 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	88,773	3,590	13,200	71,983	51,184	8,665	12,134	37.9	42.3
White-collar workers	47,613	1,026	6,919	39,668	27,330	4,522	7,816	38.8	42.7
Professional and technical	14,690	222	1,752	12,716	8,704	1,396	2,616	39.5	42.8
Managers and administrators, except farm	10,081	94	503	9,484	4,853	1,353	3,278	44.7	46.2
Sales workers	5,691	241	1,441	4,009	2,408	571	1,030	36.4	43.9
Clerical workers	17,151	470	3,223	13,458	11,365	1,202	891	35.4	39.8
Blue-collar workers	28,821	1,722	2,068	25,031	18,243	3,427	3,361	38.9	41.7
Craft and kindred workers	11,926	556	377	10,993	7,717	1,623	1,653	40.4	42.1
Operatives, except transport	9,670	664	586	8,420	6,537	1,132	751	38.4	40.7
Transport equipment operatives	3,197	196	289	2,712	1,640	391	681	40.8	44.5
Nonfarm laborers	4,028	306	816	2,906	2,348	281	277	34.3	40.3
Service workers	12,339	842	4,213	7,284	5,611	716	957	32.2	41.7
Private household	989	125	529	335	241	21	73	24.5	44.0
Other service workers	11,349	717	3,684	6,948	5,370	694	884	32.8	41.6
Males, 16 years and over	50,708	1,744	4,256	44,708	28,775	6,095	9,838	40.7	43.6
White-collar workers	22,381	275	1,544	20,562	11,728	2,747	6,087	42.9	45.0
Professional and technical	8,317	89	508	7,720	4,779	885	2,056	42.5	44.3
Managers and administrators, except farm	7,415	64	205	7,146	3,340	1,050	2,756	46.1	47.1
Sales workers	3,260	65	397	2,798	1,470	440	888	41.6	45.4
Clerical workers	3,389	57	433	2,899	2,140	372	387	38.4	41.7
Blue-collar workers	23,580	1,239	1,514	20,827	14,691	2,956	3,180	39.6	42.2
Craft and kindred workers	11,243	527	297	10,419	7,266	1,535	1,618	40.6	42.1
Operatives, except transport	5,824	277	318	5,229	3,794	796	639	39.9	41.9
Transport equipment operatives	2,964	176	192	2,596	1,558	377	661	41.6	44.6
Nonfarm laborers	3,548	260	706	2,582	2,071	248	263	34.5	40.4
Service workers	4,747	230	1,198	3,319	2,356	392	571	35.7	43.3
Private household	25	2	17	6	4	--	2	19.8	48.4
Other service workers	4,722	229	1,182	3,311	2,350	392	569	35.8	43.3
Females, 16 years and over	38,064	1,844	8,945	27,275	22,410	2,570	2,295	34.2	40.0
White-collar workers	25,231	751	5,376	19,104	15,601	1,775	1,728	35.1	40.1
Professional and technical	6,373	132	1,244	4,997	3,926	511	560	35.7	40.4
Managers and administrators, except farm	2,667	30	298	2,339	1,513	303	523	40.8	43.6
Sales workers	2,431	177	1,045	1,209	935	131	143	29.4	40.4
Clerical workers	13,762	413	2,790	10,559	9,226	829	504	34.7	39.2
Blue-collar workers	5,241	422	554	4,205	3,553	471	181	35.8	39.2
Craft and kindred workers	683	28	80	575	452	88	35	37.6	40.7
Operatives, except transport	3,846	387	268	3,191	2,743	336	112	36.2	38.8
Transport equipment operatives	233	20	97	116	81	14	21	30.7	41.9
Nonfarm laborers	479	47	110	322	276	33	13	32.7	38.9
Service workers	7,592	611	3,015	3,966	3,256	324	386	29.9	40.4
Private household	964	123	512	329	235	22	72	24.6	44.0
Other service workers	6,627	488	2,503	3,636	3,019	302	315	30.7	40.1

HOUSEHOLD DATA

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

[Numbers in thousands]

Employment status	April 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,651	3,891	3,760	6,360	3,243	3,117	1,291	648	642
Civilian labor force	1,242	680	562	1,159	631	528	82	49	33
Employed	1,058	557	501	1,005	529	476	53	28	25
Agriculture	122	98	24	119	98	21	2	--	3
Nonagricultural industries	936	459	477	886	431	455	50	28	22
Unemployed	184	123	61	154	102	53	29	21	8
Unemployment rate	14.8	18.1	10.9	13.3	16.2	10.0	35.4	(1)	(1)
Not in labor force	6,409	3,211	3,198	5,201	2,612	2,589	1,209	600	609
Keeping house	33	14	19	22	9	13	11	5	6
Going to school	5,767	2,888	2,879	4,664	2,347	2,317	1,103	541	563
Unable to work	9	5	4	9	5	4	1	--	--
All other reasons	600	305	295	506	251	255	94	54	40

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	April 1980					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,058	557	501	100.0	100.0	100.0
Nonagricultural industries	936	459	477	88.6	82.4	95.0
Wage and salary workers	835	387	449	79.1	69.5	89.4
Private household workers	301	57	244	28.5	10.2	48.6
Government workers	45	27	18	4.3	4.8	3.6
Other wage and salary workers	489	303	187	46.3	54.4	37.3
Self-employed workers	92	68	25	8.7	12.2	5.0
Unpaid family workers	8	5	4	.8	.9	.8
Agriculture	122	98	24	11.6	17.6	4.8
Wage and salary workers	79	63	16	7.5	11.3	3.2
Self-employed workers	9	8	--	.9	1.4	--
Unpaid family workers	33	26	8	3.1	4.7	1.6
OCCUPATION						
Total	1,058	557	501	100.0	100.0	100.0
White-collar workers	285	190	95	26.9	34.0	18.9
Professional and technical	24	9	15	2.3	1.6	3.0
Managers and administrators, except farm	--	--	--	--	--	--
Sales workers	203	164	39	19.2	29.3	7.8
Clerical workers	58	17	42	5.5	3.0	8.4
Blue-collar workers	168	147	21	15.9	26.3	4.2
Craft and kindred workers	12	11	1	1.1	2.0	.2
Operatives, except transport	31	22	9	2.9	3.9	1.8
Transport equipment operatives	2	2	--	.2	.4	--
Nonfarm laborers	124	113	11	11.7	20.2	2.2
Service workers	507	144	362	47.9	25.8	72.1
Private household workers	270	13	258	25.5	2.3	51.4
Other service workers	236	132	104	22.3	23.6	20.7
Farm workers	99	76	23	9.4	13.6	4.6
Farmers and farm managers	1	1	--	.1	.2	--
Farm laborers and supervisors	97	75	23	9.2	13.4	4.6

**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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
TOTAL													
Total noninstitutional population ¹	163,008	163,260	163,469	163,685	163,891	164,106	164,468	164,682	164,898	165,101	165,298	165,506	165,693
Armed Forces ¹	2,082	2,078	2,076	2,082	2,090	2,092	2,093	2,092	2,089	2,081	2,086	2,090	2,092
Civilian noninstitutional population ¹	160,926	161,182	161,393	161,604	161,801	162,013	162,375	162,589	162,809	163,020	163,211	163,416	163,601
Civilian labor force.....	102,198	102,398	102,476	103,093	103,128	103,494	103,595	103,652	103,999	104,229	104,260	104,094	104,419
Percent of civilian population.....	63.5	63.5	63.5	63.8	63.7	63.9	63.8	63.8	63.9	63.9	63.9	63.7	63.8
Employed.....	96,254	96,495	96,652	97,184	97,004	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154
Percent of total population.....	59.0	59.1	59.1	59.4	59.2	59.4	59.3	59.3	59.4	59.2	59.3	59.0	58.6
Agriculture.....	3,215	3,246	3,243	3,267	3,315	3,364	3,294	3,385	3,359	3,270	3,326	3,358	3,242
Nonagricultural industries.....	93,039	93,249	93,409	93,917	93,689	94,140	94,180	94,223	94,553	94,534	94,626	94,298	93,912
Unemployed.....	5,944	5,903	5,824	5,909	6,124	5,990	6,121	6,044	6,087	6,425	6,307	6,438	7,265
Unemployment rate.....	5.8	5.8	5.7	5.7	5.9	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0
Not in labor force.....	58,728	58,784	58,917	58,511	58,673	58,519	58,780	58,937	58,810	58,791	58,951	59,322	59,182
Males, 20 years and over													
Total noninstitutional population ¹	69,663	69,787	69,889	69,995	70,099	70,205	70,380	70,487	70,594	70,695	70,792	70,896	70,988
Civilian noninstitutional population ¹	67,997	68,123	68,227	68,319	68,417	68,522	68,697	68,804	68,940	69,047	69,140	69,238	69,329
Civilian labor force.....	54,239	54,288	54,370	54,579	54,597	54,735	54,760	54,709	54,781	54,855	55,038	54,996	55,114
Percent of civilian population.....	79.8	79.7	79.7	79.9	79.8	79.9	79.7	79.5	79.5	79.4	79.6	79.4	79.5
Employed.....	52,049	52,158	52,201	52,325	52,311	52,453	52,443	52,374	52,478	52,279	52,531	52,300	51,868
Percent of total population.....	74.7	74.7	74.7	74.8	74.6	74.7	74.5	74.3	74.3	73.9	74.2	73.8	73.1
Agriculture.....	2,295	2,301	2,305	2,327	2,375	2,377	2,371	2,438	2,427	2,387	2,435	2,394	2,320
Nonagricultural industries.....	49,754	49,857	49,896	49,998	49,936	50,076	50,072	49,936	50,051	49,892	50,096	49,906	49,548
Unemployed.....	2,190	2,130	2,169	2,254	2,286	2,282	2,317	2,335	2,303	2,577	2,507	2,696	3,246
Unemployment rate.....	4.0	3.9	4.0	4.1	4.2	4.2	4.2	4.3	4.2	4.7	4.6	4.9	5.9
Not in labor force.....	13,758	13,835	13,857	13,740	13,820	13,787	13,937	14,095	14,159	14,192	14,102	14,242	14,215
Females, 20 years and over													
Total noninstitutional population ¹	76,645	76,782	76,896	77,014	77,127	77,245	77,429	77,547	77,666	77,779	77,890	78,005	78,110
Civilian noninstitutional population ¹	76,532	76,670	76,784	76,897	77,006	77,124	77,308	77,426	77,542	77,656	77,766	77,876	77,981
Civilian labor force.....	38,415	38,619	38,653	39,033	39,304	39,239	39,362	39,445	39,659	39,878	39,857	39,751	40,137
Percent of civilian population.....	50.2	50.4	50.3	50.8	51.0	50.9	50.9	50.9	51.1	51.4	51.3	51.0	51.5
Employed.....	36,216	36,411	36,457	36,873	37,000	37,075	37,112	37,248	37,402	37,574	37,604	37,496	37,602
Percent of total population.....	47.3	47.4	47.4	47.9	48.0	48.0	47.9	48.0	48.2	48.3	48.3	48.1	48.1
Agriculture.....	572	577	583	585	600	628	572	612	582	540	567	582	552
Nonagricultural industries.....	35,644	35,834	35,874	36,288	36,400	36,447	36,540	36,636	36,820	37,034	37,037	36,914	37,051
Unemployed.....	2,199	2,208	2,196	2,160	2,304	2,164	2,250	2,197	2,257	2,304	2,254	2,255	2,534
Unemployment rate.....	5.7	5.7	5.7	5.5	5.9	5.5	5.7	5.6	5.7	5.8	5.7	5.7	6.3
Not in labor force.....	38,117	38,051	38,131	37,864	37,702	37,885	37,946	37,981	37,883	37,778	37,909	38,125	37,844
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,700	16,692	16,684	16,677	16,665	16,655	16,659	16,648	16,638	16,627	16,616	16,606	16,595
Civilian noninstitutional population ¹	16,397	16,389	16,381	16,387	16,377	16,367	16,370	16,360	16,326	16,317	16,305	16,302	16,291
Civilian labor force.....	9,544	9,491	9,453	9,481	9,227	9,520	9,473	9,498	9,559	9,497	9,365	9,346	9,168
Percent of civilian population.....	58.2	57.9	57.7	57.9	56.3	58.2	57.9	58.1	58.6	58.2	57.4	57.3	56.3
Employed.....	7,989	7,926	7,994	7,986	7,693	7,976	7,919	7,986	8,032	7,952	7,818	7,859	7,683
Percent of total population.....	47.8	47.5	47.9	47.9	46.2	47.9	47.5	48.0	48.3	47.8	47.1	47.3	46.3
Agriculture.....	348	368	355	355	340	359	351	335	350	344	325	381	370
Nonagricultural industries.....	7,641	7,558	7,639	7,631	7,353	7,617	7,568	7,651	7,682	7,608	7,493	7,478	7,313
Unemployed.....	1,555	1,565	1,459	1,495	1,534	1,544	1,554	1,512	1,527	1,545	1,547	1,487	1,485
Unemployment rate.....	16.3	16.5	15.4	15.8	16.6	16.2	16.4	15.9	16.0	16.3	16.5	15.9	16.2
Not in labor force.....	6,853	6,898	6,928	6,906	7,150	6,847	6,897	6,862	6,767	6,820	6,940	6,956	7,123

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	87,412	87,397	87,501	87,749	87,685	88,134	88,394	88,469	88,576	88,627	88,747	88,604	89,121
Employed	82,775	82,864	82,986	83,132	82,958	83,419	83,598	83,699	83,785	83,581	83,805	83,436	83,246
Unemployed	4,637	4,533	4,515	4,617	4,727	4,715	4,796	4,770	4,791	5,046	4,942	5,168	5,875
Unemployment rate	5.3	5.2	5.2	5.3	5.4	5.3	5.4	5.4	5.4	5.7	5.6	5.8	6.6
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,806	14,962	15,064	15,448	15,535	15,275	15,165	15,158	15,411	15,666	15,551	15,398	15,290
Employed	13,515	13,573	13,762	14,161	14,163	13,987	13,822	13,906	14,102	14,302	14,168	14,123	13,927
Unemployed	1,291	1,389	1,302	1,287	1,372	1,288	1,343	1,252	1,309	1,364	1,383	1,275	1,363
Unemployment rate	8.7	9.3	8.6	8.3	8.8	8.4	8.9	8.3	8.5	8.7	8.9	8.3	8.9

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
WHITE													
Total, 16 years and over:													
Civilian labor force	89,996	90,120	90,215	90,659	90,759	91,082	91,147	91,242	91,579	91,852	91,977	91,821	92,083
Employed	85,497	85,632	85,775	86,120	85,976	86,425	86,454	86,571	86,894	86,895	87,081	86,822	86,385
Unemployed	4,499	4,488	4,440	4,539	4,783	4,657	4,693	4,671	4,685	4,957	4,896	4,999	5,698
Unemployment rate	5.0	5.0	4.9	5.0	5.3	5.1	5.1	5.1	5.1	5.4	5.3	5.4	6.2
Males, 20 years and over:													
Civilian labor force	48,400	48,421	48,525	48,634	48,646	48,727	48,752	48,754	48,811	48,964	49,170	49,093	49,201
Employed	46,721	46,797	46,831	46,873	46,833	46,920	46,948	46,939	47,025	46,950	47,205	46,922	46,610
Unemployed	1,679	1,624	1,694	1,761	1,813	1,807	1,804	1,815	1,786	2,014	1,964	2,171	2,591
Unemployment rate	3.5	3.4	3.5	3.6	3.7	3.7	3.7	3.7	3.7	4.1	4.0	4.4	5.3
Females, 20 years and over:													
Civilian labor force	33,122	33,286	33,288	33,604	33,879	33,858	33,946	33,979	34,205	34,411	34,444	34,381	34,668
Employed	31,479	31,617	31,649	31,986	32,126	32,223	32,249	32,310	32,492	32,654	32,668	32,704	32,757
Unemployed	1,643	1,669	1,639	1,618	1,753	1,635	1,697	1,669	1,713	1,757	1,776	1,677	1,911
Unemployment rate	5.0	5.0	4.9	4.8	5.2	4.8	5.0	4.9	5.0	5.1	5.2	4.9	5.5
Both sexes, 16 to 19 years:													
Civilian labor force	8,474	8,413	8,402	8,421	8,234	8,497	8,449	8,509	8,563	8,477	8,363	8,347	8,214
Employed	7,297	7,218	7,295	7,261	7,017	7,282	7,257	7,322	7,377	7,291	7,207	7,196	7,018
Unemployed	1,177	1,195	1,107	1,160	1,217	1,215	1,192	1,187	1,186	1,186	1,156	1,151	1,196
Unemployment rate	13.9	14.2	13.2	13.8	14.8	14.3	14.1	13.9	13.9	14.0	13.8	13.8	14.6
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	12,191	12,219	12,260	12,386	12,343	12,404	12,512	12,391	12,432	12,453	12,362	12,266	12,319
Employed	10,767	10,816	10,887	11,023	10,982	11,063	11,076	11,044	11,024	10,979	10,937	10,823	10,771
Unemployed	1,424	1,403	1,373	1,363	1,361	1,341	1,436	1,347	1,408	1,474	1,424	1,443	1,549
Unemployment rate	11.7	11.5	11.2	11.0	11.0	10.8	11.5	10.9	11.3	11.8	11.5	11.8	12.6
Males, 20 years and over:													
Civilian labor force	5,823	5,847	5,889	5,961	5,956	5,989	6,003	5,927	5,954	5,925	5,914	5,883	5,897
Employed	5,324	5,358	5,414	5,463	5,471	5,510	5,486	5,429	5,439	5,358	5,368	5,334	5,254
Unemployed	499	489	475	498	485	479	517	498	515	567	546	548	643
Unemployment rate	8.6	8.4	8.1	8.4	8.1	8.0	8.6	8.4	8.6	9.6	9.2	9.3	10.9
Females, 20 years and over:													
Civilian labor force	5,296	5,309	5,357	5,398	5,395	5,388	5,476	5,455	5,467	5,493	5,414	5,394	5,477
Employed	4,739	4,779	4,799	4,857	4,842	4,858	4,920	4,937	4,921	4,944	4,928	4,826	4,852
Unemployed	557	530	558	541	553	530	556	518	546	549	486	568	624
Unemployment rate	10.5	10.0	10.4	10.0	10.3	9.8	10.2	9.5	10.0	10.0	9.0	10.5	11.4
Both sexes, 16 to 19 years:													
Civilian labor force	1,072	1,063	1,014	1,027	992	1,027	1,033	1,009	1,011	1,035	1,034	990	946
Employed	704	679	674	703	669	695	670	678	664	677	642	663	664
Unemployed	368	384	340	324	323	332	363	331	347	358	392	327	282
Unemployment rate	34.3	36.1	33.5	31.5	32.6	32.3	35.1	32.8	34.3	34.6	37.9	33.0	29.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1979										1980			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
CHARACTERISTICS														
Total (all civilian workers)	5.8	5.8	5.7	5.7	5.9	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0	
Males, 20 years and over	4.0	3.9	4.0	4.1	4.2	4.2	4.2	4.3	4.2	4.7	4.6	4.9	5.9	
Females, 20 years and over	5.7	5.7	5.7	5.5	5.9	5.5	5.7	5.6	5.7	5.8	5.7	5.7	6.3	
Both sexes, 16-19 years	16.3	16.5	15.4	15.8	16.6	16.2	16.4	15.9	16.0	16.3	16.5	15.9	16.2	
White	5.0	5.0	4.9	5.0	5.3	5.1	5.1	5.1	5.1	5.4	5.3	5.4	6.2	
Black and other	11.7	11.5	11.2	11.0	11.0	10.8	11.5	10.9	11.3	11.8	11.5	11.8	12.6	
Married men, spouse present	2.7	2.5	2.7	2.8	2.9	2.9	2.9	2.9	2.8	3.4	3.1	3.4	4.1	
Married women, spouse present	5.2	5.2	5.1	4.9	5.3	4.8	5.2	4.8	5.0	5.2	5.4	5.3	5.7	
Women who head families	8.3	8.6	9.0	8.1	7.9	7.7	8.4	8.4	8.4	9.2	8.5	8.7	9.3	
Full-time workers	5.3	5.2	5.2	5.3	5.4	5.3	5.4	5.4	5.4	5.7	5.6	5.8	6.6	
Part-time workers	8.7	9.3	8.6	8.3	8.8	8.4	8.9	8.3	8.5	8.7	8.9	8.3	8.9	
Unemployed 15 weeks and over ¹	1.2	1.2	1.1	1.0	1.1	1.1	1.2	1.1	1.2	1.3	1.2	1.3	1.6	
Labor force time lost ²	6.4	6.3	6.3	6.4	6.4	6.2	6.4	6.4	6.4	6.7	6.6	6.8	7.5	
OCCUPATION														
White-collar workers	3.3	3.2	3.4	3.3	3.5	3.3	3.4	3.2	3.3	3.4	3.4	3.3	3.7	
Professional and technical	2.3	2.1	2.5	2.5	2.5	2.4	2.7	2.4	2.3	2.2	2.3	2.3	2.4	
Managers and administrators, except farm	2.3	2.2	2.1	2.0	2.3	2.2	2.2	1.9	2.0	1.9	2.2	2.4	2.6	
Sales workers	4.0	4.0	4.4	3.5	4.0	3.8	3.8	3.7	3.8	4.4	4.5	4.0	4.7	
Clerical workers	4.5	4.5	4.6	4.5	4.9	4.5	4.7	4.4	4.6	4.8	4.7	4.5	5.1	
Blue-collar workers	6.9	6.8	6.6	6.8	7.3	7.1	7.2	7.5	7.2	8.0	7.7	8.0	9.7	
Craft and kindred workers	4.4	4.2	4.3	4.4	4.7	4.3	4.6	4.9	4.4	4.9	4.8	5.4	6.7	
Operatives, except transport	8.5	8.2	7.7	8.3	8.9	9.0	9.1	9.0	9.0	9.9	9.2	9.3	11.6	
Transport equipment operatives	5.9	5.4	5.7	5.1	6.2	6.1	5.6	5.2	5.0	6.9	6.7	6.6	8.9	
Nonfarm laborers	10.6	11.1	10.6	11.0	11.3	11.0	10.7	12.2	12.2	12.3	12.0	13.0	14.1	
Service workers	7.3	7.2	7.2	7.1	7.1	6.7	6.8	6.6	6.6	6.9	6.9	7.1	8.0	
Farm workers	3.4	3.6	3.2	4.2	3.9	4.1	4.3	4.5	4.3	4.4	3.9	4.0	5.0	
INDUSTRY														
Nonagricultural private wage and salary workers ³	5.7	5.7	5.6	5.7	6.0	5.8	5.9	5.8	5.8	6.2	6.0	6.2	7.1	
Construction	10.5	10.0	10.0	10.0	10.1	9.6	9.9	10.2	10.3	10.8	10.5	13.0	15.1	
Manufacturing	5.3	5.4	5.4	5.7	5.9	6.0	6.0	5.9	5.9	6.7	6.4	6.5	7.9	
Durable goods	4.7	4.4	4.9	5.4	5.4	5.3	5.5	5.6	5.5	6.7	6.3	6.4	8.3	
Nondurable goods	6.3	6.9	6.3	6.2	6.8	7.1	6.8	6.3	6.4	6.8	6.7	6.7	7.4	
Transportation	3.0	3.6	3.1	3.8	3.7	4.0	3.8	4.2	4.1	4.4	4.4	3.8	4.6	
Wholesale and retail trade	6.6	6.4	6.7	6.3	6.5	6.4	6.4	6.5	6.4	6.6	6.4	6.3	7.0	
Finance and service industries	4.8	4.9	4.7	4.9	5.2	4.7	4.9	4.6	4.7	4.6	4.6	4.9	5.1	
Government workers	3.7	3.6	3.6	3.6	3.7	3.3	4.0	3.6	3.6	3.8	4.0	4.2	4.4	
Agricultural wage and salary workers	8.7	9.3	7.8	9.7	9.9	10.0	9.9	10.1	9.4	10.3	9.2	10.2	11.9	

¹ Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

[Numbers in thousands]

Weeks of unemployment	1979										1980			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
DURATION														
Both sexes, 16 years and over:														
Less than 5 weeks	2,876	2,823	2,880	2,820	3,168	2,778	2,955	2,919	2,916	3,184	2,995	2,995	3,309	
5 to 14 weeks	1,884	1,919	1,808	1,934	1,738	2,035	1,963	1,869	1,966	1,907	2,081	2,169	2,391	
15 weeks and over	1,223	1,212	1,152	1,067	1,185	1,152	1,195	1,191	1,230	1,334	1,286	1,363	1,629	
15 to 26 weeks	687	705	656	615	658	644	678	660	711	795	790	776	953	
27 weeks and over	536	507	496	452	527	508	517	531	519	539	496	587	676	
Average (mean) duration, in weeks	11.0	10.9	10.5	10.1	10.7	10.7	10.5	10.6	10.5	10.5	10.7	11.0	11.3	
Median duration, in weeks	5.4	5.6	5.6	6.0	4.9	5.8	5.5	5.3	5.5	5.2	5.8	5.9	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	48.1	47.4	49.3	48.4	52.0	46.6	48.3	48.8	47.7	49.6	47.1	45.9	45.1	
5 to 14 weeks	31.5	32.2	31.0	33.2	28.5	34.1	32.1	31.3	32.2	29.7	32.7	33.2	32.6	
15 weeks and over	20.4	20.4	19.7	18.3	19.5	19.3	19.5	19.9	20.1	20.8	20.2	20.9	22.2	
15 to 26 weeks	11.5	11.8	11.2	10.6	10.8	10.8	11.1	11.0	11.6	12.4	12.4	11.9	13.0	
27 weeks and over	9.0	8.5	8.5	7.8	8.7	8.5	8.5	8.9	8.5	8.4	7.8	9.0	9.2	

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1979										1980			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
Total, 16 years and over.....	5.8	5.8	5.7	5.7	5.9	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0	
16 to 19 years	16.3	16.5	15.4	15.8	16.6	16.2	16.4	15.9	16.0	16.3	16.5	15.9	16.2	
16 to 17 years	18.7	18.9	17.5	17.3	18.5	16.9	18.4	17.3	18.0	19.0	18.7	17.4	18.7	
18 to 19 years	14.3	15.0	14.4	14.5	15.4	15.6	15.0	14.7	14.5	14.0	15.1	14.7	14.4	
20 to 24 years	8.6	8.9	8.9	9.1	9.3	9.2	9.6	8.8	9.8	10.1	9.5	9.7	11.4	
25 years and over	4.0	3.9	3.9	3.9	4.0	3.9	4.0	4.0	3.8	4.2	4.1	4.4	5.0	
25 to 54 years	4.2	4.0	4.1	4.0	4.2	4.1	4.2	4.3	4.1	4.4	4.5	4.7	5.4	
55 years and over	3.1	3.1	2.9	3.2	3.1	2.9	3.0	2.7	2.7	3.5	2.8	2.8	3.4	
Males, 16 years and over.....	5.1	5.0	4.9	5.1	5.2	5.2	5.2	5.2	5.2	5.7	5.5	5.7	6.7	
16 to 19 years	16.0	16.1	14.5	15.4	16.3	16.1	15.7	15.8	15.6	16.2	15.6	14.8	16.1	
16 to 17 years	17.9	18.9	16.8	16.1	18.0	16.7	17.1	17.8	17.9	19.0	18.0	15.9	18.3	
18 to 19 years	14.1	14.0	14.0	14.8	15.1	15.3	14.4	14.0	13.6	13.9	14.1	14.0	14.2	
20 to 24 years	8.0	8.2	8.3	8.8	8.8	8.8	9.5	8.4	9.4	10.4	9.9	10.4	12.3	
25 years and over	3.3	3.1	3.2	3.3	3.4	3.3	3.4	3.5	3.2	3.7	3.6	3.9	4.7	
25 to 54 years	3.3	3.2	3.2	3.4	3.5	3.6	3.5	3.8	3.4	3.8	3.8	4.2	5.0	
55 years and over	3.0	2.8	3.1	3.3	3.1	2.8	2.8	2.6	2.6	3.5	2.6	2.7	3.4	
Females, 16 years and over.....	6.9	6.9	6.8	6.6	7.0	6.6	6.9	6.6	6.8	6.8	6.8	6.8	7.3	
16 to 19 years	16.6	16.9	16.5	16.2	17.0	16.4	17.2	16.1	16.4	16.3	17.6	17.3	16.3	
16 to 17 years	19.6	18.8	18.3	18.6	19.0	17.2	19.8	16.7	18.0	19.1	19.5	19.2	19.1	
18 to 19 years	14.5	16.0	14.9	14.2	15.7	15.9	15.6	15.5	15.5	14.2	16.2	15.6	14.6	
20 to 24 years	9.4	9.7	9.7	9.4	9.8	9.6	9.7	9.3	10.2	9.8	9.1	9.0	10.2	
25 years and over	4.9	4.9	4.8	4.7	4.9	4.6	4.9	4.7	4.7	4.9	4.9	5.0	5.5	
25 to 54 years	5.3	5.2	5.2	5.0	5.3	5.0	5.2	5.0	5.1	5.2	5.4	5.5	6.0	
55 years and over	3.2	3.6	2.8	3.1	3.2	2.9	3.4	2.9	2.9	3.4	3.0	2.9	3.4	

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

[Numbers in thousands]

Reason for unemployment	1979										1980			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
NUMBER OF UNEMPLOYED														
Both sexes, 16 years and over:														
Job losers	2,520	2,356	2,449	2,526	2,680	2,632	2,731	2,729	2,728	2,988	2,907	3,047	3,611	
On layoff	839	725	816	797	915	855	929	987	944	1,019	1,031	1,129	1,424	
Other job losers	1,681	1,631	1,633	1,729	1,765	1,777	1,802	1,742	1,784	1,969	1,876	1,918	2,188	
Job leavers	847	940	857	846	875	825	835	845	800	779	813	788	926	
Reentrants	1,778	1,767	1,753	1,762	1,788	1,760	1,762	1,698	1,771	1,797	1,784	1,803	1,967	
New entrants	800	824	781	726	745	801	804	736	858	811	827	805	743	
PERCENT DISTRIBUTION														
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
Job losers	42.4	40.0	41.9	43.1	44.0	43.7	44.5	45.4	44.3	46.9	45.9	47.3	49.8	
On layoff	14.1	12.3	14.0	13.6	15.0	14.2	15.2	16.4	15.3	16.0	16.3	17.5	19.6	
Other job losers	28.3	27.7	28.0	29.5	29.0	29.5	29.4	29.0	29.0	30.9	29.6	29.8	30.2	
Job leavers	14.2	16.0	14.7	14.4	14.4	13.7	13.6	14.1	13.0	12.2	12.8	12.2	12.8	
Reentrants	29.9	30.0	30.0	30.1	29.4	29.2	28.7	28.3	28.8	28.2	28.2	28.0	27.1	
New entrants	13.5	14.0	13.4	12.4	12.2	13.3	13.1	12.3	13.9	12.7	13.1	12.5	10.3	
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE														
Job losers	2.5	2.3	2.4	2.5	2.6	2.5	2.6	2.6	2.6	2.9	2.8	2.9	3.5	
On layoff .....	.8	.9	.8	.8	.8	.8	.8	.8	.8	.7	.8	.8	.9
Other job losers	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.9	
Job leavers .....	.8	.8	.8	.7	.7	.8	.8	.7	.8	.8	.8	.8	.7

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1979									1980			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Total, 16 years and over	96,254	96,495	96,652	97,184	97,004	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154
16 to 19 years	7,989	7,926	7,994	7,986	7,693	7,976	7,919	7,986	8,032	7,952	7,818	7,859	7,683
16 to 17 years	3,275	3,212	3,252	3,242	3,048	3,335	3,251	3,315	3,320	3,247	3,120	3,185	3,039
18 to 19 years	4,723	4,699	4,704	4,725	4,623	4,665	4,674	4,694	4,717	4,726	4,722	4,660	4,640
20 to 24 years	13,937	13,867	13,859	13,910	13,849	13,949	13,875	13,920	13,837	13,819	13,846	13,749	13,624
25 years and over	74,296	74,711	74,864	75,290	75,436	75,616	75,728	75,650	76,030	76,080	76,295	76,012	75,807
25 to 54 years	60,092	60,331	60,552	60,986	61,082	61,208	61,302	61,281	61,686	61,799	61,815	61,719	61,564
55 years and over	14,241	14,311	14,305	14,304	14,399	14,381	14,417	14,368	14,350	14,292	14,464	14,326	14,298
Males, 16 years and over	56,294	56,372	56,477	56,570	56,408	56,714	56,629	56,580	56,734	56,486	56,732	56,601	55,998
16 to 19 years	4,245	4,214	4,276	4,245	4,097	4,261	4,186	4,206	4,256	4,207	4,201	4,301	4,130
16 to 17 years	1,774	1,745	1,754	1,743	1,632	1,839	1,758	1,755	1,783	1,745	1,719	1,804	1,661
18 to 19 years	2,473	2,470	2,489	2,485	2,445	2,452	2,430	2,462	2,477	2,478	2,494	2,488	2,471
20 to 24 years	7,593	7,519	7,530	7,510	7,498	7,590	7,531	7,533	7,498	7,441	7,477	7,453	7,294
25 years and over	44,418	44,658	44,681	44,806	44,818	44,912	44,924	44,796	44,966	44,883	45,070	44,833	44,557
25 to 54 years	35,701	35,857	35,921	36,020	35,962	36,052	36,100	36,020	36,206	36,161	36,136	36,036	35,818
55 years and over	8,746	8,802	8,767	8,789	8,831	8,844	8,793	8,782	8,759	8,723	8,904	8,842	8,764
Females, 16 years and over	39,960	40,123	40,175	40,614	40,596	40,790	40,845	41,028	41,178	41,318	41,221	41,054	41,156
16 to 19 years	3,744	3,712	3,718	3,741	3,596	3,715	3,733	3,780	3,776	3,744	3,617	3,558	3,554
16 to 17 years	1,501	1,467	1,498	1,499	1,416	1,496	1,493	1,560	1,537	1,502	1,401	1,381	1,378
18 to 19 years	2,250	2,229	2,215	2,240	2,178	2,213	2,244	2,232	2,240	2,248	2,228	2,172	2,169
20 to 24 years	6,344	6,348	6,329	6,400	6,351	6,359	6,344	6,387	6,339	6,377	6,369	6,296	6,331
25 years and over	29,878	30,053	30,183	30,484	30,618	30,704	30,804	30,854	31,064	31,197	31,225	31,178	31,250
25 to 54 years	24,391	24,474	24,631	24,966	25,120	25,156	25,202	25,261	25,480	25,638	25,679	25,683	25,746
55 years and over	5,495	5,509	5,538	5,515	5,568	5,537	5,624	5,586	5,591	5,569	5,560	5,484	5,533

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

(In thousands)

Sex and age	1979									1980			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Total, 16 years and over	5,944	5,903	5,824	5,909	6,124	5,990	6,121	6,044	6,087	6,425	6,307	6,438	7,265
16 to 19 years	1,555	1,565	1,459	1,495	1,538	1,544	1,554	1,512	1,527	1,545	1,547	1,487	1,485
16 to 17 years	754	747	690	676	690	680	732	692	728	764	716	671	698
18 to 19 years	790	829	791	803	841	860	825	811	802	772	841	806	780
20 to 24 years	1,316	1,355	1,359	1,386	1,415	1,413	1,470	1,346	1,505	1,554	1,458	1,482	1,748
25 years and over	3,071	2,997	3,005	3,041	3,155	3,036	3,140	3,168	3,040	3,326	3,300	3,463	4,029
25 to 54 years	2,606	2,520	2,562	2,567	2,697	2,647	2,698	2,744	2,650	2,818	2,899	3,064	3,518
55 years and over	456	465	434	478	467	422	449	403	400	512	412	410	503
Males, 16 years and over	2,999	2,941	2,893	3,027	3,083	3,098	3,098	3,124	3,089	3,392	3,283	3,441	4,040
16 to 19 years	809	811	724	773	797	816	781	789	786	815	776	745	794
16 to 17 years	387	407	355	334	358	370	363	380	390	410	377	342	373
18 to 19 years	407	403	404	431	436	442	410	402	391	399	411	405	409
20 to 24 years	659	674	682	723	724	734	789	692	782	860	817	863	1,028
25 years and over	1,525	1,451	1,483	1,531	1,575	1,552	1,565	1,642	1,505	1,719	1,680	1,826	2,214
25 to 54 years	1,237	1,173	1,201	1,252	1,299	1,327	1,322	1,405	1,282	1,410	1,435	1,573	1,886
55 years and over	272	258	276	302	283	254	254	237	231	314	242	246	311
Females, 16 years and over	2,945	2,962	2,931	2,882	3,041	2,892	3,023	2,920	2,998	3,034	3,025	2,997	3,225
16 to 19 years	746	754	735	722	737	728	773	723	741	730	771	742	691
16 to 17 years	367	340	335	342	332	310	369	312	338	354	339	329	325
18 to 19 years	383	426	387	372	405	418	415	409	411	373	430	401	371
20 to 24 years	657	681	677	663	691	679	681	654	723	694	641	620	721
25 years and over	1,546	1,546	1,522	1,510	1,580	1,484	1,575	1,526	1,535	1,607	1,621	1,637	1,815
25 to 54 years	1,369	1,347	1,361	1,315	1,398	1,320	1,376	1,339	1,368	1,408	1,465	1,491	1,631
55 years and over	184	207	158	176	184	168	195	166	169	198	170	165	192

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1979										1980			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
CHARACTERISTICS														
Total, 18 years and over	96,254	96,495	96,652	97,184	97,004	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154	
Married men, spouse present	38,910	39,045	39,079	39,176	39,180	39,198	39,124	38,845	38,924	38,749	38,955	38,745	38,342	
Married women, spouse present	22,376	22,547	22,664	22,908	22,869	22,937	22,919	22,940	23,027	23,111	23,178	23,202	23,080	
OCCUPATION														
White-collar workers	49,061	49,136	49,192	49,536	49,663	49,816	49,738	49,912	49,911	50,313	50,448	50,302	50,405	
Professional and technical	15,091	15,100	15,010	15,057	15,068	15,141	15,057	15,131	15,272	15,337	15,444	15,397	15,542	
Managers and administrators, except farm	10,398	10,427	10,534	10,612	10,698	10,659	10,639	10,617	10,535	10,608	10,971	10,755	10,745	
Sales workers	6,084	6,101	6,103	6,163	6,145	6,181	6,261	6,362	6,346	6,452	6,185	6,113	5,988	
Clerical workers	17,488	17,508	17,545	17,704	17,752	17,835	17,781	17,802	17,758	17,915	17,848	18,037	18,129	
Blue-collar workers	31,705	31,904	31,992	32,051	31,849	32,209	32,205	32,110	32,302	31,882	31,754	31,670	31,127	
Craft and kindred workers	12,703	12,820	12,944	12,876	12,761	12,993	13,001	12,925	13,041	12,814	12,728	12,767	12,773	
Operatives, except transport transport equipment operatives	10,770	10,755	10,804	10,884	10,909	10,964	10,967	10,963	11,042	10,678	10,661	10,579	10,408	
Nonfarm laborers	3,564	3,644	3,605	3,627	3,604	3,617	3,593	3,628	3,635	3,616	3,571	3,558	3,483	
Service workers	4,668	4,685	4,639	4,664	4,575	4,635	4,644	4,594	4,584	4,774	4,795	4,767	4,463	
Farm workers	12,907	12,772	12,805	12,766	12,621	12,859	12,937	12,899	12,970	12,979	13,080	12,981	13,034	
Unpaid family workers	2,659	2,628	2,679	2,678	2,707	2,722	2,695	2,718	2,694	2,660	2,764	2,733	2,658	
MAJOR INDUSTRY AND CLASS OF WORKER														
Agriculture:														
Wage and salary workers	1,379	1,424	1,423	1,419	1,384	1,399	1,381	1,475	1,451	1,428	1,417	1,449	1,370	
Self-employed workers	1,553	1,519	1,539	1,558	1,614	1,642	1,602	1,622	1,596	1,554	1,648	1,600	1,591	
Unpaid family workers	291	283	291	291	310	325	313	310	310	293	283	300	281	
Nonagricultural industries:														
Wage and salary workers	86,105	86,232	86,309	86,454	86,421	86,912	86,982	87,020	87,384	87,578	87,419	87,221	86,741	
Government	15,359	15,616	15,318	15,393	15,279	15,407	15,423	15,358	15,397	15,414	15,540	15,622	15,668	
Private industries	70,746	70,616	70,991	71,061	71,142	71,505	71,559	71,662	71,987	72,163	71,879	71,599	71,072	
Private households	1,172	1,195	1,235	1,219	1,211	1,313	1,261	1,211	1,228	1,132	1,178	1,115	1,123	
Other industries	69,574	69,421	69,756	69,842	69,931	70,192	70,298	70,451	70,759	71,031	70,702	70,484	69,949	
Self-employed workers	6,463	6,608	6,629	6,752	6,689	6,731	6,812	6,781	6,737	6,752	6,899	6,825	6,813	
Unpaid family workers	465	460	474	519	450	449	430	417	409	379	397	376	363	
PERSONS AT WORK¹														
Nonagricultural industries	86,608	87,785	87,749	88,769	88,855	88,723	88,638	88,617	89,180	89,454	88,985	88,585	87,660	
Full-time schedules	71,659	72,496	72,243	72,915	73,053	73,159	73,204	72,997	73,137	73,223	73,110	72,749	71,807	
Part-time for economic reasons	3,279	3,283	3,284	3,274	3,298	3,167	3,315	3,392	3,519	3,513	3,406	3,418	3,816	
Usually work full-time	1,287	1,273	1,322	1,334	1,401	1,273	1,354	1,413	1,491	1,549	1,380	1,463	1,709	
Usually work part-time	1,992	2,010	1,962	1,940	1,897	1,894	1,961	1,979	2,028	1,964	2,026	1,955	2,107	
Part time for noneconomic reasons	11,670	12,006	12,222	12,580	12,504	12,397	12,119	12,228	12,524	12,718	12,469	12,418	12,037	

¹ Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

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	
Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	Apr. 1979	Apr. 1980	
VETERANS¹										
Total, 20 years and over	8,494	8,590	8,082	8,124	7,739	7,644	343	480	4.2	5.9
20 to 24 years	595	384	553	341	506	291	47	50	8.5	14.7
25 to 39 years	7,090	7,243	6,843	6,952	6,575	6,543	268	409	3.9	5.9
25 to 29 years	2,033	1,763	1,930	1,646	1,812	1,493	118	153	6.1	9.3
30 to 34 years	3,580	3,595	3,469	3,481	3,353	3,303	116	178	3.3	5.1
35 to 39 years	1,477	1,885	1,444	1,825	1,410	1,747	34	78	2.4	4.3
40 years and over	809	963	686	831	658	810	28	21	4.1	2.5
NONVETERANS²										
Total, 25 to 39 years	14,388	15,288	13,602	14,496	13,091	13,579	511	917	3.8	6.3
25 to 29 years	6,554	7,000	6,174	6,601	5,894	6,061	280	540	4.5	8.2
30 to 34 years	4,125	4,487	3,908	4,287	3,783	4,044	125	243	3.2	5.7
35 to 39 years	3,709	3,801	3,520	3,608	3,414	3,474	106	134	3.0	3.7

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

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

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P
	TOTAL	88,207	88,820	89,417	89,942	90,111	-	-	-	-	-
	PRIVATE SECTOR	72,408	72,995	73,423	73,799	73,923	59,108	59,628	59,722	60,039	60,130
	MINING	926	932	986	995	1,007	695	699	733	738	747
	METAL MINING	94.5	94.9	99.5	99.7	-	72.3	72.6	75.8	75.1	-
101	Iron ores	24.5	24.4	23.6	23.6	-	19.6	19.4	18.7	18.8	-
102	Copper ores	30.4	30.6	33.4	33.6	-	23.3	23.6	26.0	25.1	-
11, 12	COAL MINING	256.6	259.7	256.8	258.1	-	214.6	217.7	214.1	214.9	-
12	BITUMINOUS COAL AND LIGNITE MINING	253.7	256.8	253.7	255.1	-	212.0	215.1	211.4	212.2	-
13	OIL AND GAS EXTRACTION	456.0	454.5	515.0	519.1	-	314.1	310.8	353.3	355.1	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	194.3	195.2	211.1	213.2	-	93.7	93.2	95.8	96.3	-
138	Oil and gas field services	261.7	259.3	303.9	305.9	-	220.4	217.6	257.5	258.8	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	118.5	123.0	115.1	118.2	-	93.7	98.1	89.5	92.5	-
142	Crushed and broken stone	39.4	41.3	36.3	38.1	-	32.8	34.6	29.9	31.6	-
144	Sand and gravel	35.1	37.4	34.0	34.8	-	-	-	-	-	-
147	Chemical and fertilizer minerals	24.1	24.0	25.0	24.9	-	-	-	-	-	-
	CONSTRUCTION	4,226	4,413	4,261	4,303	4,412	3,322	3,499	3,313	3,323	3,429
15	GENERAL BUILDING CONTRACTORS	1,206.9	1,257.8	1,171.8	1,163.8	-	920.1	967.9	879.2	871.1	-
152	Residential building construction	638.4	665.5	587.7	576.6	-	476.7	500.1	420.8	410.3	-
153	Operative builders	79.3	81.7	75.9	73.9	-	50.8	53.2	46.8	45.2	-
154	Nonresidential building construction	489.2	510.6	508.2	513.3	-	392.6	414.6	411.6	415.6	-
16	HEAVY CONSTRUCTION CONTRACTORS	773.9	843.8	736.1	762.6	-	625.0	693.6	590.8	593.9	-
161	Highway and street construction	215.6	256.8	202.5	216.7	-	176.6	216.9	160.8	174.3	-
162	Heavy construction, except highway	558.3	587.0	533.6	545.9	-	448.4	476.7	430.0	419.6	-
17	SPECIAL TRADE CONTRACTORS	2,245.6	2,310.9	2,353.1	2,376.2	-	1,777.0	1,837.1	1,842.6	1,858.2	-
171	Plumbing, heating, air conditioning	513.9	522.2	548.5	547.8	-	389.0	394.4	414.7	410.4	-
172	Painting, paper hanging, decorating	130.9	141.5	145.1	147.0	-	106.5	117.3	118.1	119.9	-
173	Electrical work	384.1	387.6	421.2	422.0	-	298.5	301.7	327.6	326.8	-
174	Masonry, stonework, and plastering	390.6	397.3	398.2	409.3	-	337.8	344.9	337.9	347.8	-
175	Carpentering and flooring	148.7	146.1	139.4	138.1	-	116.5	113.1	104.6	102.4	-
176	Roofing and sheet metal work	166.2	172.7	163.1	168.5	-	133.8	139.8	127.0	132.5	-
	MANUFACTURING	20,887	20,907	20,648	20,711	20,462	14,993	15,002	14,615	14,668	14,431
24, 25, 32-39	DURABLE GOODS	12,664	12,697	12,523	12,575	12,342	9,081	9,105	8,813	8,860	8,632
20-23, 26-31	NONDURABLE GOODS	8,223	8,210	8,125	8,136	8,120	5,912	5,897	5,802	5,808	5,799
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	745.5	748.8	710.6	706.7	673.7	635.0	637.4	598.5	594.6	561.4
241	Logging camps and logging contractors	83.9	81.8	86.2	82.2	-	68.2	65.8	70.9	67.0	-
242	Sawmills and planing mills	226.7	226.7	219.3	218.9	-	202.7	202.5	195.2	195.1	-
2421	Sawmills and planing mills, general	185.6	186.2	180.7	179.9	-	166.6	167.1	161.2	160.7	-
2428	Hardwood dimension and flooring	33.6	33.0	30.5	30.8	-	29.4	28.7	26.6	26.9	-
243	Millwork, plywood, and structural members	225.0	226.6	207.4	206.1	-	189.2	190.9	171.5	170.1	-
2431	Millwork	78.9	79.0	73.8	73.7	-	64.7	64.6	59.5	59.4	-
2434	Wood kitchen cabinets	51.5	51.9	46.5	45.5	-	43.4	43.9	36.8	37.7	-
2435	Hardwood veneer and plywood	27.6	27.9	26.4	26.7	-	24.7	24.9	23.5	23.7	-
2436	Softwood veneer and plywood	49.8	49.8	45.2	45.1	-	43.0	43.2	38.7	38.5	-
244	Wooden containers	44.5	45.1	40.4	41.1	-	39.4	40.2	35.2	35.7	-
245	Wood buildings and mobile homes	80.0	82.8	72.2	72.3	-	63.3	65.7	55.1	55.1	-
2451	Mobile homes	55.4	57.0	52.6	51.9	-	45.9	47.2	42.0	41.3	-
249	Miscellaneous wood products	85.4	85.8	85.1	86.1	-	72.2	72.3	70.6	71.6	-
25	FURNITURE AND FIXTURES	491.8	487.8	480.7	480.2	474.4	402.8	398.5	391.5	391.3	385.7
251	Household furniture	327.7	324.4	317.2	316.7	-	278.2	274.6	268.0	267.8	-
2511	Wood household furniture	144.8	143.7	141.2	141.7	-	128.0	126.9	124.3	124.5	-
2512	Upholstered household furniture	101.0	100.7	97.9	97.5	-	83.7	83.2	80.9	80.8	-
2514	Metal household furniture	34.1	32.4	32.1	31.5	-	27.7	26.0	26.2	25.7	-
2515	Mattresses and bedspreads	32.3	32.4	31.2	31.0	-	24.9	24.9	23.7	23.6	-
252	Office furniture	47.1	46.7	46.6	46.6	-	37.6	37.3	37.0	37.0	-
253	Public building and related furniture	26.5	25.8	24.3	24.7	-	20.3	19.7	18.0	18.4	-
254	Partitions and fixtures	63.4	63.9	65.4	65.3	-	47.9	48.3	49.4	49.4	-
259	Miscellaneous furniture and fixtures	27.1	27.0	27.2	26.9	-	18.8	18.6	19.1	18.7	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P
32	STONE, CLAY, AND GLASS PRODUCTS	697.2	706.6	677.5	683.1	680.4	549.0	557.7	527.1	532.1	528.6
321	Flat glass	21.6	21.5	19.5	20.0	-	17.0	16.9	15.2	15.7	-
322	Glass and glassware, pressed or blown	132.1	131.0	128.5	129.2	-	113.0	112.3	109.2	109.9	-
3221	Glass containers	74.0	74.3	65.7	70.1	-	65.1	65.3	61.1	61.6	-
3229	Pressed and blown glass, nec	58.1	56.7	58.8	59.1	-	47.9	47.0	48.1	48.3	-
323	Products of purchased glass	49.2	48.7	49.5	49.6	-	36.1	35.8	36.9	36.7	-
324	Cement, hydraulic	32.5	33.0	32.4	32.4	-	26.1	26.6	25.7	25.9	-
325	Structural clay products	50.1	50.4	45.9	46.3	-	39.1	39.4	34.8	35.3	-
326	Pottery and related products	45.4	46.0	46.5	46.9	-	38.2	36.9	38.5	39.0	-
327	Concrete, gypsum, and plaster products	206.7	214.8	196.3	199.6	-	159.7	166.8	149.0	151.7	-
3271	Concrete block and brick	24.1	25.3	22.4	22.8	-	17.0	18.0	15.2	15.6	-
3272	Concrete products, nec	70.9	71.9	66.4	67.2	-	54.2	54.9	50.1	50.7	-
3273	Ready-mixed concrete	90.2	95.8	85.8	88.2	-	71.0	76.1	66.0	68.0	-
329	Misc. nonmetallic mineral products	147.2	148.2	146.1	146.2	-	109.9	110.4	107.5	107.6	-
3291	Abrasive products	29.6	29.7	30.1	30.0	-	20.2	20.2	20.6	20.4	-
3292	Asbestos products	22.5	22.7	21.0	21.0	-	17.4	17.5	16.2	16.1	-
3296	Mineral wool	30.8	30.7	31.2	31.3	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,251.1	1,259.0	1,199.4	1,198.2	1,193.5	988.0	994.9	933.9	932.6	928.8
331	Blast furnace and basic steel products	568.0	572.7	539.3	535.8	-	450.8	454.5	421.6	422.6	-
3312	Blast furnaces and steel mills	477.2	481.2	453.5	453.9	-	380.2	383.3	355.7	356.6	-
3317	Steel pipe and tubes	32.4	32.3	29.8	29.9	-	25.7	25.5	23.0	23.1	-
332	Iron and steel foundries	246.5	246.8	222.2	220.5	-	202.2	202.9	179.9	178.2	-
3321	Gray iron foundries	154.3	153.9	132.3	130.6	-	128.9	128.9	109.0	107.2	-
3322	Malleable iron foundries	23.3	23.4	19.3	19.5	-	18.9	15.1	15.1	15.2	-
3325	Steel foundries, nec	55.2	55.6	55.4	55.1	-	44.3	44.6	44.2	44.0	-
333	Primary nonferrous metals	71.4	71.4	71.4	71.5	-	55.3	55.8	54.7	54.7	-
3334	Primary aluminum	36.1	36.4	36.9	36.8	-	29.1	29.7	29.1	29.0	-
335	Nonferrous rolling and drawing	217.5	215.2	218.4	218.8	-	160.3	161.2	159.3	159.4	-
3351	Copper rolling and drawing	33.7	34.2	32.4	32.3	-	26.8	27.2	24.8	24.8	-
3353	Aluminum sheet, plate, and foil	35.8	35.8	35.1	35.6	-	27.5	27.4	26.9	27.2	-
3357	Nonferrous wire drawing and insulating	88.0	88.6	90.1	90.8	-	65.4	65.7	66.4	66.9	-
336	Nonferrous foundries	99.3	100.4	96.6	95.9	-	82.5	83.5	78.7	78.0	-
3381	Aluminum foundries	56.3	56.7	55.5	55.0	-	47.4	47.9	46.1	45.7	-
34	FABRICATED METAL PRODUCTS	1,719.8	1,723.7	1,706.5	1,710.4	1,681.2	1,303.2	1,306.5	1,280.8	1,284.0	1,256.1
341	Metal cans and shipping containers	78.3	80.3	76.6	76.3	-	66.8	68.6	64.7	64.4	-
3411	Metal cans	64.3	65.7	62.3	61.8	-	55.2	56.5	53.1	52.5	-
342	Cutlery, hand tools, and hardware	186.0	187.0	179.8	180.7	-	145.1	146.2	138.4	139.5	-
3423,5	Hand and edge tools, and hand saws and blades	64.0	65.2	64.5	64.1	-	50.4	51.6	50.3	49.9	-
3429	Hardware, nec	105.8	105.6	99.1	100.3	-	83.0	82.8	76.4	77.8	-
343	Plumbing and heating, except electric	74.4	75.0	76.7	76.1	-	54.8	55.4	56.7	56.1	-
3432	Plumbing fittings and brass goods	27.9	28.4	29.5	29.6	-	22.5	23.2	24.2	24.3	-
3433	Heating equipment, except electric	34.7	34.7	35.6	35.0	-	23.7	23.7	24.4	23.8	-
344	Fabricated structural metal products	510.4	510.1	523.8	522.3	-	358.9	358.5	367.4	365.1	-
3441	Fabricated structural metal	102.9	102.2	109.4	109.3	-	74.3	73.8	79.6	79.3	-
3442	Metal doors, sash, and trim	82.1	83.3	84.2	83.8	-	60.7	61.6	62.0	61.5	-
3443	Fabricated plate work (boiler shops)	149.4	149.2	148.2	147.9	-	97.4	97.1	94.4	93.8	-
3444	Sheet metal work	106.3	105.9	110.1	109.2	-	77.9	77.6	81.5	80.5	-
3446	Architectural metal work	31.3	30.6	32.9	32.9	-	22.6	22.2	23.9	23.7	-
345	Screw machine products, bolts, etc.	119.6	120.1	121.6	121.4	-	94.5	94.8	95.5	95.4	-
3451	Screw machine products	57.4	57.4	58.8	58.8	-	47.8	47.6	48.6	48.5	-
3452	Bolts, nuts, rivets, and washers	62.2	62.7	62.8	62.6	-	46.7	47.2	46.9	46.9	-
346	Metal forgings and stampings	308.9	308.0	282.2	288.0	-	248.8	248.4	224.0	229.8	-
3462	Iron and steel forgings	55.4	56.2	53.3	53.5	-	44.3	45.2	42.0	42.0	-
3465	Automotive stampings	114.8	113.0	88.7	94.2	-	96.8	95.3	72.0	77.7	-
3469	Metal stampings, nec	127.3	127.3	128.4	128.5	-	98.9	99.0	100.8	100.9	-
347	Metal services, nec	108.2	109.0	110.1	110.4	-	88.5	89.1	89.3	89.5	-
3471	Plating and polishing	73.9	74.7	73.8	74.4	-	61.1	61.8	60.4	60.9	-
3479	Metal coating and allied services	34.3	34.3	36.3	36.0	-	27.4	27.3	28.9	28.6	-
348	Ordinance and accessories, nec	61.3	61.4	59.7	58.9	-	42.6	42.6	40.2	39.7	-
3483	Ammunition, exc. for small arms, nec	26.3	26.3	26.2	25.8	-	18.2	18.2	17.8	17.5	-
349	Misc. fabricated metal products	272.7	272.8	276.0	276.3	-	203.2	202.9	204.6	204.5	-
3494	Valves and pipe fittings	106.8	107.5	110.3	110.7	-	73.8	74.3	75.1	75.6	-
3496	Misc. fabricated wire products	57.4	57.2	58.3	58.5	-	44.6	44.4	46.2	45.9	-
35	MACHINERY, EXCEPT ELECTRICAL	2,459.5	2,468.0	2,520.8	2,526.5	2,515.7	1,624.7	1,631.5	1,647.0	1,651.1	1,638.0
351	Engines and turbines	138.9	138.9	135.1	134.0	-	90.7	90.7	88.2	87.3	-
3511	Turbines and turbine generator sets	42.6	41.9	40.2	40.1	-	22.1	21.8	20.3	20.3	-
3519	Internal combustion engines, nec	96.3	97.0	94.9	93.9	-	68.6	68.9	67.9	67.0	-
352	Farm and garden machinery	177.9	178.9	169.6	169.1	-	127.4	128.4	120.0	119.4	-
3523	Farm machinery and equipment	156.4	157.9	148.3	148.5	-	111.9	113.4	104.8	104.7	-
353	Construction and related machinery	403.7	405.7	416.2	419.8	-	270.4	271.5	275.3	278.0	-
3531	Construction machinery	175.4	176.9	169.8	171.0	-	120.6	121.7	114.8	116.1	-

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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery.....	38.3	38.3	40.6	40.9	-	24.6	24.5	26.0	26.1	-
3533	Oil field machinery.....	83.9	84.1	92.1	93.8	-	58.0	58.0	62.9	64.1	-
3535	Conveyers and conveying equipment.....	36.1	35.9	37.3	37.2	-	21.6	21.2	21.3	21.1	-
3537	Industrial trucks and tractors.....	38.7	38.8	41.2	41.6	-	26.8	26.9	27.9	28.4	-
354	Metalworking machinery.....	364.3	365.5	379.1	379.4	-	266.2	267.3	275.9	276.1	-
3541	Machine tools, metal cutting types.....	77.5	78.1	82.5	82.4	-	50.5	51.0	53.2	53.3	-
3542	Machine tools, metal forming types.....	26.4	26.5	27.7	27.8	-	17.4	17.5	18.2	18.2	-
3544	Special dies, tools, jigs, and fixtures.....	135.7	136.1	134.8	134.7	-	109.2	109.3	107.9	107.7	-
3545	Machine tool accessories.....	65.2	66.1	70.7	71.1	-	46.0	46.8	49.8	50.2	-
3546	Power driven hand tools.....	34.6	34.4	38.9	38.9	-	26.1	26.0	30.4	30.4	-
355	Special industry machinery.....	207.1	206.3	213.6	214.1	-	129.7	129.6	135.3	135.7	-
3551	Food products machinery.....	47.5	47.6	49.2	49.3	-	29.8	25.8	31.2	31.1	-
3552	Textile machinery.....	26.9	26.7	27.6	27.6	-	18.9	18.7	19.6	19.5	-
3555	Printing trades machinery.....	40.8	41.2	44.0	43.9	-	24.4	24.6	26.8	27.1	-
356	General industrial machinery.....	326.9	328.0	332.1	332.1	-	218.7	219.3	220.6	220.4	-
3561	Pumps and pumping equipment.....	61.5	61.5	61.4	61.4	-	37.8	37.9	37.6	37.4	-
3562	Ball and roller bearings.....	60.2	60.5	61.6	61.3	-	47.0	47.2	48.6	48.5	-
3563	Air and gas compressors.....	30.7	31.1	31.0	31.0	-	17.9	18.3	18.5	18.5	-
3564	Blowers and fans.....	41.8	41.8	42.9	43.1	-	26.3	26.1	26.3	26.5	-
3566	Speed changers, drives, and gears.....	27.1	27.3	28.4	28.3	-	18.6	18.8	19.5	19.4	-
3568	Power transmission equipment, nec.....	24.9	25.0	23.5	23.5	-	18.4	18.5	16.9	16.9	-
357	Office and computing machines.....	371.3	372.9	405.1	406.7	-	169.2	170.3	181.8	182.8	-
3573	Electronic computing equipment.....	296.4	297.8	328.1	329.8	-	125.5	126.6	137.0	137.6	-
358	Refrigeration and service machinery.....	192.9	194.1	185.3	185.6	-	137.6	138.9	130.0	130.3	-
3586	Refrigeration and heating equipment.....	135.4	136.4	127.7	127.4	-	97.6	98.7	90.4	90.1	-
359	Misc. machinery, except electrical.....	276.5	277.3	284.7	285.7	-	214.8	215.5	219.9	221.1	-
3592	Carburetors, pistons, rings, valves.....	44.4	44.9	43.6	43.4	-	35.4	35.9	34.7	34.6	-
3599	Machinery, except electrical, nec.....	232.1	232.4	241.1	242.3	-	179.4	179.6	185.2	186.5	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT.....	2,082.6	2,086.1	2,138.3	2,149.2	2,136.4	1,369.9	1,371.9	1,384.4	1,391.7	1,379.8
361	Electric distributing equipment.....	123.1	123.3	121.3	120.5	-	88.2	88.5	85.7	85.2	-
3612	Transformers.....	55.8	56.1	55.8	55.3	-	40.1	40.3	39.5	39.1	-
3613	Switchgear and switchboard apparatus.....	67.3	67.2	65.5	65.2	-	48.1	48.2	46.2	46.1	-
362	Electrical industrial apparatus.....	258.3	258.9	260.5	260.1	-	187.4	187.9	186.6	186.0	-
3621	Motors and generators.....	139.9	140.0	136.0	135.7	-	107.0	107.3	103.0	102.5	-
3622	Industrial controls.....	70.0	70.3	73.0	73.1	-	45.4	45.4	46.5	46.4	-
363	Household appliances.....	176.5	174.7	172.5	173.6	-	138.6	138.1	136.9	137.8	-
3632	Household refrigerators and freezers.....	42.3	39.8	37.6	37.7	-	33.8	32.2	30.5	30.6	-
3633	Household laundry equipment.....	22.8	23.0	23.6	23.4	-	17.9	18.1	18.7	18.5	-
3634	Electric housewares and fans.....	49.7	50.2	48.9	50.3	-	38.9	39.7	39.3	40.5	-
364	Electric lighting and wiring equipment.....	228.3	229.3	227.0	227.7	-	173.9	175.0	169.9	170.3	-
3641	Electric lamps.....	38.3	38.7	37.8	37.5	-	34.0	34.4	33.4	33.1	-
3643	Current-carrying wiring devices.....	95.9	96.7	100.5	100.6	-	67.7	68.7	70.0	69.9	-
3644	Noncurrent-carrying wiring devices.....	23.0	23.1	22.4	22.7	-	17.0	17.0	16.2	16.5	-
3645	Residential lighting fixtures.....	28.1	28.0	26.5	27.0	-	22.0	21.8	20.4	20.7	-
365	Radio and TV receiving equipment.....	111.1	108.7	108.3	109.5	-	82.4	79.9	78.1	79.4	-
3651	Radio and TV receiving sets.....	89.0	88.2	88.9	89.9	-	64.9	63.9	62.6	63.7	-
366	Communication equipment.....	518.8	520.6	549.7	552.4	-	258.6	259.8	274.4	276.7	-
3661	Telephone and telegraph apparatus.....	155.8	157.2	167.7	169.1	-	109.0	110.3	117.8	118.7	-
3662	Radio and TV communication equipment.....	363.0	363.4	382.0	383.3	-	149.6	149.5	156.6	158.0	-
367	Electronic components and accessories.....	497.8	502.6	540.1	542.5	-	314.5	317.5	337.5	337.6	-
3671-3	Electronic tubes.....	42.7	43.1	45.1	45.2	-	27.7	27.9	28.4	28.5	-
3674	Semiconductors and related devices.....	185.2	186.8	205.9	207.6	-	88.0	88.6	95.8	95.7	-
3679	Electronic components, nec.....	198.1	195.8	212.5	213.3	-	141.0	142.4	151.7	151.7	-
369	Misc. electrical equipment and supplies.....	168.7	168.0	158.9	162.9	-	126.3	125.2	115.3	118.7	-
3691	Storage batteries.....	32.1	32.0	29.6	32.5	-	25.6	25.5	22.8	24.8	-
3694	Engine electrical equipment.....	79.0	78.0	68.3	69.4	-	62.1	61.0	51.7	53.1	-
37	TRANSPORTATION EQUIPMENT.....	2,083.9	2,082.2	1,950.4	1,974.2	1,843.4	1,448.1	1,446.0	1,295.0	1,320.2	1,191.2
371	Motor vehicles and equipment.....	1,032.1	1,030.9	847.7	869.2	-	808.9	808.5	628.7	655.0	-
3711	Motor vehicles and car bodies.....	470.6	471.4	371.1	397.5	-	352.2	353.7	256.3	286.2	-
3713	Truck and bus bodies.....	49.6	49.0	45.0	42.7	-	39.9	39.7	35.4	33.2	-
3714	Motor vehicle parts and accessories.....	477.2	475.3	401.5	398.7	-	389.2	387.1	314.3	312.7	-
3716	Truck trailers.....	34.7	35.2	30.1	30.3	-	27.6	28.0	27.7	22.9	-
372	Aircraft and parts.....	587.6	592.7	643.2	646.4	-	319.4	322.9	354.7	356.0	-
3721	Aircraft.....	327.6	330.1	355.9	357.8	-	162.1	163.7	175.9	180.5	-
3724	Aircraft engines and engine parts.....	144.4	145.8	158.0	158.6	-	83.2	84.2	91.7	91.9	-
3728	Aircraft equipment, nec.....	115.6	116.8	129.3	130.0	-	74.1	75.0	83.1	83.6	-
373	Ship and boat building and repairing.....	212.6	211.7	211.2	209.6	-	170.0	169.1	168.9	167.2	-
3731	Ship building and repairing.....	156.3	155.7	165.1	164.4	-	123.5	122.2	130.8	130.3	-
3732	Boat building and repairing.....	56.3	56.0	46.1	45.2	-	46.5	46.9	38.1	36.9	-
374	Railroad equipment.....	69.6	69.8	71.2	70.5	-	53.8	53.8	54.8	54.1	-
376	Guided missiles, space vehicles, parts.....	96.4	96.3	104.2	105.2	-	30.6	30.7	33.8	33.9	-
3761	Guided missiles and space vehicles.....	76.5	76.0	82.1	82.7	-	22.2	22.1	24.8	24.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 _p	Apr. 1980 _p	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 _p	Apr. 1980 _p
	TRANSPORTATION EQUIPMENT—Continued										
379	Miscellaneous transportation equipment	68.1	63.1	52.9	52.7	-	51.7	47.1	37.7	37.2	-
3792	Travel trailers and campers	46.5	41.4	30.8	30.8	-	37.0	32.3	23.6	23.4	-
	INSTRUMENTS AND RELATED PRODUCTS	683.2	686.5	701.2	705.0	702.4	420.3	421.3	423.6	427.6	428.4
38	Engineering and scientific instruments	70.1	70.5	76.4	76.7	-	35.8	35.7	38.1	38.4	-
382	Measuring and controlling devices	225.2	226.7	231.9	232.6	-	144.8	145.3	147.7	148.4	-
3822	Environmental controls	46.9	46.7	46.2	46.2	-	32.5	32.2	32.5	32.9	-
3823	Process control instruments	51.0	51.6	52.4	52.2	-	27.8	28.0	27.7	27.3	-
3825	Instruments to measure electricity	89.0	89.9	93.9	94.5	-	57.2	57.6	58.9	59.3	-
383	Optical instruments and lenses	30.0	30.2	33.4	33.5	-	16.6	16.8	18.5	18.7	-
384	Medical instruments and supplies	146.6	146.6	152.4	153.8	-	98.0	97.8	95.8	101.3	-
3841	Surgical and medical instruments	63.2	63.6	66.3	66.8	-	42.2	42.3	43.3	44.3	-
3842	Surgical appliances and supplies	65.4	65.2	68.8	69.7	-	43.7	43.6	45.4	45.9	-
385	Ophthalmic goods	44.8	45.3	46.0	46.6	-	32.9	33.3	33.3	33.9	-
386	Photographic equipment and supplies	136.9	137.7	135.5	136.2	-	69.2	69.6	66.8	67.4	-
387	Watches, clocks, and watchcases	29.6	29.5	25.6	25.6	-	23.0	22.8	19.4	19.5	-
	MISCELLANEOUS MANUFACTURING INDUSTRIES	449.0	448.0	437.2	441.4	440.5	340.4	339.6	330.7	335.0	334.4
391	Jewelry, silverware, and plated ware	60.7	59.7	55.6	55.8	-	44.1	43.8	39.9	39.9	-
3911	Jewelry, precious metal	39.1	38.1	35.1	35.2	-	27.7	27.4	25.0	24.9	-
393	Musical instruments	25.2	25.1	23.2	23.0	-	20.6	20.6	19.4	19.1	-
394	Toys and sporting goods	115.5	116.6	115.0	116.9	-	87.6	88.2	86.7	89.0	-
3942, 4	Dolls, games, toys, and children's vehicles	55.1	55.7	53.8	54.7	-	39.9	40.1	36.4	39.8	-
3949	Sporting and athletic goods, nec	60.4	60.9	61.2	62.2	-	47.7	48.1	48.3	49.2	-
395	Pens, pencils, office and art supplies	40.9	41.0	43.2	44.1	-	29.8	29.7	31.0	31.7	-
396	Costume jewelry and notions	63.1	62.5	57.1	58.1	-	51.0	50.1	45.2	46.3	-
3961	Costume jewelry	35.0	34.4	30.7	31.5	-	28.5	27.8	24.0	24.8	-
399	Miscellaneous manufacturers	143.6	143.1	143.1	143.5	-	107.3	107.2	108.5	109.0	-
3993	Signs and advertising displays	48.7	49.2	48.9	49.0	-	35.1	35.6	35.3	35.4	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	1,666.9	1,657.3	1,634.9	1,630.2	1,617.1	1,129.8	1,120.1	1,106.4	1,102.3	1,089.0
201	Meat products	352.7	352.2	359.0	358.2	-	291.2	290.5	297.6	296.7	-
2011	Meat packing plants	166.5	164.8	165.0	164.4	-	134.6	132.6	134.4	133.7	-
2013	Sausages and other prepared meats	69.4	67.8	68.3	68.2	-	50.8	49.4	49.9	49.9	-
2016	Poultry dressing plants	103.2	106.3	111.0	111.1	-	94.2	97.0	100.6	100.6	-
202	Dairy products	180.3	182.2	177.4	178.4	-	94.5	95.9	93.9	94.8	-
2022	Cheese, natural and processed	31.6	31.7	31.1	31.4	-	24.8	25.0	23.8	24.1	-
2026	Fluid milk	115.8	116.3	113.8	114.0	-	49.6	45.8	50.1	50.3	-
203	Preserved fruits and vegetables	219.8	215.1	195.1	195.6	-	175.8	172.0	155.3	156.8	-
2032	Canned specialties	26.1	25.9	24.8	24.4	-	18.1	18.0	17.7	17.7	-
2033	Canned fruits and vegetables	67.4	64.5	63.3	61.0	-	52.5	50.0	50.5	48.5	-
2037	Frozen fruits and vegetables	52.4	51.9	40.5	44.0	-	45.5	45.2	34.4	38.1	-
204	Grain mill products	144.6	143.1	143.1	143.1	-	99.0	97.5	98.5	98.5	-
2041	Flour and other grain mill products	26.1	26.2	26.1	26.0	-	16.4	16.4	16.1	16.0	-
2048	Prepared feeds, nec	58.9	58.2	58.9	59.2	-	37.8	37.2	38.3	38.5	-
205	Bakery products	233.7	233.9	230.5	231.5	-	136.4	136.7	133.6	134.3	-
2051	Bread, cake, and related products	190.2	190.3	187.6	188.3	-	101.9	102.2	100.3	100.8	-
2052	Cookies and crackers	43.5	43.6	42.9	43.2	-	34.5	34.5	33.3	33.5	-
206	Sugar and confectionery products	107.0	102.9	105.5	99.7	-	80.8	77.3	79.8	74.1	-
2061-3	Cane and beet sugar	30.5	28.9	28.0	25.2	-	21.5	20.3	20.0	17.3	-
2065	Confectionery products	57.0	54.5	57.3	54.8	-	45.6	43.3	45.7	43.2	-
207	Fats and oils	40.5	39.8	39.5	39.3	-	29.5	28.6	29.1	28.7	-
208	Beverages	225.2	226.1	220.9	222.5	-	105.4	105.6	98.5	99.4	-
2082	Malt beverages	49.1	49.5	48.3	48.7	-	33.8	34.3	31.8	32.1	-
2086	Bottled and canned soft drinks	133.9	134.8	134.5	135.1	-	46.7	46.9	45.3	45.4	-
209	Misc. foods and kindred products	163.1	162.0	163.9	161.9	-	117.2	116.0	120.1	119.0	-
21	TOBACCO MANUFACTURES	64.4	62.5	63.4	60.9	58.7	50.9	49.1	49.5	47.2	44.6
211	Cigarettes	44.0	44.1	43.0	42.7	-	34.2	34.3	33.0	32.8	-
22	TEXTILE MILL PRODUCTS	894.4	890.4	887.9	890.8	891.8	778.3	775.2	775.3	777.6	779.7
221	Weaving mills, cotton	150.8	150.5	153.2	152.0	-	136.0	135.8	137.9	137.0	-
222	Weaving mills, synthetics	125.1	124.3	123.5	124.3	-	112.0	111.3	110.9	111.5	-
223	Weaving and finishing mills, wool	21.5	21.3	21.0	21.1	-	17.9	17.8	17.4	17.4	-
224	Narrow fabric mills	25.9	25.3	25.3	25.3	-	22.8	22.3	22.4	22.4	-
225	Knitting mills	230.8	230.9	231.5	234.2	-	198.7	199.1	201.7	204.1	-
2251	Women's hosiery, except socks	29.8	29.5	30.5	30.3	-	26.6	26.4	27.7	27.4	-
2252	Hosiery, nec	34.7	34.5	34.6	34.8	-	31.7	31.5	31.6	31.9	-
2253	Knit outerwear mills	73.5	73.7	76.2	78.1	-	62.5	62.8	65.4	67.1	-
2254	Knit underwear mills	34.3	34.4	32.9	33.2	-	29.5	29.5	28.6	28.9	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P
TEXTILE MILL PRODUCTS—Continued											
2257	Circular knit fabric mills	33.6	33.7	33.1	33.1	-	27.5	27.8	28.2	28.2	-
226	Textile finishing, except wool	78.7	78.0	76.9	76.5	-	66.4	65.7	64.8	64.7	-
2261	Finishing plants, cotton	33.4	32.9	31.7	32.2	-	28.0	27.5	26.4	27.0	-
2262	Finishing plants, synthetics	29.1	28.9	28.9	27.7	-	24.7	24.5	24.4	23.3	-
227	Floor covering mills	62.3	61.4	58.5	58.4	-	50.8	49.9	47.7	47.5	-
228	Yarn and thread mills	130.0	130.2	131.7	132.7	-	117.8	118.2	119.4	120.3	-
2281	Yarn mills, except wool	87.4	87.4	89.5	90.4	-	80.5	80.6	82.7	83.5	-
2282	Throwing and winding mills	21.5	21.7	21.0	21.0	-	19.1	19.3	18.4	18.4	-
229	Miscellaneous textile goods	69.3	68.5	66.3	66.3	-	55.9	55.1	53.1	52.7	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,326.6	1,323.7	1,305.9	1,315.0	1,307.0	1,134.6	1,131.2	1,114.6	1,122.9	1,115.9
231	Men's and boys' suits and coats	88.6	85.9	84.1	81.4	-	75.5	76.7	72.9	70.7	-
232	Men's and boys' furnishings	363.7	364.1	373.5	375.7	-	313.4	313.6	320.8	322.7	-
2321	Men's and boys' shirts and nightwear	104.9	105.3	105.1	105.8	-	91.4	91.6	91.6	92.3	-
2327	Men's and boys' separate trousers	79.7	79.2	80.7	80.2	-	69.4	68.8	70.1	70.1	-
2328	Men's and boys' work clothing	98.5	98.8	107.0	108.0	-	83.4	83.6	89.9	90.4	-
233	Women's and misses' outerwear	450.8	447.9	436.3	442.6	-	388.0	384.0	374.0	380.0	-
2331	Women's and misses' dresses and waists	62.6	62.2	59.0	59.2	-	54.9	54.4	51.1	51.5	-
2335	Women's and misses' blouses	174.2	174.9	171.4	175.6	-	153.0	153.0	150.6	154.3	-
2337	Women's and misses' suits and coats	65.8	65.3	58.1	58.3	-	56.5	55.9	49.6	50.1	-
2339	Women's and misses' outerwear, nec.	148.2	145.5	147.8	149.5	-	123.6	120.7	122.7	124.1	-
234	Women's and children's undergarments	89.5	90.3	88.7	89.0	-	76.0	77.2	75.2	75.6	-
2341	Women's and children's underwear	70.5	70.9	69.9	70.3	-	60.8	61.6	60.4	60.8	-
2342	Brassieres and allied garments	19.0	19.4	18.8	18.7	-	15.2	15.6	14.8	14.8	-
236	Children's outerwear	67.5	66.4	66.8	65.4	-	58.3	57.0	57.2	55.7	-
2361	Children's dresses and blouses	25.7	25.5	25.0	23.9	-	23.0	22.8	22.4	21.5	-
238	Misc. apparel and accessories	58.1	57.8	54.6	55.7	-	49.8	45.8	47.0	47.8	-
239	Misc. fabricated textile products	188.7	187.7	183.4	186.1	-	156.8	156.2	151.6	153.9	-
2391	Curtains and draperies	29.3	25.2	30.3	30.3	-	25.5	25.4	26.0	25.9	-
2392	House furnishings, nec.	50.1	49.9	51.5	51.7	-	41.6	41.4	43.1	43.0	-
2396	Automotive and apparel trimmings	37.9	38.6	32.5	34.6	-	31.5	32.2	26.4	28.5	-
26	PAPER AND ALLIED PRODUCTS	708.8	710.8	710.0	711.0	708.3	535.0	537.7	538.4	539.1	537.2
261, 262	Paper and pulp mills	197.8	198.2	198.8	198.4	-	148.3	149.0	149.5	149.0	-
262	Paper mills, except building paper	168.9	169.3	169.5	169.4	-	125.5	126.1	125.9	125.8	-
263	Paperboard mills	70.7	70.5	72.9	72.7	-	56.3	56.1	56.7	56.7	-
264	Misc. converted paper products	224.6	226.1	224.1	225.7	-	163.5	165.3	166.4	167.8	-
2641	Paper coating and glazing	58.5	59.3	60.2	60.2	-	35.2	36.3	39.5	39.3	-
2642	Envelopes	24.7	24.7	25.5	25.6	-	19.4	19.4	20.0	20.0	-
2643	Bags, except textile bags	52.1	52.1	52.7	52.7	-	40.6	40.7	41.2	41.1	-
265	Paperboard containers and boxes	215.7	216.0	214.7	214.2	-	166.9	167.3	165.8	165.6	-
2651	Folding paperboard boxes	46.6	46.6	46.3	46.2	-	37.1	37.2	36.8	36.7	-
2653	Corrugated and solid fiber boxes	107.8	107.5	107.2	107.3	-	80.0	75.8	79.3	79.4	-
2654	Sanitary food containers	28.5	28.6	28.5	28.4	-	23.8	23.7	23.6	23.5	-
27	PRINTING AND PUBLISHING	1,229.5	1,231.0	1,274.0	1,276.0	1,274.7	695.3	696.7	719.1	719.5	719.7
271	Newspapers	416.0	415.8	429.3	429.0	-	166.4	166.6	170.8	169.9	-
272	Periodicals	81.5	80.7	84.6	84.0	-	14.0	13.8	14.3	14.7	-
273	Books	103.5	104.3	106.8	107.4	-	54.5	55.4	55.8	55.7	-
2731	Book publishing	74.0	74.4	76.6	77.1	-	29.4	29.9	30.3	30.2	-
2732	Book printing	29.5	29.9	30.2	30.3	-	25.1	25.5	25.5	25.5	-
274	Miscellaneous publishing	48.2	45.1	49.9	49.1	-	30.0	30.2	29.6	28.4	-
275	Commercial printing	408.0	408.6	424.2	426.8	-	302.1	302.6	315.7	316.5	-
2751	Commercial printing, letterpress	172.6	172.3	174.9	174.6	-	127.2	127.3	129.3	128.0	-
2752	Commercial printing, lithographic	213.1	213.8	225.9	228.5	-	156.5	156.7	167.2	169.1	-
276	Manifold business forms	47.2	47.4	50.0	50.0	-	33.7	33.6	35.4	35.5	-
278	Blankbooks and bookbinding	62.5	62.5	65.9	66.4	-	51.7	51.6	54.3	54.8	-
279	Printing trade services	40.7	40.4	41.3	41.9	-	29.7	29.5	30.7	31.1	-
28	CHEMICALS AND ALLIED PRODUCTS	1,103.9	1,106.7	1,113.0	1,118.0	1,120.5	633.9	634.5	635.4	638.0	644.0
281	Industrial inorganic chemicals	170.0	170.6	175.3	175.9	-	93.7	94.3	95.1	97.0	-
2819	Industrial inorganic chemicals, nec.	110.5	110.9	113.4	113.8	-	60.7	61.2	62.7	63.5	-
282	Plastics materials and synthetics	215.4	216.2	214.3	215.0	-	147.2	148.2	145.3	145.9	-
2821	Plastics materials and resins	83.8	84.0	84.4	84.8	-	52.0	52.3	51.3	51.4	-
2824	Organic fibers, noncellulosic	96.7	97.1	94.8	95.0	-	69.9	70.2	68.2	68.3	-
283	Drugs	187.8	189.2	193.7	194.8	-	92.1	92.7	97.3	96.8	-
2834	Pharmaceutical preparations	150.3	151.5	155.0	155.9	-	70.5	71.0	75.4	75.3	-
284	Soap, cleaners, and toilet goods	137.2	135.9	135.9	135.7	-	83.1	81.1	82.2	82.2	-
2841	Soap and other detergents	41.1	40.3	39.6	39.7	-	26.7	25.9	25.5	25.3	-
2844	Toilet preparations	54.8	54.2	55.5	55.0	-	33.6	32.4	34.2	34.2	-
2842, 3	Polishing, sanitation, and finishing preparations	41.3	41.4	40.8	41.0	-	22.8	22.8	22.5	22.7	-
285	Paints and allied products	68.8	68.9	67.6	68.4	-	35.8	35.6	34.3	35.0	-
286	Industrial organic chemicals	164.8	165.0	165.1	166.0	-	85.9	85.2	85.1	84.4	-

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				
		Mar. 1979	Apr. 1975	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1975	Feb. 1980	Mar. 1980 P	Apr. 1980 P
CHEMICALS AND ALLIED PRODUCTS—Cont'd											
2885	Cyclic crudes and intermediates	37.4	37.5	38.3	38.6	-	23.8	23.9	23.8	23.8	-
2881,9	Gum, wood, and industrial organic chemicals, nec.	127.4	127.5	126.8	127.4	-	62.1	61.3	61.3	60.6	-
287	Agricultural chemicals	69.5	70.6	71.0	72.2	-	45.1	46.3	45.0	45.9	-
289	Miscellaneous chemical products	90.4	90.3	90.1	90.0	-	51.0	51.1	51.1	50.8	-
PETROLEUM AND COAL PRODUCTS											
29	Petroleum refining	208.3	210.8	159.1	156.6	179.2	135.6	137.6	88.5	85.3	105.5
291	Petroleum refining	164.7	165.5	116.4	113.3	-	104.1	104.4	57.4	53.7	-
295	Paving and roofing materials	32.2	33.7	30.4	31.0	-	24.6	26.1	23.2	23.7	-
RUBBER AND MISC. PLASTICS PRODUCTS											
30	Tires and inner tubes	774.4	772.0	738.3	738.7	723.0	608.8	605.5	573.9	574.2	561.3
301	Rubber and plastics footwear	129.8	130.8	110.9	109.6	-	94.6	95.4	78.3	76.9	-
302	Rubber and plastics footwear	24.0	23.3	22.5	22.8	-	20.9	20.3	19.7	20.1	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	23.7	22.9	22.1	21.4	-	17.9	17.1	15.9	15.3	-
306	Fabricated rubber products, nec	116.7	117.0	108.2	108.3	-	92.3	92.5	84.3	84.2	-
307	Miscellaneous plastics products	480.2	478.0	474.6	476.6	-	383.1	380.2	375.7	377.7	-
LEATHER AND LEATHER PRODUCTS											
31	Leather tanning and finishing	245.7	245.1	238.3	239.1	239.2	209.8	208.9	201.2	202.1	201.9
311	Leather tanning and finishing	20.9	20.8	19.3	19.2	-	17.7	17.5	16.0	16.0	-
314	Footwear, except rubber	150.5	150.1	148.5	149.3	-	129.8	129.1	126.3	127.2	-
3143	Men's footwear, except athletic	60.4	60.3	56.6	56.6	-	52.8	52.6	48.6	48.6	-
3144	Women's footwear, except athletic	60.2	59.7	62.4	62.1	-	51.5	50.9	52.4	52.3	-
316	Luggage	17.5	17.3	15.2	15.0	-	13.9	13.7	11.8	11.6	-
317	Handbags and personal leather goods	32.2	32.2	32.0	31.9	-	27.4	27.5	27.4	27.3	-
TRANSPORTATION AND PUBLIC UTILITIES											
40	RAILROAD TRANSPORTATION	5,060	4,989	5,142	5,155	5,150	4,232	4,163	4,290	4,307	4,310
4011	Class I railroads ²	489.5	494.1	481.5	481.6	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	269.4	265.2	273.8	274.5	-	248.5	244.2	252.6	253.3	-
411	Local and suburban transportation	71.5	71.9	75.2	75.8	-	66.2	66.6	68.6	69.1	-
412	Taxicabs	66.4	65.1	64.5	63.6	-	-	-	-	-	-
413	Intercity highway transportation	34.1	35.1	36.8	37.1	-	31.2	32.1	33.9	34.1	-
415	School buses	83.8	79.2	82.9	83.2	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,351.2	1,294.0	1,328.7	1,333.5	-	1,196.8	1,137.8	1,163.3	1,170.3	-
421,3	Trucking and trucking terminals	1,263.8	1,208.2	1,236.5	1,242.2	-	1,121.8	1,064.4	1,084.0	1,092.3	-
422	Public warehousing	87.4	85.8	92.2	91.3	-	75.0	73.4	79.3	78.0	-
44	WATER TRANSPORTATION	209.4	215.3	214.6	215.9	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	423.6	391.4	434.2	435.1	-	-	-	-	-	-
451,2	Air transportation	378.9	346.1	387.1	387.3	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	19.1	19.0	18.6	18.7	-	13.5	13.4	13.3	13.4	-
47	TRANSPORTATION SERVICES	179.0	179.1	193.1	194.0	-	-	-	-	-	-
48	COMMUNICATION	1,283.9	1,290.7	1,337.3	1,340.2	-	969.8	974.9	1,000.3	1,005.0	-
481	Telephone communication	1,025.7	1,031.9	1,062.9	1,063.5	-	758.0	762.4	774.1	777.2	-
483	Radio and television broadcasting	188.5	189.0	200.7	202.5	-	150.3	150.8	162.1	163.0	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	793.9	798.6	817.9	819.1	-	646.2	649.3	665.7	666.1	-
491	Electric services	365.7	368.4	382.2	382.0	-	294.5	296.5	308.8	308.0	-
492	Gas production and distribution	165.7	166.4	165.4	165.9	-	135.1	135.5	134.6	135.3	-
493	Combination utility services	192.9	193.1	197.3	197.6	-	156.5	156.2	159.5	159.6	-
495	Sanitary services	45.4	45.9	48.1	48.5	-	40.2	40.7	42.3	42.7	-
-	WHOLESALE AND RETAIL TRADE	19,690	19,957	20,041	20,111	20,235	17,292	17,533	17,574	17,633	17,735
50,51	WHOLESALE TRADE	5,098	5,112	5,221	5,243	5,224	4,188	4,200	4,277	4,295	4,281
50	WHOLESALE TRADE - DURABLE GOODS	2,993	3,009	3,096	3,109	-	2,455	2,470	2,537	2,549	-
501	Motor vehicles and automotive equipment	433.3	435.4	429.3	426.4	-	353.8	355.8	349.0	345.8	-
502	Furniture and home furnishing	104.9	104.7	107.8	107.6	-	85.4	85.1	88.2	87.7	-
503	Lumber and construction materials	180.3	182.0	184.6	184.2	-	149.3	151.1	152.8	152.1	-
504	Sporting goods, toys, and hobby goods	62.9	60.7	64.2	64.7	-	51.9	49.8	52.7	53.1	-
506	Metals and minerals, except petroleum	150.0	151.3	156.5	157.1	-	121.9	123.2	127.1	127.9	-
508	Electrical goods	405.1	407.6	428.2	429.5	-	333.4	335.3	345.6	350.9	-
507	Hardware, plumbing, and heating equipment	235.7	236.1	243.9	243.9	-	195.7	195.9	202.5	202.4	-

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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 _p	Apr. 1980 _p	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 _p	Apr. 1980 _p
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,216.4	1,224.6	1,269.2	1,280.5	-	990.9	999.7	1,034.5	1,046.4	-
509	Miscellaneous durable goods	204.4	206.3	212.7	214.6	-	173.0	174.5	180.6	182.4	-
51	WHOLESALE TRADE-NONDURABLE GOODS ..	2,105	2,103	2,125	2,134	-	1,733	1,730	1,740	1,746	-
511	Paper and paper products	138.0	138.6	141.7	142.3	-	111.3	112.1	115.3	115.9	-
512	Drugs, proprietaries, and sundries	140.2	146.3	146.6	147.0	-	120.5	121.0	124.7	124.2	-
513	Apparel, piece goods, and notions	167.5	166.7	172.8	173.2	-	132.9	132.5	137.6	137.7	-
514	Groceries and related products	638.6	632.2	634.1	634.0	-	550.7	544.6	546.1	546.0	-
516	Chemicals and allied products	116.2	116.6	119.8	121.0	-	83.8	84.2	88.3	89.8	-
517	Petroleum and petroleum products	225.9	224.8	223.9	224.2	-	167.8	166.6	162.7	162.6	-
518	Beer, wine, and distilled beverages	134.3	135.9	139.1	141.9	-	113.7	115.1	117.0	119.0	-
519	Miscellaneous nondurable goods	398.0	403.0	407.8	413.1	-	329.2	334.1	333.7	339.0	-
52-59	RETAIL TRADE	14,592	14,845	14,820	14,868	15,011	13,104	13,333	13,297	13,338	13,454
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	610.3	622.9	607.6	614.0	-	520.0	531.6	514.2	519.6	-
521	Lumber and other building materials	321.3	328.0	324.1	322.7	-	274.9	281.2	275.0	273.7	-
525	Hardware stores	143.0	144.2	148.1	149.5	-	122.7	123.6	127.2	127.7	-
53	GENERAL MERCHANDISE STORES	2,189.6	2,196.9	2,180.7	2,163.1	-	2,036.6	2,044.3	2,025.7	2,009.0	-
531	Department stores	1,777.3	1,778.9	1,772.0	1,755.5	-	1,664.0	1,666.0	1,659.3	1,643.1	-
533	Variety stores	275.1	280.2	262.9	260.4	-	254.5	259.4	241.6	239.8	-
539	Misc. general merchandise stores	137.2	137.8	145.8	147.2	-	118.1	118.5	124.8	126.1	-
54	FOOD STORES	2,251.5	2,254.6	2,325.7	2,326.9	-	2,077.2	2,079.3	2,144.8	2,150.3	-
541	Grocery stores	1,976.2	1,976.8	2,048.2	2,054.2	-	1,825.6	1,825.4	1,891.0	1,901.0	-
542	Meat markets and freezer provisioners	53.5	52.5	52.8	52.4	-	-	-	-	-	-
546	Retail bakeries	125.1	125.7	125.4	125.2	-	115.2	116.6	115.5	115.6	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,866.2	1,858.4	1,757.5	1,758.7	-	1,597.2	1,589.4	1,490.1	1,487.4	-
551,2	New and used car dealers	910.2	910.6	853.6	847.4	-	758.4	755.1	703.7	697.8	-
553	Auto and home supply stores	252.9	256.6	251.6	249.5	-	220.9	223.4	217.9	215.6	-
554	Gasoline service stations	617.1	603.6	561.5	568.9	-	544.9	532.2	490.3	494.8	-
56	APPAREL AND ACCESSORY STORES	907.0	927.4	920.1	921.5	-	781.1	800.2	787.6	788.5	-
561	Men's and boys' clothing and furnishings	137.4	138.7	139.8	137.0	-	116.6	117.9	118.1	115.5	-
562	Women's ready-to-wear stores	350.1	354.8	348.1	351.0	-	304.7	309.2	301.3	304.1	-
565	Family clothing stores	164.7	169.0	176.9	177.6	-	144.0	148.1	154.1	154.7	-
566	Shoe stores	171.4	181.9	170.1	170.0	-	143.0	152.9	140.4	140.0	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	612.6	609.3	614.5	611.6	-	508.6	503.5	508.8	504.6	-
571	Furniture and home furnishings	365.8	364.6	366.5	366.1	-	307.1	306.1	306.3	304.4	-
572	Household appliance stores	90.0	88.8	88.2	87.2	-	76.8	75.9	75.6	74.8	-
573	Radio, television, and music stores	156.8	155.9	159.8	158.3	-	124.7	121.5	126.9	125.4	-
58	EATING AND DRINKING PLACES	4,316.3	4,525.5	4,505.4	4,575.8	-	3,962.5	4,155.5	4,146.4	4,211.9	-
59	MISCELLANEOUS RETAIL	1,838.2	1,849.7	1,908.1	1,896.4	-	1,620.3	1,629.5	1,679.0	1,666.2	-
591	Drug stores and proprietary stores	498.1	500.5	517.1	517.5	-	454.1	455.7	470.6	472.7	-
592	Liquor stores	126.9	126.7	139.5	140.5	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	552.5	551.9	581.1	583.2	-	473.8	472.2	496.5	497.4	-
596	Nonstore retailers	264.4	260.0	254.7	251.9	-	248.3	244.0	239.0	235.8	-
598	Fuel and ice dealers	106.8	102.5	107.0	105.3	-	91.3	86.9	90.3	88.7	-
599	Retail stores, nec.	235.9	253.7	252.3	240.4	-	199.4	217.0	215.5	203.1	-
	FINANCE, INSURANCE, AND REAL										
	ESTATE	4,870	4,900	5,051	5,072	5,093	3,703	3,728	3,819	3,839	3,856
60	BANKING	1,468.0	1,473.3	1,524.2	1,528.9	-	1,138.8	1,141.0	1,176.1	1,180.1	-
602	Commercial and stock savings banks	1,339.6	1,344.5	1,390.4	1,394.7	-	1,034.3	1,036.0	1,067.4	1,070.6	-
61	CREDIT AGENCIES OTHER THAN BANKS	539.6	540.9	562.0	560.4	-	414.5	415.3	429.0	427.3	-
612	Savings and loan associations	231.8	232.7	245.4	245.2	-	179.6	179.9	188.0	187.5	-
614	Personal credit institutions	207.6	208.3	216.0	215.1	-	158.7	159.1	165.0	164.4	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	200.3	201.6	211.7	213.6	-	-	-	-	-	-
621	Security brokers and dealers	161.3	162.2	168.0	169.5	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,204.4	1,209.0	1,232.7	1,235.7	-	845.9	851.2	861.8	866.2	-
631	Life insurance	522.3	525.6	529.8	530.5	-	312.9	315.8	317.9	321.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 _p	Apr. 1980 _p	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 _p	Apr. 1980 _p
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	138.1	137.6	139.6	140.3	-	111.0	110.4	112.0	112.7	-
633	Fire, marine, and casualty insurance	470.0	471.5	490.1	492.0	-	361.2	364.0	373.6	374.5	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	424.8	424.9	443.7	448.4	-	-	-	-	-	-
65	REAL ESTATE	900.5	917.6	937.8	944.6	-	-	-	-	-	-
651	Real estate operators and lessors	422.6	425.6	445.2	446.6	-	-	-	-	-	-
653	Real estate agents and managers	334.8	339.6	347.1	351.5	-	-	-	-	-	-
655	Subdividers and developers	119.3	128.3	121.9	123.2	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	27.2	26.8	26.8	27.1	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES	105.1	106.2	112.1	113.1	-	-	-	-	-	-
	SERVICES	16,749	16,897	17,294	17,452	17,564	14,871	15,004	15,378	15,531	15,622
70	HOTELS AND OTHER LODGING PLACES	955.8	995.6	980.6	1,008.1	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	921.9	961.8	941.6	971.4	-	851.2	887.5	864.5	893.3	-
72	PERSONAL SERVICES	914.1	912.4	914.2	914.4	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	354.6	355.7	346.7	345.4	-	315.8	316.3	309.3	307.9	-
723	Beauty shops	282.7	281.7	266.8	268.9	-	261.2	260.6	246.9	248.8	-
726	Funeral service and crematories	71.2	71.6	72.6	72.6	-	-	-	-	-	-
73	BUSINESS SERVICES	2,747.4	2,745.0	2,885.5	2,893.4	-	2,384.4	2,378.5	2,517.9	2,523.9	-
731	Advertising	145.5	145.7	151.8	151.7	-	107.4	107.4	114.7	114.9	-
732	Credit reporting and collection	76.2	76.1	72.1	72.1	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	105.3	103.7	106.6	105.4	-	-	-	-	-	-
734	Services to buildings	461.1	464.5	490.3	495.9	-	414.0	417.9	444.2	448.8	-
736	Personnel supply services	466.3	456.5	482.9	493.9	-	-	-	-	-	-
737	Computer and data processing services	248.8	251.7	274.6	272.5	-	204.8	206.9	228.4	226.7	-
75	AUTO REPAIR, SERVICES, AND GARAGES	576.2	572.3	571.9	579.3	-	495.6	491.1	490.2	496.0	-
753	Automotive repair shops	356.7	356.2	351.9	356.5	-	305.3	304.3	299.5	302.8	-
76	MISCELLANEOUS REPAIR SERVICES	272.3	272.4	290.3	293.9	-	232.9	233.1	249.3	252.4	-
78	MOTION PICTURES	207.8	211.9	199.0	206.3	-	185.2	190.0	174.4	181.1	-
781	Motion picture production and services	81.2	75.6	79.0	80.2	-	71.0	66.4	66.2	67.4	-
783	Motion picture theaters	115.4	125.2	109.4	115.3	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	686.4	742.4	647.2	703.8	-	617.9	672.5	582.3	636.8	-
80	HEALTH SERVICES	4,961.0	4,975.9	5,208.7	5,224.3	-	4,416.0	4,427.4	4,645.0	4,664.5	-
801	Offices of physicians	700.4	704.1	737.8	740.7	-	572.9	575.4	600.3	607.3	-
802	Offices of dentists	310.6	312.9	330.7	329.5	-	270.9	273.4	287.2	285.9	-
805	Nursing and personal care facilities	955.4	960.8	1,021.7	1,024.8	-	861.1	864.4	921.1	924.1	-
806	Hospitals	2,617.3	2,617.4	2,718.1	2,727.0	-	2,390.1	2,389.9	2,491.0	2,500.1	-
81	LEGAL SERVICES	450.9	450.7	474.4	478.4	-	386.9	386.7	406.3	410.4	-
82	EDUCATIONAL SERVICES	1,116.8	1,111.7	1,132.6	1,133.3	-	-	-	-	-	-
821	Elementary and secondary schools	235.7	232.9	249.3	251.6	-	-	-	-	-	-
822	Colleges and universities	765.3	763.5	763.1	760.6	-	-	-	-	-	-
83	SOCIAL SERVICES	1,031.9	1,035.3	1,056.9	1,066.8	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,563.7	1,568.1	1,615.5	1,614.6	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	920.9	922.9	990.5	998.5	-	765.9	767.3	825.1	833.9	-
891	Engineering and architectural services	487.9	491.3	531.5	535.2	-	411.6	414.7	449.9	453.5	-
893	Accounting, auditing, and bookkeeping	301.6	295.6	317.0	319.4	-	244.9	243.2	257.0	260.8	-
	GOVERNMENT ⁴	15,799	15,825	15,994	16,143	16,188	-	-	-	-	-
	FEDERAL GOVERNMENT	2,740	2,750	2,803	2,867	2,944	-	-	-	-	-
-	Executive	2,688.3	2,697.4	2,749.5	2,813.0	-	-	-	-	-	-
-	Department of Defense	892.0	890.0	885.4	886.5	-	-	-	-	-	-
-	Postal Service	655.4	655.0	656.7	655.7	-	-	-	-	-	-
-	Other executive agencies	1,140.9	1,152.4	1,207.4	1,270.8	-	-	-	-	-	-
-	Manufacturing activities	122.0	122.2	121.6	122.3	-	-	-	-	-	-
-	Shipbuilding	71.2	71.1	71.7	71.6	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P
	Executive—Continued										
	Transportation and public utilities, except Postal Service	51.2	51.7	51.2	51.3	-	-	-	-	-	-
	Services	378.0	381.1	386.0	389.9	-	-	-	-	-	-
	Hospitals	221.7	221.7	232.4	235.6	-	-	-	-	-	-
	Legislative	38.9	39.4	39.5	39.7	-	-	-	-	-	-
	Judicial	13.1	13.2	14.1	14.2	-	-	-	-	-	-
	STATE AND LOCAL GOVERNMENT	13,059	13,075	13,191	13,276	13,244	-	-	-	-	-
	State government	3,514.1	3,504.6	3,549.0	3,574.6	-	-	-	-	-	-
	Hospitals	563.0	562.5	565.3	566.4	-	-	-	-	-	-
	State education	1,470.6	1,460.5	1,480.7	1,491.9	-	-	-	-	-	-
	General administration including executive, legislative, and judicial functions	903.3	904.9	908.5	916.7	-	-	-	-	-	-
	Local government	9,544.5	9,570.3	9,641.6	9,700.9	-	-	-	-	-	-
	Transportation and public utilities	579.0	576.9	596.0	596.7	-	-	-	-	-	-
	Hospitals	522.0	522.1	539.1	541.2	-	-	-	-	-	-
	Local education	5,384.3	5,395.1	5,421.4	5,463.2	-	-	-	-	-	-
	General administration including executive, legislative, and judicial functions	2,717.9	2,727.8	2,738.7	2,752.9	-	-	-	-	-	-

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

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

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

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

* Not available.
p = preliminary.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	Jan. 1979	Feb. 1979	Dec. 1979	Jan. 1980	Feb. 1980
	TOTAL	36,041	36,152	38,252	37,552	37,730
	PRIVATE SECTOR	28,744	28,724	30,580	29,965	29,987
	MINING	83	84	96	96	98
10	METAL MINING	7.3	7.3	8.5	8.5	8.5
11, 12	COAL MINING	8.8	8.9	9.6	10.0	10.4
13	OIL AND GAS EXTRACTION	58.7	59.7	68.2	68.3	69.8
131, 2	Crude petroleum, natural gas, and natural gas liquids	37.8	38.4	44.1	44.2	45.0
138	Oil and gas field services	20.9	21.3	24.1	24.1	24.8
14	NONMETALLIC MINERALS, EXCEPT FUELS	8.1	8.1	9.4	9.2	9.1
142	Crushed and broken stone	2.4	2.4	2.7	2.6	2.5
144	Sand and gravel	2.5	2.5	3.1	3.0	3.0
	CONSTRUCTION	344	347	388	386	386
15	GENERAL BUILDING CONTRACTORS	126.5	128.0	140.9	137.6	136.5
152	Residential building construction	75.8	76.5	84.4	82.0	81.3
153	Operative builders	16.7	17.2	17.4	16.8	16.5
154	Nonresidential building construction	34.0	34.3	39.1	38.8	38.7
16	HEAVY CONSTRUCTION CONTRACTORS	46.6	46.7	53.2	51.6	51.5
161	Highway and street construction	12.0	12.1	15.9	14.8	14.9
162	Heavy construction, except highway	34.6	34.6	37.3	36.8	36.6
17	SPECIAL TRADE CONTRACTORS	170.7	172.7	193.9	196.8	198.0
171	Plumbing, heating, air conditioning	45.5	45.8	51.0	51.5	51.4
172	Painting, paper hanging, decorating	11.2	11.3	12.8	12.9	13.0
173	Electrical work	29.8	29.9	33.6	34.0	34.6
174	Masonry, stonework, and plastering	20.4	20.8	23.5	24.6	25.0
175	Carpentering and flooring	14.3	14.9	16.5	16.3	16.7
176	Roofing and sheet metal work	11.8	11.8	14.1	14.3	14.6
	MANUFACTURING	6,336	6,349	6,498	6,435	6,445
24, 25, 32-39	DURABLE GOODS	3,005	3,020	3,125	3,101	3,098
20-23, 26-31	NONDURABLE GOODS	3,331	3,329	3,373	3,334	3,347
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	169.2	169.5	111.0	107.9	107.9
241	Logging camps and logging contractors	4.8	4.8	5.2	5.0	4.8
242	Sawmills and planing mills	21.6	21.7	22.1	21.9	21.9
2421	Sawmills and planing mills, general	14.6	14.7	15.2	15.2	15.3
243	Millwork, plywood, and structural members	44.8	44.6	45.2	43.7	43.8
244	Wooden containers	7.1	7.2	7.0	6.6	6.8
245	Wood buildings and mobile homes	10.2	10.1	9.9	9.5	9.4
249	Miscellaneous wood products	20.7	21.1	21.6	21.2	21.2
25	FURNITURE AND FIXTURES	147.1	146.3	146.1	144.7	143.0
251	Household furniture	110.2	109.1	108.1	106.9	105.5
2511	Wood household furniture	45.4	45.1	45.6	45.3	44.7
2512	Upholstered household furniture	37.2	36.8	36.3	35.4	35.2
2515	Mattresses and bedspreads	8.6	8.6	8.8	8.5	8.4
252	Office furniture	11.1	11.1	11.5	11.6	11.3
253	Public building and related furniture	5.2	5.3	5.4	5.2	5.1
254	Partitions and fixtures	10.1	10.3	11.0	10.8	10.9
259	Miscellaneous furniture and fixtures	10.5	10.5	10.1	10.2	10.2
32	STONE, CLAY, AND GLASS PRODUCTS	128.9	129.1	135.0	132.8	132.5
322	Glass and glassware, pressed or blown	44.0	43.3	44.2	43.4	42.7
3221	Glass containers	24.6	24.8	24.1	23.9	23.4
3229	Pressed and blown glass, nec	19.4	18.5	20.1	19.5	19.3
323	Products of purchased glass	12.6	12.8	14.8	14.6	14.7
324	Cement, hydraulic	1.6	1.6	1.7	1.7	1.7
325	Structural clay products	6.4	6.5	6.8	6.6	6.7
326	Pottery and related products	16.0	16.1	16.4	16.0	16.2
327	Concrete, gypsum, and plaster products	14.5	14.4	15.8	15.5	15.4
329	Misc. nonmetallic mineral products	31.2	31.7	32.6	32.4	32.5
33	PRIMARY METAL INDUSTRIES	130.1	130.8	132.4	131.0	131.1
331	Blast furnace and basic steel products	40.8	41.4	41.9	41.6	41.9
3312	Blast furnaces and steel mills	31.6	32.0	32.2	31.8	31.9
332	Iron and steel foundries	21.1	20.9	19.1	19.5	19.5

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

(In thousands)

1972 SIC Code	Industry	Jan. 1979	Feb. 1979	Dec. 1979	Jan. 1980	Feb. 1980
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	10.5	10.2	8.3	8.6	8.5
3322	Malleable iron foundries	1.7	1.7	1.3	1.3	1.3
3325	Steel foundries, nec	4.6	4.6	4.9	5.0	5.0
333	Primary nonferrous metals	4.5	4.5	5.0	4.9	4.9
3334	Primary aluminum	1.7	1.7	2.1	2.0	2.0
336	Nonferrous rolling and drawing	42.4	42.6	44.1	42.8	42.7
3351	Copper rolling and drawing	3.7	3.8	3.6	3.5	3.5
3353	Aluminum sheet, plate, and foil	4.3	4.3	4.3	4.2	4.3
3357	Nonferrous wire drawing and insulating	25.2	25.2	26.8	26.0	25.7
336	Nonferrous foundries	16.4	16.5	16.8	16.6	16.4
3361	Aluminum foundries	7.9	7.8	8.5	8.5	8.4
34	FABRICATED METAL PRODUCTS	354.4	354.8	365.3	362.1	360.3
341	Metal cans and shipping containers	13.1	13.4	13.6	13.5	13.6
3411	Metal cans	11.4	11.7	11.6	11.6	11.6
342	Cutlery, hand tools, and hardware	62.6	62.5	62.4	62.0	61.4
3423, 5	Hand and edge tools, and hand saws and blades	17.2	17.1	18.0	18.0	17.8
3429	Hardware, nec	38.1	38.1	36.9	36.7	36.3
343	Plumbing and heating, except electric	19.2	19.0	20.0	19.5	19.3
344	Fabricated structural metal products	70.5	69.6	75.6	74.9	74.3
3441	Fabricated structural metal	7.3	7.5	8.2	8.2	8.2
3442	Metal doors, sash, and trim	22.4	21.6	23.6	22.8	22.2
3443	Fabricated plate work (boiler shops)	15.9	15.9	17.5	17.6	17.6
3444	Sheet metal work	14.8	14.9	16.0	15.9	15.8
345	Screw machine products, bolts, etc.	25.0	25.5	27.5	27.5	27.4
3451	Screw machine products	12.9	13.3	14.3	14.4	14.4
3452	Bolts, nuts, rivets, and washers	12.1	12.2	13.2	13.1	13.0
346	Metal forgings and stampings	59.9	60.1	57.7	56.0	55.8
3462	Iron and steel forgings	4.4	4.4	4.6	4.4	4.5
3465	Automotive stampings	15.5	15.3	12.8	11.2	11.2
3469	Metal stampings, nec	37.8	38.3	38.1	38.2	37.9
347	Metal services, nec	26.3	26.1	26.8	26.6	26.8
3471	Plating and polishing	18.2	18.0	18.3	18.1	18.1
3479	Metal coating and allied services	8.1	8.1	8.5	8.5	8.7
348	Ordinance and accessories, nec	16.9	17.0	17.1	17.2	17.0
349	Misc. fabricated metal products	60.9	61.6	64.6	64.9	64.7
3494	Valves and pipe fittings	22.5	22.6	23.9	24.3	24.2
3496	Misc. fabricated wire products	14.0	14.3	15.1	15.2	15.3
35	MACHINERY, EXCEPT ELECTRICAL	457.4	461.6	487.6	498.4	498.8
351	Engines and turbines	25.1	25.5	24.6	26.3	25.5
3511	Turbines and turbine generator sets	5.9	5.9	5.8	5.8	5.9
3519	Internal combustion engines, nec	19.2	19.6	18.8	20.5	19.6
352	Farm and garden machinery	25.6	26.2	27.0	27.2	27.3
3523	Farm machinery and equipment	19.5	20.0	21.1	21.0	21.1
353	Construction and related machinery	42.8	43.2	44.6	51.1	50.9
3531	Construction machinery	13.9	14.1	11.4	17.2	16.8
3533	Oil field machinery	10.3	10.6	12.5	12.8	13.0
354	Metalworking machinery	55.6	56.3	60.2	60.6	61.6
3541	Machine tools, metal cutting types	9.2	9.4	10.6	10.6	10.7
3544	Special dies, tools, jigs, and fixtures	15.6	15.5	15.0	15.0	15.5
3546	Machine tool accessories	13.5	13.8	15.0	15.2	15.3
355	Special industry machinery	30.2	30.2	32.1	32.2	32.2
3561	Food products machinery	6.3	6.3	6.8	6.9	6.9
3562	Textile machinery	5.1	5.1	5.5	5.5	5.5
3565	Printing trades machinery	7.3	7.3	7.4	7.4	7.4
356	General industrial machinery	61.1	61.4	64.1	64.5	64.8
3561	Pumps and pumping equipment	10.9	11.0	11.2	10.9	11.1
3562	Ball and roller bearings	14.1	14.2	14.7	14.7	14.8
357	Office and computing machines	129.5	130.7	147.0	147.0	147.2
3573	Electronic computing equipment	101.7	103.6	118.8	119.2	119.4
358	Refrigeration and service machinery	39.1	39.4	39.0	40.1	40.0
3585	Refrigeration and heating equipment	26.4	26.8	26.0	27.2	27.0
359	Misc. machinery, except electrical	48.4	48.7	49.0	49.4	49.3
3599	Machinery, except electrical, nec	36.8	37.0	37.5	38.0	38.1
36	ELECTRIC AND ELECTRONIC EQUIPMENT	865.7	870.3	923.7	914.8	913.1
361	Electric distributing equipment	43.9	44.1	46.0	45.2	44.3
3612	Transformers	19.2	19.6	20.3	20.4	19.8
3613	Switchgear and switchboard apparatus	24.7	24.5	25.7	24.8	24.5
362	Electrical industrial apparatus	98.1	99.1	98.5	99.0	99.3
3621	Motors and generators	55.6	56.2	54.1	54.8	55.0
3622	Industrial controls	29.3	29.4	30.0	30.0	29.9
363	Household appliances	56.6	58.1	62.9	60.8	60.3
3632	Household refrigerators and freezers	9.4	10.4	10.8	10.7	10.6
3633	Household laundry equipment	4.1	4.7	5.2	5.1	5.1
3634	Electric housewares and fans	25.5	25.3	28.3	26.3	25.8
364	Electric lighting and wiring equipment	105.2	105.0	107.9	106.0	105.1
3641	Electric lamps	25.2	24.4	24.8	24.1	23.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Jan. 1979	Feb. 1979	Dec. 1979	Jan. 1980	Feb. 1980
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	47.1	47.5	50.8	50.2	49.6
365	Radio and TV receiving equipment	59.6	58.5	60.0	57.7	56.9
3651	Radio and TV receiving sets	47.0	45.9	47.5	46.1	45.4
366	Communication equipment	167.0	187.6	206.9	207.2	208.9
3661	Telephone and telegraph apparatus	73.1	73.1	81.9	81.7	82.7
3662	Radio and TV communication equipment	113.9	114.5	125.0	125.5	126.2
367	Electronic components and accessories	256.8	259.7	284.7	283.4	283.1
3671-3	Electronic tubes	16.0	16.2	17.2	17.2	17.3
3674	Semiconductors and related devices	86.7	86.9	98.6	98.9	98.2
3679	Electronic components, nec	105.9	107.5	115.6	114.2	114.6
369	Misc. electrical equipment and supplies	58.5	58.2	56.8	55.5	55.2
3694	Engine electrical equipment	28.3	27.7	23.7	22.8	22.5
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	318.4	318.5	315.8	307.4	306.6
371	Motor vehicles and equipment	146.3	143.6	130.3	120.2	119.0
3711	Motor vehicles and car bodies	55.6	54.1	52.6	43.6	43.3
3713	Truck and bus bodies	5.5	5.6	5.3	5.3	5.5
3714	Motor vehicle parts and accessories	62.8	81.5	70.0	68.8	67.7
372	Aircraft and parts	103.6	105.7	117.6	118.3	117.7
3721	Aircraft	60.3	61.4	66.6	66.7	65.7
3724	Aircraft engines and engine parts	22.6	22.9	26.8	27.1	27.1
3728	Aircraft equipment, nec	20.7	21.4	24.2	24.5	24.9
373	Ship and boat building and repairing	23.6	23.0	22.4	22.1	22.3
3731	Ship building and repairing	14.4	13.6	15.5	15.3	15.4
374	Railroad equipment	5.5	6.0	6.7	6.7	6.7
376	Guided missiles, space vehicles, parts	19.1	19.9	21.9	22.2	22.5
3761	Guided missiles and space vehicles	15.9	16.6	18.2	18.3	18.6
379	Miscellaneous transportation equipment	14.3	14.0	10.3	10.7	10.9
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	288.0	289.7	297.4	297.3	299.0
381	Engineering and scientific instruments	21.2	21.4	23.6	23.6	23.8
382	Measuring and controlling devices	95.8	96.8	100.7	100.3	100.3
3822	Environmental controls	23.3	23.6	23.5	23.2	23.3
3823	Process control instruments	16.6	16.9	17.3	17.3	17.5
3825	Instruments to measure electricity	40.5	40.8	43.1	43.2	43.1
383	Optical instruments and lenses	9.9	9.9	11.7	11.7	11.8
384	Medical instruments and supplies	78.6	78.9	80.4	81.3	82.1
3841	Surgical and medical instruments	36.4	36.3	36.9	37.6	38.0
3842	Surgical appliances and supplies	34.0	34.2	35.6	35.8	36.2
385	Ophthalmic goods	25.3	25.5	26.6	26.9	26.9
386	Photographic equipment and supplies	38.2	38.0	38.1	38.0	38.0
387	Watches, clocks, and watchcases	19.0	19.2	16.3	15.5	16.1
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Jewelry, silverware, and plated ware	205.5	209.2	211.1	204.5	205.7
391	Jewelry, silverware, and plated ware	29.8	29.1	29.0	27.3	26.2
393	Musical instruments	12.0	11.4	10.6	10.3	10.1
394	Toys and sporting goods	54.8	58.7	61.1	59.4	61.3
3942, 4	Dolls, games, toys, and children's vehicles	26.6	29.5	30.8	29.1	30.2
3949	Sporting and athletic goods, nec	28.2	29.2	30.3	30.3	31.1
395	Pens, pencils, office and art supplies	21.8	22.0	24.0	23.8	24.1
396	Costume jewelry and notions	36.7	36.9	34.9	38.4	33.5
399	Miscellaneous manufactures	50.4	51.1	51.5	50.3	50.5
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS						
20	Meat products	479.2	470.2	496.0	474.5	469.5
201	Meat products	109.8	108.4	118.3	115.8	115.7
2011	Meat packing plants	27.5	26.8	29.8	29.8	29.6
2013	Sausages and other prepared meats	20.8	21.0	20.8	20.4	20.2
2016	Poultry dressing plants	54.4	53.8	60.5	58.1	58.1
202	Dairy products	36.1	35.6	37.1	36.2	36.1
2026	Fluid milk	19.0	18.7	19.0	19.0	18.9
203	Preserved fruits and vegetables	88.4	88.5	88.8	79.9	78.3
2032	Canned specialties	9.4	9.0	9.1	9.3	8.7
2033	Canned fruits and vegetables	23.2	23.9	25.5	22.5	22.2
2037	Frozen fruits and vegetables	22.7	23.1	22.6	18.2	18.1
204	Grain mill products	28.5	28.5	29.0	28.7	28.8
205	Bakery products	62.2	61.7	62.1	61.3	60.2
2051	Bread, cake, and related products	41.8	41.6	41.7	40.7	40.3
2052	Cookies and crackers	20.4	20.1	20.4	20.6	19.9
206	Sugar and confectionery products	43.0	41.2	46.6	43.1	42.0
207	Fats and oils	5.2	5.2	5.4	5.4	5.2
208	Beverages	35.5	35.1	38.4	36.4	36.6
2082	Malt beverages	5.9	5.8	6.5	6.5	6.7
2086	Bottled and canned soft drinks	16.6	16.6	17.6	17.3	17.4
209	Misc. foods and kindred products	70.5	66.0	70.3	67.7	66.6
TOBACCO MANUFACTURES						
21	Cigarettes	26.0	24.4	24.2	23.5	22.9
211	Cigarettes	13.9	13.7	13.5	13.5	13.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Jan. 1979	Feb. 1979	Dec. 1979	Jan. 1980	Feb. 1980
22	TEXTILE MILL PRODUCTS	421.2	421.3	425.8	420.8	423.0
221	Weaving mills, cotton	64.7	64.8	67.1	67.2	66.9
222	Weaving mills, synthetics	51.2	51.1	51.7	51.3	51.3
223	Weaving and finishing mills, wool	8.3	8.3	8.4	8.3	8.2
224	Narrow fabric mills	15.4	15.3	15.0	15.1	15.2
225	Knitting mills	147.7	147.5	149.6	146.4	149.6
2251	Women's hosiery, except socks	23.2	23.2	24.0	23.9	24.0
2252	Hosiery, nec	25.2	25.2	24.9	24.7	24.8
2253	Knit outerwear mills	51.3	51.0	52.9	50.1	52.6
2254	Knit underwear mills	25.5	25.7	25.4	25.2	25.6
2257	Circular knit fabric mills	12.9	12.9	12.9	12.9	13.2
226	Textile finishing, except wool	23.1	23.2	23.2	23.0	23.1
2261	Finishing plants, cotton	10.3	10.4	10.2	10.0	10.0
2262	Finishing plants, synthetic	6.2	6.2	6.4	6.3	6.3
227	Floor covering mills	25.1	25.2	24.4	23.9	23.7
228	Yarn and thread mills	64.6	64.7	65.4	65.0	64.5
2281	Yarn mills, except wool	41.0	41.3	42.1	41.8	41.2
2282	Throwing and winding mills	12.5	12.4	12.1	12.0	12.0
229	Miscellaneous textile goods	21.1	21.2	21.0	20.6	20.5
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,065.7	1,071.9	1,047.7	1,043.0	1,061.2
231	Men's and boys' suits and coats	68.4	69.0	64.7	64.3	65.0
232	Men's and boys' furnishings	301.7	306.1	310.6	310.6	315.5
2321	Men's and boys' shirts and nightwear	92.1	92.7	91.5	90.8	91.9
2327	Men's and boys' separate trousers	64.4	65.3	66.2	66.2	67.1
2328	Men's and boys' work clothing	60.2	62.7	68.2	69.4	69.9
233	Women's and misses' outerwear	381.2	381.7	362.1	364.3	374.1
2331	Women's and misses' blouses and waists	55.1	55.2	50.4	50.7	51.7
2335	Women's and misses' dresses	148.1	147.4	144.2	147.6	150.4
2337	Women's and misses' suits and coats	51.8	52.8	46.5	44.9	47.4
2339	Women's and misses' outerwear, nec	126.2	126.3	121.0	121.1	124.6
234	Women's and children's undergarments	77.5	78.0	77.3	76.5	77.1
2341	Women's and children's underwear	61.6	62.2	61.4	61.0	61.4
2342	Brassieres and allied garments	15.9	15.8	15.9	15.5	15.7
236	Children's outerwear	56.6	58.3	55.1	56.1	57.6
2361	Children's dresses and blouses	23.1	23.2	21.6	21.8	22.3
238	Misc. apparel and accessories	43.5	44.7	42.6	41.4	41.9
239	Misc. fabricated textile products	123.6	120.5	122.2	117.2	117.2
2391	Curtains and draperies	24.2	23.5	25.3	24.3	24.0
2392	House furnishings, nec	32.0	30.7	34.3	33.4	32.9
2396	Automotive and apparel trimmings	19.8	19.1	17.7	16.0	16.5
28	PAPER AND ALLIED PRODUCTS	160.2	159.7	162.6	162.1	161.8
261, 2, 6	Paper and pulp mills	24.7	24.6	26.8	26.7	26.6
262	Paper mills, except building paper	21.9	21.9	23.6	23.5	23.4
263	Paperboard mills	6.2	6.3	6.6	6.6	6.6
264	Misc. converted paper products	77.1	76.9	76.9	76.8	76.8
265	Paperboard containers and boxes	52.2	51.9	52.3	52.0	51.8
27	PRINTING AND PUBLISHING	472.4	474.5	504.3	503.0	504.9
271	Newspapers	147.2	148.2	160.2	160.3	160.7
272	Periodicals	50.7	49.9	51.8	52.6	51.9
273	Books	54.6	55.0	57.0	57.4	57.7
274	Miscellaneous publishing	26.2	26.3	27.1	26.8	26.8
275	Commercial printing	124.8	125.9	134.0	131.9	133.6
2751	Commercial printing, letterpress	56.5	56.4	59.4	57.1	58.6
2752	Commercial printing, lithographic	63.0	64.1	68.9	68.8	68.9
276	Manifold business forms	14.8	15.0	16.1	16.2	16.0
278	Blankbooks and bookbinding	32.8	33.0	35.0	35.2	35.5
279	Printing trade services	8.7	8.4	9.5	9.6	9.7
28	CHEMICALS AND ALLIED PRODUCTS	263.8	264.0	275.7	274.4	276.2
281	Industrial inorganic chemicals	23.6	23.7	25.4	25.7	25.7
2819	Industrial inorganic chemicals, nec	15.9	16.0	16.7	16.9	16.9
282	Plastics materials and synthetics	45.5	45.8	46.7	46.8	46.7
2821	Plastics materials and resins	10.5	10.6	11.3	11.2	11.2
2824	Organic fibers, noncellulosic	26.4	26.6	26.1	26.2	25.9
283	Drugs	77.0	76.5	80.0	80.3	80.9
2834	Pharmaceutical preparations	65.7	65.3	68.3	68.6	69.1
284	Soap, cleaners, and toilet goods	53.3	53.3	56.1	54.4	55.3
2841	Soap and other detergents	9.3	9.1	8.7	8.7	8.6
2844	Toilet preparations	30.9	31.0	34.2	32.5	33.5
285	Paints and allied products	12.5	12.4	13.0	12.9	13.0
286	Industrial organic chemicals	23.7	23.9	24.7	24.5	24.4
2861, 9	Gum, wood, and industrial organic chemicals, nec	19.2	19.3	19.6	19.5	19.4
287	Agricultural chemicals	9.4	9.5	10.1	10.2	10.3
289	Miscellaneous chemical products	18.8	18.9	19.7	19.6	19.9

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Jan. 1979	Feb. 1979	Dec. 1979	Jan. 1980	Feb. 1980
29	PETROLEUM AND COAL PRODUCTS	24.8	24.8	28.1	28.2	23.7
291	Petroleum refining	19.8	19.8	22.9	23.1	18.3
30	RUBBER AND MISC. PLASTICS PRODUCTS	269.2	270.6	263.3	261.5	259.5
301	Tires and inner tubes	12.3	12.4	11.5	11.2	11.1
302	Rubber and plastics footwear	14.4	14.3	13.5	14.1	13.7
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.0	6.1	5.9	5.8	5.6
306	Fabricated rubber products, nec	41.0	41.1	38.1	37.9	37.1
307	Miscellaneous plastics products	195.5	196.7	194.3	192.5	192.0
31	LEATHER AND LEATHER PRODUCTS	148.9	147.9	145.3	142.7	144.2
311	Leather tanning and finishing	3.2	3.1	2.7	2.7	2.7
314	Footwear, except rubber	100.3	99.2	96.2	96.5	97.3
3143	Men's footwear, except athletic	38.6	37.7	35.5	35.6	35.2
3144	Women's footwear, except athletic	42.4	41.4	41.8	42.5	42.2
316	Luggage	8.7	9.1	9.3	8.2	8.5
317	Handbags and personal leather goods	22.5	22.7	23.2	21.8	22.6
	TRANSPORTATION AND PUBLIC UTILITIES	1,195	1,200	1,271	1,264	1,269
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	59.5	59.4	65.6	64.8	65.8
411	Local and suburban transportation	10.1	10.3	12.0	12.1	12.4
412	Taxicabs	7.7	7.7	7.8	7.5	7.5
413	Intercity highway transportation	4.5	4.4	5.2	5.0	5.0
415	School buses	34.7	34.6	38.2	37.7	38.3
42	TRUCKING AND WAREHOUSING	147.5	148.2	162.5	158.0	156.6
421,3	Trucking and trucking terminals	131.4	132.2	143.5	140.9	139.7
422	Public warehousing	16.1	16.0	19.0	17.1	16.9
44	WATER TRANSPORTATION	18.7	18.1	20.1	19.6	19.3
45	TRANSPORTATION BY AIR	131.6	132.2	139.5	139.7	139.3
451,2	Air transportation	124.8	125.1	131.8	132.1	131.4
46	PIPE LINES, EXCEPT NATURAL GAS	2.0	2.0	2.1	2.1	2.1
47	TRANSPORTATION SERVICES	78.9	80.9	90.1	90.9	90.9
48	COMMUNICATION	599.7	601.8	621.7	618.4	622.9
481	Telephone communication	526.7	528.8	540.5	537.3	540.8
483	Radio and television broadcasting	56.9	57.0	62.8	63.1	63.5
49	ELECTRIC, GAS, AND SANITARY SERVICES	136.0	136.2	146.7	147.3	148.5
491	Electric services	60.9	60.9	67.1	67.4	68.0
492	Gas production and distribution	34.1	34.1	35.1	35.0	35.2
493	Combination utility services	31.9	32.0	34.2	34.5	35.0
495	Sanitary services	4.4	4.5	5.3	5.4	5.3
	WHOLESALE AND RETAIL TRADE	8,449	8,300	9,276	8,791	8,661
50,51	WHOLESALE TRADE	1,281	1,278	1,347	1,337	1,342
50	WHOLESALE TRADE-DURABLE GOODS	702	701	741	743	744
501	Motor vehicles and automotive equipment	92.4	92.0	93.9	93.7	92.2
502	Furniture and home furnishings	36.9	37.1	40.2	40.0	40.8
503	Lumber and construction materials	30.2	30.5	33.0	32.8	33.0
504	Sporting goods, toys, and hobby goods	22.8	22.9	23.1	22.2	21.7
506	Metals and minerals, except petroleum	26.9	27.0	29.0	29.0	28.8
506	Electrical goods	112.9	113.3	120.5	121.2	121.0
507	Hardware, plumbing, and heating equipment	65.0	64.5	70.1	69.8	69.7
508	Machinery, equipment, and supplies	265.1	265.3	281.9	285.7	287.7
509	Miscellaneous durable goods	49.6	48.8	49.3	48.9	49.5
51	WHOLESALE TRADE-NONDURABLE GOODS	579	577	606	594	598
511	Paper and paper products	39.6	39.4	41.7	41.7	41.8
512	Drugs, proprietaries, and sundries	61.6	62.0	67.3	67.9	67.3
513	Apparel, piece goods, and notions	78.6	79.6	83.2	82.9	84.0
514	Groceries and related products	145.1	141.7	147.0	141.5	141.9
516	Chemicals and allied products	29.2	29.3	30.5	30.4	30.7
517	Petroleum and petroleum products	48.5	47.8	50.1	50.4	51.5
518	Beer, wine, and distilled beverages	20.1	20.2	21.9	21.6	21.5
519	Miscellaneous nondurable goods	113.9	115.2	124.0	121.7	123.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Jan. 1979	Feb. 1979	Dec. 1979	Jan. 1980	Feb. 1980
52-59	RETAIL TRADE	7,168	7,022	7,929	7,454	7,319
52	BUILDING MATERIALS AND GARDEN SUPPLIES	148.1	149.9	163.3	156.7	158.1
521	Lumber and other building materials	59.5	59.1	64.5	64.3	64.0
525	Hardware stores	51.0	50.4	56.9	55.4	54.8
53	GENERAL MERCHANDISE STORES	1,610.0	1,491.3	1,748.3	1,574.2	1,472.6
531	Department stores	1,294.7	1,192.8	1,393.1	1,259.8	1,174.0
533	Variety stores	224.2	211.5	239.7	214.8	202.0
539	Misc. general merchandise stores	91.1	87.0	115.5	99.6	96.6
54	FOOD STORES	924.0	923.2	1,013.1	979.0	983.2
541	Grocery stores	773.5	771.8	841.9	828.4	828.1
542	Meat markets and freezer provisioners	15.9	16.1	17.9	18.2	17.8
546	Retail bakeries	73.4	72.3	79.2	75.9	76.4
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	307.0	308.0	319.6	316.9	315.2
551,2	New and used car dealers	125.6	126.1	124.8	123.3	123.2
553	Auto and home supply stores	47.0	45.0	48.8	47.7	45.5
554	Gasoline service stations	119.9	121.9	129.9	128.5	128.7
56	APPAREL AND ACCESSORY STORES	643.0	616.1	752.2	669.5	641.6
561	Men's and boys' clothing and furnishings	63.5	59.1	77.1	66.1	61.0
562	Women's ready-to-wear stores	312.4	302.9	355.5	320.3	308.8
565	Family clothing stores	128.2	121.0	163.8	139.6	133.3
566	Shoe stores	70.1	67.8	81.2	75.0	72.9
57	FURNITURE AND HOME FURNISHING STORES	194.7	193.4	208.3	205.3	203.4
571	Furniture and home furnishings	128.5	127.1	133.4	131.1	130.3
572	Household appliance stores	24.7	24.7	24.7	24.5	23.8
573	Radio, television, and music stores	41.5	41.6	50.2	49.7	49.3
58	EATING AND DRINKING PLACES	2,354.3	2,369.4	2,612.1	2,539.6	2,534.6
59	MISCELLANEOUS RETAIL	987.1	970.5	1,112.4	1,012.9	1,010.4
591	Drug stores and proprietary stores	305.4	297.4	334.3	322.7	317.0
592	Liquor stores	29.5	30.4	35.9	34.5	33.5
594	Miscellaneous shopping goods stores	335.0	327.7	412.5	351.2	348.8
596	Nonstore retailers	159.9	152.0	164.9	148.5	145.8
598	Fuel and ice dealers	23.4	23.3	23.5	23.4	23.3
599	Retail stores, nec	112.2	118.8	120.8	112.6	121.9
	FINANCE, INSURANCE, AND REAL ESTATE	2,800	2,812	2,957	2,966	2,980
60	BANKING	1,015.8	1,020.1	1,070.5	1,076.4	1,080.9
602	Commercial and stock savings banks	934.6	938.5	985.2	990.6	994.8
61	CREDIT AGENCIES OTHER THAN BANKS	346.0	348.7	373.3	369.0	370.8
612	Savings and loan associations	166.4	167.1	180.4	180.0	179.7
614	Personal credit institutions	116.7	118.4	129.0	125.5	127.4
62	SECURITY, COMMODITY BROKERS, AND SERVICES	76.5	77.2	84.8	84.9	84.2
621	Security brokers and dealers	60.4	61.1	67.2	67.4	66.3
63	INSURANCE CARRIERS	713.4	718.4	742.6	743.6	748.9
631	Life insurance	272.1	273.9	281.5	283.1	286.3
632	Medical service and health insurance	99.6	100.1	101.9	101.9	102.2
633	Fire, marine, and casualty insurance	291.7	294.1	307.7	308.1	310.2
64	INSURANCE AGENTS, BROKERS, AND SERVICE	257.4	255.4	268.8	274.6	275.3
65	REAL ESTATE	321.8	322.2	341.2	342.5	343.9
651	Real estate operators and lessors	131.4	128.7	135.2	136.0	137.7
653	Real estate agents and managers	143.5	146.1	156.6	157.1	157.3
655	Subdividers and developers	30.2	30.5	32.3	32.3	32.5
66	COMBINED REAL ESTATE, INSURANCE, ETC	16.8	16.9	17.7	17.6	17.5
67	HOLDING AND OTHER INVESTMENT OFFICES	52.1	53.0	57.7	57.4	58.0
	SERVICES	9,537	9,632	10,094	10,027	10,148
70	HOTELS AND OTHER LODGING PLACES	483.4	489.3	536.7	524.1	529.1
701	Hotels, motels, and tourist courts	465.2	471.0	514.3	504.0	508.3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Jan. 1979	Feb. 1979	Dec. 1979	Jan. 1980	Feb. 1980
72	PERSONAL SERVICES	604.8	610.8	606.4	613.9	621.7
721	Laundry, cleaning, and garment services	222.3	220.2	220.6	219.9	217.7
723	Beauty shops	249.1	248.8	248.0	243.0	239.3
728	Funeral service and crematories	18.5	18.3	19.2	19.5	19.4
73	BUSINESS SERVICES	1,164.8	1,155.9	1,270.4	1,237.5	1,236.0
731	Advertising	62.2	67.0	70.6	70.8	70.7
732	Credit reporting and collection	56.9	56.9	54.2	52.4	52.6
733	Mailing, reproduction, stenographic	51.4	50.5	55.3	52.9	52.4
734	Services to buildings	166.0	163.3	185.8	181.6	181.3
738	Personnel supply services	278.1	264.8	309.6	291.8	291.3
737	Computer and data processing services	115.7	116.8	129.9	129.1	130.6
75	AUTO REPAIR, SERVICES, AND GARAGES	91.1	92.4	94.5	95.3	95.5
753	Automotive repair shops	40.8	41.7	41.2	42.0	41.6
76	MISCELLANEOUS REPAIR SERVICES	53.3	53.4	60.9	60.4	61.1
78	MOTION PICTURES	76.5	74.8	78.5	75.0	73.5
781	Motion picture production and services	22.6	22.5	25.1	23.1	23.0
783	Motion picture theaters	48.0	46.4	47.6	46.1	44.6
79	AMUSEMENT AND RECREATION SERVICES	244.3	250.5	247.3	240.2	246.9
80	HEALTH SERVICES	3,996.7	4,015.0	4,193.7	4,219.9	4,244.5
801	Offices of physicians	544.4	547.8	569.6	573.9	575.3
802	Offices of dentists	263.8	263.7	277.4	281.9	283.4
805	Nursing and personal care facilities	844.0	844.2	897.7	908.5	910.6
806	Hospitals	2,090.2	2,102.0	2,175.6	2,181.5	2,196.4
81	LEGAL SERVICES	318.3	321.6	337.9	337.7	340.0
82	EDUCATIONAL SERVICES	531.7	561.8	572.8	541.4	576.7
821	Elementary and secondary schools	146.8	148.5	153.3	153.5	152.7
822	Colleges and universities	322.5	349.4	351.8	320.8	355.6
83	SOCIAL SERVICES	741.5	755.1	785.0	786.2	798.8
89	MISCELLANEOUS SERVICES	275.6	280.8	299.1	306.1	316.3
891	Engineering and architectural services	55.4	95.3	107.5	108.3	110.3
893	Accounting, auditing, and bookkeeping	125.7	130.4	131.7	137.1	143.1
	GOVERNMENT	7,297	7,428	7,672	7,587	7,743
	FEDERAL GOVERNMENT	856	859	876	880	898
	STATE AND LOCAL GOVERNMENT	6,441	6,569	6,796	6,707	6,845
	State government	1,507.5	1,552.7	1,625.2	1,581.7	1,634.3
	Hospitals	328.6	327.2	343.6	351.4	358.0
	State education	611.1	655.4	707.9	655.7	702.9
	General administration including executive, legislative, and judicial functions	382.0	384.1	381.8	381.1	379.8
	Local government	4,933.9	5,016.1	5,171.0	5,125.1	5,210.5
	Transportation and public utilities	83.4	84.6	91.8	91.9	92.6
	Hospitals	402.8	404.1	433.2	435.0	437.8
	Local education	3,390.0	3,463.4	3,529.0	3,482.3	3,546.7
	General administration including executive, legislative, and judicial functions	874.2	878.4	918.1	915.3	928.1

**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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. P	Apr. p
TOTAL	89,036	89,398	89,626	89,713	89,762	89,803	89,982	90,100	90,241	90,652	90,845	90,799	90,320
GOODS-PRODUCING	26,565	26,651	26,674	26,723	26,599	26,593	26,572	26,533	26,655	26,783	26,732	26,597	26,189
MINING	940	944	949	956	968	973	979	983	991	1,000	1,009	1,010	1,016
CONSTRUCTION	4,559	4,648	4,662	4,688	4,674	4,671	4,694	4,714	4,783	4,893	4,831	4,698	4,558
MANUFACTURING	21,066	21,059	21,063	21,079	20,957	20,949	20,899	20,836	20,881	20,890	20,892	20,889	20,615
DURABLE GOODS	12,752	12,739	12,760	12,786	12,714	12,737	12,650	12,587	12,615	12,601	12,655	12,658	12,395
Lumber and wood products	761	762	757	753	752	758	760	751	740	737	740	729	685
Furniture and fixtures	490	487	485	488	484	480	482	483	483	484	481	481	477
Stone, clay, and glass products	714	715	715	711	710	708	709	704	706	708	709	704	687
Primary metal industries	1,260	1,254	1,257	1,256	1,245	1,236	1,226	1,223	1,208	1,208	1,210	1,205	1,195
Fabricated metal products	1,732	1,730	1,737	1,730	1,714	1,716	1,723	1,726	1,725	1,712	1,724	1,722	1,690
Machinery, except electrical	2,466	2,471	2,484	2,500	2,492	2,496	2,455	2,438	2,444	2,512	2,511	2,516	2,513
Electric and electronic equipment	2,101	2,106	2,124	2,131	2,092	2,117	2,125	2,125	2,140	2,149	2,147	2,160	2,151
Transportation equipment	2,084	2,077	2,057	2,073	2,079	2,086	2,025	1,994	1,938	1,980	1,980	1,984	1,845
Instruments and related products	689	688	693	694	695	692	696	694	698	700	703	707	705
Miscellaneous manufacturing ind.	455	449	451	450	451	448	449	449	452	453	450	450	447
NONDURABLE GOODS	8,314	8,320	8,303	8,293	8,243	8,212	8,249	8,249	8,266	8,289	8,237	8,231	8,220
Food and kindred products	1,728	1,725	1,720	1,707	1,696	1,691	1,707	1,710	1,715	1,707	1,705	1,698	1,686
Tobacco manufactures	69	70	69	68	64	65	65	60	62	64	65	65	65
Textile mill products	892	893	892	892	886	884	887	889	893	891	891	893	894
Apparel and other textile products	1,325	1,324	1,312	1,324	1,302	1,294	1,299	1,292	1,297	1,309	1,312	1,312	1,308
Paper and allied products	717	714	715	718	717	714	715	714	713	718	717	718	714
Printing and publishing	1,234	1,236	1,242	1,250	1,247	1,245	1,252	1,262	1,263	1,273	1,278	1,279	1,277
Chemicals and allied products	1,111	1,114	1,119	1,116	1,111	1,110	1,113	1,114	1,119	1,123	1,121	1,122	1,125
Petroleum and coal products	213	213	212	212	213	215	217	217	217	219	163	160	181
Rubber and misc. plastic products	781	784	775	777	764	751	751	749	745	745	744	744	732
Leather and leather products	244	247	247	229	243	243	243	242	242	240	241	240	238
SERVICE-PRODUCING	62,471	62,747	62,952	62,990	63,163	63,210	63,410	63,567	63,586	63,869	64,113	64,202	64,131
TRANSPORTATION AND PUBLIC UTILITIES	5,024	5,130	5,190	5,169	5,194	5,180	5,218	5,229	5,223	5,212	5,210	5,212	5,186
WHOLESALE AND RETAIL TRADE	20,088	20,129	20,116	20,122	20,126	20,169	20,243	20,308	20,254	20,428	20,521	20,498	20,367
WHOLESALE TRADE	5,138	5,156	5,180	5,182	5,185	5,190	5,209	5,235	5,218	5,248	5,274	5,280	5,250
RETAIL TRADE	14,950	14,973	14,936	14,940	14,941	14,979	15,034	15,073	15,036	15,180	15,247	15,218	15,117
FINANCE, INSURANCE, AND REAL ESTATE	4,915	4,936	4,958	4,972	5,003	4,997	5,018	5,039	5,056	5,081	5,092	5,103	5,108
SERVICES	16,880	16,954	17,051	17,092	17,141	17,191	17,257	17,298	17,357	17,442	17,522	17,540	17,546
GOVERNMENT	15,564	15,598	15,637	15,635	15,699	15,673	15,674	15,693	15,696	15,706	15,768	15,849	15,924
FEDERAL	2,758	2,770	2,788	2,785	2,813	2,762	2,770	2,771	2,771	2,791	2,823	2,884	2,952
STATE AND LOCAL	12,806	12,828	12,849	12,850	12,886	12,911	12,904	12,922	12,925	12,915	12,945	12,965	12,972

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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
TOTAL	36,385	36,517	36,669	36,789	36,916	37,102	37,262	37,144	37,324	37,512	37,539	37,789	37,968	
GOODS-PRODUCING	6,877	6,899	6,920	6,939	6,960	6,971	6,907	6,906	6,942	6,948	6,985	7,019	7,024	
MINING	85	87	87	89	91	92	94	94	94	95	97	97	99	
CONSTRUCTION	353	357	362	367	374	379	380	383	385	389	390	393	393	
MANUFACTURING	6,439	6,455	6,471	6,483	6,495	6,500	6,433	6,429	6,463	6,464	6,498	6,529	6,532	
DURABLE GOODS	3,053	3,069	3,082	3,087	3,102	3,109	3,068	3,082	3,094	3,092	3,116	3,125	3,130	
Lumber and wood products	113	114	114	114	113	113	113	114	115	113	112	111	111	
Furnitures and fixtures	146	145	145	144	145	146	145	143	142	142	144	144	143	
Stone, clay, and glass products	132	134	134	134	135	134	133	134	134	134	136	135	135	
Primary metal industries	131	131	134	134	138	137	135	134	134	133	132	131	131	
Fabricated metal products	360	361	361	362	363	363	360	359	362	363	364	365	365	
Machinery, except electrical	460	464	469	473	473	479	478	482	482	482	485	496	497	
Electric and electronic equipment	877	884	887	892	902	907	888	898	903	904	917	919	920	
Transportation equipment	326	326	326	326	323	321	307	312	314	313	315	309	314	
Instruments and related products	291	293	294	295	296	296	296	295	296	295	296	298	300	
Miscellaneous manufacturing ind.	217	217	218	213	214	213	213	211	212	213	215	217	214	
NONDURABLE GOODS	3,386	3,386	3,389	3,396	3,393	3,391	3,365	3,347	3,369	3,372	3,382	3,404	3,402	
Food and kindred products	507	509	508	511	511	502	495	488	501	503	507	507	506	
Tobacco manufactures	25	25	26	26	25	24	23	24	24	21	22	23	23	
Textile mill products	424	423	422	422	424	422	422	421	421	424	426	425	426	
Apparel and other textile products	1,075	1,071	1,072	1,072	1,062	1,073	1,056	1,049	1,053	1,048	1,052	1,064	1,064	
Paper and allied products	163	165	165	164	164	165	164	164	164	163	162	164	165	
Printing and publishing	476	477	479	479	482	487	488	491	494	498	500	505	507	
Chemicals and allied products	268	268	269	271	273	274	271	271	273	276	277	278	280	
Petroleum and coal products ¹	25	25	26	26	27	27	27	28	28	28	28	29	24	
Rubber and misc. plastics products	273	273	273	275	275	279	272	263	264	264	262	263	261	
Leather and leather products	150	150	149	150	150	138	147	148	147	147	146	146	146	
SERVICE-PRODUCING	29,508	29,618	29,749	29,850	29,956	30,131	30,355	30,238	30,382	30,564	30,554	30,770	30,944	
TRANSPORTATION AND PUBLIC UTILITIES	1,205	1,209	1,202	1,244	1,233	1,236	1,243	1,251	1,252	1,267	1,265	1,264	1,274	
WHOLESALE AND RETAIL TRADE ..	8,552	8,595	8,627	8,673	8,670	8,684	8,695	8,713	8,744	8,783	8,730	8,871	8,923	
WHOLESALE TRADE	1,290	1,297	1,297	1,307	1,310	1,317	1,317	1,318	1,322	1,335	1,334	1,342	1,354	
RETAIL TRADE	7,262	7,298	7,330	7,366	7,360	7,367	7,378	7,395	7,422	7,448	7,396	7,529	7,569	
FINANCE, INSURANCE, AND REAL ESTATE	2,826	2,837	2,850	2,862	2,880	2,892	2,912	2,916	2,935	2,948	2,957	2,984	2,995	
SERVICES	9,710	9,754	9,798	9,846	9,898	9,939	10,003	10,015	10,065	10,091	10,114	10,169	10,230	
GOVERNMENT	7,215	7,223	7,272	7,255	7,275	7,380	7,502	7,343	7,386	7,475	7,488	7,482	7,522	
FEDERAL	862	862	861	866	875	874	891	878	882	880	884	887	902	
STATE AND LOCAL	6,353	6,361	6,411	6,389	6,400	6,506	6,611	6,465	6,504	6,595	6,604	6,595	6,620	

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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. ^P	Apr. ^P
TOTAL PRIVATE	60,051	60,326	60,495	60,544	60,475	60,528	60,668	60,746	60,841	61,142	61,271	61,099	60,547
GOODS-PRODUCING	19,475	19,542	19,537	19,560	19,415	19,416	19,371	19,314	19,421	19,507	19,444	19,269	18,874
MINING	708	708	709	713	725	730	733	733	739	746	752	751	757
CONSTRUCTION	3,633	3,722	3,732	3,757	3,734	3,729	3,744	3,752	3,817	3,913	3,866	3,696	3,561
MANUFACTURING	15,134	15,112	15,096	15,090	14,956	14,957	14,894	14,829	14,865	14,848	14,826	14,822	14,556
DURABLE GOODS	9,146	9,119	9,123	9,124	9,044	9,066	8,972	8,908	8,931	8,894	8,926	8,934	8,672
Lumber and wood products	649	649	646	643	642	646	649	639	627	623	625	615	572
Furniture and fixtures	401	397	395	398	394	392	394	394	394	395	392	392	388
Stone, clay, and glass products	563	564	565	560	558	557	557	553	554	556	556	551	534
Primary metal industries	995	987	991	988	976	970	960	954	943	942	943	939	929
Fabricated metal products	1,314	1,310	1,316	1,309	1,291	1,295	1,298	1,300	1,298	1,286	1,296	1,296	1,264
Machinery, except electrical	1,625	1,628	1,632	1,641	1,628	1,637	1,601	1,591	1,590	1,642	1,637	1,641	1,631
Electric and electronic equipment	1,384	1,384	1,393	1,395	1,359	1,375	1,380	1,376	1,388	1,397	1,391	1,400	1,392
Transportation equipment	1,446	1,438	1,417	1,426	1,431	1,433	1,371	1,342	1,371	1,286	1,320	1,327	1,191
Instruments and related products	423	421	424	422	421	420	421	418	421	422	424	430	430
Miscellaneous manufacturing ind.	346	341	344	342	344	341	341	341	345	345	342	343	341
NONDURABLE GOODS	5,988	5,993	5,973	5,966	5,912	5,891	5,922	5,921	5,934	5,954	5,900	5,888	5,884
Food and kindred products	1,187	1,184	1,181	1,170	1,157	1,153	1,169	1,171	1,180	1,175	1,171	1,162	1,154
Tobacco manufactures	56	56	55	54	50	52	52	46	48	50	51	51	50
Textile mill products	777	778	777	778	771	769	772	776	778	779	778	780	781
Apparel and other textile products	1,131	1,133	1,122	1,130	1,110	1,104	1,109	1,102	1,106	1,117	1,120	1,120	1,116
Paper and allied products	543	541	541	547	545	543	543	542	542	544	545	546	542
Printing and publishing	696	700	701	707	705	703	708	715	713	720	721	720	719
Chemicals and allied products	636	636	640	639	634	635	637	638	641	643	640	639	645
Petroleum and coal products	140	139	139	138	139	140	140	141	142	142	92	88	107
Rubber and misc. plastics products	614	616	607	609	599	585	585	585	580	581	579	579	569
Leather and leather products	208	210	210	194	206	207	207	205	204	203	203	203	201
SERVICE-PRODUCING	40,576	40,784	40,958	40,984	41,060	41,112	41,297	41,432	41,420	41,635	41,827	41,830	41,673
TRANSPORTATION AND PUBLIC UTILITIES	4,197	4,293	4,351	4,333	4,348	4,337	4,370	4,380	4,368	4,350	4,355	4,359	4,345
WHOLESALE AND RETAIL TRADE ..	17,662	17,691	17,689	17,681	17,689	17,721	17,789	17,848	17,802	17,947	18,033	17,996	17,866
WHOLESALE TRADE	4,221	4,237	4,257	4,255	4,256	4,259	4,279	4,295	4,289	4,305	4,325	4,330	4,303
RETAIL TRADE	13,441	13,454	13,432	13,426	13,433	13,462	13,510	13,553	13,513	13,642	13,708	13,666	13,563
FINANCE, INSURANCE, AND REAL ESTATE	3,743	3,756	3,777	3,788	3,804	3,794	3,804	3,814	3,824	3,840	3,858	3,866	3,871
SERVICES	14,974	15,044	15,141	15,182	15,219	15,260	15,334	15,390	15,426	15,498	15,581	15,609	15,591

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	51.2p
October.....	69.8	61.0	61.6	47.4p
November.....	59.9	66.6	65.7	
December.....	59.0	64.5	62.2p	
1980				
January.....	63.4	62.5	45.6p	
February.....	55.8	54.4p		
March.....	45.1p	36.3p		
April.....	27.9p			
May.....				
June.....				
July.....				
August.....				
September.....				
October.....				
November.....				
December.....				

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

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
1 ALABAMA	1,348.8	1,364.1	1,362.4	16.1	17.1	17.2	72.1	65.6	66.2	373.8	370.6	369.9
2 Birmingham	354.6	360.1	360.8	9.8	10.0	10.0	20.9	20.5	20.8	70.6	69.4	69.5
3 Huntsville	118.5	119.4	119.4	(1)	(1)	(1)	4.6	4.1	4.1	36.3	35.7	36.1
4 Mobile	147.3	149.2	148.3	(1)	(1)	(1)	10.4	11.3	10.6	30.6	30.0	30.0
5 Montgomery	105.7	108.8	108.9	(1)	(1)	(1)	7.4	9.2	9.1	15.8	16.7	16.7
6 Tuscaloosa	49.9	50.8	50.2	1.1	1.6	1.7	2.6	2.4	2.5	9.1	9.5	8.6
7 ALASKA	158.4	161.4	163.6	5.7	6.0	6.2	7.5	7.4	7.9	9.2	9.1	9.8
8 ARIZONA	970.0	1,002.5	1,005.9	20.5	23.3	23.4	83.4	77.1	75.6	137.5	150.4	151.3
9 Phoenix	608.0	629.3	631.4	.2	.3	.3	54.9	50.4	49.7	102.2	111.1	111.7
10 Tucson	175.1	182.8	183.5	6.2	7.4	7.4	15.0	15.0	14.6	17.4	19.8	20.0
11 ARKANSAS	742.9	746.8	754.3	4.6	4.8	4.8	38.4	34.6	36.4	216.5	214.5	215.8
12 Fayetteville—Springdale	63.7	64.7	65.8	(1)	(1)	(1)	3.0	3.2	3.4	19.2	19.0	19.2
13 Fort Smith	68.1	66.2	66.4	.7	.8	.9	2.9	2.7	2.8	24.4	23.0	22.7
14 Little Rock—North Little Rock	179.0	179.8	180.9	(1)	(1)	(1)	9.2	8.1	8.4	31.5	31.3	31.5
15 Pine Bluff	31.9	31.9	32.1	(1)	(1)	(1)	2.3	2.2	2.3	6.2	6.0	6.0
16 CALIFORNIA	9,521.9	9,728.2	9,787.4	38.0	39.8	40.2	435.1	432.5	432.3	1,971.2	1,995.9	2,001.6
17 Anaheim—Santa Ana—Garden Grove	788.9	822.8	827.9	2.3	2.1	2.1	47.7	47.5	47.3	213.5	221.4	221.5
18 Bakersfield	122.5	125.8	125.9	10.6	10.2	10.4	6.5	6.4	6.3	9.0	8.9	8.9
19 Fresno	176.5	182.3	184.4	.9	.9	.9	11.7	12.6	12.9	22.3	21.8	22.8
20 Los Angeles—Long Beach	3,576.3	3,661.1	3,678.9	11.5	12.0	12.1	115.3	114.2	115.1	929.5	937.8	941.6
21 Modesto	82.7	86.5	87.1	.1	.1	.1	6.0	6.6	6.7	17.2	17.4	17.6
22 Oxnard—Simi Valley—Ventura	143.7	148.5	148.8	2.4	2.1	2.2	8.0	8.6	8.6	22.6	24.2	24.0
23 Riverside—San Bernardino—Ontario	425.3	442.3	445.1	2.4	2.6	2.6	27.7	29.4	29.4	66.5	67.4	67.8
24 Sacramento	382.4	398.9	400.8	.4	.4	.4	21.3	22.5	23.1	26.1	26.2	26.6
25 Salinas—Seaside—Monterey	84.9	85.8	86.2	.7	.6	.7	3.5	3.5	3.2	9.3	8.3	8.9
26 San Diego	626.0	646.3	647.1	.7	.7	.7	40.8	39.2	38.6	98.1	104.2	103.8
27 San Francisco—Oakland	1,502.9	1,520.8	1,528.8	2.3	2.4	2.4	71.0	71.8	71.8	202.7	200.6	200.8
28 San Jose	615.4	648.7	654.2	.1	.2	.2	23.9	24.5	24.3	213.3	231.5	232.5
29 Santa Barbara—Santa Maria—Lompoc	117.8	119.7	121.1	1.1	1.2	1.2	5.0	5.2	5.2	16.3	15.6	16.6
30 Santa Rosa	85.8	89.9	89.9	.4	.4	.4	5.4	5.7	5.6	13.6	14.2	14.2
31 Stockton	113.0	116.0	116.4	.1	.1	.1	5.8	6.0	6.0	19.1	19.1	19.0
32 Vallejo—Fairfield—Napa	94.3	96.4	97.7	.2	.3	.3	4.5	4.7	4.7	10.0	10.1	10.1
33 COLORADO	1,192.8	1,237.7	1,246.4	28.7	31.7	31.7	72.0	78.2	79.8	175.5	182.3	183.7
34 Denver—Boulder	761.3	791.6	796.2	15.2	16.9	17.1	44.5	46.6	47.0	121.6	125.0	126.5
35 CONNECTICUT	1,378.0	1,397.7	1,404.7	(2)	(2)	(2)	43.4	41.9	40.8	435.6	440.7	442.7
36 Bridgeport	163.0	164.6	166.0	(2)	(2)	(2)	4.7	5.0	4.8	64.9	66.0	66.1
37 Hartford	381.3	391.0	393.9	(2)	(2)	(2)	10.6	10.7	10.5	95.2	95.0	99.7
38 New Britain	61.2	61.8	61.9	(2)	(2)	(2)	1.7	1.7	1.6	29.8	29.6	29.6
39 New Haven—West Haven	190.1	189.3	190.5	(2)	(2)	(2)	5.9	5.2	4.7	45.5	43.3	44.2
40 Stamford	103.9	106.6	107.3	(2)	(2)	(2)	4.4	4.4	4.3	30.9	31.9	31.8
41 Waterbury	87.5	87.7	88.1	(2)	(2)	(2)	2.6	2.8	2.8	34.4	32.7	32.5
42 DELAWARE	250.2	254.6	255.7	(1)	(1)	(1)	13.8	13.5	13.4	68.8	70.4	70.1
43 Wilmington	224.0	221.9	222.2	(1)	(1)	(1)	14.4	13.0	12.9	64.3	63.7	63.6
44 DISTRICT OF COLUMBIA	602.8	611.6	613.6	(1)	(1)	(1)	13.7	13.6	13.7	15.1	15.4	15.5
45 Washington SMSA	1,474.0	1,499.5	1,508.1	(1)	(1)	(1)	75.0	71.6	72.0	53.4	55.0	55.0
46 FLORIDA	3,380.5	3,527.8	3,547.8	9.9	10.2	10.3	231.7	267.3	268.7	438.4	453.6	453.0
47 Bradenton	41.9	42.7	42.2	-	-	-	3.5	2.9	2.8	6.7	7.5	7.5
48 Daytona Beach	75.3	76.7	77.3	(1)	(1)	(1)	4.4	4.8	4.8	7.9	8.1	8.2
49 Fort Lauderdale—Hollywood	332.8	336.6	338.2	(1)	(1)	(1)	26.8	30.2	30.6	39.5	41.6	41.6
50 Fort Myers—Cape Coral	62.5	63.4	63.5	(1)	(1)	(1)	7.8	8.6	8.5	3.7	4.0	4.0
51 Gainesville	62.9	64.8	65.1	(1)	(1)	(1)	3.1	3.5	3.5	3.8	3.7	3.7
52 Jacksonville	284.6	287.2	287.1	(1)	(1)	(1)	15.5	15.7	15.7	34.0	34.3	34.3
53 Lakeland—Winter Haven	114.2	116.6	116.4	5.5	5.8	5.8	7.7	8.5	8.3	22.4	23.0	22.9
54 Melbourne—Titusville—Cocoa	95.4	100.1	100.9	(1)	(1)	(1)	6.0	6.1	5.9	18.5	21.6	21.7
55 Miami	693.5	720.8	720.7	(1)	(1)	(1)	34.3	41.4	41.8	99.8	103.2	102.9
56 Orlando	269.8	281.2	282.3	(1)	(1)	(1)	17.2	20.4	20.2	34.5	36.4	36.5
57 Panama City	32.5	32.5	33.3	(1)	(1)	(1)	2.1	2.2	2.3	3.4	3.1	3.2
58 Pensacola	94.5	96.3	96.3	(1)	(1)	(1)	6.4	6.8	7.0	13.3	12.8	12.8
59 Sarasota	69.3	71.1	70.8	(1)	(1)	(1)	7.6	7.4	7.2	6.2	6.1	6.0
60 Tallahassee	70.1	72.6	72.3	(1)	(1)	(1)	3.4	3.3	3.3	2.5	2.3	2.3
61 Tampa—St. Petersburg	518.7	530.2	530.1	(1)	(1)	(1)	36.3	36.4	36.1	71.5	73.7	73.3
62 West Palm Beach—Boca Raton	194.6	206.1	206.0	(1)	(1)	(1)	17.8	19.6	19.1	25.4	28.1	27.9

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			
MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980E	
71.2	72.1	72.2	271.2	278.0	277.3	57.7	57.9	57.8	195.4	200.6	200.8	291.3	302.2	301.0	1
28.4	28.7	28.8	84.9	86.4	86.6	22.3	22.9	22.9	63.3	65.5	65.9	54.4	56.7	56.5	2
2.7	2.6	2.7	21.7	22.1	22.3	3.3	3.4	3.4	16.6	17.1	17.1	33.3	34.4	33.7	3
10.9	10.8	10.9	35.5	36.9	36.6	7.0	7.2	7.3	27.5	27.2	27.2	25.4	25.8	25.7	4
4.6	4.6	4.6	24.0	23.6	23.8	6.0	6.0	6.0	19.0	19.6	19.5	28.5	29.1	29.2	5
1.9	1.8	1.7	9.7	9.7	9.7	1.7	1.7	1.7	6.1	6.3	6.3	17.7	18.0	18.0	6
15.7	16.3	16.2	28.1	28.5	28.8	8.6	8.2	8.1	28.7	30.4	30.8	54.9	55.5	55.8	7
48.0	49.5	49.7	231.0	243.2	243.2	53.6	57.1	57.3	190.4	197.1	197.4	205.2	204.8	208.0	8
28.5	29.4	29.6	154.1	162.7	162.6	41.2	43.7	43.9	122.7	128.5	128.8	104.2	103.2	104.6	9
8.8	8.8	8.8	39.0	41.0	41.2	7.8	8.3	8.3	36.3	37.4	37.4	44.6	45.1	45.8	10
43.2	43.1	43.1	160.3	159.3	161.4	30.3	31.1	31.5	107.7	113.5	115.2	141.5	145.5	146.1	11
3.4	3.9	4.0	15.3	15.8	16.2	2.1	2.1	2.2	8.3	8.5	8.6	12.4	12.2	12.2	12
3.7	3.7	3.7	14.4	14.0	14.1	2.4	2.4	2.5	11.1	11.0	11.1	8.5	8.6	8.6	13
14.0	14.0	14.0	41.4	41.2	41.3	12.2	12.3	12.4	32.7	34.1	34.4	37.6	38.8	38.9	14
3.9	4.0	4.0	6.5	6.5	6.5	1.3	1.3	1.3	4.8	5.0	5.1	6.9	6.9	6.9	15
522.3	535.6	538.5	2,176.1	2,227.1	2,236.1	580.3	604.0	607.4	2,043.4	2,117.3	2,141.6	1,755.5	1,778.0	1,789.7	16
25.2	26.6	26.8	187.2	198.7	200.6	50.7	54.7	55.0	158.3	165.1	166.9	103.6	106.7	107.7	17
7.4	7.7	7.8	31.7	33.2	32.9	4.5	4.5	4.5	21.9	22.5	22.6	30.9	32.4	32.5	18
9.9	10.4	10.4	45.3	46.9	47.0	10.4	11.1	11.1	34.1	36.2	36.3	41.9	42.4	43.0	19
195.0	203.2	203.2	808.0	828.3	827.6	219.7	224.7	225.5	808.3	834.4	842.4	489.0	506.5	511.4	20
3.7	3.6	3.6	20.2	22.4	22.4	3.2	3.5	3.5	15.7	16.3	16.4	16.6	16.6	16.6	21
5.9	6.1	6.1	33.3	34.3	34.3	6.7	6.9	6.9	27.9	29.2	29.4	36.7	37.1	37.3	22
23.3	24.1	24.2	101.8	107.4	107.9	18.1	19.1	19.1	87.8	91.1	91.9	97.7	101.2	102.2	23
20.6	21.5	21.6	89.3	96.1	96.3	19.9	21.2	21.2	68.8	73.4	73.9	136.0	137.6	137.7	24
4.4	4.6	4.6	21.4	21.8	21.9	4.1	4.4	4.4	18.7	19.0	18.9	22.8	23.6	23.6	25
27.4	28.1	28.2	142.6	147.2	146.8	35.8	38.4	38.4	139.2	145.7	147.0	141.4	142.8	143.6	26
126.0	126.6	126.6	344.7	349.0	352.0	137.8	143.2	143.4	327.5	337.8	339.5	290.9	289.4	292.3	27
20.4	20.9	21.0	116.1	121.4	122.9	25.1	26.4	26.3	137.2	144.0	146.9	79.3	79.4	80.1	28
4.5	4.7	4.7	29.8	30.9	30.9	5.3	5.4	5.4	31.3	32.6	32.8	24.5	24.1	24.3	29
4.0	4.5	4.5	20.6	22.0	22.0	5.3	5.6	5.6	16.8	17.3	17.3	19.7	20.2	20.3	30
8.1	8.2	8.5	25.3	26.6	26.5	4.8	5.0	5.0	22.5	23.9	23.9	27.3	27.1	27.4	31
4.1	4.5	4.5	19.9	19.7	20.6	3.1	3.4	3.4	17.9	18.4	18.5	34.6	35.3	35.6	32
74.1	75.4	76.0	290.6	298.5	300.6	72.2	77.2	77.6	237.2	250.5	253.0	242.3	244.0	244.0	33
52.6	53.5	54.0	183.1	190.9	191.6	51.1	55.7	56.0	155.9	165.5	166.6	137.0	137.6	137.5	34
60.1	61.6	61.9	289.3	294.7	296.2	98.0	101.0	101.7	266.8	275.5	277.4	184.9	182.3	184.0	35
6.0	6.1	6.1	33.1	33.0	33.4	6.7	6.9	6.8	30.8	30.9	31.6	16.9	16.7	16.9	36
15.3	15.5	15.7	79.1	81.3	81.9	56.3	58.2	58.6	70.5	72.1	73.1	54.4	54.2	54.4	37
1.4	1.4	1.4	10.3	10.4	10.5	1.7	1.8	1.8	9.3	10.0	10.1	6.9	6.9	6.9	38
15.8	15.8	15.9	40.7	40.3	40.8	10.2	10.4	10.5	46.0	47.1	47.2	25.9	27.2	27.2	39
3.6	3.8	3.9	23.4	24.0	24.3	7.2	7.4	7.5	24.8	25.6	25.9	9.6	9.5	9.6	40
3.1	3.1	3.1	15.2	15.3	15.5	3.2	3.4	3.4	17.6	19.0	19.2	11.4	11.4	11.6	41
12.5	12.6	12.6	54.3	55.4	56.1	11.5	11.7	11.8	44.1	45.6	45.9	45.2	45.4	45.7	42
12.0	12.0	12.0	45.9	44.7	44.7	10.7	10.8	10.8	39.2	40.2	40.4	37.5	37.5	37.7	43
25.7	25.6	25.6	64.0	63.6	63.7	33.7	33.9	34.0	172.3	177.2	178.3	278.3	282.3	282.8	44
65.3	66.6	66.6	279.7	279.1	280.0	87.2	88.1	88.7	379.9	396.6	399.0	533.5	542.5	546.6	45
205.6	220.8	221.8	896.0	941.6	951.1	229.3	240.3	240.1	754.4	776.6	781.7	615.2	617.4	621.1	46
1.4	1.5	1.5	12.4	13.2	12.9	2.5	2.7	2.7	7.7	8.2	8.2	7.7	6.7	6.6	47
3.0	3.2	3.3	21.7	20.9	21.4	4.1	4.3	4.3	20.6	21.3	21.3	13.6	14.1	14.0	48
15.9	16.3	16.2	99.2	94.7	95.4	26.2	27.7	27.5	80.4	81.3	81.7	44.8	44.8	45.2	49
3.4	3.7	3.8	18.6	18.4	18.5	5.0	5.5	5.6	13.4	12.6	12.6	10.6	10.6	10.5	50
1.6	1.6	1.7	14.0	14.2	14.3	2.7	2.7	2.7	10.3	10.7	10.7	27.4	28.4	28.5	51
23.4	23.5	23.6	73.6	73.3	73.3	27.3	27.3	27.0	57.2	58.8	59.0	53.6	54.3	54.2	52
5.0	5.2	5.2	28.3	28.1	28.0	5.7	6.1	6.1	22.4	22.7	22.9	17.2	17.2	17.2	53
4.2	4.6	4.5	21.3	21.8	22.3	3.9	3.9	3.9	22.9	23.6	23.9	18.2	18.5	18.7	54
66.8	71.0	71.0	180.7	183.9	183.8	48.4	51.1	51.1	170.9	176.5	175.6	92.6	93.7	94.5	55
13.6	13.9	13.7	74.4	73.5	73.7	17.1	18.9	19.0	70.1	72.5	73.5	42.5	45.6	45.7	56
1.6	1.8	1.7	9.1	8.2	8.5	1.7	1.9	1.9	5.8	5.9	6.1	8.8	9.4	9.6	57
4.8	5.4	5.1	22.0	21.7	21.8	4.2	4.4	4.4	18.3	19.6	19.6	25.5	25.6	25.6	58
2.7	2.9	2.9	20.8	21.3	21.1	5.5	5.7	5.7	17.0	17.6	17.8	9.5	10.1	10.1	59
2.3	2.4	2.4	13.9	15.3	15.2	3.0	3.0	2.9	10.0	12.1	12.0	35.0	34.2	34.2	60
29.0	29.3	29.4	144.9	144.8	145.3	35.3	37.4	37.3	121.6	127.5	127.8	80.1	81.1	80.9	61
8.2	8.4	8.4	50.7	53.3	53.6	15.7	16.4	16.5	47.4	50.2	50.1	29.4	30.1	30.4	62

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
1 GEORGIA	2,101.4	2,132.1	2,141.3	7.6	7.6	7.6	98.9	96.6	97.0	525.8	524.1	526.0
2 Albany	43.6	45.4	45.4	(1)	(1)	(1)	4.3	3.2	3.0	10.4	11.3	11.4
3 Atlanta	925.4	939.5	940.3	(1)	(1)	(1)	39.6	38.2	38.6	143.5	141.7	141.9
4 Augusta	120.1	121.4	121.2	(1)	(1)	(1)	6.3	6.3	6.3	36.2	36.4	36.4
5 Columbus	82.0	82.4	82.3	(1)	(1)	(1)	4.2	3.6	3.5	21.6	21.6	21.7
6 Macon	95.1	95.5	96.2	(1)	(1)	(1)	4.4	4.2	4.1	15.3	16.0	16.2
7 Savannah	85.2	83.8	83.8	(1)	(1)	(1)	5.1	4.5	4.3	16.8	16.2	16.2
8 HAWAII	395.4	407.4	411.7	(1)	(1)	(1)	22.8	23.1	23.4	23.2	23.0	23.1
9 Honolulu	327.0	336.5	339.9	(1)	(1)	(1)	18.9	18.4	18.6	16.5	16.0	16.3
10 IDAHO	329.8	328.5	328.3	3.9	4.0	4.1	16.2	14.4	14.7	55.5	56.6	55.4
11 Boise City	81.0	78.5	78.6	(1)	(1)	(1)	5.6	5.1	5.0	9.1	9.7	9.7
12 ILLINOIS	4,745.7	4,684.7	(*)	29.0	27.4	(*)	164.3	154.9	(*)	1,270.5	1,217.7	(*)
13 Bloomington—Normal	48.9	50.0	(*)	(2)	(2)	(*)	1.1	1.0	(*)	7.4	7.9	(*)
14 Champaign—Urbana—Rantoul	72.6	71.5	(*)	(2)	(2)	(*)	2.0	1.9	(*)	7.7	7.7	(*)
15 Chicago—Gary	3,433.0	(*)	(*)	4.9	(*)	(*)	128.6	(*)	(*)	948.0	(*)	(*)
16 Chicago SMSA ³	3,192.3	3,180.6	(*)	5.0	4.9	(*)	109.6	100.9	(*)	850.9	836.1	(*)
17 Davenport—Rock Island—Moline	165.5	158.6	(*)	(2)	(2)	(*)	7.2	6.5	(*)	50.9	45.0	(*)
18 Decatur	54.1	53.6	(*)	(2)	(2)	(*)	2.3	1.9	(*)	20.2	19.7	(*)
19 Kankakee	35.6	35.5	(*)	(2)	(2)	(*)	1.3	1.1	(*)	10.3	10.3	(*)
20 Peoria	152.4	151.2	(*)	(2)	(2)	(*)	7.0	5.9	(*)	52.8	51.2	(*)
21 Rockford	121.6	119.4	(*)	(2)	(2)	(*)	3.0	3.0	(*)	56.8	56.3	(*)
22 Springfield	84.0	86.9	(*)	(2)	(2)	(*)	2.9	2.5	(*)	7.2	7.6	(*)
23 INDIANA	2,236.2	2,195.9	2,207.3	10.3	10.3	10.6	96.2	93.7	95.8	752.1	699.4	697.4
24 Anderson	53.2	48.0	48.1	(1)	(1)	(1)	1.1	1.1	1.0	25.6	21.0	21.3
25 Elkhart	81.3	74.8	75.2	-	-	-	2.5	2.2	2.2	45.2	39.8	40.1
26 Evansville	129.2	125.7	126.7	2.8	2.6	2.6	7.6	6.9	7.1	39.5	36.5	37.6
27 Fort Wayne	183.1	169.9	170.6	(1)	(1)	(1)	7.4	7.2	7.3	63.3	56.9	50.9
28 Gary—Hammond—East Chicago ²	266.6	262.1	263.8	(1)	(1)	(1)	17.8	19.2	19.1	105.1	95.2	96.7
29 Indianapolis	529.8	533.4	536.5	(1)	(1)	(1)	21.6	21.5	22.7	134.2	127.5	126.6
30 Lafayette—West Lafayette	58.5	58.6	57.7	(1)	(1)	(1)	1.8	1.8	1.8	12.6	12.1	11.8
31 Muncie	50.5	50.3	49.4	(1)	(1)	(1)	1.7	1.6	1.7	14.8	14.1	12.6
32 South Bend	116.4	115.0	115.1	(1)	(1)	(1)	4.8	4.9	4.8	34.9	33.1	33.2
33 Terre Haute	66.4	66.4	66.0	1.4	1.4	1.4	3.1	3.5	3.3	17.1	16.5	16.7
34 IOWA	1,115.3	1,118.8	1,124.6	2.2	2.0	2.2	48.6	46.3	45.6	258.8	256.6	257.2
35 Cedar Rapids	84.9	86.6	86.2	(1)	(1)	(1)	4.1	4.1	3.8	29.4	25.0	29.1
36 Des Moines	182.2	181.4	181.6	(1)	(1)	(1)	7.5	6.7	6.7	27.4	26.9	27.1
37 Dubuque	44.6	45.2	45.1	(1)	(1)	(1)	1.6	1.4	1.4	16.6	17.2	17.2
38 Sioux City	49.6	49.2	49.0	(1)	(1)	(1)	2.2	2.2	2.2	9.7	5.0	8.8
39 Waterloo—Cedar Falls	66.5	69.6	69.6	(1)	(1)	(1)	2.7	3.1	3.0	22.9	25.3	25.3
40 KANSAS	938.0	944.5	953.1	13.2	13.7	14.0	44.7	42.0	45.8	198.4	196.5	197.7
41 Lawrence	28.5	28.8	29.3	(2)	(2)	(2)	1.2	1.3	1.3	4.7	4.7	4.9
42 Topeka	86.5	86.2	87.2	.2	.2	.2	3.3	3.3	3.7	12.1	10.8	10.9
43 Wichita	200.8	207.0	209.1	2.2	2.4	2.5	9.4	9.0	9.5	64.2	67.7	67.9
44 KENTUCKY	1,222.2	1,214.3	1,226.5	53.1	53.7	53.7	61.6	55.1	59.3	295.4	283.6	286.3
45 Lexington—Fayette	147.3	149.5	150.2	(1)	(1)	(1)	7.9	7.8	8.5	31.2	30.6	30.6
46 Louisville	396.7	386.2	395.4	(1)	(1)	(1)	17.9	15.9	16.7	109.2	99.8	104.4
47 Owensboro	30.2	29.6	29.8	.7	.7	.6	1.9	1.8	1.9	7.0	6.6	6.6
48 LOUISIANA	1,489.4	1,511.8	1,518.6	75.1	77.2	78.1	122.6	124.9	126.3	211.3	208.2	208.6
49 Alexandria	50.7	50.1	50.5	(1)	(1)	(1)	2.9	2.2	2.3	6.0	5.6	5.9
50 Baton Rouge	191.1	190.7	190.6	.8	.8	.8	23.1	20.3	20.3	26.1	26.0	26.0
51 Lafayette	70.6	74.6	75.7	12.5	12.6	12.7	5.1	6.8	7.1	3.3	3.5	3.6
52 Lake Charles	61.9	62.2	61.9	1.8	1.9	1.8	7.8	7.7	7.6	12.6	11.4	11.5
53 Monroe	49.6	48.6	48.9	.5	.4	.4	3.8	3.7	3.8	8.6	7.9	7.9
54 New Orleans	488.8	494.6	495.2	15.8	16.3	16.4	30.0	30.2	30.1	54.0	53.4	53.7
55 Shreveport	143.1	145.0	146.2	4.8	4.7	4.8	10.2	8.8	8.8	28.0	27.9	27.8
56 MAINE	399.5	407.7	(*)	(1)	(1)	(*)	14.5	16.3	(*)	112.4	113.9	(*)
57 Lewiston—Auburn	34.3	35.5	(*)	(1)	(1)	(*)	1.3	1.5	(*)	11.9	12.2	(*)
58 Portland	86.8	90.9	(*)	(1)	(1)	(*)	3.4	3.4	(*)	17.7	18.1	(*)
59 MARYLAND	1,596.7	1,599.3	1,614.7	(1)	(1)	(1)	97.6	94.2	95.3	243.5	240.7	240.4
60 Baltimore	884.9	884.5	893.6	(1)	(1)	(1)	46.9	45.8	46.9	164.1	160.1	159.6

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			
MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	
134.2	137.3	138.5	484.7	498.6	500.4	106.1	107.6	108.1	322.8	333.7	337.9	421.3	426.6	425.6	1
1.9	2.1	2.1	9.6	9.9	10.0	1.9	2.3	2.3	5.9	6.4	6.5	9.6	10.1	10.1	2
82.4	85.6	86.1	253.7	259.1	259.3	62.7	63.5	63.3	184.5	191.4	192.2	158.9	160.0	159.0	3
4.2	4.4	4.4	22.9	22.7	22.7	4.5	4.6	4.6	15.9	15.9	15.9	30.1	31.0	31.0	4
3.4	3.5	3.4	17.4	16.6	16.7	5.2	5.2	5.2	11.1	11.4	11.4	19.1	20.6	20.5	5
4.7	4.8	4.9	20.2	20.1	20.2	5.8	5.6	5.6	15.8	16.2	16.4	29.0	28.8	28.8	6
8.7	8.5	9.0	19.5	19.5	19.4	4.0	4.1	4.1	15.0	15.2	15.3	16.3	15.8	15.6	7
30.4	30.8	30.6	103.1	106.7	107.1	30.7	30.9	31.1	97.0	104.9	104.7	88.8	88.0	91.7	8
25.2	25.6	25.4	85.9	89.4	89.7	26.0	26.8	27.0	78.5	85.4	85.0	75.6	74.9	77.5	9
20.1	19.9	20.0	83.0	81.7	81.6	22.8	22.9	22.8	59.1	58.7	59.2	69.2	70.1	70.5	10
5.1	5.2	5.2	21.2	19.5	19.6	9.0	7.9	7.8	14.3	13.7	13.9	16.7	17.4	17.4	11
286.1	290.0	(*)	1,081.4	1,052.6	(*)	283.7	294.5	(*)	886.9	886.8	(*)	743.4	760.0	(*)	12
3.0	3.0	(*)	10.8	10.8	(*)	7.6	7.6	(*)	7.9	8.1	(*)	11.1	11.6	(*)	13
2.4	2.7	(*)	17.3	17.8	(*)	2.2	2.2	(*)	10.0	10.1	(*)	31.0	29.1	(*)	14
213.7	(*)	(*)	759.1	(*)	(*)	217.7	(*)	(*)	661.2	(*)	(*)	499.5	(*)	(*)	15
196.5	196.3	(*)	733.9	726.8	(*)	217.3	219.2	(*)	638.2	643.1	(*)	440.9	453.3	(*)	16
8.1	7.8	(*)	39.9	40.2	(*)	7.1	7.0	(*)	25.2	24.9	(*)	27.1	27.2	(*)	17
4.9	5.1	(*)	10.8	10.6	(*)	2.7	2.8	(*)	8.3	8.4	(*)	4.9	5.1	(*)	18
1.4	1.6	(*)	7.7	8.0	(*)	1.1	1.1	(*)	6.5	6.3	(*)	7.1	7.1	(*)	19
8.1	8.4	(*)	35.0	35.2	(*)	6.9	7.2	(*)	25.3	26.1	(*)	17.3	17.2	(*)	20
5.2	5.1	(*)	24.1	24.0	(*)	4.2	4.2	(*)	16.1	16.3	(*)	12.2	10.5	(*)	21
5.4	5.5	(*)	18.3	19.0	(*)	6.6	6.6	(*)	15.7	16.3	(*)	27.9	29.4	(*)	22
111.1	108.5	109.4	490.4	482.8	487.9	99.8	102.3	102.6	324.3	336.2	340.9	352.0	362.7	362.7	23
1.5	1.5	1.5	10.6	10.0	9.9	1.7	1.7	1.6	7.0	7.0	7.1	5.7	5.7	5.7	24
2.4	2.3	2.3	15.3	14.4	14.4	2.0	2.1	2.1	8.8	8.8	8.8	5.1	5.2	5.3	25
6.8	6.8	6.9	31.5	31.4	31.5	4.4	4.4	4.4	23.8	23.9	23.9	12.8	12.7	12.7	26
11.4	11.3	11.5	44.3	43.3	43.4	10.3	10.5	10.5	28.4	28.5	28.8	18.0	18.2	18.2	27
15.4	15.7	15.7	52.9	54.6	55.0	9.5	9.6	9.6	34.4	35.0	34.9	31.5	32.8	32.8	28
31.8	32.5	32.7	130.9	134.2	135.3	37.0	38.3	38.3	87.2	90.6	91.7	87.1	88.8	89.2	29
1.6	1.6	1.6	11.6	11.4	11.3	2.8	2.5	2.5	9.0	9.0	9.0	19.1	20.2	19.7	30
2.1	2.0	2.0	11.8	11.8	12.2	1.6	1.6	1.6	7.5	7.8	7.9	11.1	11.4	11.4	31
5.4	5.3	5.3	29.1	29.0	28.8	5.3	5.4	5.4	24.0	24.3	24.5	12.9	13.0	13.1	32
4.1	4.0	4.0	16.9	16.7	16.6	2.1	2.2	2.1	9.3	9.5	9.5	12.4	12.6	12.4	33
57.5	58.5	58.7	278.7	281.6	284.5	55.6	57.8	58.3	201.7	205.4	206.7	212.2	210.6	211.4	34
4.1	4.1	3.9	18.2	19.6	19.5	4.2	4.5	4.6	15.3	15.4	15.5	9.6	9.8	9.9	35
11.8	11.9	11.6	47.9	48.8	48.6	20.1	20.1	20.3	38.6	38.3	38.5	29.1	28.6	28.5	36
1.7	1.7	1.7	9.0	9.0	9.0	1.2	1.2	1.2	10.0	10.4	10.4	4.3	4.3	4.4	37
4.1	4.0	4.0	12.9	13.2	13.0	2.8	2.9	2.9	11.0	11.3	11.4	6.9	6.7	6.6	38
2.7	2.8	2.8	14.0	13.7	13.7	2.0	2.0	2.1	10.7	11.1	11.1	11.6	11.5	11.6	39
64.7	65.5	65.9	221.9	224.2	224.7	45.0	46.1	45.9	162.2	168.4	170.3	187.9	187.7	188.6	40
1.4	1.4	1.4	5.7	5.6	5.8	.8	.9	.9	3.6	3.7	3.7	11.1	11.2	11.3	41
7.4	7.4	7.5	18.7	18.8	18.9	5.9	6.0	6.0	16.6	17.0	17.3	22.3	22.7	22.7	42
10.1	11.0	11.1	44.2	44.4	44.5	9.0	9.1	9.2	37.3	38.9	39.3	24.4	24.5	25.1	43
69.0	68.8	69.1	262.6	263.6	263.6	49.7	50.8	50.9	199.3	205.0	208.4	231.5	233.5	235.2	44
7.2	7.6	7.7	32.5	32.6	32.2	7.0	7.4	7.4	27.6	27.8	28.0	33.9	35.7	35.8	45
24.8	24.7	24.9	88.7	85.5	86.5	22.4	23.0	23.1	73.2	75.6	76.3	60.5	61.8	63.3	46
2.2	2.3	2.3	7.2	6.5	6.6	1.1	1.2	1.2	5.5	5.7	5.8	4.6	4.8	4.6	47
115.2	113.9	113.6	350.6	358.1	360.0	72.5	74.8	74.9	250.9	252.7	254.2	291.2	302.0	302.5	48
2.5	2.5	2.6	11.2	11.1	11.0	2.8	2.9	2.9	10.0	10.3	10.4	15.3	15.3	15.4	49
9.7	10.2	10.2	41.8	44.9	44.8	10.9	11.0	11.0	30.4	30.2	30.5	48.3	47.3	47.0	50
4.8	5.2	5.2	18.9	20.1	20.4	2.3	2.4	2.4	13.9	13.9	14.1	9.8	10.1	10.2	51
3.5	3.6	3.4	13.9	14.3	14.3	2.5	2.6	2.6	9.3	9.3	9.3	10.5	11.4	11.4	52
2.5	2.5	2.5	13.2	12.9	13.0	3.5	3.5	3.5	7.6	7.9	7.9	9.9	9.8	9.9	53
49.3	49.5	49.6	123.4	124.8	124.8	29.2	30.3	30.4	105.7	106.0	106.2	81.4	84.1	84.0	54
9.9	10.5	10.5	34.4	35.0	35.5	6.9	7.3	7.4	24.7	25.0	25.5	24.2	25.8	25.9	55
17.8	18.2	(*)	85.2	85.4	(*)	15.8	16.4	(*)	70.2	72.9	(*)	83.6	84.6	(*)	56
1.1	1.1	(*)	7.8	8.2	(*)	1.5	1.6	(*)	7.2	7.6	(*)	3.5	3.3	(*)	57
5.1	5.3	(*)	23.2	25.4	(*)	6.9	7.3	(*)	17.5	18.3	(*)	13.0	13.1	(*)	58
86.5	86.1	86.5	373.8	372.7	375.9	86.7	89.2	90.0	324.0	333.6	337.4	384.6	382.8	389.2	59
61.7	61.3	62.0	190.4	190.0	191.2	52.8	54.4	54.8	173.9	178.2	179.6	195.1	194.7	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)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
1 MASSACHUSETTES ⁴	2,553.9	2,616.0	2,631.6	(1)	(1)	(1)	63.9	72.0	73.5	666.3	674.4	675.3
2 Boston ⁴	1,425.9	1,467.3	1,477.3	(1)	(1)	(1)	34.6	40.1	40.7	290.6	296.4	292.1
3 Brockton ⁴	57.5	58.3	58.9	(1)	(1)	(1)	1.4	1.6	1.6	12.8	12.5	12.7
4 Fall River ⁴	55.8	57.5	57.4	(1)	(1)	(1)	1.2	1.4	1.4	20.3	21.0	20.7
5 Lawrence—Haverhill ⁴	106.9	108.7	109.2	(1)	(1)	(1)	2.3	2.4	2.5	41.2	42.6	42.6
6 Lowell ⁴	72.3	75.0	75.7	(1)	(1)	(1)	2.3	2.5	2.6	25.1	26.0	26.4
7 New Bedford ⁴	64.3	64.6	64.8	(1)	(1)	(1)	1.3	1.4	1.4	26.0	26.5	26.2
8 Springfield—Chicopee—Holyoke.....	229.9	233.0	234.2	(1)	(1)	(1)	4.9	5.7	5.7	65.8	68.3	68.3
9 Worcester ⁴	162.6	165.0	166.4	(1)	(1)	(1)	4.0	4.2	4.3	48.5	48.6	48.9
10 MICHIGAN.....	(*)	3,495.5	(*)	(*)	13.0	(*)	(*)	112.4	(*)	(*)	1,036.7	(*)
11 Ann Arbor.....	(*)	139.7	(*)	(*)	(1)	(*)	(*)	2.4	(*)	(*)	42.8	(*)
12 Battle Creek.....	(*)	63.9	(*)	(*)	(1)	(*)	(*)	1.6	(*)	(*)	21.0	(*)
13 Bay City.....	(*)	33.8	(*)	(*)	(1)	(*)	(*)	1.1	(*)	(*)	9.7	(*)
14 Detroit.....	(*)	1,710.9	(*)	(*)	1.2	(*)	(*)	51.8	(*)	(*)	516.8	(*)
15 Flint.....	(*)	192.7	(*)	(*)	(1)	(*)	(*)	5.4	(*)	(*)	76.9	(*)
16 Grand Rapids.....	(*)	266.5	(*)	(*)	(1)	(*)	(*)	11.9	(*)	(*)	91.8	(*)
17 Jackson.....	(*)	52.6	(*)	(*)	(1)	(*)	(*)	1.5	(*)	(*)	15.6	(*)
18 Kalamazoo—Portage.....	(*)	110.6	(*)	(*)	(1)	(*)	(*)	4.3	(*)	(*)	33.8	(*)
19 Lansing—East Lansing.....	(*)	195.2	(*)	(*)	(1)	(*)	(*)	5.1	(*)	(*)	42.0	(*)
20 Muskegon—Norton Shores—Muskegon Hgts.....	(*)	60.5	(*)	(*)	(1)	(*)	(*)	2.4	(*)	(*)	21.6	(*)
21 Saginaw.....	(*)	87.2	(*)	(*)	(1)	(*)	(*)	2.3	(*)	(*)	32.0	(*)
22 MINNESOTA.....	1,715.7	1,765.0	1,776.1	16.2	15.3	15.6	65.6	70.6	71.9	371.6	380.6	383.0
23 Duluth—Superior ⁴	60.0	60.3	59.7	(1)	(1)	(1)	2.1	1.8	1.8	7.6	6.4	8.5
24 Minneapolis—St. Paul.....	1,050.9	1,084.3	1,089.9	(1)	(1)	(1)	38.2	41.1	42.1	243.3	245.9	251.0
25 Rochester.....	48.4	49.9	49.7	(2)	(2)	(2)	1.8	1.7	1.7	9.7	10.2	10.1
26 St. Cloud.....	52.0	55.1	54.9	(1)	(1)	(1)	2.2	2.3	2.1	12.2	12.4	12.4
27 MISSISSIPPI.....	827.3	835.3	836.9	9.0	9.8	9.8	44.3	42.5	43.4	232.8	228.2	227.9
28 Jackson.....	143.8	146.1	147.5	1.2	1.3	1.3	7.5	7.1	7.1	18.7	18.0	19.3
29 MISSOURI.....	1,982.6	1,960.0	1,983.2	8.0	7.1	7.1	83.1	77.6	84.1	465.2	442.7	451.1
30 Kansas City.....	633.9	621.4	624.6	.6	.5	.5	26.7	22.1	23.6	128.5	125.4	127.2
31 St. Joseph.....	37.7	36.7	36.6	(2)	(2)	(2)	1.7	1.8	1.6	9.9	8.9	9.0
32 St. Louis.....	1,000.8	969.1	977.0	3.1	3.0	3.0	41.9	38.7	40.6	260.1	246.1	244.1
33 Springfield.....	85.2	83.3	84.5	(2)	(2)	(2)	3.9	3.5	3.7	18.7	18.1	18.8
34 MONTANA.....	271.1	276.8	279.3	7.1	7.2	7.3	11.8	11.3	12.2	25.9	25.1	25.1
35 Billings.....	45.5	48.1	48.1	(1)	(1)	(1)	2.2	2.4	2.6	4.0	4.7	4.2
36 Great Falls.....	29.4	28.9	29.3	(1)	(1)	(1)	1.5	1.1	1.4	1.6	1.6	1.6
37 NEBRASKA.....	616.2	617.9	624.0	1.6	1.5	1.5	28.0	27.4	28.8	97.9	99.0	98.4
38 Lincoln.....	99.6	101.2	102.0	(2)	(2)	(2)	4.3	4.1	4.2	14.0	13.6	13.9
39 Omaha.....	260.0	260.9	263.0	(2)	(2)	(2)	10.3	9.4	9.7	37.4	36.9	37.0
40 NEVADA.....	374.4	391.1	394.9	4.1	5.0	5.1	26.8	25.0	24.7	18.9	20.1	20.2
41 Las Vegas.....	206.8	216.4	218.1	.3	.6	.6	15.6	15.2	14.9	6.6	7.3	7.4
42 Reno.....	110.5	114.8	116.0	.7	.8	.8	7.5	6.2	6.1	8.1	8.6	8.6
43 NEW HAMPSHIRE ⁴	368.1	376.6	(*)	.4	.3	(*)	16.8	19.1	(*)	114.8	116.3	(*)
44 Manchester ⁴	72.8	73.9	(*)	(2)	(2)	(*)	3.0	3.0	(*)	18.6	18.6	(*)
45 Nashua ⁴	58.5	61.5	(*)	(2)	(2)	(*)	2.5	2.3	(*)	27.1	28.6	(*)
46 NEW JERSEY ⁴	(*)	2,996.0	3,016.8	(*)	2.5	2.6	(*)	100.2	101.9	(*)	793.0	794.9
47 Atlantic City ⁴	(*)	81.6	83.0	-	-	-	(*)	5.5	5.8	(*)	8.9	9.0
48 Camden ⁴	(*)	324.4	326.6	(*)	.1	.1	(*)	11.2	12.4	(*)	71.2	69.5
49 Hackensack ⁴	(*)	392.3	392.7	(*)	(1)	(1)	(*)	11.1	10.9	(*)	112.4	112.6
50 Jersey City ⁴	(*)	228.2	227.3	-	-	-	(*)	3.6	3.7	(*)	65.6	68.8
51 Long Branch—Asbury Park.....	(*)	153.4	153.8	(*)	(1)	(1)	(*)	4.7	4.7	(*)	25.2	24.6
52 New Bruns.—Perth Amboy—Sayreville.....	(*)	280.3	284.8	(*)	(1)	(1)	(*)	10.3	9.6	(*)	86.3	91.4
53 Newark ⁴	(*)	937.7	941.7	(*)	.8	.9	(*)	27.9	27.5	(*)	254.1	254.8
54 Paterson—Clifton—Passaic.....	(*)	190.4	189.7	(*)	(1)	(1)	(*)	5.2	5.2	(*)	69.1	68.4
55 Trenton ⁴	(*)	164.9	166.7	(*)	(1)	(1)	(*)	2.7	3.0	(*)	35.1	35.9
56 Vineland—Millville—Bridgeton.....	(*)	55.1	55.6	(*)	(1)	(1)	(*)	1.3	1.4	(*)	18.2	18.1
57 NEW MEXICO.....	452.0	466.7	470.5	25.8	27.9	28.3	34.6	33.1	34.2	34.1	35.1	35.2
58 Albuquerque.....	184.2	189.8	191.0	(1)	(1)	(1)	15.4	14.8	15.0	17.6	16.5	18.5
59 NEW YORK.....	7,064.8	7,104.3	(*)	5.1	5.4	(*)	176.7	169.5	(*)	1,490.3	1,476.6	(*)
60 Albany—Schenectady—Troy.....	333.0	335.9	(*)	(1)	(1)	(*)	8.6	9.3	(*)	60.7	59.3	(*)
61 Binghamton.....	117.0	116.8	(*)	(1)	(1)	(*)	3.3	2.7	(*)	42.7	42.6	(*)
62 Buffalo.....	506.1	507.7	(*)	(1)	(1)	(*)	14.0	15.9	(*)	146.6	139.9	(*)

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			
MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	
119.0	119.6	121.0	548.9	562.5	568.4	146.7	149.2	150.2	589.0	620.1	625.7	420.1	417.2	417.5	1
70.9	72.5	73.4	305.8	319.0	320.7	102.1	106.4	106.8	402.9	418.7	423.4	218.8	220.2	220.2	2
4.3	4.4	4.5	15.1	15.9	16.0	2.0	2.1	2.1	9.2	9.3	9.4	12.7	12.5	12.6	3
1.9	1.8	1.8	11.5	11.4	11.5	2.7	2.6	2.6	9.6	10.9	11.0	8.6	8.4	8.4	4
4.5	4.7	4.7	21.1	20.8	20.8	3.9	3.9	4.0	16.1	15.9	16.3	17.8	18.4	18.3	5
3.2	3.2	3.4	15.2	15.1	15.2	2.0	2.0	2.0	11.3	11.2	11.3	13.2	13.0	12.8	6
2.3	2.2	2.4	12.3	12.2	12.3	1.9	1.9	1.9	9.3	9.1	9.2	11.2	11.3	11.4	7
9.4	9.1	9.3	47.2	46.0	46.2	12.1	12.3	12.4	43.0	44.3	44.7	47.5	47.3	47.6	8
6.9	6.9	7.0	35.0	35.8	36.1	8.7	9.0	9.0	32.1	32.9	33.3	27.4	27.4	27.8	9
(*)	156.0	(*)	(*)	737.2	(*)	(*)	155.3	(*)	(*)	637.3	(*)	(*)	645.8	(*)	10
(*)	3.6	(*)	(*)	19.5	(*)	(*)	3.6	(*)	(*)	21.0	(*)	(*)	46.8	(*)	11
(*)	2.3	(*)	(*)	11.3	(*)	(*)	3.6	(*)	(*)	11.6	(*)	(*)	12.5	(*)	12
(*)	2.0	(*)	(*)	7.9	(*)	(*)	1.2	(*)	(*)	6.8	(*)	(*)	5.1	(*)	13
(*)	84.3	(*)	(*)	358.3	(*)	(*)	89.5	(*)	(*)	345.5	(*)	(*)	263.5	(*)	14
(*)	7.0	(*)	(*)	39.8	(*)	(*)	5.9	(*)	(*)	30.2	(*)	(*)	27.5	(*)	15
(*)	10.7	(*)	(*)	58.7	(*)	(*)	10.2	(*)	(*)	50.5	(*)	(*)	32.5	(*)	16
(*)	5.1	(*)	(*)	10.7	(*)	(*)	1.5	(*)	(*)	9.5	(*)	(*)	8.7	(*)	17
(*)	4.3	(*)	(*)	21.2	(*)	(*)	3.5	(*)	(*)	22.2	(*)	(*)	21.3	(*)	18
(*)	5.6	(*)	(*)	35.5	(*)	(*)	9.1	(*)	(*)	26.6	(*)	(*)	71.3	(*)	19
(*)	3.1	(*)	(*)	11.0	(*)	(*)	1.8	(*)	(*)	9.9	(*)	(*)	10.6	(*)	20
(*)	4.8	(*)	(*)	17.3	(*)	(*)	3.9	(*)	(*)	14.6	(*)	(*)	12.3	(*)	21
97.8	99.3	99.1	428.5	439.9	443.0	89.7	94.1	94.3	346.2	360.5	363.3	300.3	304.7	305.9	22
6.0	5.7	5.5	15.8	16.1	15.4	2.2	2.3	2.3	12.8	12.8	13.0	13.3	13.3	13.3	23
63.1	65.5	65.6	260.4	266.2	267.7	66.4	68.9	69.1	221.9	231.9	233.3	157.6	160.9	161.2	24
2.0	2.1	2.1	9.6	10.1	9.9	1.4	1.5	1.5	17.8	18.3	18.4	6.2	6.1	6.0	25
3.4	3.5	3.5	12.5	12.9	12.9	1.7	1.8	1.7	9.0	9.8	9.8	11.0	12.3	12.4	26
40.0	41.5	41.6	159.6	162.2	162.3	32.1	33.1	33.1	116.0	119.7	120.1	193.6	198.2	198.5	27
9.5	10.1	10.1	34.7	35.2	35.2	11.1	11.5	11.5	27.2	28.3	28.4	33.8	34.5	34.6	28
140.6	141.4	141.3	465.3	465.2	468.5	106.0	106.2	107.0	369.6	376.0	380.2	344.8	343.8	343.9	29
55.2	52.4	51.8	161.1	156.7	156.0	43.4	44.1	43.9	124.3	126.0	127.3	93.7	94.2	94.3	30
2.1	2.1	2.1	9.2	9.1	9.1	1.9	1.8	1.9	6.7	6.9	6.9	6.2	6.1	6.0	31
71.2	70.4	70.5	227.4	218.9	219.4	55.5	56.3	56.3	201.0	201.1	202.6	140.6	140.6	140.5	32
6.4	6.5	6.5	23.5	22.5	22.7	3.3	3.3	3.3	17.8	17.6	17.7	11.6	11.8	11.8	33
22.0	22.5	22.5	70.4	74.7	72.1	12.4	12.7	12.7	52.4	54.9	55.8	69.0	71.4	71.7	34
4.5	4.9	4.9	15.4	16.1	16.1	2.3	2.3	2.3	9.5	9.9	10.2	7.6	7.8	7.8	35
1.9	1.9	1.9	9.5	9.6	9.4	2.1	2.1	2.1	6.7	6.8	6.9	6.0	5.9	6.0	36
45.1	45.7	46.2	160.4	162.2	164.3	40.3	41.5	41.6	111.8	114.9	116.7	131.2	125.7	126.5	37
6.9	7.0	7.1	21.5	23.0	23.1	7.1	7.4	7.4	16.4	16.9	16.9	29.4	29.0	29.4	38
24.1	24.6	24.8	67.8	68.4	68.8	23.7	24.7	24.8	56.7	58.0	58.9	40.0	38.9	39.0	39
22.5	24.1	24.4	74.9	79.5	80.5	16.3	17.4	17.4	156.6	163.0	165.4	54.3	57.0	57.2	40
12.5	13.0	13.2	42.6	44.5	45.0	9.1	9.8	9.8	95.8	100.1	101.4	24.1	25.9	25.8	41
7.7	8.5	8.6	23.3	25.5	25.7	5.8	6.2	6.2	41.9	42.9	43.8	15.5	16.1	16.2	42
13.4	13.7	(*)	80.5	82.3	(*)	18.4	19.5	(*)	65.8	66.7	(*)	58.0	58.7	(*)	43
4.7	4.9	(*)	18.7	18.7	(*)	6.1	6.4	(*)	13.4	13.8	(*)	8.3	8.5	(*)	44
1.9	1.9	(*)	11.7	12.1	(*)	1.7	2.0	(*)	8.0	8.6	(*)	5.6	6.0	(*)	45
(*)	187.2	187.4	(*)	660.3	664.1	(*)	153.2	153.7	(*)	572.3	578.2	(*)	527.3	534.0	46
(*)	3.7	3.8	(*)	16.1	16.7	(*)	4.9	4.9	(*)	27.5	27.8	(*)	15.0	15.0	47
(*)	15.5	15.7	(*)	84.0	85.0	(*)	16.4	16.4	(*)	65.0	65.7	(*)	61.0	61.6	48
(*)	19.7	19.8	(*)	114.2	113.5	(*)	16.5	16.6	(*)	73.8	74.3	(*)	44.6	45.0	49
(*)	26.1	26.0	(*)	45.3	45.2	(*)	8.1	8.0	(*)	31.1	31.1	(*)	44.2	44.5	50
(*)	6.1	6.1	(*)	36.6	37.0	(*)	7.6	7.6	(*)	38.7	38.9	(*)	34.5	34.5	51
(*)	22.3	22.5	(*)	64.4	65.0	(*)	9.7	9.8	(*)	38.5	39.2	(*)	46.8	47.3	52
(*)	70.4	70.6	(*)	180.9	180.6	(*)	64.2	64.3	(*)	186.6	188.7	(*)	152.8	154.5	53
(*)	6.9	6.9	(*)	41.8	41.5	(*)	8.8	8.8	(*)	31.3	31.5	(*)	27.3	27.4	54
(*)	5.6	5.7	(*)	24.7	24.8	(*)	6.6	6.6	(*)	42.9	43.3	(*)	47.3	47.4	55
(*)	3.0	2.9	(*)	9.3	9.5	(*)	2.0	2.0	(*)	8.2	8.3	(*)	13.1	13.4	56
27.6	28.3	28.4	101.7	104.6	104.9	20.7	21.4	21.6	86.1	90.8	91.7	121.4	125.5	126.2	57
11.1	11.8	11.9	46.0	47.2	47.1	10.7	11.0	11.2	41.6	43.5	43.9	41.8	43.0	43.4	58
427.4	430.6	(*)	1,443.3	1,439.2	(*)	596.5	605.8	(*)	1,604.1	1,657.8	(*)	1,321.4	1,319.3	(*)	59
15.5	15.8	(*)	68.3	68.3	(*)	14.9	15.4	(*)	66.3	69.5	(*)	98.5	98.3	(*)	60
4.7	4.6	(*)	21.7	21.1	(*)	3.6	4.0	(*)	17.4	18.1	(*)	23.5	23.7	(*)	61
27.5	28.2	(*)	113.6	114.3	(*)	21.8	22.1	(*)	94.9	98.6	(*)	87.7	88.7	(*)	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
NEW YORK—Continued												
1 Elmira	37.0	36.5	(*)	(1)	(1)	(*)	1.0	.9	(*)	11.5	11.6	(*)
2 Monroe County	330.6	333.5	(*)	(1)	(1)	(*)	8.0	7.9	(*)	133.4	135.2	(*)
3 Nassau—Suffolk	877.6	881.9	(*)	(1)	(1)	(*)	32.1	31.4	(*)	163.3	165.8	(*)
4 New York—Northeastern New Jersey	(*)	6,606.6	(*)	(*)	3.0	(*)	(*)	170.4	(*)	(*)	1,361.5	(*)
5 New York—Nassau—Suffolk	4,558.7	4,577.8	(*)	1.6	1.7	(*)	113.3	112.2	(*)	778.1	766.6	(*)
6 New York SMSA	3,681.1	3,695.9	(*)	1.4	1.5	(*)	81.2	80.8	(*)	614.8	602.6	(*)
7 New York City	3,251.7	3,255.7	(*)	1.1	1.2	(*)	66.1	66.4	(*)	522.7	507.6	(*)
8 Poughkeepsie	94.6	97.5	(*)	(1)	(1)	(*)	2.2	2.2	(*)	31.7	32.6	(*)
9 Rochester	406.0	410.0	(*)	(1)	(1)	(*)	9.7	9.5	(*)	154.2	154.4	(*)
10 Rockland County	78.6	80.4	(*)	(1)	(1)	(*)	1.9	1.9	(*)	15.5	16.1	(*)
11 Syracuse	258.6	259.9	(*)	(1)	(1)	(*)	8.9	7.7	(*)	60.9	59.6	(*)
12 Utica—Rome	113.7	114.9	(*)	(1)	(1)	(*)	1.9	2.1	(*)	31.9	32.1	(*)
13 Westchester County	339.0	347.4	(*)	(1)	(1)	(*)	12.4	12.0	(*)	75.0	77.8	(*)
NORTH CAROLINA												
14 Asheville	2,349.7	2,395.4	2,412.1	5.0	4.9	4.9	121.2	116.2	122.2	823.2	822.1	822.0
15 Charlotte—Gastonia	69.4	70.0	70.2	(1)	(1)	(*)	3.4	2.7	2.8	22.0	22.0	22.0
16 Greensboro—Winston-Salem—High Pt.	324.0	326.6	327.4	(1)	(1)	(1)	17.3	17.6	17.6	89.2	85.2	89.2
17 Raleigh—Durham	386.5	390.5	391.1	(1)	(1)	(1)	17.0	15.2	15.8	150.3	152.3	151.7
18	261.4	272.8	273.6	(1)	(1)	(1)	14.1	14.6	14.7	42.4	44.0	43.8
NORTH DAKOTA												
19 Fargo—Moorhead	233.8	240.7	243.0	4.9	6.2	6.5	13.6	13.9	14.1	16.3	16.5	16.5
20	61.0	62.8	62.5	(2)	(2)	(2)	3.4	3.4	3.4	5.1	5.0	5.0
OHIO												
21 Akron	4,442.8	4,405.2	4,448.3	31.5	31.0	31.3	160.2	153.5	161.4	1,392.5	1,322.4	1,328.6
22 Canton	269.3	266.2	269.5	(*)	(*)	(*)	7.7	7.4	7.9	85.6	80.7	81.1
23 Cincinnati	158.2	159.3	160.9	(*)	(*)	(*)	5.5	5.4	5.8	58.2	57.0	56.9
24 Cleveland	597.6	599.5	605.2	(*)	(*)	(*)	24.8	24.4	25.8	171.5	167.2	167.6
25 Columbus	910.3	906.6	913.6	(*)	(*)	(*)	30.2	29.9	31.3	278.8	269.4	268.9
26 Dayton	497.6	504.0	507.8	(*)	(*)	(*)	18.4	17.9	18.8	100.8	99.5	99.1
27 Toledo	365.3	359.4	362.2	(*)	(*)	(*)	11.8	11.6	12.4	112.6	103.3	102.9
28 Youngstown—Warren	305.1	295.3	301.5	(*)	(*)	(*)	10.3	10.2	10.3	90.5	82.6	82.7
29	211.8	209.1	210.2	(*)	(*)	(*)	6.2	5.7	5.9	80.1	75.2	74.8
OKLAHOMA												
30 Oklahoma City	1,068.3	1,106.9	1,119.9	58.5	64.5	64.8	57.5	54.7	59.4	180.5	187.9	188.0
31 Tulsa	372.7	396.4	400.5	18.3	14.4	14.4	19.8	19.2	20.4	50.3	56.9	57.2
32	282.6	287.9	289.1	17.6	18.9	19.1	16.1	15.1	15.5	59.4	60.9	61.0
OREGON												
33 Eugene—Springfield	1,027.4	1,048.3	1,053.2	2.1	2.1	2.1	48.2	45.8	49.7	217.1	221.5	221.7
34 Jackson County	103.6	101.7	101.7	(1)	(1)	(1)	5.4	4.8	4.7	19.9	18.8	19.7
35 Portland	542.8	558.3	559.5	(1)	(1)	(1)	26.0	27.9	27.3	111.6	116.5	116.8
36 Salem	87.1	88.0	(*)	(1)	(1)	(*)	4.7	4.6	(*)	13.1	12.0	(*)
PENNSYLVANIA												
38 Allentown—Bethlehem—Easton	4,749.6	4,754.2	4,768.2	51.9	50.2	49.6	177.2	179.1	180.9	1,381.9	1,372.0	1,371.1
39 Altoona	260.8	262.5	262.8	(1)	(1)	(1)	8.9	8.8	8.6	109.6	111.1	111.1
40 Delaware Valley	51.1	53.2	53.5	(1)	(1)	(1)	2.2	2.9	2.8	12.7	13.5	13.4
41 Erie	1,577.9	1,584.0	1,591.6	(1)	(1)	(1)	54.1	59.9	58.8	382.6	378.4	377.7
42 Harrisburg	115.9	115.1	115.6	(1)	(1)	(1)	3.0	2.9	3.1	44.4	43.1	42.9
43 Johnstown	215.5	212.9	214.8	(1)	(1)	(1)	8.1	7.1	7.6	42.3	43.2	43.5
44 Lancaster	89.0	88.8	88.5	9.8	9.2	8.9	2.7	2.8	3.0	20.1	20.0	19.8
45 Northeast Pennsylvania	151.4	151.4	151.6	(1)	(1)	(1)	7.6	7.4	7.3	60.0	59.6	59.7
46 Philadelphia SMSA	242.7	241.0	242.6	1.1	1.1	1.1	13.8	10.5	10.6	74.6	74.5	74.8
47 Philadelphia City	1,902.4	1,908.4	1,918.4	(1)	(1)	(1)	66.8	71.1	71.2	454.3	449.5	447.4
48 Pittsburgh	800.0	794.4	797.0	(1)	(1)	(1)	17.1	18.4	18.1	146.7	143.2	143.3
49 Reading	949.0	938.4	939.9	11.1	10.7	10.5	43.8	39.7	38.7	255.3	249.3	249.0
50 Scranton	137.1	139.3	138.5	(1)	(1)	(1)	4.6	5.2	5.1	54.6	54.2	53.4
51 Wilkes-Barre—Hazleton	86.3	86.0	86.4	(1)	(1)	(1)	1.9	2.1	1.9	28.5	28.7	28.7
52 Williamsport	127.7	126.1	126.7	1.0	1.0	1.0	8.5	7.3	7.4	41.5	40.4	40.8
53 York	48.0	46.5	46.9	(1)	(1)	(1)	1.2	1.4	1.5	18.3	16.7	16.8
54	154.8	154.8	155.9	(1)	(1)	(1)	6.6	6.6	6.7	64.8	66.7	66.7
RHODE ISLAND												
55 Providence—Warwick—Pawtucket	394.5	390.5	392.5	(1)	(1)	(1)	11.5	10.8	11.0	132.1	130.1	130.7
56	405.7	401.0	403.1	(1)	(1)	(1)	11.6	10.9	11.1	147.7	144.6	145.4
SOUTH CAROLINA												
57 Charleston—North Charleston	1,162.0	1,186.1	1,193.6	1.9	1.9	1.9	69.2	70.8	71.0	395.6	398.5	398.9
58 Columbia	142.4	147.0	147.6	(1)	(1)	(1)	10.6	11.4	11.5	19.3	18.7	18.7
59 Greenville—Spartanburg	176.2	180.6	180.8	(1)	(1)	(1)	8.2	7.9	8.0	27.2	27.7	28.0
60	259.6	263.3	264.0	(1)	(1)	(1)	15.5	16.0	16.1	105.8	106.4	106.4
SOUTH DAKOTA												
61 Rapid City	233.7	233.8	234.6	2.6	2.9	3.0	10.0	9.6	9.7	25.9	26.5	26.4
62 Sioux Falls	28.2	29.0	29.0	(2)	(2)	(2)	2.3	2.1	2.0	2.6	3.0	3.0
63	52.9	52.0	52.1	(2)	(2)	(2)	2.5	2.2	2.4	7.3	7.3	7.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980F	
1.4	1.4	(*)	7.9	7.8	(*)	1.0	1.0	(*)	6.7	7.0	(*)	7.1	6.9	(*)	1
10.1	9.9	(*)	59.7	60.1	(*)	14.4	14.7	(*)	64.3	66.6	(*)	40.6	41.2	(*)	2
37.7	37.0	(*)	227.3	229.5	(*)	50.3	50.5	(*)	188.0	190.5	(*)	178.9	177.1	(*)	3
(*)	462.1	(*)	(*)	1,384.0	(*)	(*)	609.6	(*)	(*)	1,529.3	(*)	(*)	1,086.7	(*)	4
315.7	316.6	(*)	940.2	936.4	(*)	494.9	502.4	(*)	1,136.5	1,168.5	(*)	778.3	771.3	(*)	5
278.0	279.6	(*)	713.0	707.0	(*)	444.6	451.9	(*)	948.7	978.2	(*)	599.4	594.1	(*)	6
255.8	256.8	(*)	615.8	606.7	(*)	424.4	431.8	(*)	848.4	875.1	(*)	517.4	510.2	(*)	7
2.8	2.8	(*)	15.5	15.9	(*)	2.5	2.5	(*)	16.9	17.5	(*)	23.1	24.0	(*)	8
12.9	12.5	(*)	76.2	76.8	(*)	15.9	16.3	(*)	75.6	78.2	(*)	61.5	62.4	(*)	9
3.5	3.6	(*)	16.6	16.9	(*)	2.4	2.4	(*)	16.7	17.8	(*)	21.6	21.8	(*)	10
14.8	14.8	(*)	57.1	58.0	(*)	15.3	15.6	(*)	52.0	53.5	(*)	49.6	50.6	(*)	11
4.0	4.0	(*)	21.2	21.8	(*)	5.5	5.6	(*)	19.9	20.1	(*)	29.3	29.3	(*)	12
18.1	18.7	(*)	77.5	80.1	(*)	17.3	17.2	(*)	81.2	82.7	(*)	57.4	58.9	(*)	13
113.3	117.9	119.3	466.9	487.4	490.8	91.3	95.7	95.8	325.9	342.1	345.8	402.9	409.1	411.3	14
3.6	3.8	3.8	14.6	14.5	14.7	2.2	2.3	2.2	12.2	13.4	13.4	11.4	11.3	11.2	15
30.3	30.5	30.7	83.1	84.8	84.9	20.5	20.5	20.5	47.9	48.4	48.7	35.7	35.6	35.8	16
21.2	21.2	21.2	77.1	77.9	78.0	17.6	18.0	18.0	55.3	57.3	57.6	48.0	48.6	48.6	17
12.7	13.3	13.4	50.7	52.8	52.9	14.7	15.2	15.2	54.8	59.0	59.2	72.0	73.9	74.4	18
15.3	16.0	16.1	64.8	66.6	67.5	10.7	11.3	11.3	47.1	48.6	49.2	61.1	61.6	61.8	19
3.9	4.0	4.0	18.8	19.0	19.0	3.6	3.9	3.9	13.5	14.1	14.1	12.7	13.4	13.1	20
228.9	231.5	233.8	955.5	959.2	969.5	195.2	202.8	203.6	790.6	811.7	822.6	688.3	693.0	697.7	21
15.3	15.8	15.9	57.0	56.8	58.4	9.2	9.5	9.5	49.1	50.6	51.2	44.9	44.8	45.1	22
7.7	7.6	7.6	34.0	34.5	35.0	5.4	5.7	5.7	28.2	29.2	29.7	18.3	18.8	19.0	23
33.6	34.9	35.4	136.2	137.5	138.4	31.5	32.1	32.3	114.2	119.5	121.5	85.4	83.6	83.9	24
46.5	47.1	47.3	208.3	209.1	210.4	46.6	48.2	48.1	179.1	182.2	185.0	119.3	119.2	121.0	25
24.4	25.0	25.2	117.6	119.1	120.0	35.0	37.5	37.7	98.2	99.9	101.8	102.5	104.4	104.6	26
13.3	13.2	13.4	75.0	74.6	75.4	13.0	13.4	13.5	69.7	72.4	73.3	69.2	70.5	70.5	27
20.7	21.6	22.0	67.7	67.1	67.7	10.3	10.7	10.7	57.8	58.9	59.6	47.3	47.7	47.9	28
10.1	10.5	10.6	45.5	46.2	46.6	6.8	7.1	7.1	36.5	37.2	37.8	26.2	26.8	26.5	29
64.6	65.8	65.6	250.3	256.4	259.1	52.2	53.9	54.2	179.0	190.5	193.6	225.3	233.2	235.2	30
23.1	23.2	23.4	92.3	98.9	99.9	22.8	24.4	24.5	67.1	70.7	71.6	84.0	88.7	89.1	31
21.6	22.8	22.8	69.2	70.7	70.6	14.2	14.4	14.5	53.6	54.8	55.2	30.9	30.3	30.4	32
58.4	60.9	61.2	249.5	254.0	256.0	66.5	69.9	70.1	182.5	183.8	185.1	203.1	206.5	207.3	33
5.3	5.3	5.2	25.9	25.3	25.5	5.3	5.4	5.3	18.8	18.6	18.8	23.0	22.5	22.5	34
35.0	36.6	36.6	138.9	142.5	143.0	42.9	44.5	44.5	106.0	106.5	106.9	82.2	83.8	84.4	35
2.8	2.9	(*)	18.5	18.8	(*)	5.5	5.7	(*)	14.6	15.6	(*)	27.5	28.4	(*)	36
272.3	266.0	266.4	970.2	959.8	961.4	231.4	238.0	238.7	931.5	971.1	977.5	733.2	718.0	722.6	38
13.6	13.9	14.0	49.9	50.1	50.2	8.5	8.6	8.6	40.5	40.8	40.9	29.8	29.2	29.4	39
8.0	7.1	7.2	11.0	12.0	12.2	1.4	1.5	1.5	8.5	8.6	8.7	7.3	7.6	7.7	40
86.9	82.6	83.5	328.7	329.8	331.4	107.9	110.0	110.0	378.5	381.6	387.7	239.6	241.7	242.5	41
5.4	5.4	5.4	23.3	24.0	24.4	4.6	4.8	4.9	20.6	21.1	21.2	14.6	13.8	13.7	42
16.6	16.9	16.9	43.9	42.6	42.2	12.4	12.6	12.5	35.5	36.7	36.8	56.7	53.8	55.3	43
5.8	6.1	6.1	16.4	16.1	16.1	3.7	4.0	4.0	15.8	15.5	16.0	14.7	15.1	14.6	44
6.3	6.3	6.5	33.1	33.2	33.0	5.1	5.4	5.4	24.1	24.4	24.8	15.2	14.9	14.9	45
13.3	13.3	13.5	51.1	50.4	50.0	9.3	9.4	9.5	41.8	42.1	42.9	39.7	39.7	40.2	46
102.8	98.1	99.1	413.7	413.9	416.4	123.3	126.4	126.4	441.4	446.7	453.6	300.1	302.7	304.3	47
57.9	53.9	54.5	148.7	150.5	151.4	69.6	69.8	69.9	213.9	212.5	213.6	146.1	146.1	146.2	48
62.8	61.1	60.8	202.4	199.5	201.2	44.1	44.6	44.8	204.8	205.4	206.0	124.7	128.1	128.9	49
6.7	6.6	6.6	26.5	26.7	26.5	5.9	6.2	6.2	22.0	23.2	23.3	16.8	17.2	17.4	50
4.2	4.2	4.3	19.8	19.5	19.6	3.4	3.4	3.4	16.5	16.5	16.8	12.0	11.6	11.7	51
7.1	7.1	7.1	26.3	26.0	25.5	5.1	5.3	5.3	18.7	18.7	19.1	19.5	20.3	20.5	52
2.3	2.3	2.3	9.8	9.9	9.9	2.1	2.1	2.1	7.7	7.8	7.9	6.6	6.3	6.4	53
7.2	6.8	6.8	32.2	30.8	31.3	3.8	3.9	4.0	21.1	21.3	21.4	19.1	18.7	19.0	54
13.4	13.1	13.0	79.6	77.9	77.9	20.6	21.0	20.7	77.0	77.8	79.0	60.3	55.8	60.2	55
13.2	13.0	12.8	81.3	79.7	79.7	20.7	21.0	20.7	74.0	74.9	76.2	57.2	56.7	57.2	56
51.7	53.4	53.3	215.5	222.9	226.3	45.2	47.5	47.8	149.1	153.9	157.2	233.6	237.2	237.2	57
8.6	9.1	9.0	30.7	31.8	32.0	5.9	6.1	6.3	22.3	24.2	24.4	45.0	45.7	45.7	58
9.0	9.4	9.4	37.3	38.3	38.0	13.2	13.8	13.8	26.1	26.6	26.6	55.2	56.9	57.0	59
10.3	10.5	10.4	50.1	50.7	51.0	8.9	9.3	9.4	34.5	35.8	36.0	34.5	34.6	34.7	60
13.7	13.8	13.8	64.6	64.5	64.7	10.6	11.3	11.3	47.6	47.0	47.3	58.7	58.2	58.4	61
1.9	1.9	1.9	8.4	8.7	8.8	1.4	1.3	1.3	5.8	6.1	6.1	5.6	5.9	5.9	62
5.2	4.9	4.9	16.0	15.7	15.6	3.2	3.5	3.4	12.0	11.6	11.7	6.7	6.8	6.7	63

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
1 TENNESSEE	1,757.9	1,773.4	1,786.6	10.8	10.1	10.3	82.8	80.9	85.2	525.6	525.7	527.9
2 Chattanooga	175.6	175.3	175.1	1.2	1.2	1.3	7.2	6.6	6.7	55.9	55.9	53.4
3 Knoxville	196.8	193.2	194.1	1.6	1.6	1.6	11.7	10.7	10.7	54.0	52.2	52.2
4 Memphis	358.0	356.5	356.9	.2	.2	.2	15.3	15.4	15.6	63.4	59.6	59.6
5 Nashville—Davidson	363.4	364.6	366.6	(1)	(1)	(1)	19.8	20.0	20.5	84.0	62.2	82.9
6 TEXAS	5,509.7	5,723.3	5,741.7	194.8	212.3	211.8	404.9	426.5	431.5	1,006.6	1,036.5	1,036.1
7 Amarillo	74.9	76.0	75.8	(1)	(1)	(1)	4.9	5.2	5.2	9.4	9.6	9.6
8 Austin	230.9	237.5	237.6	(1)	(1)	(1)	12.9	12.9	13.1	28.3	30.0	30.1
9 Beaumont—Port Arthur—Orange	146.5	131.4	130.8	(1)	(1)	(1)	12.9	9.9	9.7	41.1	29.5	29.3
10 Corpus Christi	121.5	123.4	124.0	6.4	6.9	7.0	15.3	14.7	14.3	14.6	15.5	15.6
11 Dallas—Fort Worth	1,357.9	1,416.5	1,430.2	20.4	22.8	23.2	73.3	78.1	80.8	305.6	312.8	313.4
12 El Paso	155.2	156.9	158.4	(1)	(1)	(1)	9.3	9.3	9.4	31.5	31.6	32.5
13 Galveston—Texas City	66.8	66.2	67.1	(1)	(1)	(1)	5.2	5.4	5.6	12.0	10.2	10.2
14 Houston	1,351.4	1,391.4	1,393.1	67.8	70.5	70.5	143.0	140.4	141.2	225.6	230.4	230.9
15 Lubbock	88.2	89.4	89.3	(1)	(1)	(1)	4.6	4.1	3.9	12.4	13.1	13.0
16 San Antonio	374.9	383.6	384.0	2.0	2.1	2.1	24.5	25.9	26.0	47.0	48.2	48.1
17 Waco	68.8	70.0	71.0	(1)	(1)	(1)	3.4	3.4	3.4	16.5	16.8	16.5
18 Wichita Falls	50.4	51.6	51.6	2.9	2.9	2.9	2.4	2.8	2.7	9.3	5.4	9.4
19 UTAH	538.9	563.5	568.3	17.3	17.8	17.7	30.9	29.2	31.5	84.3	90.0	90.2
20 Salt Lake City—Ogden	383.5	401.2	404.7	7.6	7.5	7.5	21.5	20.6	22.0	57.3	60.6	60.6
21 VERMONT	194.1	201.0	200.9	.7	.7	.7	7.6	9.2	9.2	49.5	51.0	51.3
22 Burlington ¹⁴	54.0	55.7	56.1	-	-	-	-	-	-	13.5	14.3	14.4
23 Springfield ¹⁴	14.5	14.7	14.7	-	-	-	-	-	-	6.0	6.1	6.2
24 VIRGINIA	2,060.9	2,087.5	2,094.9	24.6	23.9	23.7	125.1	116.2	120.1	406.6	414.6	414.0
25 Bristol	28.3	28.0	28.2	(1)	(1)	(1)	1.3	1.1	1.2	9.5	9.6	9.5
26 Lynchburg	70.9	72.2	72.3	(1)	(1)	(1)	3.1	3.3	3.4	29.8	29.5	29.6
27 Newport News—Hampton	138.4	145.9	147.4	(1)	(1)	(1)	7.6	6.5	6.9	27.5	33.5	33.8
28 Norfolk—Virginia Beach—Portsmouth	280.4	281.3	282.4	(1)	(1)	(1)	16.4	14.7	15.7	29.8	29.7	29.8
29 Northern Virginia ¹⁵	418.2	421.9	423.1	.4	.4	.4	28.1	26.0	26.1	16.4	17.0	17.1
30 Petersburg—Colonial Hghts.—Hopewell	46.3	46.5	46.8	(1)	(1)	(1)	2.1	2.0	2.2	12.4	12.0	12.1
31 Richmond	321.1	324.2	324.0	.4	.4	.4	18.0	16.6	16.5	54.9	55.9	55.9
32 Roanoke	103.3	103.5	104.4	.1	.1	.1	5.5	5.6	5.7	21.1	20.8	20.9
33 WASHINGTON	(*)	1,594.6	1,605.3	(*)	2.7	2.7	(*)	86.4	89.8	(*)	303.6	304.6
34 Seattle—Everett	(*)	772.9	778.0	(*)	(1)	(1)	(*)	42.9	43.8	(*)	172.8	173.7
35 Spokane	(*)	126.7	127.9	(*)	(1)	(1)	(*)	5.6	6.5	(*)	17.5	17.5
36 Tacoma	(*)	140.5	140.6	(*)	(1)	(1)	(*)	7.5	7.3	(*)	22.2	22.3
37 WEST VIRGINIA	633.6	629.3	629.0	67.4	62.8	62.0	34.8	32.0	31.2	126.6	120.8	120.5
38 Charleston	115.8	114.8	115.0	7.4	6.8	6.7	7.0	6.7	6.8	19.7	17.5	18.1
39 Huntington—Ashland	108.9	106.7	107.2	1.1	1.3	1.3	8.1	7.4	7.6	29.6	27.5	27.4
40 Parkersburg—Marletta	57.9	57.5	57.7	.5	.5	.5	3.9	3.6	3.7	17.6	17.1	17.0
41 Wheeling	67.2	65.2	65.6	7.8	6.2	6.1	2.9	3.0	3.0	13.8	12.7	13.0
42 WISCONSIN	1,905.9	1,959.6	1,965.8	2.0	1.9	2.1	66.7	70.3	69.8	579.5	579.5	575.5
43 Appleton—Oshkosh	125.1	131.0	131.2	(1)	(1)	(1)	5.2	6.0	6.0	49.1	45.7	49.2
44 Eau Claire	47.0	48.6	48.8	(1)	(1)	(1)	1.5	1.9	1.7	9.0	6.5	9.0
45 Green Bay	75.9	77.5	78.4	(1)	(1)	(1)	3.1	3.2	3.3	21.2	20.9	21.1
46 Janesville—Beloit	53.4	50.2	50.3	(1)	(1)	(1)	1.6	1.8	1.7	22.4	17.5	17.9
47 Kenosha	44.3	47.0	46.1	(1)	(1)	(1)	2.7	2.3	2.2	17.2	19.1	18.3
48 La Crosse	42.4	43.6	43.6	(1)	(1)	(1)	1.5	2.0	1.9	10.7	10.6	10.5
49 Madison	163.4	170.8	172.5	(1)	(1)	(1)	6.7	7.3	7.2	19.6	20.2	20.4
50 Milwaukee	672.1	685.8	686.5	(1)	(1)	(1)	21.0	21.9	21.6	218.7	218.2	215.9
51 Racine	70.4	71.1	71.3	(1)	(1)	(1)	1.9	1.7	1.8	31.8	31.8	31.5
52 WYOMING	190.6	207.5	210.7	31.2	35.6	35.6	19.4	19.8	21.0	9.4	10.0	10.3
53 Casper	36.6	41.5	41.7	7.0	8.7	8.6	3.4	4.4	4.7	1.9	1.9	1.9
54 Cheyenne	27.7	27.5	27.9	(1)	(1)	(1)	1.9	2.0	2.1	1.8	1.5	1.8
55 VIRGIN ISLANDS	36.5	37.3	37.7	(2)	(2)	(2)	2.6	3.1	3.2	3.1	3.2	3.2

¹ Combined with services.
² Combined with construction.
³ Area included in Chicago-Gary Standard Consolidated Statistical Area.
⁴ Revised to 1979 benchmark; not strictly comparable with previously published data.

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			
MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	
86.1	86.0	86.6	381.7	381.4	382.5	76.5	76.5	77.0	278.6	289.6	291.5	315.6	323.2	325.6	1
6.6	7.2	7.2	33.3	32.5	32.5	9.9	10.0	10.0	28.5	28.9	28.9	33.0	35.0	35.1	2
8.0	7.9	7.9	41.3	40.2	40.4	7.9	8.0	8.0	29.8	30.0	30.2	42.5	42.6	43.1	3
26.9	26.9	27.2	96.4	96.0	95.3	19.2	19.7	19.7	70.0	71.1	71.6	66.6	67.6	67.7	4
21.6	22.1	22.1	83.3	79.7	79.6	23.4	24.3	24.4	68.3	71.7	72.1	63.0	64.6	65.0	5
344.5	359.0	360.6	1,348.7	1,376.2	1,384.6	306.9	325.1	325.4	942.1	992.7	995.6	961.2	994.6	996.1	6
7.0	7.0	7.0	22.1	22.2	22.1	3.9	3.8	3.8	14.3	14.6	14.7	13.3	13.6	13.4	7
7.0	7.0	7.0	47.8	48.8	48.9	13.3	13.7	13.3	39.7	41.1	41.3	81.9	84.0	83.9	8
11.0	11.0	11.2	32.1	30.5	30.3	5.3	5.2	5.2	24.4	24.4	24.0	19.7	20.9	21.1	9
7.0	6.9	7.0	28.2	28.3	28.5	5.2	5.5	5.2	18.7	19.6	20.1	25.9	26.0	26.3	10
87.5	93.5	94.3	358.5	381.8	384.9	98.6	104.5	105.4	236.7	245.9	250.7	177.1	177.1	177.5	11
10.9	10.8	10.7	38.5	39.3	39.4	7.2	7.2	7.3	24.8	26.0	26.3	32.6	32.5	32.8	12
5.9	7.2	7.0	12.7	12.4	12.6	4.3	4.3	4.3	10.9	11.1	11.7	15.8	15.6	15.7	13
96.1	99.6	100.8	329.7	332.8	332.1	79.8	83.9	84.2	256.5	270.9	270.2	152.9	162.9	163.2	14
5.1	5.2	5.1	25.7	25.9	25.7	4.6	4.8	4.8	16.3	16.7	16.8	19.5	19.6	20.0	15
17.1	17.8	17.9	94.7	94.0	94.4	24.5	25.0	25.1	71.8	75.0	75.0	93.3	95.6	95.4	16
3.1	3.2	3.2	16.0	16.3	17.4	4.0	4.3	4.3	14.2	14.5	14.6	11.6	11.5	11.6	17
2.4	2.4	2.4	12.4	12.8	12.8	2.3	2.3	2.3	7.6	7.7	7.7	11.1	11.3	11.4	18
32.9	34.6	34.8	127.9	134.3	135.2	25.6	27.0	27.1	95.0	102.5	103.0	125.1	128.1	128.8	19
26.1	28.1	28.1	95.9	100.5	101.0	20.8	22.2	22.2	64.8	70.0	71.3	89.4	91.6	91.5	20
8.8	8.9	8.9	39.8	40.5	40.7	7.6	8.0	8.0	43.2	45.6	44.5	36.9	37.1	37.6	21
2.3	2.4	2.4	11.7	12.2	12.3	-	-	-	11.2	11.3	11.3	-	-	-	22
.7	.7	.7	2.1	2.1	2.1	-	-	-	2.9	3.1	3.0	-	-	-	23
113.5	113.1	113.6	430.5	436.7	437.0	100.5	104.4	104.5	370.3	375.6	378.3	489.6	503.0	503.7	24
1.1	1.1	1.1	6.7	6.5	6.4	.9	1.0	1.0	3.4	3.7	3.8	5.0	5.0	5.2	25
2.6	2.7	2.7	11.6	11.9	11.8	3.3	3.5	3.4	10.3	10.8	11.0	10.2	10.5	10.4	26
4.9	4.9	4.9	27.4	27.7	27.8	4.8	5.1	5.0	25.7	25.9	27.0	40.5	41.9	42.0	27
19.3	18.8	18.9	67.2	68.3	68.0	14.0	14.7	14.5	52.4	53.0	53.4	81.3	82.1	82.1	28
27.9	28.6	28.8	97.1	96.9	96.8	26.3	26.4	26.6	105.5	109.4	109.7	116.5	117.2	117.6	29
1.4	1.6	1.6	8.4	8.1	8.0	1.3	1.3	1.3	5.6	6.0	6.0	15.1	15.5	15.6	30
19.4	19.4	19.5	74.8	72.4	72.4	26.0	26.8	26.7	55.4	57.3	58.1	72.2	75.4	74.5	31
10.1	10.0	10.0	25.7	25.6	26.0	6.1	6.3	6.3	19.2	19.2	19.5	15.5	15.9	15.5	32
(*)	89.2	88.8	(*)	383.6	387.6	(*)	92.5	93.2	(*)	301.2	305.2	(*)	333.4	333.4	33
(*)	52.3	52.6	(*)	182.5	183.2	(*)	54.4	54.5	(*)	146.9	148.2	(*)	121.1	122.0	34
(*)	7.8	7.7	(*)	35.8	35.9	(*)	8.0	7.9	(*)	28.3	28.7	(*)	23.7	23.7	35
(*)	6.4	6.4	(*)	33.0	33.2	(*)	7.2	7.2	(*)	30.3	30.7	(*)	33.9	33.5	36
42.8	42.7	42.9	127.2	131.9	131.9	21.1	21.7	21.7	93.7	94.7	95.9	119.9	122.6	122.5	37
9.7	9.9	9.9	27.4	27.3	27.3	5.0	5.0	5.1	19.9	20.0	20.2	19.7	21.1	21.0	38
10.0	9.9	10.0	23.6	23.8	23.8	4.0	3.9	3.9	15.2	15.3	15.4	17.2	17.8	17.5	39
2.7	2.6	2.6	12.5	12.4	12.5	2.0	2.1	2.1	8.9	8.9	9.1	9.9	10.1	10.2	40
3.7	3.6	3.6	15.7	16.0	16.0	2.6	2.6	2.6	13.0	13.1	13.2	7.9	8.1	8.0	41
90.0	91.5	91.7	424.2	445.6	451.5	87.8	92.8	93.4	343.6	362.6	365.0	311.7	315.4	316.8	42
4.5	4.8	4.8	25.5	27.1	27.5	4.9	5.3	5.2	19.6	20.4	20.6	16.3	17.8	17.6	43
2.7	2.6	2.6	12.4	13.1	13.3	1.5	1.5	1.6	9.3	9.5	9.6	10.7	11.0	11.0	44
5.7	6.0	6.0	19.1	20.2	20.4	2.3	2.4	2.4	14.2	14.2	14.4	10.3	10.6	10.6	45
2.3	2.2	2.2	11.3	11.6	11.7	1.3	1.4	1.4	8.1	8.4	8.5	6.4	6.9	7.0	46
1.3	1.3	1.3	8.0	8.2	8.3	1.0	1.0	1.0	7.4	8.2	8.1	6.7	6.9	6.6	47
2.3	2.5	2.5	11.1	11.7	11.8	1.1	1.1	1.1	9.3	9.7	9.8	6.4	5.9	5.6	48
6.0	6.3	6.3	34.2	34.8	35.2	11.6	12.6	12.7	29.9	32.0	32.4	55.4	57.5	58.2	49
34.3	35.0	35.1	147.3	149.9	151.5	37.3	39.2	39.3	134.4	142.4	143.9	79.0	79.2	79.3	50
2.1	2.1	2.0	13.1	13.0	13.1	2.2	2.3	2.3	11.0	11.3	11.5	8.3	8.9	9.1	51
15.8	16.7	17.0	42.0	45.0	46.2	6.9	7.4	7.5	26.2	30.7	30.7	39.7	42.3	42.4	52
2.7	2.9	2.9	9.8	11.4	11.2	1.5	1.6	1.7	5.2	5.3	5.4	5.1	5.3	5.3	53
4.1	4.3	4.0	6.6	7.2	7.5	1.5	1.6	1.5	4.0	3.6	3.6	7.8	7.3	7.4	54
2.1	2.3	2.4	7.3	7.8	7.7	1.4	1.4	1.4	6.2	6.3	6.4	13.6	13.2	13.4	55

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

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

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

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

¹⁴ Total includes data for industry divisions not shown separately.

¹⁵ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p = preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^P	Apr. 1980 ^P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^P	Apr. 1980 ^P
	TOTAL PRIVATE	\$214.91	\$211.65	\$227.39	\$229.15	\$228.50	\$6.02	\$6.03	\$6.46	\$6.51	\$6.51
	MINING	354.78	363.80	383.62	387.10	387.00	8.27	8.54	8.88	8.94	9.00
10	METAL MINING	365.09	372.94	409.12	413.97	-	8.84	9.03	9.93	9.88	-
101	Iron ores	389.42	407.28	434.89	445.48	-	9.12	9.32	10.53	10.36	-
102	Copper ores	380.16	385.48	431.34	429.42	-	9.03	9.20	10.27	10.20	-
11, 12	COAL MINING	410.52	426.36	428.56	419.69	-	9.94	10.45	10.28	10.44	-
12	BITUMINOUS COAL AND LIGNITE MINING	411.76	428.63	425.39	420.49	-	9.97	10.48	10.30	10.46	-
13	OIL AND GAS EXTRACTION	332.32	335.92	373.50	381.36	-	7.57	7.74	8.30	8.40	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	354.38	372.12	384.21	396.62	-	8.75	8.86	9.44	9.65	-
138	Oil and gas field services	322.54	320.76	370.33	375.53	-	7.12	7.29	7.93	7.99	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	294.15	302.17	304.01	313.48	-	6.61	6.76	7.17	7.19	-
142	Crushed and broken stone	291.92	289.01	298.41	304.62	-	6.36	6.48	6.86	6.83	-
	CONSTRUCTION	331.89	320.21	340.80	348.00	351.36	8.97	9.02	9.60	9.64	9.60
15	GENERAL BUILDING CONTRACTORS	303.72	293.91	311.69	316.29	-	8.39	8.47	8.88	8.96	-
152	Residential building construction	287.65	281.42	288.46	296.87	-	8.08	8.11	8.41	8.58	-
153	Operative builders	264.79	251.54	268.07	262.94	-	7.48	7.42	7.77	7.47	-
154	Nonresidential building construction	328.34	314.80	340.56	339.97	-	8.85	9.02	9.46	9.47	-
16	HEAVY CONSTRUCTION CONTRACTORS	330.80	313.96	323.74	348.00	-	8.27	8.35	8.61	8.70	-
161	Highway and street construction	298.85	296.40	293.46	310.85	-	7.38	7.60	7.91	7.95	-
162	Heavy construction, except highway	343.47	321.40	334.91	363.60	-	8.63	8.71	8.86	9.00	-
17	SPECIAL TRADE CONTRACTORS	346.30	336.61	361.18	362.56	-	9.54	9.59	10.29	10.30	-
171	Plumbing, heating, air conditioning	362.12	350.77	386.51	388.96	-	9.58	9.61	10.39	10.40	-
172	Painting, paper hanging, decorating	315.39	307.46	321.58	326.61	-	8.96	8.99	9.47	9.47	-
173	Electrical work	407.72	398.36	425.24	426.38	-	10.59	10.68	11.37	11.37	-
174	Masonry, stonework, and plastering	323.99	315.57	334.64	329.01	-	9.31	9.42	9.93	9.94	-
175	Carpentering and flooring	303.41	296.50	300.46	305.09	-	8.82	8.81	9.05	9.08	-
176	Roofing and sheet metal work	277.05	255.49	277.72	263.73	-	8.37	8.46	8.93	8.85	-
-	MANUFACTURING	266.34	254.41	278.20	280.99	278.56	6.56	6.54	6.59	7.06	7.07
24, 25, 32-39	DURABLE GOODS	289.39	273.14	300.24	304.21	300.85	6.99	6.95	7.45	7.53	7.54
20-23, 26-31	NONDURABLE GOODS	229.91	225.38	243.90	245.70	246.13	5.85	5.90	6.27	6.30	6.36
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	231.85	230.69	244.09	243.21	234.24	5.84	5.90	6.34	6.35	6.28
241	Logging camps and logging contractors	293.61	301.08	321.09	313.50	-	7.49	7.72	8.34	8.36	-
242	Sawmills and planing mills	247.45	245.01	252.59	245.87	-	6.05	6.11	6.46	6.44	-
2421	Sawmills and planing mills, general	260.53	258.08	266.06	262.29	-	6.37	6.42	6.77	6.76	-
2426	Hardwood dimension and flooring	171.36	167.98	179.08	180.78	-	4.20	4.21	4.58	4.60	-
243	Millwork, plywood, and structural members	228.91	227.76	242.02	243.71	-	5.81	5.87	6.27	6.33	-
2431	Millwork	216.12	214.86	239.40	242.11	-	5.57	5.61	6.17	6.24	-
2434	Wood kitchen cabinets	206.88	202.20	211.88	211.55	-	5.43	5.45	5.65	5.78	-
2435	Hardwood veneer and plywood	186.93	165.50	193.77	202.61	-	4.65	4.72	5.02	5.04	-
2436	Softwood veneer and plywood	302.63	302.09	308.85	306.93	-	7.24	7.35	7.76	7.81	-
244	Wooden containers	168.78	166.50	179.41	185.82	-	4.35	4.37	4.81	4.89	-
245	Wood buildings and mobile homes	202.95	204.24	205.45	209.50	-	5.50	5.52	5.87	6.02	-
2451	Mobile homes	199.63	203.31	206.15	207.85	-	5.41	5.48	5.84	5.99	-
249	Miscellaneous wood products	194.17	193.74	211.60	212.00	-	4.83	4.88	5.29	5.30	-
25	FURNITURE AND FIXTURES	193.05	185.25	204.52	206.98	205.74	4.95	4.94	5.34	5.39	5.40
251	Household furniture	181.20	173.82	190.12	192.53	-	4.67	4.66	4.99	5.04	-
2511	Wood household furniture	171.47	164.11	177.41	179.88	-	4.33	4.33	4.62	4.66	-
2512	Upholstered household furniture	190.88	186.50	199.34	202.88	-	5.01	5.00	5.33	5.41	-
2514	Metal household furniture	186.53	177.71	199.68	200.59	-	4.82	4.79	5.20	5.21	-
2515	Mattresses and bedspings	198.00	186.73	214.88	216.98	-	5.28	5.26	5.64	5.71	-
252	Office furniture	214.94	203.07	226.58	223.30	-	5.36	5.33	5.78	5.80	-
253	Public building and related furniture	215.61	210.65	223.11	235.22	-	5.35	5.36	5.78	5.91	-
254	Partitions and fixtures	230.29	219.11	250.26	252.98	-	5.92	5.85	6.45	6.52	-
259	Miscellaneous furniture and fixtures	208.89	198.28	228.53	228.72	-	5.37	5.33	5.89	5.91	-

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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. P 1980	Apr. P 1980	Mar. 1979	Apr. 1979	Feb. 1980	Mar. P 1980	Apr. P 1980
	TOTAL PRIVATE	35.7	35.1	35.2	35.2	35.1	-	-	-	-	-
	MINING	42.9	42.6	43.2	43.3	43.0	-	-	-	-	-
10	METAL MINING	41.3	41.3	41.2	41.9	-	-	-	-	-	-
101	Iron ores	42.7	43.7	41.3	43.0	-	-	-	-	-	-
102	Copper ores	42.1	41.9	42.0	42.1	-	-	-	-	-	-
11, 12	COAL MINING	41.3	40.8	41.3	40.2	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	41.3	40.9	41.3	40.2	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	43.9	43.4	45.0	45.4	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	40.5	42.0	40.7	41.1	-	-	-	-	-	-
138	Oil and gas field services	45.3	44.0	46.7	47.0	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	44.5	44.7	42.4	43.6	-	-	-	-	-	-
142	Crushed and broken stone	45.9	44.6	43.5	44.6	-	-	-	-	-	-
	CONSTRUCTION	37.0	35.5	35.5	36.1	36.6	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.2	34.7	35.1	35.3	-	-	-	-	-	-
152	Residential building construction	35.6	34.7	34.3	34.6	-	-	-	-	-	-
153	Operative builders	35.4	33.9	34.5	35.2	-	-	-	-	-	-
154	Nonresidential building construction	37.1	34.9	36.0	35.9	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	40.0	37.6	37.6	40.0	-	-	-	-	-	-
161	Highway and street construction	40.5	39.0	37.1	39.1	-	-	-	-	-	-
162	Heavy construction, except highway	39.8	36.9	37.8	40.4	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	36.3	35.1	35.1	35.2	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	37.8	36.5	37.2	37.4	-	-	-	-	-	-
172	Painting, paper hanging, decorating	35.2	34.2	34.0	34.7	-	-	-	-	-	-
173	Electrical work	38.5	37.3	37.4	37.5	-	-	-	-	-	-
174	Masonry, stonework, and plastering	34.8	33.5	33.7	33.1	-	-	-	-	-	-
175	Carpentering and flooring	34.4	33.7	33.2	33.6	-	-	-	-	-	-
176	Roofing and sheet metal work	33.1	30.2	31.1	29.8	-	-	-	-	-	-
-	MANUFACTURING	40.6	38.9	39.8	39.8	39.4	3.6	2.5	2.9	3.0	2.7
24, 25, 32-39	DURABLE GOODS	41.4	39.3	40.3	40.4	39.9	3.9	2.6	3.0	3.1	2.7
20-23, 26-31	NONDURABLE GOODS	39.3	38.2	38.9	39.0	38.7	3.1	2.5	2.8	2.9	2.7
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	39.7	35.1	38.5	38.3	37.3	3.5	3.2	2.9	2.8	-
241	Logging camps and logging contractors	39.2	39.0	38.5	37.5	-	4.5	4.1	3.1	3.0	-
242	Sawmills and planing mills	40.9	40.1	39.1	38.8	-	4.5	4.0	3.7	3.6	-
2421	Sawmills and planing mills, general	40.9	40.2	39.3	38.8	-	4.8	4.4	3.9	3.9	-
2426	Hardwood dimension and flooring	40.8	39.9	39.1	39.3	-	3.5	2.9	2.8	2.8	-
243	Millwork, plywood, and structural members	39.4	38.8	38.6	38.5	-	2.9	2.7	2.4	2.3	-
2431	Millwork	38.8	38.3	38.8	38.8	-	1.8	1.6	1.5	1.4	-
2434	Wood kitchen cabinets	38.1	37.1	37.5	36.6	-	2.1	1.8	1.6	1.5	-
2435	Hardwood veneer and plywood	40.2	39.3	38.6	40.2	-	3.7	3.3	2.8	3.6	-
2436	Softwood veneer and plywood	41.8	41.1	39.8	39.3	-	5.1	4.7	4.2	3.9	-
244	Wooden containers	38.8	38.1	37.3	38.0	-	3.1	2.9	2.4	2.6	-
245	Wood buildings and mobile homes	36.9	37.0	35.0	34.8	-	1.5	1.5	1.2	1.1	-
2451	Mobile homes	36.9	37.1	35.3	34.7	-	1.1	1.2	1.1	1.0	-
249	Miscellaneous wood products	40.2	35.7	40.0	40.0	-	3.3	3.2	3.1	3.2	-
25	FURNITURE AND FIXTURES	39.0	37.5	38.3	38.4	38.1	2.2	1.6	1.9	2.0	-
251	Household furniture	38.8	37.3	38.1	38.2	-	2.2	1.7	1.8	1.9	-
2511	Wood household furniture	39.6	37.9	38.4	38.6	-	2.9	2.3	2.2	2.3	-
2512	Upholstered household furniture	38.1	37.3	37.4	37.5	-	1.4	1.2	1.1	1.3	-
2514	Metal household furniture	38.7	37.1	38.4	38.5	-	2.0	.9	1.7	1.7	-
2515	Mattresses and bedsprings	37.5	35.5	38.1	38.0	-	2.1	1.6	2.4	2.4	-
252	Office furniture	40.1	38.1	39.2	38.5	-	2.5	1.7	2.2	1.9	-
253	Public building and related furniture	40.3	39.3	38.6	39.8	-	2.1	1.5	2.2	2.4	-
254	Partitions and fixtures	38.9	37.2	38.8	38.8	-	2.0	1.2	2.3	2.5	-
259	Miscellaneous furniture and fixtures	38.9	37.2	38.8	38.7	-	2.1	1.4	1.2	1.1	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar.	Apr.	Feb.	Mar.	Apr.	Mar.	Apr.	Feb.	Mar.	Apr.
		1979	1979	1980	1980 P	1980 P	1979	1979	1980	1980 P	1980 P
32	STONE, CLAY, AND GLASS PRODUCTS	\$277.55	\$276.60	\$285.91	\$294.35	\$295.00	\$6.64	\$6.73	\$7.13	\$7.25	\$7.32
321	Flat glass	361.44	362.90	366.28	392.76	-	8.29	8.62	9.18	9.51	-
322	Glass and glassware, pressed or blown	280.38	292.44	302.47	313.39	-	6.94	7.15	7.45	7.70	-
3221	Glass containers	288.67	308.25	317.29	334.56	-	7.11	7.50	7.72	8.16	-
3229	Pressed and blown glass, nec	269.07	269.99	284.00	285.42	-	6.71	6.65	7.10	7.10	-
323	Products of purchased glass	269.45	250.04	252.00	254.00	-	6.54	6.33	6.30	6.35	-
324	Cement, hydraulic	401.56	410.83	422.58	435.59	-	9.21	9.51	9.99	10.13	-
325	Structural clay products	224.39	222.63	234.80	238.39	-	5.42	5.47	5.87	5.93	-
326	Pottery and related products	218.90	213.68	238.79	237.55	-	5.50	5.55	6.03	6.06	-
327	Concrete, gypsum, and plaster products	277.10	276.78	270.59	286.63	-	6.52	6.59	7.01	7.13	-
3271	Concrete block and brick	265.09	266.74	242.25	259.45	-	6.08	6.09	6.46	6.47	-
3272	Concrete products, nec	246.03	240.72	251.30	263.57	-	5.83	5.90	6.33	6.46	-
3273	Ready-mixed concrete	299.94	300.46	283.28	305.74	-	7.21	7.24	7.74	7.88	-
329	Misc. nonmetallic mineral products	282.91	271.83	299.10	300.05	-	6.61	6.63	7.19	7.23	-
3291	Abrasive products	270.63	256.61	287.64	293.87	-	6.49	6.48	7.05	7.15	-
3292	Asbestos products	289.39	265.55	303.84	307.22	-	6.73	6.69	7.20	7.28	-
33	PRIMARY METAL INDUSTRIES	366.63	371.96	384.21	383.26	383.51	8.75	8.92	9.44	9.44	9.54
331	Blast furnace and basic steel products	418.91	448.64	446.71	439.70	-	10.07	10.29	11.14	11.02	-
3312	Blast furnaces and steel mills	430.15	468.34	463.80	454.52	-	10.39	10.62	11.57	11.42	-
3317	Steel pipe and tubes	354.43	315.44	351.82	349.67	-	8.32	8.13	8.73	8.72	-
332	Iron and steel foundries	325.14	301.43	321.53	323.99	-	7.76	7.67	7.90	7.98	-
3321	Gray iron foundries	333.11	368.50	313.62	320.40	-	7.95	7.87	7.88	7.99	-
3322	Malleable iron foundries	346.10	310.34	336.48	337.85	-	8.36	8.04	8.54	8.73	-
3325	Steel foundries, nec	307.64	292.33	338.77	333.01	-	7.29	7.29	7.86	7.91	-
333	Primary nonferrous metals	378.98	402.38	415.42	428.22	-	9.11	9.49	10.01	10.22	-
3334	Primary aluminum	402.68	426.42	431.66	456.87	-	9.75	10.30	10.58	10.93	-
335	Nonferrous rolling and drawing	335.58	318.24	351.12	356.59	-	7.75	7.80	8.38	8.43	-
3351	Copper rolling and drawing	312.40	279.79	316.58	317.06	-	7.10	7.03	7.61	7.64	-
3353	Aluminum sheet, plate, and foil	417.63	431.96	425.15	434.13	-	9.47	9.93	9.98	9.98	-
3357	Nonferrous wire drawing and insulating	312.31	286.31	328.44	334.17	-	7.28	7.14	7.82	7.90	-
336	Nonferrous foundries	269.21	255.98	279.16	283.81	-	6.55	6.53	6.91	7.06	-
3361	Aluminum foundries	279.76	266.95	283.50	290.97	-	6.84	6.81	7.00	7.22	-
34	FABRICATED METAL PRODUCTS	277.54	256.86	287.65	292.73	289.12	6.72	6.62	7.12	7.21	7.21
341	Metal cans and shipping containers	360.93	366.72	400.90	411.22	-	8.75	8.69	9.28	9.41	-
3411	Metal cans	390.06	378.84	413.95	427.68	-	9.05	9.02	9.56	9.74	-
342	Cutlery, hand tools, and hardware	263.90	241.42	268.60	276.21	-	6.50	6.32	6.80	6.92	-
3423, 5	Hand and edge tools, and hand saws and blades	253.34	240.07	263.48	268.40	-	6.24	6.14	6.62	6.66	-
3429	Hardware, nec	275.67	245.34	275.26	284.59	-	6.79	6.56	7.04	7.26	-
343	Plumbing and heating, except electric	236.19	222.43	258.65	260.34	-	5.89	5.50	6.45	6.46	-
3432	Plumbing fittings and brass goods	237.31	215.80	255.82	257.70	-	5.76	5.77	6.27	6.27	-
3433	Heating equipment, except electric	224.25	212.21	241.18	243.36	-	5.75	5.72	6.20	6.24	-
344	Fabricated structural metal products	257.04	246.65	275.92	279.00	-	6.41	6.39	6.95	7.01	-
3441	Fabricated structural metal	273.64	270.36	293.63	299.55	-	6.74	6.81	7.25	7.36	-
3442	Metal doors, sash, and trim	198.39	194.16	218.68	218.31	-	5.18	5.15	5.68	5.70	-
3443	Fabricated plate work (boiler shops)	284.66	269.19	314.42	315.53	-	6.96	6.52	7.65	7.64	-
3444	Sheet metal work	260.00	247.68	267.88	274.63	-	6.50	6.45	6.94	7.06	-
3446	Architectural metal work	242.96	224.96	253.84	252.33	-	6.12	6.08	6.41	6.47	-
345	Screw machine products, bolts, etc.	276.86	256.88	282.15	287.64	-	6.35	6.25	6.75	6.80	-
3451	Screw machine products	250.06	238.21	258.96	262.08	-	5.87	5.81	6.24	6.30	-
3452	Bolts, nuts, rivets, and washers	304.41	275.63	306.37	313.90	-	6.81	6.69	7.26	7.30	-
346	Metal forgings and stampings	331.21	284.24	322.40	334.94	-	7.83	7.60	8.04	8.27	-
3462	Iron and steel forgings	369.80	296.48	360.50	365.20	-	8.58	8.19	8.99	9.13	-
3465	Automotive stampings	397.52	336.30	386.32	411.08	-	9.42	9.25	9.83	10.15	-
3469	Metal stampings, nec	247.21	228.34	257.99	260.01	-	5.90	5.84	6.37	6.42	-
347	Metal services, nec	223.17	211.53	234.77	236.70	-	5.43	5.41	5.84	5.83	-
3471	Plating and polishing	217.01	205.00	228.97	230.68	-	5.28	5.27	5.71	5.71	-
3479	Metal coating and allied services	237.31	226.12	247.05	249.28	-	5.76	5.71	6.10	6.08	-
348	Ordnance and accessories, nec	266.56	261.88	294.65	296.61	-	6.47	6.58	7.10	7.13	-
3483	Ammunition, exc. for small arms, nec	243.61	243.58	268.55	261.09	-	6.06	6.41	6.55	6.56	-
349	Misc. fabricated metal products	261.43	243.36	279.62	279.89	-	6.33	6.24	6.82	6.86	-
3494	Valves and pipe fittings	279.54	256.89	300.66	299.74	-	6.64	6.57	7.21	7.24	-
3496	Misc. fabricated wire products	230.36	215.95	243.61	243.60	-	5.66	5.58	6.06	6.09	-
35	MACHINERY, EXCEPT ELECTRICAL	306.25	266.13	319.97	323.23	320.58	7.19	7.10	7.71	7.77	7.80
351	Engines and turbines	360.82	332.60	379.63	380.03	-	8.53	8.32	9.42	9.43	-
3511	Turbines and turbine generator sets	320.58	306.92	336.20	342.34	-	7.80	7.77	8.49	8.58	-
3519	Internal combustion engines, nec	373.63	340.45	392.45	391.07	-	8.75	8.49	9.69	9.68	-
352	Farm and garden machinery	336.97	320.66	336.61	345.28	-	7.91	7.84	8.19	8.34	-
3523	Farm machinery and equipment	351.74	334.51	349.02	358.23	-	8.18	8.68	8.41	8.57	-
353	Construction and related machinery	325.21	300.65	336.19	338.62	-	7.67	7.65	8.24	8.32	-

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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P
		32	STONE, CLAY, AND GLASS PRODUCTS	41.8	41.1	40.1	40.6	40.3	4.7	4.3	3.6
321	Flat glass	43.6	42.1	39.9	41.3	-	5.7	4.3	3.9	4.3	-
322	Glass and glassware, pressed or blown	40.4	40.9	40.6	40.7	-	4.0	4.5	4.0	3.9	-
3221	Glass containers	40.6	41.1	41.1	41.0	-	4.5	5.0	4.5	4.2	-
3229	Pressed and blown glass, nec	40.1	40.6	40.0	40.2	-	3.3	3.9	3.4	3.5	-
323	Products of purchased glass	41.2	39.5	40.0	40.0	-	4.5	3.3	2.4	2.5	-
324	Cement, hydraulic	43.6	43.2	42.3	43.0	-	5.4	4.4	3.9	5.0	-
325	Structural clay products	41.4	40.7	40.0	40.2	-	4.0	4.1	3.3	3.2	-
326	Pottery and related products	39.8	38.5	39.6	39.2	-	2.5	2.2	2.5	2.5	-
327	Concrete, gypsum, and plaster products	42.5	42.0	38.6	40.2	-	5.8	5.5	3.9	4.3	-
3271	Concrete block and brick	43.6	43.8	37.5	40.1	-	6.6	6.2	3.8	4.2	-
3272	Concrete products, nec	42.2	40.8	39.7	40.8	-	4.9	4.2	3.6	4.1	-
3273	Ready-mixed concrete	41.6	41.5	36.6	38.8	-	5.8	5.7	3.6	4.1	-
329	Misc. nonmetallic mineral products	42.8	41.0	41.6	41.5	-	4.6	3.7	3.8	3.7	-
3291	Abraive products	41.7	35.6	40.8	41.1	-	3.8	2.6	3.4	3.6	-
3292	Asbestos products	43.0	39.7	42.2	42.2	-	3.9	2.2	3.1	3.1	-
33	PRIMARY METAL INDUSTRIES	41.9	41.7	40.7	40.6	40.2	4.3	3.6	3.3	3.3	-
331	Blast furnace and basic steel products	41.6	43.6	40.1	39.9	-	3.7	3.7	2.9	2.7	-
3312	Blast furnaces and steel mills	41.4	44.1	40.0	39.8	-	3.5	3.8	2.8	2.6	-
3317	Steel pipe and tubes	42.6	38.8	40.3	40.1	-	4.7	2.2	3.1	2.6	-
332	Iron and steel foundries	41.9	39.3	40.7	40.6	-	4.7	3.3	3.3	3.3	-
3321	Gray iron foundries	41.9	39.2	39.8	40.1	-	4.8	3.5	2.8	3.1	-
3322	Malleable iron foundries	41.4	38.6	39.4	38.7	-	4.9	2.8	2.9	2.8	-
3326	Steel foundries, nec	42.2	40.1	43.1	42.1	-	4.6	3.0	4.4	4.0	-
333	Primary nonferrous metals	41.6	42.4	41.5	41.9	-	3.8	4.6	3.8	3.9	-
3334	Primary aluminum	41.3	41.4	40.8	41.8	-	3.9	5.0	3.6	3.9	-
335	Nonferrous rolling and drawing	43.3	40.8	41.9	42.3	-	5.6	4.2	4.3	4.6	-
3351	Copper rolling and drawing	44.0	35.8	41.6	41.5	-	6.2	4.0	4.2	4.4	-
3353	Aluminum sheet, plate and foil	44.1	43.5	42.6	43.5	-	7.7	8.3	5.7	5.9	-
3357	Nonferrous wire drawing and insulating	42.9	40.1	42.0	42.3	-	4.8	2.8	4.3	4.6	-
336	Nonferrous foundries	41.1	39.2	40.4	40.2	-	4.0	2.4	2.8	2.9	-
3361	Aluminum foundries	40.9	39.2	40.5	40.3	-	4.3	2.5	3.1	3.1	-
34	FABRICATED METAL PRODUCTS	41.3	38.8	40.4	40.6	40.1	3.7	2.1	3.0	3.1	-
341	Metal cans and shipping containers	43.5	42.2	43.2	43.7	-	5.1	4.1	4.9	4.8	-
3411	Metal cans	43.1	42.0	43.3	44.0	-	4.6	3.9	4.9	4.8	-
342	Cutlery, hand tools, and hardware	40.6	38.2	39.5	39.8	-	3.4	1.5	2.4	2.4	-
3423, 5	Hand and edge tools, and hand saws and blades	40.6	39.1	39.8	40.3	-	3.5	2.1	2.6	2.6	-
3429	Hardware, nec	40.6	37.4	39.1	39.2	-	3.4	1.1	2.1	2.1	-
343	Plumbing and heating, except electric	40.1	37.7	40.1	40.3	-	2.7	1.4	3.1	3.1	-
3432	Plumbing fittings and brass goods	41.2	37.4	40.8	41.1	-	3.2	1.6	3.4	3.6	-
3433	Heating equipment, except electric	39.0	37.1	38.9	39.0	-	2.1	.9	2.4	2.4	-
344	Fabricated structural metal products	40.1	38.6	39.7	39.8	-	2.7	1.8	2.6	2.5	-
3441	Fabricated structural metal	40.6	35.7	40.5	40.7	-	3.7	2.7	3.2	3.4	-
3442	Metal doors, sash, and trim	38.3	37.7	38.5	38.3	-	1.5	1.3	2.0	1.7	-
3443	Fabricated plate work (boiler shops)	40.9	38.9	41.1	41.3	-	2.6	1.4	2.8	2.8	-
3444	Sheet metal work	40.0	38.4	38.6	38.9	-	3.0	2.1	2.4	2.4	-
3446	Architectural metal work	39.7	37.0	39.6	39.0	-	1.7	1.1	2.3	1.9	-
345	Screw machine products, bolts, etc.	43.6	41.1	41.8	42.3	-	5.7	3.5	4.1	4.1	-
3451	Screw machine products	42.6	41.0	41.5	41.6	-	5.5	4.0	4.5	4.4	-
3452	Bolts, nuts, rivets, and washers	44.7	41.2	42.2	43.0	-	5.9	3.0	3.6	3.8	-
346	Metal forgings and stampings	42.3	37.4	40.1	40.5	-	4.8	2.2	3.0	3.4	-
3462	Iron and steel forgings	43.1	36.2	40.1	40.0	-	5.2	2.2	3.9	3.6	-
3465	Automotive stampings	42.2	36.2	39.3	40.5	-	5.6	2.3	2.1	3.1	-
3469	Metal stampings, nec	41.9	39.1	40.5	40.5	-	3.9	2.0	3.2	3.3	-
347	Metal services, nec	41.1	39.1	40.2	40.6	-	3.8	2.8	3.5	3.8	-
3471	Plating and polishing	41.1	38.9	40.1	40.4	-	3.7	2.7	3.2	3.6	-
3479	Metal coating and allied services	41.2	35.6	40.5	41.0	-	4.1	3.1	4.2	4.2	-
348	Ordinance and accessories, nec	41.2	39.8	41.5	41.6	-	2.6	1.9	2.7	2.7	-
3483	Ammunition, exc. for small arms, nec	40.2	38.0	41.0	39.8	-	1.7	1.5	1.9	1.4	-
349	Misc. fabricated metal products	41.3	35.0	41.0	40.8	-	3.5	1.9	2.9	2.9	-
3494	Valves and pipe fittings	42.1	39.1	41.7	41.4	-	3.7	1.9	3.5	3.5	-
3496	Misc. fabricated wire products	40.7	38.7	40.2	40.0	-	3.5	1.7	2.4	2.4	-
35	MACHINERY, EXCEPT ELECTRICAL	42.6	40.3	41.5	41.6	41.1	4.5	2.7	3.8	3.8	-
351	Engines and turbines	42.3	40.0	40.3	40.3	-	4.3	2.4	3.1	2.9	-
3511	Turbines and turbine generator sets	41.1	39.5	39.6	39.9	-	3.8	3.5	3.2	3.7	-
3519	Internal combustion engines, nec	42.7	40.1	40.5	40.4	-	4.4	2.0	3.1	2.6	-
352	Farm and garden machinery	42.6	40.9	41.1	41.4	-	5.4	3.5	3.7	3.8	-
3523	Farm machinery and equipment	43.0	41.4	41.5	41.8	-	5.7	3.8	3.9	4.1	-
353	Construction and related machinery	42.4	35.3	40.8	40.7	-	3.6	1.9	3.3	3.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^P	Apr. 1980 ^P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^P	Apr. 1980 ^P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	\$356.16	\$327.02	\$359.33	\$362.07	-	\$8.48	\$8.45	\$9.12	\$9.26	-
3532	Mining machinery	322.24	305.66	347.31	359.96	-	7.60	7.68	8.23	8.43	-
3533	Oil field machinery	308.70	281.40	327.08	328.70	-	7.00	7.00	7.66	7.68	-
3535	Conveyers and conveying equipment	271.55	294.87	302.73	302.50	-	6.45	6.42	7.33	7.36	-
3537	Industrial trucks and tractors	288.01	271.07	291.85	294.92	-	6.94	6.88	7.37	7.41	-
354	Metalworking machinery	332.72	308.70	349.96	350.98	-	7.46	7.35	7.99	8.05	-
3541	Machine tools, metal cutting types	341.65	317.37	370.80	369.22	-	7.61	7.45	8.24	8.26	-
3542	Machine tools, metal forming types	330.71	310.31	347.62	362.23	-	7.62	7.55	8.16	8.27	-
3544	Special dies, tools, jigs, and fixtures	366.62	339.55	381.37	381.02	-	7.97	7.66	8.57	8.64	-
3545	Machine tool accessories	295.31	276.62	317.89	320.23	-	6.82	6.78	7.41	7.43	-
3546	Power driven hand tools	245.78	223.69	256.06	253.31	-	5.98	5.81	6.20	6.27	-
355	Special industry machinery	286.28	266.90	306.71	309.22	-	6.80	6.74	7.32	7.38	-
3551	Food products machinery	300.42	285.68	320.44	319.76	-	7.17	7.16	7.74	7.78	-
3552	Textile machinery	230.88	222.96	246.97	248.46	-	5.55	5.56	5.98	6.06	-
3555	Printing trades machinery	290.07	269.70	320.35	326.92	-	6.89	6.68	7.52	7.55	-
356	General industrial machinery	300.17	276.50	315.12	318.84	-	7.13	7.00	7.63	7.70	-
3561	Pumps and pumping equipment	299.88	277.20	314.88	315.70	-	7.14	7.00	7.68	7.70	-
3562	Ball and roller bearings	305.73	283.71	318.10	329.28	-	7.16	7.04	7.61	7.84	-
3563	Air and gas compressors	303.64	276.71	335.07	339.75	-	7.37	7.15	7.94	8.07	-
3564	Blowers and fans	266.24	247.16	291.76	291.04	-	6.40	6.37	6.58	7.03	-
3566	Speed changers, drives, and gears	342.85	308.25	358.28	362.88	-	7.67	7.50	8.47	8.64	-
3568	Power transmission equipment, nec	293.16	263.53	302.33	300.58	-	6.98	6.74	7.41	7.44	-
357	Office and computing machines	246.10	240.78	263.68	272.61	-	5.93	5.96	6.40	6.46	-
3573	Electronic computing equipment	245.61	241.57	265.56	276.47	-	5.89	5.95	6.43	6.49	-
358	Refrigeration and service machinery	262.99	254.64	278.60	281.30	-	6.43	6.35	7.00	7.05	-
3585	Refrigeration and heating equipment	270.27	263.16	284.49	288.08	-	6.56	6.45	7.13	7.22	-
359	Misc. machinery, except electrical	302.67	276.89	314.08	315.82	-	6.99	6.82	7.55	7.61	-
3592	Carburetors, pistons, rings, valves	342.66	298.38	355.31	345.82	-	8.12	7.73	8.48	8.56	-
3599	Machinery, except electrical, nec	294.50	272.65	306.59	310.25	-	6.77	6.65	7.37	7.44	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	250.71	237.07	269.74	271.20	\$269.08	6.16	6.11	6.71	6.78	\$6.81
361	Electric distributing equipment	253.79	242.48	270.00	271.75	-	6.19	6.17	6.75	6.76	-
3612	Transformers	241.08	233.05	263.71	266.64	-	5.88	5.50	6.56	6.60	-
3613	Switchgear and switchboard apparatus	264.04	250.88	275.71	276.29	-	6.44	6.40	6.91	6.89	-
362	Electrical industrial apparatus	260.38	242.89	281.67	280.83	-	6.32	6.26	6.87	6.80	-
3621	Motors and generators	264.09	243.07	281.81	281.39	-	6.41	6.33	6.84	6.88	-
3622	Industrial controls	250.31	231.55	278.36	277.09	-	6.12	6.03	6.79	6.91	-
363	Household appliances	251.43	232.61	272.00	267.05	-	6.27	6.17	6.80	6.83	-
3632	Household refrigerators and freezers	268.00	258.61	305.78	277.13	-	6.70	6.77	7.44	7.49	-
3633	Household laundry equipment	295.07	222.27	316.01	319.60	-	7.34	7.17	7.92	8.01	-
3634	Electric housewares and fans	213.33	202.01	218.18	216.67	-	5.32	5.22	5.58	5.57	-
364	Electric lighting and wiring equipment	231.26	218.48	245.52	249.94	-	5.71	5.66	6.20	6.28	-
3641	Electric lamps	254.61	242.35	273.48	276.06	-	6.15	6.12	6.82	6.85	-
3643	Current-carrying wiring devices	217.75	204.34	237.20	243.00	-	5.35	5.28	5.93	6.00	-
3644	Noncurrent-carrying wiring devices	237.10	224.23	256.31	257.36	-	5.84	5.67	6.44	6.45	-
3645	Residential lighting fixtures	170.62	160.89	184.68	178.34	-	4.49	4.42	4.86	4.82	-
365	Radio and TV receiving equipment	227.18	207.86	241.15	247.93	-	5.84	5.79	6.28	6.39	-
3651	Radio and TV receiving sets	232.16	212.89	247.80	256.58	-	6.03	5.93	6.47	6.63	-
366	Communication equipment	291.87	280.90	319.61	320.62	-	7.05	7.04	7.72	7.82	-
3661	Telephone and telegraph apparatus	294.69	279.03	336.42	330.84	-	7.17	7.10	8.01	8.03	-
3662	Radio and TV communication equipment	289.54	282.40	306.34	313.29	-	6.96	6.99	7.49	7.66	-
367	Electronic components and accessories	209.79	201.11	232.80	233.63	-	5.18	5.17	5.82	5.87	-
3671-3	Electronic tubes	273.31	270.35	303.36	311.03	-	6.57	6.61	7.24	7.25	-
3674	Semiconductors and related devices	239.25	226.86	271.51	272.08	-	5.71	5.70	6.59	6.62	-
3679	Electronic components, nec	196.18	167.60	214.88	217.72	-	4.88	4.86	5.44	5.54	-
369	Misc. electrical equipment and supplies	294.28	271.29	294.00	300.60	-	7.16	7.01	7.50	7.61	-
3691	Storage batteries	287.83	259.18	292.55	288.32	-	7.25	7.14	7.54	7.45	-
3694	Engine electrical equipment	331.66	301.66	324.94	338.34	-	8.05	7.80	8.44	8.72	-
37	TRANSPORTATION EQUIPMENT	356.17	313.05	357.14	365.31	361.89	8.42	8.26	8.84	9.02	8.98
371	Motor vehicles and equipment	388.72	323.54	366.42	379.53	-	9.04	8.84	9.30	9.56	-
3711	Motor vehicles and car bodies	422.84	325.42	390.78	406.85	-	9.61	9.46	10.02	10.30	-
3713	Truck and bus bodies	286.53	254.56	304.94	303.03	-	7.04	6.88	7.90	7.99	-
3714	Motor vehicle parts and accessories	380.46	335.72	360.59	373.46	-	8.91	8.72	9.06	9.29	-
3715	Truck trailers	229.51	218.67	250.37	251.56	-	5.90	5.91	6.52	6.62	-
372	Aircraft and parts	341.97	321.94	371.42	374.74	-	7.99	7.91	8.76	8.88	-
3721	Aircraft	349.80	334.15	381.07	378.64	-	8.25	8.19	9.03	9.08	-
3724	Aircraft engines and engine parts	353.50	321.19	381.18	386.20	-	8.24	8.07	8.99	9.13	-
3728	Aircraft equipment, nec	310.59	296.61	341.06	355.49	-	7.14	7.13	7.95	8.21	-
373	Ship and boat building and repairing	276.61	260.94	316.65	319.46	-	6.95	6.54	7.78	7.83	-
3731	Shipbuilding and repairing	296.96	280.12	333.74	336.20	-	7.48	7.45	8.16	8.20	-
3732	Boat building and repairing	221.29	212.81	256.80	262.60	-	5.56	5.63	6.42	6.50	-
374	Railroad equipment	361.47	351.20	375.54	377.85	-	8.71	8.78	9.58	9.59	-

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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. p 1980	Apr. p 1980	Mar. 1979	Apr. 1979	Feb. 1980	Mar. p 1980	Apr. p 1980
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	42.0	38.7	39.4	39.1	-	2.9	1.6	2.4	2.1	-
3532	Mining machinery	42.4	35.8	42.2	42.7	-	3.7	1.9	3.8	4.2	-
3533	Oil field machinery	44.1	40.2	42.7	42.8	-	5.2	2.5	5.0	5.3	-
3535	Conveyers and conveying equipment	42.1	35.7	41.3	41.1	-	3.9	2.5	2.9	3.0	-
3537	Industrial trucks and tractors	41.5	39.4	39.6	39.8	-	3.1	1.4	2.4	2.3	-
354	Metalworking machinery	44.6	42.0	43.8	43.6	-	6.4	4.3	5.8	5.6	-
3541	Machine tools, metal cutting types	44.9	42.6	45.0	44.7	-	6.5	4.7	6.8	6.7	-
3542	Machine tools, metal forming types	43.4	41.1	42.6	43.8	-	7.7	4.8	5.5	5.9	-
3544	Special dies, tools, jigs, and fixtures	46.0	43.2	44.5	44.1	-	7.4	5.3	6.5	6.3	-
3545	Machine tool accessories	43.3	40.8	42.9	43.1	-	5.3	3.6	5.1	5.1	-
3546	Power driven hand tools	41.1	38.5	41.3	40.4	-	3.6	1.9	3.5	2.8	-
355	Special industry machinery	42.1	39.6	41.9	41.9	-	4.2	2.3	3.6	3.8	-
3551	Food products machinery	41.9	35.9	41.4	41.1	-	3.9	2.1	2.9	2.8	-
3552	Textile machinery	41.6	40.1	41.3	41.0	-	3.4	2.2	2.8	3.0	-
3555	Printing trades machinery	42.1	39.2	42.6	43.3	-	4.2	2.3	4.0	4.8	-
356	General industrial machinery	42.1	35.5	41.3	41.3	-	4.5	2.4	3.7	3.9	-
3561	Pumps and pumping equipment	42.0	39.6	41.0	41.0	-	4.3	2.2	3.3	3.3	-
3562	Ball and roller bearings	42.7	40.3	41.8	42.0	-	5.1	2.7	4.3	4.9	-
3563	Air and gas compressors	41.2	38.7	42.2	42.1	-	4.2	1.6	4.9	4.9	-
3564	Blowers and fans	41.6	38.8	41.8	41.4	-	4.0	2.4	4.0	4.1	-
3566	Speed changers, drives, and gears	44.7	41.1	42.3	42.0	-	6.4	4.1	4.6	4.4	-
3568	Power transmission equipment, nec	42.0	39.1	40.8	40.4	-	4.6	1.9	2.6	2.8	-
357	Office and computing machines	41.5	40.4	41.2	42.2	-	2.9	2.2	2.6	3.0	-
3573	Electronic computing equipment	41.7	40.6	41.3	42.6	-	3.0	2.3	2.7	3.1	-
358	Refrigeration and service machinery	40.9	40.1	39.8	39.9	-	2.7	1.4	2.1	2.1	-
3585	Refrigeration and heating equipment	41.2	40.8	39.9	39.9	-	3.0	1.6	2.2	2.1	-
359	Misc. machinery, except electrical	43.3	40.6	41.6	41.5	-	5.2	3.2	4.4	4.1	-
3592	Carburetors, pistons, rings, valves	42.2	38.6	41.9	40.4	-	4.0	1.7	3.6	2.4	-
3599	Machinery, except electrical, nec	43.5	41.0	41.6	41.7	-	5.4	3.5	4.5	4.4	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	40.7	38.8	40.2	40.0	39.5	2.9	1.8	2.5	2.5	-
361	Electric distributing equipment	41.0	39.3	40.0	40.2	-	2.8	2.0	2.5	2.6	-
3612	Transformers	41.0	39.5	40.2	40.4	-	3.1	2.6	2.7	2.9	-
3613	Switchgear and switchboard apparatus	41.6	35.2	39.9	40.1	-	2.6	1.5	2.3	2.4	-
362	Electrical industrial apparatus	41.2	38.8	41.0	40.7	-	3.3	2.0	2.9	2.8	-
3621	Motors and generators	41.2	38.4	41.2	40.9	-	3.4	2.1	3.0	2.9	-
3622	Industrial controls	40.9	38.4	40.4	40.1	-	2.8	1.2	2.4	2.4	-
363	Household appliances	40.1	37.7	40.0	39.1	-	2.2	1.4	2.1	2.1	-
3632	Household refrigerators and freezers	40.0	38.2	41.1	37.0	-	1.5	1.1	2.2	1.8	-
3633	Household laundry equipment	40.2	31.0	39.9	39.9	-	1.1	1.3	1.2	1.3	-
3634	Electric housewares and fans	40.1	38.7	39.1	38.9	-	2.3	1.2	2.0	1.9	-
364	Electric lighting and wiring equipment	40.5	38.6	39.6	39.8	-	2.9	1.6	2.4	2.6	-
3641	Electric lamps	41.4	35.6	40.1	40.3	-	2.6	1.5	2.2	2.5	-
3643	Current-carrying wiring devices	40.7	38.7	40.0	40.5	-	2.9	1.6	2.8	2.9	-
3644	Noncurrent-carrying wiring devices	40.6	38.2	39.8	39.9	-	3.1	1.3	2.8	2.3	-
3645	Residential lighting fixtures	38.0	36.4	38.0	37.0	-	2.0	1.8	1.2	1.3	-
365	Radio and TV receiving equipment	38.9	35.9	38.4	38.8	-	2.3	1.1	1.6	1.9	-
3651	Radio and TV receiving sets	38.5	35.9	38.3	38.7	-	1.8	1.9	1.7	1.9	-
366	Communication equipment	41.4	39.9	41.4	41.0	-	3.0	2.0	3.0	2.8	-
3661	Telephone and telegraph apparatus	41.1	39.3	42.0	41.2	-	3.3	1.9	3.6	3.2	-
3662	Radio and TV communication equipment	41.6	40.4	40.9	40.9	-	2.7	2.0	2.6	2.5	-
367	Electronic components and accessories	40.5	38.9	40.0	39.8	-	3.0	2.1	2.8	2.7	-
3671-3	Electronic tubes	41.6	40.9	41.9	42.9	-	2.2	1.8	2.5	2.9	-
3674	Semiconductors and related devices	41.9	35.8	41.2	41.1	-	3.7	2.9	3.9	3.4	-
3679	Electronic components, nec	40.2	38.6	39.5	39.3	-	3.0	2.1	2.4	2.6	-
369	Misc. electrical equipment and supplies	41.1	38.7	39.2	39.5	-	3.4	1.7	1.5	1.8	-
3691	Storage batteries	39.7	36.3	38.8	38.7	-	3.1	1.5	1.3	1.3	-
3694	Engine electrical equipment	41.2	38.7	38.5	38.8	-	3.5	1.5	1.1	1.4	-
37	TRANSPORTATION EQUIPMENT	42.3	37.9	40.4	40.5	40.3	5.1	2.7	3.0	3.2	-
371	Motor vehicles and equipment	43.0	36.6	39.4	39.7	-	6.0	2.6	2.2	2.6	-
3711	Motor vehicles and car bodies	44.0	34.4	39.0	39.5	-	7.1	2.7	1.9	2.6	-
3713	Truck and bus bodies	40.7	37.0	38.6	38.9	-	4.1	1.8	2.9	2.3	-
3714	Motor vehicle parts and accessories	42.7	38.5	39.8	40.2	-	5.4	2.6	2.4	2.8	-
3715	Truck trailers	38.9	37.0	38.4	38.0	-	2.3	1.4	1.6	1.5	-
372	Aircraft and parts	42.8	40.7	42.4	42.2	-	4.8	3.2	4.3	4.3	-
3721	Aircraft	42.4	40.8	42.2	41.7	-	4.3	3.0	3.5	3.4	-
3724	Aircraft engines and engine parts	42.9	39.8	42.4	42.3	-	5.3	2.6	5.0	5.1	-
3728	Aircraft equipment, nec	43.5	41.6	42.9	43.3	-	5.4	4.1	5.3	5.5	-
373	Ship and boat building and repairing	39.8	37.6	40.7	40.8	-	2.7	2.1	3.5	3.5	-
3731	Ship building and repairing	39.7	37.6	40.9	41.0	-	2.7	2.2	3.6	3.6	-
3732	Boat building and repairing	39.8	37.8	40.0	40.4	-	2.7	1.9	3.1	3.2	-
374	Railroad equipment	41.5	40.0	39.2	39.4	-	4.5	4.0	3.2	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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^P	Apr. 1980 ^P	Mar. 1979	Apr. 1979	Feb. 1980 ^C	Mar. 1980 ^P	Apr. 1980 ^P
		TRANSPORTATION EQUIPMENT—Continued									
376	Guided missiles, space vehicles, parts	\$339.52	\$324.72	\$369.98	\$371.70	-	\$7.97	\$7.92	\$8.83	\$9.00	-
3781	Guided missiles and space vehicles	336.96	322.81	377.94	373.01	-	8.10	8.05	9.02	9.12	-
379	Miscellaneous transportation equipment	221.19	227.91	253.93	253.27	-	5.93	6.21	6.63	6.63	-
3792	Travel trailers and campers	193.64	191.20	225.00	218.22	-	5.47	5.51	6.00	5.93	-
38	INSTRUMENTS AND RELATED PRODUCTS	249.45	241.20	267.81	268.37	\$268.66	6.04	6.03	6.58	6.61	\$6.65
381	Engineering and scientific instruments	267.13	254.70	282.62	288.96	-	6.33	6.32	6.81	6.88	-
382	Measuring and controlling devices	254.79	243.41	278.30	280.96	-	6.11	6.04	6.69	6.77	-
3822	Environmental controls	238.86	223.49	247.66	247.85	-	5.84	5.79	6.10	6.15	-
3823	Process control instruments	262.84	243.82	287.74	285.95	-	6.17	6.05	6.63	6.65	-
3825	Instruments to measure electricity	267.55	261.66	303.68	311.41	-	6.34	6.29	7.30	7.45	-
383	Optical instruments and lenses	299.92	250.17	301.43	289.54	-	6.52	6.55	7.01	6.96	-
384	Medical instruments and supplies	206.59	196.70	222.55	222.55	-	5.23	5.19	5.62	5.62	-
3841	Surgical and medical instruments	200.88	192.27	213.73	215.87	-	5.06	5.02	5.33	5.33	-
3842	Surgical appliances and supplies	212.91	201.32	230.30	227.76	-	5.39	5.34	5.86	5.84	-
385	Ophthalmic goods	187.63	184.60	203.83	206.44	-	4.75	4.77	5.15	5.20	-
386	Photographic equipment and supplies	328.36	326.28	386.28	344.61	-	7.69	7.75	8.55	8.53	-
387	Watches, clocks, and watchcases	185.00	178.69	201.61	194.05	-	4.66	4.69	5.13	5.12	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	194.04	186.50	206.80	208.74	207.20	4.95	4.96	5.33	5.38	5.41
391	Jewelry, silverware, and plated ware	193.03	187.86	211.42	213.18	-	5.04	5.05	5.52	5.61	-
3911	Jewelry, precious metal	183.89	180.77	211.53	209.41	-	4.93	4.98	5.48	5.54	-
393	Musical instruments	188.25	181.98	207.37	206.95	-	4.79	4.84	5.29	5.32	-
394	Toys and sporting goods	178.16	172.79	186.24	190.02	-	4.58	4.62	4.85	4.91	-
3942, 4	Dolls, games, toys, and children's vehicles	172.48	167.48	179.63	181.05	-	4.48	4.49	4.79	4.88	-
3949	Sporting and athletic goods, nec	183.06	176.90	191.20	196.71	-	4.67	4.73	4.89	4.93	-
395	Pens, pencils, office and art supplies	206.76	197.12	220.04	224.00	-	5.08	5.12	5.46	5.60	-
396	Costume jewelry and notions	161.93	155.86	173.42	175.48	-	4.25	4.27	4.60	4.63	-
3961	Costume jewelry	148.27	144.89	157.76	164.80	-	4.04	4.07	4.37	4.43	-
399	Miscellaneous manufactures	220.80	208.41	230.89	232.66	-	5.52	5.47	5.89	5.92	-
3993	Signs and advertising displays	231.20	222.92	238.23	243.71	-	5.78	5.79	6.22	6.33	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	242.35	241.41	258.96	261.19	261.80	6.12	6.19	6.64	6.68	6.73
201	Meat products	241.88	243.57	258.91	259.20	-	6.25	6.31	6.76	6.75	-
2011	Meat packing plants	302.65	309.26	333.74	331.27	-	7.51	7.58	8.16	8.22	-
2013	Sausages and other prepared meats	278.95	287.52	300.70	297.59	-	7.08	7.17	7.75	7.77	-
2016	Poultry dressing plants	145.20	140.75	150.50	155.30	-	4.00	4.01	4.30	4.29	-
202	Dairy products	254.20	254.62	273.73	275.22	-	6.14	6.18	6.66	6.68	-
2022	Cheese, natural and processed	238.73	233.38	246.27	248.20	-	5.88	5.82	6.38	6.43	-
2026	Fluid milk	261.25	263.33	285.34	287.12	-	6.25	6.33	6.81	6.82	-
203	Preserved fruits and vegetables	204.09	198.44	217.53	219.84	-	5.26	5.32	5.65	5.71	-
2032	Canned specialties	243.98	234.42	221.79	223.76	-	5.98	5.98	6.41	6.43	-
2033	Canned fruits and vegetables	204.67	201.65	223.26	226.38	-	5.33	5.45	5.71	5.88	-
2037	Frozen fruits and vegetables	188.44	184.37	202.08	209.13	-	4.92	5.01	5.29	5.39	-
204	Grain mill products	283.82	276.72	312.68	314.81	-	6.57	6.62	7.34	7.39	-
2041	Flour and other grain mill products	303.79	296.42	324.87	326.31	-	6.92	6.83	7.35	7.45	-
2048	Prepared feeds, nec	234.96	231.01	253.38	255.73	-	5.34	5.41	5.99	6.06	-
205	Bakery products	243.18	242.57	265.73	267.65	-	6.30	6.35	6.92	6.97	-
2051	Bread, cake, and related products	241.42	243.72	265.62	266.82	-	6.32	6.38	6.99	7.04	-
2052	Cookies and crackers	246.48	239.27	265.16	268.65	-	6.24	6.28	6.73	6.75	-
206	Sugar and confectionery products	231.21	223.57	248.71	255.58	-	5.99	6.01	6.41	6.52	-
2061-3	Cane and beet sugar	279.17	265.36	316.41	337.02	-	7.14	7.29	7.93	8.24	-
2065	Confectionery products	202.54	199.18	213.36	219.63	-	5.33	5.34	5.60	5.69	-
207	Fats and oils	275.62	275.63	291.36	295.49	-	6.38	6.41	6.76	6.84	-
208	Beverages	294.26	303.75	309.25	316.74	-	7.32	7.50	7.77	7.84	-
2082	Malt beverages	416.91	443.70	444.26	454.46	-	9.95	10.20	10.38	10.52	-
2086	Bottled and canned soft drinks	212.51	213.25	224.07	229.51	-	5.38	5.44	5.82	5.84	-
209	Misc. foods and kindred products	207.87	202.77	211.27	207.42	-	5.33	5.35	5.82	5.81	-
21	TOBACCO MANUFACTURES	252.98	255.68	273.43	287.27	290.60	6.64	6.80	7.41	7.62	7.77
211	Cigarettes	293.76	296.40	323.25	332.38	-	7.69	7.60	8.62	8.77	-
22	TEXTILE MILL PRODUCTS	182.61	172.93	199.92	201.23	195.13	4.52	4.48	4.90	4.92	4.94
221	Weaving mills, cotton	196.09	182.56	211.93	215.31	-	4.68	4.61	5.07	5.09	-
222	Weaving mills, synthetics	196.35	184.54	213.50	214.85	-	4.72	4.66	5.12	5.14	-
223	Weaving and finishing mills, wool	187.68	180.45	200.09	204.11	-	4.60	4.56	5.04	5.09	-
224	Narrow fabric mills	171.78	162.60	183.87	183.42	-	4.20	4.18	4.54	4.54	-
225	Knitting mills	160.27	153.61	181.57	180.11	-	4.24	4.22	4.62	4.63	-

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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	42.6	41.0	41.9	41.3	-	4.5	3.5	4.3	4.1	-
3761	Guided missiles and space vehicles	41.6	40.1	41.9	40.9	-	3.6	2.6	3.8	3.4	-
379	Miscellaneous transportation equipment	37.3	36.7	38.3	38.2	-	1.4	.7	1.2	1.0	-
3792	Travel trailers and campers	35.4	34.7	37.5	36.8	-	.9	.5	1.3	.7	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	41.3	40.0	40.7	40.6	40.4	2.8	1.9	2.6	2.5	-
381	Measuring and controlling devices	42.2	40.3	41.5	42.0	-	3.7	2.2	3.1	3.3	-
382	Environmental controls	41.7	40.3	41.6	41.5	-	2.7	1.5	2.6	2.6	-
3822	Process control instruments	40.9	38.6	40.6	40.3	-	1.7	.9	1.8	1.9	-
3823	Instruments to measure electricity	42.6	40.3	43.4	43.0	-	3.6	1.7	4.3	3.8	-
3825	Optical instruments and lenses	42.2	41.6	41.6	41.8	-	2.4	1.6	2.1	2.3	-
383	Medical instruments and supplies	46.0	44.3	43.0	41.6	-	4.7	3.8	3.7	3.6	-
384	Surgical and medical instruments	39.5	37.9	39.6	39.6	-	2.4	1.3	2.3	2.2	-
3841	Surgical appliances and supplies	39.7	38.3	40.1	40.5	-	2.9	1.8	2.7	2.5	-
3842	Ophthalmic goods	39.5	37.7	39.3	39.0	-	2.1	1.0	2.2	2.3	-
385	Photographic equipment and supplies	39.5	38.7	39.5	39.7	-	2.1	1.6	1.8	2.1	-
386	Watches, clocks, and watchcases	42.7	42.1	40.5	40.4	-	3.4	3.0	2.9	2.7	-
387	.....	39.7	38.1	39.3	37.9	-	1.7	1.1	1.4	1.3	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	39.2	37.6	38.8	38.8	38.3	2.3	1.5	2.1	2.2	-
391	Jewelry, precious metal	38.3	37.2	38.3	38.0	-	2.1	1.5	2.3	2.4	-
3911	Musical instruments	37.3	36.3	38.6	37.8	-	1.8	1.5	2.9	2.8	-
393	Toys and sporting goods	39.3	37.6	39.2	38.9	-	1.5	.9	1.6	1.7	-
394	Dolls, games, toys, and children's vehicles	38.9	37.4	38.4	38.7	-	2.0	1.2	1.5	1.7	-
3942, 4	Sporting and athletic goods, nec	38.5	37.3	37.5	37.1	-	1.8	1.2	1.2	1.2	-
3949	Pens, pencils, office and art supplies	39.2	37.4	39.1	39.9	-	2.1	1.1	1.8	2.1	-
395	Costume jewelry and notions	40.7	38.5	40.3	40.0	-	2.7	1.5	2.4	2.9	-
396	Costume jewelry	38.1	36.5	37.7	37.9	-	2.2	1.6	2.3	2.4	-
3961	Miscellaneous manufactures	36.7	35.6	36.1	37.2	-	1.7	1.4	1.5	1.9	-
399	Signs and advertising displays	40.0	38.1	39.2	39.3	-	2.7	1.8	2.4	2.4	-
3993	.....	40.0	38.5	38.3	38.5	-	2.7	1.9	2.1	2.3	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	39.6	39.0	39.0	39.1	38.9	3.6	3.3	3.4	3.4	-
201	Meat packing plants	38.7	38.6	38.3	38.4	-	3.5	3.6	3.3	3.4	-
2011	Sausages and other prepared meats	40.3	40.8	40.9	40.3	-	4.0	4.4	4.5	4.4	-
2013	Poultry dressing plants	39.4	40.1	38.8	38.3	-	3.8	4.2	3.0	2.7	-
2016	Dairy products	36.3	35.1	35.0	36.2	-	2.7	2.4	2.1	2.4	-
202	Cheese, natural and processed	41.4	41.2	41.1	41.2	-	3.9	3.9	3.9	3.9	-
2022	Fluid milk	40.6	40.1	38.6	38.6	-	3.8	3.3	3.4	3.2	-
2026	Preserved fruits and vegetables	41.8	41.6	41.9	42.1	-	4.1	4.1	4.2	4.1	-
203	Canned specialties	38.8	37.3	38.5	38.5	-	2.8	2.3	3.0	3.1	-
2032	Canned fruits and vegetables	40.8	39.2	34.6	34.8	-	4.3	3.6	4.3	3.6	-
2033	Frozen fruits and vegetables	38.4	37.0	39.1	38.5	-	2.7	1.9	2.4	2.7	-
2037	Grain mill products	38.3	36.8	38.2	38.8	-	2.8	2.5	3.3	3.9	-
204	Flour and other grain mill products	43.2	41.8	42.6	42.6	-	6.0	4.9	5.7	5.8	-
2041	Prepared feeds, nec	43.9	49.4	44.2	43.8	-	6.9	5.9	5.8	5.4	-
2048	Bakery products	44.0	42.7	42.3	42.2	-	6.2	5.4	5.7	5.6	-
205	Bread, cake, and related products	38.6	38.2	38.4	38.4	-	3.2	3.1	3.0	3.1	-
2051	Cookies and crackers	38.2	38.2	38.0	37.9	-	3.5	3.6	3.3	3.3	-
2052	Sugar and confectionery products	39.5	38.1	39.4	39.8	-	2.3	1.4	2.3	2.7	-
206	Cane and beet sugar	38.6	37.2	38.8	39.2	-	3.0	1.8	1.9	1.8	-
2061-3	Confectionery products	39.1	36.4	39.9	40.9	-	4.7	3.0	1.1	1.0	-
2065	Fats and oils	38.0	37.3	38.1	38.6	-	2.5	1.4	2.1	2.1	-
207	Beverages	43.2	43.0	43.1	43.2	-	5.5	5.2	5.2	5.4	-
208	Malt beverages	40.2	40.5	39.8	40.4	-	3.7	4.2	3.4	3.7	-
2082	Bottled and canned soft drinks	41.9	43.5	42.8	43.2	-	5.5	7.3	5.3	5.5	-
2086	Misc. foods and kindred products	39.5	39.2	38.5	39.3	-	3.1	3.1	2.9	3.3	-
209	.....	39.0	37.9	36.3	35.7	-	3.2	2.7	2.6	2.3	-
TOBACCO MANUFACTURES											
21	Cigarettes	38.1	37.6	36.9	37.7	37.4	.9	.5	.8	1.1	-
211	.....	38.2	38.0	37.5	37.9	-	.6	.3	.8	1.2	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	40.4	38.6	40.8	40.9	39.5	3.6	2.3	3.7	3.8	-
221	Weaving mills, synthetics	41.9	39.6	41.8	42.3	-	4.6	2.6	4.5	4.8	-
222	Weaving and finishing mills, wool	41.6	39.6	41.7	41.8	-	4.0	2.7	3.9	4.0	-
223	Narrow fabric mills	40.8	39.4	39.7	40.1	-	3.7	2.8	3.0	3.3	-
224	Knitting mills	40.9	38.9	40.5	40.4	-	3.1	1.8	3.2	3.2	-
225	.....	37.8	36.4	39.3	38.9	-	2.4	1.7	3.0	2.9	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 p	Apr. 1980 p	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 p	Apr. 1980 p
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	\$154.28	\$142.56	\$159.65	\$163.81	-	\$4.06	\$4.05	\$4.35	\$4.38	-
2252	Hosiery, nec	146.03	140.49	168.30	161.82	-	3.99	3.98	4.36	4.35	-
2253	Knit outerwear mills	151.37	146.91	176.22	174.27	-	4.17	4.15	4.53	4.55	-
2254	Knit underwear mills	145.08	140.24	166.66	169.05	-	4.03	4.03	4.48	4.52	-
2257	Circular knit fabric mills	189.72	184.00	219.17	216.57	-	4.65	4.67	5.05	5.06	-
226	Textile finishing, except wool	195.43	167.94	215.06	220.08	-	4.79	4.77	5.22	5.24	-
2261	Finishing plants, cotton	197.88	184.99	221.20	225.46	-	4.85	4.78	5.33	5.33	-
2262	Finishing plants, synthetics	204.50	202.21	220.04	225.60	-	5.00	5.03	5.38	5.41	-
227	Floor covering mills	193.12	174.96	200.88	202.81	-	4.62	4.58	4.96	5.02	-
228	Yarn and thread mills	170.07	163.44	189.52	191.27	-	4.22	4.18	4.60	4.62	-
2281	Yarn mills, except wool	172.16	163.46	193.58	194.46	-	4.23	4.17	4.62	4.63	-
2282	Throwing and winding mills	160.33	162.76	177.60	174.94	-	4.09	4.11	4.44	4.44	-
229	Miscellaneous textile goods	206.91	193.25	219.47	222.32	-	4.95	4.88	5.34	5.37	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	148.33	142.04	158.33	158.95	\$157.79	4.19	4.19	4.46	4.49	\$4.47
231	Men's and boys' suits and coats	178.82	173.57	188.86	184.48	-	5.08	5.09	5.35	5.41	-
232	Men's and boys' furnishings	137.47	132.40	152.57	151.32	-	3.84	3.86	4.18	4.18	-
2321	Men's and boys' shirts and nightwear	135.00	128.28	148.51	144.59	-	3.75	3.74	4.08	4.05	-
2327	Men's and boys' separate trousers	137.94	129.75	152.80	149.64	-	3.93	3.92	4.28	4.30	-
2328	Men's and boys' work clothing	139.48	135.58	152.28	152.15	-	3.78	3.83	4.05	4.09	-
233	Women's and misses' outerwear	141.02	133.12	150.19	152.66	-	4.16	4.16	4.47	4.49	-
2331	Women's and misses' blouses and waists	134.94	129.42	145.94	145.27	-	3.90	3.91	4.23	4.26	-
2335	Women's and misses' dresses	138.35	131.09	146.19	150.15	-	4.27	4.27	4.54	4.55	-
2337	Women's and misses' suits and coats	145.85	136.22	159.39	162.32	-	4.38	4.38	4.83	4.86	-
2339	Women's and misses' outerwear, nec	143.82	135.74	153.56	154.70	-	4.04	4.04	4.35	4.37	-
234	Women's and children's undergarments	135.61	131.03	148.47	146.78	-	3.82	3.82	4.09	4.10	-
2341	Women's and children's underwear	132.40	127.91	148.30	146.61	-	3.74	3.74	4.03	4.05	-
2342	Brassieres and allied garments	148.63	143.79	148.43	148.86	-	4.14	4.12	4.34	4.34	-
236	Children's outerwear	136.76	132.24	149.14	145.44	-	3.82	3.80	4.12	4.12	-
2361	Children's dresses and blouses	133.18	132.33	144.59	139.26	-	3.72	3.77	4.05	4.06	-
238	Misc. apparel and accessories	148.64	141.45	156.52	157.71	-	4.05	4.03	4.36	4.43	-
239	Misc. fabricated textile products	184.30	174.47	182.28	188.88	-	4.85	4.78	4.90	5.01	-
2391	Curtains and draperies	138.00	132.49	148.80	146.15	-	3.68	3.66	4.00	3.95	-
2392	House furnishing, nec	155.45	149.85	166.82	171.44	-	4.08	4.05	4.39	4.43	-
2396	Automotive and apparel trimmings	313.16	278.53	278.55	292.62	-	7.79	7.61	7.59	7.93	-
26	PAPER AND ALLIED PRODUCTS	293.09	287.87	318.42	318.52	322.24	6.88	6.92	7.51	7.53	7.60
261, 2,6	Paper and pulp mills	355.16	360.59	389.78	392.45	-	7.91	7.96	8.72	8.76	-
262	Paper mills, except building paper	357.08	363.65	392.79	392.37	-	7.90	7.94	8.69	8.70	-
263	Paperboard mills	356.33	363.32	386.31	387.63	-	8.08	8.22	8.84	8.85	-
264	Misc. converted paper products	252.77	241.96	271.99	273.62	-	6.15	6.11	6.65	6.69	-
2641	Paper coating and glazing	308.52	288.91	307.94	312.49	-	6.98	6.83	7.28	7.37	-
2642	Envelopes	230.28	224.62	243.76	245.81	-	5.70	5.73	6.14	6.13	-
2643	Bags, except textile bags	238.14	228.31	257.86	256.54	-	5.78	5.78	6.32	6.35	-
265	Paperboard containers and boxes	255.02	242.70	275.88	274.55	-	6.16	6.16	6.68	6.68	-
2651	Folding paperboard boxes	253.37	244.22	280.13	279.21	-	6.21	6.23	6.75	6.81	-
2653	Corrugated and solid fiber boxes	272.39	256.46	293.02	290.22	-	6.47	6.46	6.96	6.91	-
2654	Sanitary food containers	235.25	221.36	256.31	258.16	-	5.71	5.72	6.36	6.39	-
27	PRINTING AND PUBLISHING	255.23	247.30	268.25	271.19	268.28	6.77	6.72	7.25	7.29	7.31
271	Newspapers	242.14	243.82	251.50	250.83	-	7.08	7.15	7.53	7.51	-
272	Periodicals	235.69	230.89	241.82	246.00	-	6.17	6.19	6.87	6.91	-
273	Books	231.86	227.56	246.53	248.57	-	5.93	5.88	6.42	6.49	-
2731	Book publishing	221.13	221.13	237.16	237.50	-	5.57	5.57	6.16	6.25	-
2732	Book printing	245.25	235.75	257.38	261.71	-	6.37	6.27	6.72	6.78	-
274	Miscellaneous publishing	207.20	207.35	217.52	219.56	-	5.92	6.01	6.11	6.15	-
275	Commercial printing	273.78	260.19	287.27	292.22	-	7.02	6.92	7.54	7.59	-
2751	Commercial printing, letterpress	253.22	242.26	260.07	266.96	-	6.56	6.53	7.01	7.10	-
2752	Commercial printing, lithographic	285.32	270.56	301.47	305.76	-	7.26	7.12	7.79	7.82	-
276	Manifold business forms	266.33	252.70	289.98	298.80	-	6.48	6.43	7.16	7.27	-
278	Blankbooks and bookbinding	206.17	199.64	215.56	219.96	-	5.30	5.24	5.57	5.64	-
279	Printing trade services	340.74	325.60	361.37	355.67	-	8.92	8.80	9.46	9.51	-
28	CHEMICALS AND ALLIED PRODUCTS	308.38	314.25	332.38	334.40	336.54	7.36	7.50	7.99	8.00	8.09
281	Industrial inorganic chemicals	333.06	346.46	362.82	364.46	-	7.93	8.21	8.68	8.74	-
2819	Industrial inorganic chemicals, nec	328.27	342.37	364.46	369.93	-	7.91	8.23	8.74	8.85	-
282	Plastics materials and synthetics	301.73	317.82	332.27	331.38	-	7.15	7.34	7.93	7.89	-
2821	Plastics materials and resins	337.31	348.19	369.36	369.78	-	7.79	8.06	8.65	8.66	-
2824	Organic fibers, noncellulosic	280.54	300.40	313.12	310.42	-	6.76	6.89	7.60	7.48	-
283	Drugs	279.45	272.43	304.78	305.62	-	6.75	6.76	7.47	7.40	-
2834	Pharmaceutical preparations	270.60	261.49	288.64	290.09	-	6.60	6.57	7.18	7.11	-

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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^P	Apr. 1980 ^P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^P	Apr. 1980 ^P
		TEXTILE MILL PRODUCTS—Continued									
2251	Women's hosiery, except socks	38.0	35.2	36.7	37.4	-	2.6	1.3	2.1	2.1	-
2252	Hosiery, nec	36.6	35.3	38.6	37.2	-	1.8	1.2	2.3	1.9	-
2253	Knit outerwear mills	36.3	35.4	38.9	38.3	-	1.7	1.3	2.8	2.7	-
2254	Knit underwear mills	36.0	34.8	37.2	37.4	-	1.2	.7	1.5	1.6	-
2257	Circular knit fabric mills	40.8	39.4	43.4	42.8	-	4.6	3.9	5.6	5.5	-
228	Textile finishing, except wool	40.8	39.4	41.2	42.0	-	3.4	2.1	3.8	4.1	-
2281	Finishing plants, cotton	40.8	38.7	41.5	42.3	-	3.3	1.4	3.7	4.0	-
2282	Finishing plants, synthetics	40.9	40.2	40.9	41.7	-	3.8	2.7	3.6	3.8	-
227	Floor covering mills	41.8	38.2	40.5	40.4	-	4.4	2.5	3.2	3.7	-
228	Yarn and thread mills	40.3	35.1	41.2	41.4	-	3.5	2.6	4.0	4.2	-
2281	Yarn mills, except wool	40.7	39.2	41.9	42.0	-	3.8	2.7	4.4	4.5	-
2282	Throwing and winding mills	39.2	39.6	40.0	39.4	-	3.2	3.2	3.5	3.5	-
229	Miscellaneous textile goods	41.8	35.6	41.1	41.4	-	3.9	2.5	3.3	3.4	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.4	33.9	35.5	35.4	35.3	1.1	.6	1.1	1.2	-
231	Men's and boys' suits and coats	35.2	34.1	35.3	34.1	-	.7	.3	.7	.7	-
232	Men's and boys' furnishings	35.8	34.3	36.5	36.2	-	.8	.5	1.1	1.2	-
2321	Men's and boys' shirts and nightwear	36.0	34.3	36.4	35.7	-	1.0	.5	1.2	1.2	-
2327	Men's and boys' separate trousers	35.1	33.1	35.7	34.8	-	.6	.3	1.0	1.0	-
2328	Men's and boys' work clothing	36.9	35.4	37.6	37.2	-	.9	.7	1.3	1.3	-
233	Women's and misses' outerwear	33.9	32.0	33.6	34.0	-	1.1	.6	1.0	1.2	-
2331	Women's and misses' blouses and waists	34.6	33.1	34.5	34.1	-	1.1	.5	1.0	1.0	-
2336	Women's and misses' dresses	32.4	30.7	32.2	33.0	-	1.1	.7	.8	1.0	-
2337	Women's and misses' suits and coats	33.3	31.1	33.0	33.4	-	.8	.4	.7	.8	-
2339	Women's and misses' outerwear, nec	35.6	33.6	35.3	35.4	-	1.3	.7	1.4	1.6	-
234	Women's and children's undergarments	35.5	34.3	36.3	35.8	-	.9	.5	1.0	1.1	-
2341	Women's and children's underwear	35.4	34.2	36.8	36.2	-	.9	.5	1.1	1.1	-
2342	Brasieres and allied garments	35.9	34.9	34.2	34.3	-	.9	.5	.7	1.1	-
236	Children's outerwear	35.8	34.8	36.2	35.3	-	1.2	.7	1.3	1.3	-
2361	Children's dresses and blouses	35.8	35.1	35.7	34.3	-	1.2	1.0	1.0	1.1	-
238	Misc. apparel and accessories	36.7	35.1	35.9	35.6	-	1.3	.7	1.0	1.2	-
239	Misc. fabricated textile products	38.0	36.5	37.2	37.7	-	1.8	1.0	1.2	1.4	-
2391	Curtains and draperies	37.5	36.2	36.2	37.0	-	.9	.4	.9	.9	-
2392	House furnishings, nec	38.1	37.0	38.0	38.7	-	1.4	1.0	1.6	1.7	-
2396	Automotive and apparel trimmings	40.2	36.6	36.7	36.9	-	3.6	1.5	.4	1.5	-
26	PAPER AND ALLIED PRODUCTS	42.6	41.6	42.4	42.3	42.4	4.7	4.0	4.1	4.1	-
261, 2, 6	Paper and pulp mills	44.9	45.3	44.7	44.8	-	6.4	6.5	6.6	6.4	-
262	Paper mills, except building paper	45.2	45.6	45.2	45.1	-	6.5	6.5	6.7	6.4	-
263	Paperboard mills	44.1	44.2	43.7	43.8	-	6.8	6.9	6.8	6.5	-
264	Misc. converted paper products	41.1	39.6	40.9	40.9	-	3.5	2.4	3.1	3.1	-
2641	Paper coating and glazing	44.2	42.3	42.3	42.4	-	5.6	3.6	3.7	3.8	-
2642	Envelopes	40.4	39.2	39.7	40.1	-	3.1	2.1	2.9	2.8	-
2643	Bags, except textile bags	41.2	35.5	40.8	40.4	-	3.5	2.4	3.1	2.8	-
265	Paperboard containers and boxes	41.4	35.4	41.3	41.1	-	3.5	2.5	2.0	2.2	-
2651	Folding paperboard boxes	40.8	39.2	41.5	41.0	-	3.1	1.9	3.2	3.3	-
2653	Corrugated and solid fiber boxes	42.1	35.7	42.1	42.0	-	4.2	2.9	1.1	1.4	-
2654	Sanitary food containers	41.2	36.7	40.3	40.4	-	3.2	2.3	2.9	3.0	-
27	PRINTING AND PUBLISHING	37.7	36.8	37.0	37.2	36.7	3.1	2.3	2.5	2.7	-
271	Newspapers	34.2	34.1	33.4	33.4	-	2.0	1.8	1.8	1.8	-
272	Periodicals	38.2	37.3	35.2	35.6	-	2.6	2.0	2.1	2.0	-
273	Books	39.1	38.7	38.4	38.3	-	3.9	3.2	2.8	2.9	-
2731	Book publishing	39.7	39.7	38.5	38.0	-	3.0	2.7	2.0	1.8	-
2732	Book printing	38.5	37.6	38.3	38.6	-	5.0	3.7	3.8	4.2	-
274	Miscellaneous publishing	35.0	34.5	35.6	35.7	-	2.1	2.0	1.6	1.7	-
275	Commercial printing	39.0	37.6	38.1	38.5	-	3.7	2.6	2.9	3.2	-
2751	Commercial printing, letterpress	38.6	37.1	37.1	37.6	-	3.2	2.2	2.4	2.5	-
2752	Commercial printing, lithographic	39.3	36.0	38.7	39.1	-	3.9	2.9	3.4	3.7	-
276	Manifold business forms	41.1	39.3	40.5	41.1	-	3.5	1.9	3.5	3.5	-
278	Blankbooks and bookbinding	38.9	38.1	38.7	39.0	-	2.2	1.6	2.0	2.3	-
279	Printing trade service	38.2	37.0	38.2	37.4	-	3.5	2.5	3.4	3.1	-
28	CHEMICALS AND ALLIED PRODUCTS	41.9	41.9	41.6	41.8	41.6	3.5	3.5	3.2	3.4	-
281	Industrial inorganic chemicals	42.0	42.2	41.8	41.7	-	3.4	4.5	3.4	3.5	-
2819	Industrial inorganic chemicals, nec	41.5	41.6	41.7	41.8	-	2.9	4.1	3.0	3.2	-
282	Plastics materials and synthetics	42.2	43.3	41.9	42.0	-	3.3	3.7	3.2	3.2	-
2821	Plastics materials and resins	43.3	43.2	42.7	42.7	-	4.3	4.5	4.4	4.4	-
2824	Organic fibers, noncellulosic	41.5	43.6	41.2	41.5	-	2.4	3.2	2.1	2.1	-
283	Drugs	41.4	40.3	40.8	41.3	-	3.0	2.2	2.7	3.3	-
2834	Pharmaceutical preparations	41.0	39.8	40.2	40.8	-	3.0	2.0	2.6	3.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$285.63	\$274.70	\$290.94	\$297.41	-	\$7.07	\$7.08	\$7.31	\$7.38	-
2841	Soap and other detergents	392.64	374.54	405.72	415.78	-	9.11	9.18	9.66	9.76	-
2844	Toilet preparations	219.65	210.90	220.79	226.01	-	5.72	5.70	5.72	5.81	-
2842, 3	Polishing, sanitation, and finishing preparations	257.68	252.20	268.13	273.32	-	6.41	6.45	6.84	6.85	-
285	Paints and allied products	278.72	270.40	285.91	295.57	-	6.70	6.66	7.13	7.28	-
286	Industrial organic chemicals	379.26	400.03	401.76	403.99	-	8.82	9.03	9.30	9.33	-
2865	Cyclic crudes and intermediates	354.01	359.07	369.28	370.60	-	8.31	8.37	8.73	8.72	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	388.33	415.30	415.07	417.25	-	9.01	9.27	9.52	9.57	-
287	Agricultural chemicals	297.82	305.81	336.78	338.00	-	6.91	7.03	7.76	7.77	-
289	Miscellaneous chemical products	282.62	284.82	307.69	307.69	-	6.81	6.53	7.45	7.45	-
	PETROLEUM AND COAL PRODUCTS	407.78	414.42	372.24	370.93	\$410.06	9.31	9.44	9.40	9.25	\$9.81
291	Petroleum refining	439.62	451.72	408.81	409.89	-	10.06	10.22	10.73	10.51	-
295	Paving and roofing materials	308.22	304.41	308.17	306.13	-	6.88	6.95	7.15	7.22	-
	RUBBER AND MISC. PLASTICS PRODUCTS	242.60	229.31	249.38	250.57	248.06	5.86	5.82	6.25	6.28	6.28
301	Tires and inner tubes	368.24	344.04	369.15	366.68	-	8.35	8.29	9.16	9.19	-
302	Rubber and plastics footwear	153.85	146.97	173.84	175.38	-	4.07	4.06	4.39	4.44	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	247.10	231.27	274.98	275.64	-	5.94	5.93	6.61	6.61	-
306	Fabricated rubber products, nec	229.48	215.67	237.00	237.37	-	5.57	5.53	6.00	6.04	-
307	Miscellaneous plastics products	219.35	208.01	230.22	233.78	-	5.35	5.32	5.77	5.83	-
	LEATHER AND LEATHER PRODUCTS	149.70	147.55	164.86	164.16	164.26	4.17	4.18	4.48	4.51	4.55
311	Leather tanning and finishing	208.36	204.88	237.39	241.19	-	5.37	5.42	5.92	5.97	-
314	Footwear, except rubber	142.97	141.75	159.65	158.04	-	4.05	4.05	4.35	4.39	-
3143	Men's footwear, except athletic	157.03	153.61	171.29	173.07	-	4.21	4.22	4.58	4.64	-
3144	Women's footwear, except athletic	130.65	130.32	149.76	146.51	-	3.90	3.89	4.16	4.21	-
316	Luggage	150.73	146.20	166.85	163.22	-	4.27	4.25	4.70	4.65	-
317	Handbags and personal leather goods	147.68	142.36	153.97	154.45	-	3.97	4.01	4.23	4.22	-
	TRANSPORTATION AND PUBLIC UTILITIES	314.42	307.32	341.02	342.61	344.12	7.90	7.88	8.59	8.63	8.69
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	379.30	381.50	(*)	(*)	-	8.64	8.71	(*)	(*)	-
	LOCAL AND INTERURBAN PASSENGER TRANSIT	191.87	199.99	203.95	207.65	-	5.66	5.78	6.07	6.18	-
411	Local and suburban transportation	281.52	297.82	278.90	274.53	-	6.90	6.91	6.99	6.95	-
413	Intercity highway transportation	302.28	302.10	307.15	336.53	-	8.42	8.51	9.48	9.84	-
	TRUCKING AND WAREHOUSING	327.64	294.20	342.91	345.35	-	8.11	7.93	8.77	8.81	-
421, 3	Trucking and trucking terminals	334.53	298.96	349.95	352.41	-	8.26	8.06	8.95	8.99	-
422	Public warehousing	221.76	218.08	239.09	237.88	-	5.76	5.80	6.21	6.26	-
	PIPE LINES, EXCEPT NATURAL GAS	393.55	398.13	441.79	444.98	-	9.26	9.64	10.62	10.62	-
	COMMUNICATION	297.86	298.98	329.20	330.77	-	7.56	7.55	8.23	8.29	-
481	Telephone communication	308.09	308.83	342.19	343.36	-	7.78	7.74	8.47	8.52	-
4817	Switchboard operating employees	211.55	228.60	223.80	219.65	-	6.43	6.55	7.06	7.04	-
4818	Line construction employees ³	412.34	413.16	428.43	439.49	-	9.35	9.39	10.01	10.08	-
483	Radio and television broadcasting	250.61	255.94	267.29	270.27	-	6.63	6.70	7.09	7.15	-
	ELECTRIC, GAS, AND SANITARY SERVICES	330.79	334.51	356.93	359.42	-	7.99	8.08	8.58	8.64	-
491	Electric services	337.30	341.46	370.97	374.85	-	8.05	8.13	8.77	8.82	-
492	Gas production and distribution	301.44	304.84	323.14	324.41	-	7.48	7.64	7.92	8.07	-
493	Combination utility services	367.38	371.23	386.26	385.63	-	8.81	8.86	9.33	9.36	-
495	Sanitary services	267.73	266.67	278.94	280.84	-	6.53	6.52	6.82	6.80	-
	WHOLESALE AND RETAIL TRADE	161.35	162.50	170.98	172.48	171.30	4.98	5.00	5.36	5.39	5.37
50, 51	WHOLESALE TRADE	242.35	243.18	259.58	261.89	262.27	6.23	6.30	6.76	6.82	6.83
	WHOLESALE TRADE-DURABLE GOODS	245.86	245.07	260.45	263.55	-	6.24	6.30	6.73	6.81	-
501	Motor vehicles and automotive equipment	227.37	226.53	236.36	239.02	-	5.86	5.93	6.22	6.29	-
502	Furniture and home furnishings	210.75	217.93	223.38	228.29	-	5.62	5.89	6.07	6.17	-
503	Lumber and construction materials	248.75	246.41	259.40	259.24	-	6.25	6.27	6.80	6.84	-
504	Sporting goods, toys, and hobby goods	236.33	239.09	263.15	260.51	-	6.37	6.41	6.98	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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 p	Apr. 1980 p	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 p	Apr. 1980 p
		CHEMICALS AND ALLIED PRODUCTS—Cont'd									
284	Soap, cleaners, and toilet goods	40.4	38.8	39.8	40.3	-	3.2	2.4	2.6	2.9	-
2841	Soap and other detergents	43.1	40.8	42.0	42.6	-	5.0	4.0	3.9	4.3	-
2844	Toilet preparations	38.4	37.0	38.6	38.9	-	1.9	1.1	2.1	2.3	-
2842, 3	Polishing, sanitation, and finishing preparations	40.2	39.1	39.2	39.9	-	3.2	2.4	1.8	2.2	-
285	Paints and allied products	41.6	40.6	40.1	40.6	-	3.4	2.4	2.3	2.7	-
286	Industrial organic chemicals	43.0	44.3	43.2	43.3	-	3.9	4.1	3.7	4.0	-
2865	Cyclic crudes and intermediates	42.6	42.9	42.3	42.5	-	4.5	4.2	3.5	3.9	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	43.1	44.8	43.6	43.6	-	3.7	4.1	3.8	4.1	-
287	Agricultural chemicals	43.1	43.5	43.4	43.5	-	5.1	5.4	5.0	5.1	-
289	Miscellaneous chemical products	41.5	41.1	41.3	41.3	-	3.2	3.0	3.2	3.2	-
PETROLEUM AND COAL PRODUCTS											
29	PETROLEUM AND COAL PRODUCTS	43.8	43.9	39.6	40.1	41.8	4.1	4.4	4.2	4.2	-
291	Petroleum refining	43.7	44.2	38.1	39.0	-	3.5	4.0	3.6	3.7	-
296	Paving and roofing materials	44.8	43.8	43.1	42.4	-	6.7	6.3	6.2	5.6	-
RUBBER AND MISC. PLASTICS PRODUCTS											
30	RUBBER AND MISC. PLASTICS PRODUCTS	41.4	39.4	39.9	39.9	39.5	3.8	2.4	2.7	2.7	-
301	Tires and inner tubes	44.1	41.5	40.3	39.9	-	5.4	3.4	2.0	1.8	-
302	Rubber and plastics footwear	37.8	36.2	39.6	39.5	-	1.8	1.1	2.5	2.7	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.6	35.0	41.6	41.7	-	4.4	2.4	2.3	2.0	-
306	Fabricated rubber products, nec	41.2	35.0	39.5	39.3	-	3.4	2.0	2.5	2.4	-
307	Miscellaneous plastics products	41.0	39.1	39.9	40.1	-	3.5	2.3	3.0	3.1	-
LEATHER AND LEATHER PRODUCTS											
31	LEATHER AND LEATHER PRODUCTS	35.9	35.3	36.8	36.4	36.1	1.2	.9	1.4	1.6	-
311	Leather tanning and finishing	38.8	37.8	40.1	40.4	-	2.3	1.9	2.9	3.3	-
314	Footwear, except rubber	35.3	35.0	36.7	36.0	-	1.0	.7	1.2	1.4	-
3143	Men's footwear, except athletic	37.3	36.4	37.4	37.3	-	1.0	.6	1.3	1.6	-
3144	Women's footwear, except athletic	33.5	33.5	36.0	34.8	-	1.1	.9	1.1	1.1	-
316	Luggage	35.3	34.4	35.5	35.1	-	1.4	.7	1.9	2.1	-
317	Handbags and personal leather goods	37.2	35.5	36.4	36.6	-	1.6	1.1	1.3	1.7	-
TRANSPORTATION AND PUBLIC UTILITIES											
RAILROAD TRANSPORTATION:											
4011	Class I railroads ²	43.9	43.8	(*)	(*)	-	-	-	-	-	-
LOCAL AND INTERURBAN PASSENGER TRANSIT											
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	33.9	34.6	33.6	33.6	-	-	-	-	-	-
411	Local and suburban transportation	40.8	43.1	39.9	39.5	-	-	-	-	-	-
413	Intercity highway transportation	35.9	40.2	32.4	34.2	-	-	-	-	-	-
TRUCKING AND WAREHOUSING											
42	TRUCKING AND WAREHOUSING	40.4	37.1	39.1	39.2	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	40.5	37.0	39.1	39.2	-	-	-	-	-	-
422	Public warehousing	38.5	37.6	38.5	38.0	-	-	-	-	-	-
PIPE LINES, EXCEPT NATURAL GAS											
46	PIPE LINES, EXCEPT NATURAL GAS	42.5	41.3	41.6	41.9	-	-	-	-	-	-
COMMUNICATION											
48	COMMUNICATION	39.4	39.6	40.0	39.9	-	-	-	-	-	-
481	Telephone communication	39.6	39.9	40.4	40.3	-	-	-	-	-	-
4817	Switchboard operating employees ³	32.9	34.9	31.7	31.2	-	-	-	-	-	-
4818	Line construction employees ⁴	44.1	44.0	42.8	43.6	-	-	-	-	-	-
483	Radio and television broadcasting	37.8	38.2	37.7	37.8	-	-	-	-	-	-
ELECTRIC, GAS, AND SANITARY SERVICES											
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.4	41.4	41.6	41.6	-	-	-	-	-	-
491	Electric services	41.9	42.0	42.3	42.5	-	-	-	-	-	-
492	Gas production and distribution	40.3	39.9	40.8	40.2	-	-	-	-	-	-
493	Combination utility services	41.7	41.9	41.4	41.2	-	-	-	-	-	-
495	Sanitary services	41.0	40.9	40.9	41.3	-	-	-	-	-	-
WHOLESALE AND RETAIL TRADE											
50, 51	WHOLESALE AND RETAIL TRADE	32.4	32.5	31.9	32.0	31.9	-	-	-	-	-
WHOLESALE TRADE											
50	WHOLESALE TRADE	38.9	38.6	38.4	38.4	38.4	-	-	-	-	-
WHOLESALE TRADE-DURABLE GOODS											
501	WHOLESALE TRADE-DURABLE GOODS	39.4	38.9	38.7	38.7	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.8	38.2	38.0	38.0	-	-	-	-	-	-
502	Furniture and home furnishings	37.5	37.0	36.8	37.0	-	-	-	-	-	-
503	Lumber and construction materials	39.8	39.3	38.0	37.9	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.1	37.3	37.7	37.7	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^P	Apr. 1980 ^P	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^P	Apr. 1980 ^P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	\$288.55	\$285.59	\$316.01	\$319.20	-	\$7.16	\$7.23	\$7.92	\$7.96	-
506	Electrical goods	244.72	242.70	268.19	271.29	-	6.34	6.37	6.53	7.01	-
507	Hardware, plumbing, and heating equipment	228.10	229.74	244.10	245.63	-	5.94	6.03	6.39	6.43	-
508	Machinery, equipment, and supplies	258.80	259.24	273.14	277.07	-	6.47	6.53	6.95	7.05	-
509	Miscellaneous durable goods	213.86	207.82	220.20	221.38	-	5.36	5.37	5.69	5.75	-
51	WHOLESALE TRADE-NONDURABLE GOODS	237.60	240.66	257.34	259.92	-	6.22	6.30	6.79	6.84	-
511	Paper and paper products	276.74	278.21	286.27	288.59	-	7.52	7.56	7.93	7.95	-
512	Drugs, proprietaries, and sundries	239.77	243.00	261.10	262.67	-	6.36	6.48	7.00	7.08	-
513	Apparel, piece goods, and notions	212.91	214.97	227.65	232.10	-	5.77	5.81	6.22	6.29	-
514	Groceries and related products	238.37	243.07	260.82	261.97	-	6.24	6.33	6.81	6.84	-
516	Chemicals and allied products	284.71	290.07	319.51	319.48	-	7.10	7.27	8.13	8.15	-
517	Petroleum and petroleum products	296.11	303.67	339.69	344.21	-	7.44	7.63	8.45	8.52	-
518	Beer, wine, and distilled beverages	269.28	270.05	278.60	283.44	-	7.20	7.24	7.55	7.64	-
519	Miscellaneous nondurable goods	196.22	197.49	210.90	213.16	-	5.11	5.17	5.55	5.58	-
52-59	RETAIL TRADE	135.44	137.39	142.44	143.22	\$142.15	4.47	4.49	4.78	4.79	\$4.77
52	BUILDING MATERIALS AND GARDEN SUPPLIES	181.76	182.02	189.80	191.57	-	4.86	4.88	5.20	5.22	-
521	Lumber and other building materials	201.06	201.22	207.90	211.62	-	5.09	5.12	5.40	5.44	-
525	Hardware stores	143.90	144.58	152.85	153.18	-	4.22	4.24	4.59	4.60	-
53	GENERAL MERCHANDISE STORES	125.28	126.00	132.16	136.01	-	4.32	4.33	4.67	4.69	-
531	Department stores	130.21	130.50	137.62	141.32	-	4.49	4.50	4.88	4.89	-
533	Variety stores	106.14	108.34	108.38	111.43	-	3.66	3.66	3.75	3.79	-
539	Misc. general merchandise stores	99.53	101.91	106.50	109.13	-	3.48	3.49	3.75	3.75	-
54	FOOD STORES	172.92	178.64	183.21	184.47	-	5.56	5.60	5.91	5.97	-
541	Grocery stores	179.61	185.79	189.38	190.64	-	5.72	5.77	6.07	6.13	-
546	Retail bakeries	122.55	128.83	133.34	133.77	-	4.27	4.28	4.52	4.55	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	196.50	200.94	207.95	209.62	-	5.24	5.33	5.59	5.65	-
551, 2	New and used car dealers	241.18	245.70	247.54	251.08	-	6.20	6.30	6.48	6.59	-
553	Auto and home supply stores	187.86	192.38	202.00	202.40	-	4.65	4.75	5.00	5.01	-
554	Gasoline service stations	134.90	135.93	149.64	150.92	-	3.91	3.94	4.35	4.40	-
56	APPAREL AND ACCESSORY STORES	112.90	117.31	117.32	118.16	-	3.92	3.95	4.22	4.22	-
561	Men's and boys' clothing and furnishings	142.72	146.45	154.72	153.12	-	4.46	4.52	4.85	4.77	-
562	Women's ready-to-wear stores	100.01	103.13	105.21	105.07	-	3.65	3.67	3.97	3.98	-
565	Family clothing stores	108.00	113.28	109.21	113.30	-	3.75	3.84	4.06	4.12	-
566	Shoe stores	117.58	127.30	119.13	120.96	-	4.14	4.33	4.27	4.32	-
57	FURNITURE AND HOME FURNISHINGS STORES	176.09	177.32	186.53	188.65	-	5.06	5.11	5.36	5.39	-
571	Furniture and home furnishings	181.31	181.13	191.25	193.95	-	5.21	5.25	5.48	5.51	-
572	Household appliance stores	192.96	192.25	194.10	198.69	-	5.36	5.37	5.53	5.55	-
573	Radio, television, and music stores	153.11	158.47	170.32	168.98	-	4.49	4.62	4.98	4.97	-
58	EATING AND DRINKING PLACES⁵	89.52	90.55	93.18	94.17	-	3.43	3.43	3.64	3.65	-
59	MISCELLANEOUS RETAIL	138.29	138.29	149.61	148.66	-	4.39	4.39	4.78	4.78	-
591	Drug stores and proprietary stores	122.61	123.62	133.50	133.50	-	4.02	4.04	4.45	4.45	-
594	Miscellaneous shopping goods stores	124.92	124.20	134.68	134.10	-	4.15	4.14	4.55	4.50	-
596	Nonstore retailers	171.27	166.72	181.35	184.66	-	5.19	5.21	5.58	5.63	-
598	Fuel and ice dealers	225.01	224.84	255.60	244.83	-	5.74	5.78	6.39	6.31	-
599	Retail stores, nec	141.59	146.83	155.69	154.70	-	4.33	4.37	4.62	4.76	-
	FINANCE, INSURANCE, AND REAL ESTATE⁶	187.31	190.37	204.57	207.69	206.18	5.16	5.23	5.62	5.69	5.68
60	BANKING	160.89	163.97	173.76	175.69	-	4.42	4.48	4.80	4.84	-
602	Commercial and stock savings banks	158.34	161.04	170.75	172.79	-	4.35	4.40	4.73	4.76	-
61	CREDIT AGENCIES OTHER THAN BANKS	166.08	171.49	183.63	187.36	-	4.55	4.66	4.99	5.05	-
612	Savings and loan associations	158.51	165.62	174.12	178.61	-	4.44	4.55	4.81	4.88	-
614	Personal credit institutions	162.29	167.16	180.32	181.92	-	4.41	4.53	4.90	4.93	-
63	INSURANCE CARRIERS	206.64	207.94	225.90	230.86	-	5.54	5.56	6.04	6.14	-
631	Life insurance	207.57	211.30	231.86	238.01	-	5.61	5.59	6.15	6.33	-
632	Medical service and health insurance	201.47	198.97	222.12	228.69	-	5.33	5.32	5.83	5.94	-
633	Fire, marine, and casualty insurance	207.02	206.82	221.90	224.59	-	5.58	5.62	6.03	6.07	-

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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 P	Apr. 1980 P	Mar. 1979	Apr. 1979	Feb. 1980 C	Mar. 1980 P	Apr. 1980 P
	WHOLESALE TRADE-DURABLE										
	GOODS—Continued										
506	Metals and minerals, except petroleum	40.3	39.5	39.9	40.1	-	-	-	-	-	
506	Electrical goods	38.6	38.1	38.7	38.7	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.4	38.1	38.2	38.2	-	-	-	-	-	
508	Machinery, equipment, and supplies	40.0	39.7	39.3	39.3	-	-	-	-	-	
509	Miscellaneous durable goods	39.9	38.7	38.7	38.5	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS ..	38.2	38.2	37.9	38.0	-	-	-	-	-	
511	Paper and paper products	36.8	36.8	36.1	36.3	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	37.7	37.5	37.3	37.1	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.9	37.0	36.6	36.9	-	-	-	-	-	
514	Groceries and related products	38.2	38.4	38.3	38.3	-	-	-	-	-	
516	Chemicals and allied products	40.1	35.9	39.3	39.2	-	-	-	-	-	
517	Petroleum and petroleum products	39.8	39.8	40.2	40.4	-	-	-	-	-	
518	Beer, wine, and distilled beverages	37.4	37.3	36.9	37.1	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.4	38.2	38.0	38.2	-	-	-	-	-	
52-59	RETAIL TRADE	30.3	30.6	29.8	29.9	29.8	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	37.4	37.3	36.5	36.7	-	-	-	-	-	
521	Lumber and other building materials	39.5	35.3	38.5	38.9	-	-	-	-	-	
525	Hardware stores	34.1	34.1	33.3	33.3	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	29.0	29.1	28.3	29.0	-	-	-	-	-	
531	Department stores	29.0	25.0	28.2	28.9	-	-	-	-	-	
533	Variety stores	29.0	29.6	28.9	29.4	-	-	-	-	-	
539	Misc. general merchandise stores	28.6	25.2	28.4	29.1	-	-	-	-	-	
54	FOOD STORES	31.1	31.9	31.0	30.9	-	-	-	-	-	
541	Grocery stores	31.4	32.2	31.2	31.1	-	-	-	-	-	
546	Retail bakeries	28.7	30.1	29.5	29.4	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	37.5	37.7	37.2	37.1	-	-	-	-	-	
551, 2	New and used car dealers	38.9	39.0	38.2	38.1	-	-	-	-	-	
553	Auto and home supply stores	40.4	40.5	40.4	40.4	-	-	-	-	-	
554	Gasoline service stations	34.5	34.5	34.4	34.3	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	28.8	29.4	27.8	28.0	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	32.0	32.4	31.9	32.1	-	-	-	-	-	
562	Women's ready-to-wear stores	27.4	28.1	26.5	26.4	-	-	-	-	-	
565	Family clothing stores	28.8	29.5	26.9	27.5	-	-	-	-	-	
566	Shoe stores	28.4	25.4	27.9	28.0	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS										
	STORES	34.8	34.7	34.8	35.0	-	-	-	-	-	
571	Furniture and home furnishings	34.8	34.5	34.9	35.2	-	-	-	-	-	
572	Household appliance stores	36.0	35.8	35.1	35.8	-	-	-	-	-	
573	Radio, television, and music stores	34.1	34.3	34.2	34.0	-	-	-	-	-	
58	EATING AND DRINKING PLACES ⁵	26.1	26.4	25.6	25.8	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	31.5	31.5	31.3	31.1	-	-	-	-	-	
591	Drug stores and proprietary stores	30.5	30.6	30.0	30.0	-	-	-	-	-	
594	Miscellaneous shopping goods stores	30.1	30.0	29.6	29.8	-	-	-	-	-	
596	Nonstore retailers	33.0	32.0	32.5	32.8	-	-	-	-	-	
598	Fuel and ice dealers	39.2	38.9	40.0	38.8	-	-	-	-	-	
599	Retail stores, nec	32.7	33.6	33.7	32.5	-	-	-	-	-	
	FINANCE, INSURANCE, AND REAL										
	ESTATE ⁶	36.3	36.4	36.4	36.5	36.3	-	-	-	-	
60	BANKING	36.4	36.6	36.2	36.3	-	-	-	-	-	
602	Commercial and stock savings banks	36.4	36.6	36.1	36.3	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.5	36.8	36.8	37.1	-	-	-	-	-	
612	Savings and loan associations	35.7	36.4	36.2	36.6	-	-	-	-	-	
614	Personal credit institutions	36.8	36.9	36.8	36.9	-	-	-	-	-	
63	INSURANCE CARRIERS	37.3	37.4	37.4	37.6	-	-	-	-	-	
631	Life insurance	37.0	37.8	37.7	37.6	-	-	-	-	-	
632	Medical service and health insurance	37.8	37.4	38.1	38.5	-	-	-	-	-	
633	Fire, marine, and casualty insurance	37.1	36.8	36.8	37.0	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 p	Apr. 1980 p	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 p	Apr. 1980 p
	SERVICES	\$ 171.48	\$ 171.93	\$ 185.25	\$ 186.23	\$ 186.23	\$ 5.26	\$ 5.29	\$ 5.70	\$ 5.73	\$ 5.73
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	119.50	121.52	127.62	130.90	-	3.88	3.92	4.24	4.25	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	136.46	137.69	146.06	147.61	-	3.99	4.02	4.36	4.38	-
723	Beauty shops	125.15	129.69	125.63	129.08	-	4.05	4.17	4.16	4.26	-
	BUSINESS SERVICES										
73	Advertising	174.31	175.07	190.71	192.86	-	5.38	5.42	5.85	5.88	-
731	Services to buildings	265.72	271.76	278.39	288.72	-	7.32	7.57	7.82	8.11	-
734	Computer and data processing services	127.03	125.89	137.50	137.32	-	4.74	4.68	5.00	5.03	-
737	Computer and data processing services	223.50	226.44	248.40	252.70	-	6.14	6.17	6.90	7.00	-
	AUTO REPAIR, SERVICES, AND GARAGES ...										
75	Automotive repair shops	201.91	205.30	223.11	220.93	-	5.37	5.46	6.03	6.02	-
753	Automotive repair shops	225.60	226.91	248.57	244.74	-	5.64	5.73	6.39	6.39	-
76	MISCELLANEOUS REPAIR SERVICES	254.20	248.46	267.70	271.15	-	6.20	6.29	6.76	6.83	-
	MOTION PICTURES										
78	Motion picture production and services	209.48	194.84	232.13	238.25	-	7.73	7.27	8.35	8.57	-
781	Motion picture production and services	411.10	396.90	455.83	479.58	-	10.79	10.50	11.54	12.08	-
79	AMUSEMENT AND RECREATION SERVICES ..	147.26	150.12	158.95	154.41	-	4.86	4.69	5.37	5.38	-
	HEALTH SERVICES										
80	Offices of physicians	165.64	167.13	180.07	179.95	-	5.05	5.08	5.49	5.52	-
801	Offices of physicians	173.05	173.76	186.23	184.06	-	5.26	5.33	5.73	5.77	-
802	Offices of dentists	147.83	149.64	156.27	158.05	-	5.08	5.16	5.37	5.45	-
805	Nursing and personal care facilities	116.66	119.11	125.36	126.07	-	3.80	3.83	4.11	4.12	-
806	Hospitals	181.37	182.04	199.73	198.74	-	5.35	5.37	5.84	5.88	-
81	LEGAL SERVICES	219.76	223.45	246.40	251.60	-	6.56	6.67	7.02	7.23	-
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	289.81	291.43	308.56	315.09	-	7.45	7.55	8.12	8.27	-
891	Engineering and architectural services	312.78	311.42	335.13	344.43	-	8.02	8.11	8.75	8.90	-
893	Accounting, auditing, and bookkeeping	254.16	262.54	265.73	269.75	-	6.37	6.58	6.92	7.08	-

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.

**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				
		Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^p	Apr. 1980 ^p	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 ^p	Apr. 1980 ^p
	SERVICES	32.6	32.5	32.5	32.5	32.5	-	-	-	-	-
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	30.8	31.0	30.1	30.8	-	-	-	-	-	-
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	34.2	34.3	33.5	33.7	-	-	-	-	-	-
723	Beauty shops	30.9	31.1	30.2	30.3	-	-	-	-	-	-
	BUSINESS SERVICES										
73	Advertising	32.4	32.3	32.6	32.8	-	-	-	-	-	-
731	Services to buildings	36.3	35.9	35.6	35.6	-	-	-	-	-	-
734	Computer and data processing services	26.8	26.9	27.5	27.3	-	-	-	-	-	-
737	Computer and data processing services	36.4	36.7	36.0	36.1	-	-	-	-	-	-
	AUTO REPAIR, SERVICES, AND GARAGES										
75	Automotive repair shops	37.6	37.6	37.0	36.7	-	-	-	-	-	-
753	Automotive repair shops	40.0	39.6	38.9	38.3	-	-	-	-	-	-
76	MISCELLANEOUS REPAIR SERVICES	41.0	39.5	39.6	39.7	-	-	-	-	-	-
	MOTION PICTURES										
78	Motion picture production and services	27.1	26.8	27.8	27.8	-	-	-	-	-	-
781	Motion picture production and services	38.1	37.8	39.5	39.7	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	30.3	30.7	29.6	28.7	-	-	-	-	-	-
	HEALTH SERVICES										
80	Offices of physicians	32.8	32.5	32.8	32.6	-	-	-	-	-	-
801	Offices of physicians	32.9	32.6	32.5	31.9	-	-	-	-	-	-
802	Offices of dentists	29.1	29.0	29.1	29.0	-	-	-	-	-	-
805	Nursing and personal care facilities	30.7	31.1	30.5	30.6	-	-	-	-	-	-
806	Hospitals	33.9	33.9	34.2	33.8	-	-	-	-	-	-
81	LEGAL SERVICES	33.5	33.5	35.1	34.8	-	-	-	-	-	-
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	38.9	38.6	38.0	38.1	-	-	-	-	-	-
891	Engineering and architectural services	39.0	38.4	38.3	38.7	-	-	-	-	-	-
893	Accounting, auditing, and bookkeeping	39.9	39.9	38.4	38.1	-	-	-	-	-	-

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				
	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980 _p	Apr. 1980 _p
MANUFACTURING	\$6.28	\$6.34	\$6.75	\$6.80	\$6.84
DURABLE GOODS	6.68	6.73	7.18	7.26	7.29
Lumber and wood products	5.59	5.67	6.11	6.12	-
Furniture and fixtures	4.81	4.84	5.21	5.25	-
Stone, clay, and glass products	6.29	6.39	6.82	6.93	-
Primary metal industries	8.32	8.55	9.07	9.08	-
Fabricated metal products	6.43	6.44	6.86	6.95	-
Machinery, except electrical	6.83	6.87	7.37	7.43	-
Electric and electronic equipment	5.95	5.97	6.51	6.57	-
Transportation equipment	7.94	7.98	8.52	8.68	-
Instruments and related products	5.85	5.89	6.38	6.41	-
Miscellaneous manufacturing industries	4.81	4.86	5.19	5.23	-
NONDURABLE GOODS	5.63	5.71	6.06	6.07	6.15
Food and kindred products	5.85	5.94	6.37	6.40	-
Tobacco manufactures	6.56	6.76	7.32	7.51	-
Textile mill products	4.33	4.35	4.69	4.70	-
Apparel and other textile products	4.13	4.15	4.39	4.42	-
Paper and allied products	6.52	6.60	7.16	7.18	-
Printing and publishing	6.51	6.52	7.01	7.04	-
Chemicals and allied products	7.07	7.20	7.70	7.69	-
Petroleum and coal products	8.90	9.00	8.92	8.79	-
Rubber and misc. plastics products	5.60	5.65	6.04	6.07	-
Leather and leather products	4.10	4.13	4.40	4.41	-

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		
	Mar. 1979	Feb. 1980	Mar. p 1980	Mar. 1979	Feb. 1980	Mar. p 1980	Mar. 1979	Feb. 1980	Mar. p 1980
TOTAL PRIVATE:									
Current dollars	\$214.91	\$227.39	\$229.15	\$174.35	\$183.44	\$184.67	\$190.93	\$200.55	\$201.89
1967 dollars	102.68	96.15	95.52	83.30	77.56	76.98	91.22	84.80	84.16
MINING:									
Current dollars	354.78	383.62	387.10	268.81	286.65	288.74	295.74	316.75	319.22
1967 dollars	169.51	162.21	161.36	128.43	121.21	120.36	141.30	133.93	133.06
CONSTRUCTION:									
Current dollars	331.89	340.80	348.00	254.19	259.88	264.48	279.06	285.55	290.80
1967 dollars	158.57	144.10	145.06	121.45	109.89	110.25	133.33	120.74	121.22
MANUFACTURING:									
Current dollars	266.34	278.20	280.99	210.65	218.71	220.61	230.10	239.10	241.22
1967 dollars	127.25	117.63	117.13	100.65	92.48	91.96	109.94	101.10	100.55
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	314.42	341.02	342.61	243.03	260.02	261.04	266.33	285.71	286.87
1967 dollars	150.22	144.19	142.81	116.12	109.95	108.81	127.25	120.81	119.58
WHOLESALE AND RETAIL TRADE:									
Current dollars	161.35	170.98	172.48	134.89	142.10	143.23	151.46	159.15	160.16
1967 dollars	77.09	72.30	71.90	64.45	60.08	59.70	72.37	67.29	66.76
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	187.31	204.57	207.69	154.24	166.82	169.09	170.06	182.88	185.31
1967 dollars	89.49	86.50	86.57	73.69	70.54	70.48	81.25	77.33	77.24
SERVICES:									
Current dollars	171.48	185.25	186.23	142.48	152.74	153.46	159.49	168.72	169.36
1967 dollars	81.93	78.33	77.63	68.07	64.58	63.97	76.20	71.34	70.60
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	209.3	236.5	239.9						

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

[1967=100]

Industry division and group	Mar. 1979	Apr. 1979	Feb. 1980	Mar. p 1980	Apr. p 1980
	Hours				
TOTAL PRIVATE	122.9	122.0	122.4	123.3	123.0
GOODS-PRODUCING	108.2	104.8	103.8	104.6	103.2
MINING	149.1	148.9	158.5	159.8	160.8
CONSTRUCTION	119.0	120.2	114.0	116.0	121.6
MANUFACTURING	104.8	100.6	100.1	100.6	98.0
DURABLE GOODS ...	109.2	104.0	103.2	103.9	100.1
Lumber and wood products.....	111.6	110.4	102.1	100.8	92.7
Furniture and fixtures.....	108.8	103.4	104.0	104.1	101.9
Stone, clay, and glass products.....	110.3	110.2	101.7	103.9	102.4
Primary metal industries.....	99.3	99.5	91.0	90.9	89.6
Fabricated metal products.....	107.6	101.3	103.4	104.2	100.8
Machinery, except electrical.....	118.8	112.9	117.4	117.9	115.5
Electric and electronic equipment.....	108.0	102.9	107.7	107.8	105.5
Transportation equipment.....	105.3	94.2	89.9	92.0	82.6
Instruments and related products.....	129.4	125.6	128.7	129.7	129.1
Miscellaneous manufacturing industries.....	100.0	95.7	96.1	97.5	96.1
NONDURABLE GOODS	98.5	95.5	95.6	95.9	94.9
Food and kindred products.....	92.1	89.9	89.0	88.8	87.3
Tobacco manufactures.....	68.0	64.8	64.2	62.5	58.6
Textile mill products.....	90.4	86.0	91.0	91.5	88.6
Apparel and other textile products.....	90.2	86.0	88.7	89.2	88.5
Paper and allied products.....	101.1	99.3	101.3	101.4	101.3
Printing and publishing.....	103.3	100.9	104.7	105.4	104.1
Chemicals and allied products.....	107.9	108.1	107.3	108.2	108.8
Petroleum and coal products.....	121.4	123.5	71.7	70.0	90.2
Rubber and misc. plastics products.....	153.6	145.2	139.5	139.7	135.0
Leather and leather products.....	65.0	63.6	63.9	63.4	63.0
SERVICE-PRODUCING	133.2	134.0 ⁱ	135.3	136.4	136.7
TRANSPORTATION AND PUBLIC UTILITIES	111.9	107.9	113.1	113.4	113.3
WHOLESALE AND RETAIL TRADE	126.5	128.6	126.4	127.3	127.6
WHOLESALE TRADE	130.8	130.3	132.0	132.7	132.0
RETAIL TRADE	124.7	127.9	124.2	125.2	125.9
FINANCE, INSURANCE, AND REAL ESTATE	143.2	144.6	147.9	149.2	149.2
SERVICES	149.3	150.4	154.1	155.7	156.5

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	Mar. 1979	Apr. 1979	Feb. 1980	Mar. 1980p	Apr. 1980p
	Payrolls				
TOTAL PRIVATE	276.3	274.4	295.1	299.3	298.8
GOODS-PRODUCING	250.9	244.0	257.3	261.3	259.4
MINING	386.7	398.8	441.2	448.2	454.0
CONSTRUCTION	259.5	263.7	266.0	271.8	283.9
MANUFACTURING	243.4	233.0	247.9	251.4	245.4
DURABLE GOODS	254.7	241.2	256.5	261.1	251.8
Lumber and wood products	275.4	275.3	273.7	270.5	246.2
Furniture and fixtures	231.6	219.6	238.5	241.0	236.5
Stone, clay, and glass products	260.0	262.9	257.0	267.3	265.9
Primary metal industries	260.0	265.7	257.3	256.9	255.8
Fabricated metal products	242.7	225.2	247.2	252.4	244.1
Machinery, except electrical	267.8	251.2	283.8	287.5	282.4
Electric and electronic equipment	239.8	226.7	260.5	263.6	259.2
Transportation equipment	258.2	226.7	231.4	241.6	215.9
Instruments and related products	274.6	265.7	297.1	300.7	301.5
Miscellaneous manufacturing industries	210.9	201.9	218.0	223.3	221.5
NONDURABLE GOODS	224.1	219.0	233.2	234.8	234.7
Food and kindred products	213.6	210.9	224.1	224.8	222.6
Tobacco manufactures	199.1	194.3	209.7	210.0	200.9
Textile mill products	198.8	187.2	216.7	218.8	212.8
Apparel and other textile products	186.4	177.6	194.9	197.5	194.9
Paper and allied products	242.1	239.2	264.7	265.6	267.9
Printing and publishing	213.2	206.9	231.6	234.6	232.0
Chemicals and allied products	255.9	261.2	276.5	279.1	283.6
Petroleum and coal products	315.9	326.1	188.4	180.9	247.5
Rubber and misc. plastics products	327.7	307.8	317.6	319.4	308.8
Leather and leather products	131.0	128.5	138.6	138.3	138.6
SERVICE-PRODUCING	298.2	300.5	327.6	332.1	332.8
TRANSPORTATION AND PUBLIC UTILITIES	273.4	263.0	300.5	302.4	304.5
WHOLESALE AND RETAIL TRADE	279.7	285.6	300.6	304.4	303.9
WHOLESALE TRADE	283.3	285.3	310.0	314.5	313.4
RETAIL TRADE	277.8	285.8	295.4	298.7	298.5
FINANCE, INSURANCE, AND REAL ESTATE	285.8	292.5	321.7	328.7	328.1
SERVICES	343.3	347.9	383.5	389.9	391.8

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	1979									1980			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. p	Apr. p
TOTAL PRIVATE	35.3	35.7	35.6	35.6	35.6	35.7	35.6	35.7	35.7	35.7	35.5	35.4	35.3
MINING	42.9	42.8	43.0	41.6	43.2	43.1	43.1	43.2	43.9	44.4	43.7	43.5	43.3
CONSTRUCTION	35.5	37.1	37.2	36.8	37.2	37.5	36.6	36.8	37.1	37.6	36.7	36.2	36.6
MANUFACTURING	39.1	40.2	40.1	40.2	40.1	40.2	40.2	40.1	40.2	40.3	40.1	39.8	39.6
<i>Overtime hours</i>	2.7	3.5	3.4	3.3	3.2	3.2	3.2	3.3	3.2	3.2	3.1	3.1	2.8
DURABLE GOODS	39.5	40.9	40.7	40.7	40.7	40.7	40.8	40.6	40.7	40.8	40.6	40.4	40.1
<i>Overtime hours</i>	2.7	3.8	3.6	3.5	3.3	3.3	3.3	3.4	3.3	3.3	3.1	3.2	2.8
Lumber and wood products	39.1	39.4	39.4	39.3	39.5	39.7	39.4	38.9	39.0	39.5	39.1	38.6	37.3
Furniture and fixtures	38.1	38.5	38.5	38.4	38.3	38.6	38.8	38.9	39.0	39.0	39.0	38.5	38.7
Stone, clay, and glass products	41.2	41.7	41.6	41.4	41.3	41.5	41.3	41.5	41.6	41.3	41.0	40.8	40.4
Primary metal industries	41.8	41.4	41.2	41.3	41.0	41.0	41.1	40.7	40.6	40.8	40.8	40.7	40.3
Fabricated metal products	39.1	40.7	40.7	40.8	40.6	40.7	40.9	40.7	41.0	40.9	40.8	40.6	40.4
Machinery, except electrical	40.5	42.0	42.0	41.9	41.6	41.9	41.6	41.6	41.6	41.7	41.5	41.4	41.3
Electric and electronic equipment	39.0	40.4	40.3	40.2	39.8	40.3	40.3	40.6	40.5	40.4	40.4	40.0	39.7
Transportation equipment	37.9	41.5	40.8	40.9	41.7	40.6	41.3	40.6	41.0	41.0	40.9	40.5	40.3
Instruments and related products	40.3	40.8	40.6	40.7	40.5	40.6	40.7	41.0	40.8	41.5	40.9	40.5	40.7
Miscellaneous manufacturing ind	37.6	38.6	38.9	39.3	39.1	39.1	39.1	39.1	39.2	39.5	39.2	38.6	38.3
NONDURABLE GOODS	38.6	39.2	39.2	39.2	39.2	39.3	39.3	39.4	39.4	39.5	39.4	39.1	38.9
<i>Overtime hours</i>	2.7	3.0	3.0	3.0	3.0	3.1	3.0	3.2	3.1	3.1	3.0	3.1	2.9
Food and kindred products	39.6	39.8	39.8	39.8	39.7	40.0	39.9	40.0	39.9	40.0	39.6	39.5	39.5
Tobacco manufactures	37.6	38.9	37.6	38.5	38.0	38.6	38.3	37.8	38.8	38.5	37.7	37.6	37.4
Textile mill products	38.8	40.0	40.1	40.1	40.1	40.6	40.8	41.1	41.0	41.7	41.1	40.8	39.7
Apparel and other textile products	34.2	35.2	35.2	35.3	35.3	35.3	35.3	35.3	35.6	35.9	36.0	35.4	35.6
Paper and allied products	41.8	42.6	42.5	42.5	42.6	42.4	42.6	42.7	42.9	42.8	42.9	42.5	42.6
Printing and publishing	37.1	37.4	37.4	37.5	37.7	37.5	37.4	37.6	37.4	37.8	37.4	37.2	37.0
Chemicals and allied products	41.7	41.9	41.7	41.9	42.0	41.7	41.7	41.9	41.7	42.0	41.9	41.8	41.4
Petroleum and coal products	43.9	43.7	43.3	43.6	43.7	44.1	43.7	44.4	43.5	36.6	40.4	40.3	41.8
Rubber and misc. plastics products	39.7	40.9	40.7	40.6	40.2	40.3	40.3	40.0	39.9	40.6	39.9	39.8	39.8
Leather and leather products	35.6	36.1	36.4	36.6	36.5	37.0	36.5	36.7	36.9	37.2	37.3	36.8	36.4
TRANSPORTATION AND PUBLIC UTILITIES	39.2	39.8	39.8	39.7	39.9	39.9	39.9	40.2	39.8	39.9	39.8	39.9	39.8
WHOLESALE AND RETAIL TRADE	32.8	32.6	32.6	32.6	32.5	32.6	32.6	32.7	32.6	32.5	32.3	32.3	32.1
WHOLESALE TRADE	38.7	39.0	38.8	38.8	38.7	38.7	38.8	38.9	38.9	38.8	38.7	38.5	38.5
RETAIL TRADE	30.9	30.6	30.6	30.6	30.5	30.7	30.6	30.7	30.6	30.5	30.3	30.3	30.1
FINANCE, INSURANCE, AND REAL ESTATE	36.5	36.1	36.2	36.3	36.1	36.4	36.2	36.5	36.4	36.2	36.4	36.6	36.4
SERVICES	32.7	32.7	32.7	32.8	32.7	32.7	32.6	32.7	32.5	32.7	32.7	32.7	32.7

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

p=preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

**C-8. Indexes of aggregate weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls
by industry division and major manufacturing group, seasonally adjusted¹**

[1967=100]

Industry division and group	1979									1980			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. P	Apr. P
TOTAL PRIVATE	123.6	125.4	125.7	125.7	125.5	125.9	125.8	126.3	126.6	127.1	126.8	126.1	124.5
GOODS-PRODUCING	106.8	110.3	110.1	109.9	109.4	109.7	109.0	108.7	109.6	110.6	109.4	107.6	105.1
MINING	152.0	151.6	152.5	148.4	156.7	157.4	158.1	158.4	162.3	165.7	164.4	163.5	164.0
CONSTRUCTION	124.9	133.7	134.4	133.9	134.5	135.4	132.7	133.7	137.1	142.5	137.4	129.5	126.2
MANUFACTURING	102.0	104.7	104.3	104.4	103.3	103.4	103.1	102.5	102.9	103.0	102.5	101.7	99.3
DURABLE GOODS	105.0	108.3	107.9	107.9	106.8	107.1	106.2	105.1	105.6	105.3	105.3	104.7	100.9
Lumber and wood products	112.4	113.3	112.7	111.9	112.3	113.6	113.3	110.1	108.3	109.0	108.2	105.2	94.5
Furniture and fixtures	105.8	105.9	105.3	105.9	104.5	104.8	105.9	106.2	106.4	106.7	105.9	104.5	104.0
Stone, clay, and glass products	111.5	113.1	113.0	111.5	110.8	111.2	110.6	110.4	110.8	110.4	109.6	108.1	103.7
Primary metal industries	99.7	97.9	97.9	97.8	95.9	95.3	94.6	93.1	91.8	92.1	92.2	91.6	89.7
Fabricated metal products	102.7	106.6	107.1	106.7	104.8	105.4	106.1	105.8	106.4	105.1	105.7	105.2	102.1
Machinery, except electrical	113.0	117.4	117.6	118.0	116.2	117.7	114.3	113.6	113.5	117.5	116.6	116.6	115.6
Electric and electronic equipment	104.4	108.2	108.6	108.5	104.7	107.2	107.6	108.1	108.8	109.2	108.7	108.4	106.9
Transportation equipment	94.3	102.6	99.4	100.3	102.6	100.1	97.4	93.7	96.7	90.7	92.9	92.4	82.6
Instruments and related products	127.2	128.1	128.4	128.1	127.2	127.2	127.8	127.8	128.1	130.6	129.4	129.9	130.6
Miscellaneous manufacturing ind	97.5	98.7	100.3	100.7	100.8	99.9	99.9	99.9	101.4	102.2	100.5	99.2	97.9
NONDURABLE GOODS	97.8	99.5	99.1	99.1	98.2	98.1	98.5	98.8	99.0	99.7	98.3	97.4	97.0
Food and kindred products	96.8	97.0	96.8	95.9	94.6	95.0	96.1	96.5	97.0	96.8	95.5	94.5	93.9
Tobacco manufactures	73.9	76.5	72.6	73.0	66.7	70.5	69.9	61.1	65.4	67.6	67.5	67.3	65.7
Textile mill products	86.7	89.5	89.6	85.8	89.0	89.8	90.6	91.8	91.8	93.5	92.0	91.6	89.2
Apparel and other textile products	86.8	89.5	88.7	89.5	88.0	87.5	87.9	87.3	88.4	90.0	90.5	89.0	89.2
Paper and allied products	100.8	102.3	102.1	103.2	103.1	102.2	102.7	102.8	103.3	103.4	103.8	103.1	102.5
Printing and publishing	101.7	103.1	103.3	104.4	104.7	103.9	104.3	105.9	105.1	107.2	106.2	105.5	104.8
Chemicals and allied products	107.7	108.3	108.4	108.8	108.2	107.6	107.9	108.6	108.6	109.7	108.9	108.5	108.5
Petroleum and coal products	125.7	124.2	123.1	123.0	124.2	126.2	125.1	128.0	126.3	106.3	76.0	72.5	91.5
Rubber and misc. plastics products	148.4	153.4	150.4	150.5	145.6	143.5	143.5	142.5	140.9	143.6	140.7	140.3	137.9
Leather and leather products	63.9	65.4	66.0	61.3	64.9	66.1	65.2	64.9	65.0	65.2	65.3	64.5	63.1
SERVICE-PRODUCING	135.3	135.9	136.5	136.7	136.6	137.2	137.5	138.5	138.4	138.6	138.9	139.0	137.9
TRANSPORTATION AND PUBLIC UTILITIES	109.2	113.4	115.0	114.2	115.2	114.9	115.8	116.9	115.4	115.2	115.1	115.5	114.8
WHOLESALE AND RETAIL TRADE	130.6	130.2	130.0	129.9	129.6	130.4	130.7	131.6	130.9	131.6	131.5	131.0	129.1
WHOLESALE TRADE	131.3	132.8	132.8	132.7	132.4	132.5	133.4	134.3	134.1	134.3	134.5	134.0	133.2
RETAIL TRADE	130.3	129.1	128.9	128.9	128.5	129.6	129.7	130.5	129.7	130.5	130.3	129.9	127.6
FINANCE, INSURANCE, AND REAL ESTATE	145.5	144.5	145.7	146.5	146.3	147.1	146.7	148.3	148.3	148.1	149.6	150.7	150.1
SERVICES	151.0	151.7	152.6	153.5	153.4	153.8	154.1	155.2	156.5	156.2	157.1	157.4	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			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. P	Apr. P
Hourly Earnings Index ² (1967=100)													
TOTAL PRIVATE (In current dollars)	226.8	227.5	229.0	230.9	232.2	234.3	234.9	237.3	239.5	240.5	242.6	245.1	245.6
MINING	264.1	262.7	264.9	266.9	265.6	266.1	268.0	271.6	273.2	274.0	275.5	278.8	281.3
CONSTRUCTION	218.1	220.4	220.4	222.1	223.1	224.4	224.0	225.8	227.6	225.1	229.8	231.2	231.2
MANUFACTURING	231.0	232.3	233.9	235.4	236.9	238.7	240.0	242.1	244.3	245.3	248.1	250.3	252.2
TRANSPORTATION AND PUBLIC UTILITIES	241.7	243.7	246.4	251.3	252.6	255.6	255.8	258.9	260.7	261.2	262.7	265.7	266.7
WHOLESALE AND RETAIL TRADE	220.9	221.0	222.6	223.8	225.4	227.0	227.4	229.5	231.3	234.7	235.5	237.6	237.0
FINANCE, INSURANCE, AND REAL ESTATE	207.5	207.0	208.0	210.8	211.5	214.4	213.1	216.2	218.5	218.6	221.2	226.1	225.0
SERVICES	225.0	224.3	225.7	227.0	228.4	231.5	232.3	234.7	237.7	238.0	239.9	242.8	242.7
TOTAL PRIVATE (In 1967 dollars) ³	107.0	106.3	105.8	105.6	105.1	104.9	104.1	104.1	103.8	102.8	102.3	101.9	-
Average hourly earnings													
TOTAL PRIVATE	\$6.04	\$6.09	\$6.13	\$6.18	\$6.22	\$6.26	\$6.28	\$6.33	\$6.39	\$6.42	\$6.46	\$6.52	\$6.52
MINING	8.56	8.43	8.49	8.49	8.57	8.50	8.57	8.71	8.76	8.82	8.90	8.95	9.02
CONSTRUCTION	9.11	9.20	9.19	9.27	9.32	9.39	9.38	9.45	9.53	9.43	9.64	9.71	9.70
MANUFACTURING	6.56	6.65	6.68	6.72	6.74	6.78	6.82	6.86	6.91	6.93	6.98	7.06	7.09
TRANSPORTATION AND PUBLIC UTILITIES	7.91	7.99	8.09	8.21	8.30	8.37	8.39	8.48	8.53	8.54	8.59	8.70	8.72
WHOLESALE AND RETAIL TRADE	4.99	5.00	5.03	5.07	5.10	5.12	5.14	5.19	5.23	5.30	5.31	5.37	5.35
FINANCE, INSURANCE, AND REAL ESTATE	5.22	5.21	5.23	5.30	5.32	5.40	5.38	5.45	5.51	5.51	5.56	5.69	5.67
SERVICES	5.27	5.26	5.31	5.35	5.39	5.45	5.46	5.52	5.58	5.60	5.64	5.71	5.71
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	213.21	217.41	218.23	220.01	221.43	223.48	223.57	225.98	228.12	229.19	229.33	230.81	230.16
1967 dollars ³	100.57	101.55	100.85	100.60	100.24	100.04	99.10	99.16	98.88	97.94	96.68	95.97	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{3, 4}	89.44	90.09	89.43	89.12	88.73	88.44	87.61	87.53	87.17	86.29	85.17	84.47	-

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		
	FEBRUARY 1979	MARCH p1980	APRIL p1980	Apr. 1979 to Apr. 1980	Feb. 1980 to Mar. 1980	Mar. 1980 to Apr. 1980
TOTAL	171,484	170,990	169,467	1.6	-0.3	-0.9
PRIVATE SECTOR	140,234	139,821	138,231	0.4	-0.3	-1.1
MINING	2,285	2,293	2,292	9.5	0.4	0.0
CONSTRUCTION	9,134	8,917	8,692	3.1	-2.4	-2.5
MANUFACTURING	43,801	43,602	42,689	-3.4	-0.5	-2.1
DURABLE GOODS	26,941	26,841	26,032	-4.3	-0.4	-3.0
NONDURABLE GOODS	16,860	16,762	16,657	-1.8	-0.6	-0.6
TRANSPORTATION AND PUBLIC UTILITIES	10,816	10,824	10,751	3.7	0.1	-0.7
WHOLESALE AND RETAIL TRADE	34,662	34,510	34,238	-0.6	-0.4	-0.8
FINANCE, INSURANCE, AND REAL ESTATE	9,630	9,709	9,663	3.7	0.8	-0.5
SERVICES	29,906	29,967	29,906	3.8	0.2	-0.2
GOVERNMENT	31,250	31,170	31,235	6.8	-0.3	0.2

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	r119.3	r118.3	r119.6	r119.0	r118.5	r119.1	r119.8	r119.9	r119.0	r118.4	r118.0	r117.9	p118.0
Output	140.7	144.1	135.2	136.1	136.9	140.3	141.8	144.0	144.4	143.4	143.8	r144.8	p145.2
Hours	r118.0	r121.8	r113.1	r114.3	r115.5	r117.8	r118.3	r120.1	r121.4	r121.2	r121.9	r122.8	p123.0
Compensation per hour	r231.5	r253.2	r215.6	r218.8	r224.5	r228.8	r233.9	r238.7	r245.1	r250.6	r256.0	r260.6	p267.3
Real compensation per hour	r118.5	r116.4	r117.8	117.9	r118.8	r118.3	r118.1	118.0	r117.1	r115.9	r114.3	p112.8	
Unit labor costs	194.0	214.0	180.2	r183.9	189.4	192.1	195.2	199.0	205.9	211.7	217.0	221.1	p226.5
Unit nonlabor payments	174.3	r184.4	167.9	r168.5	164.8	173.9	177.0	r181.2	180.8	r183.6	r185.5	r188.2	p192.5
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	r209.7	p214.7
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	r117.0	r115.7	r116.9	r116.4	r116.1	r116.7	r117.5	r117.7	r116.8	r115.5	r115.1	r115.4	p115.3
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	p145.9
Hours	r121.0	r125.3	r116.0	r117.2	r118.2	r120.9	r121.4	r123.2	r124.6	r124.8	r125.6	r126.1	p126.5
Compensation per hour	r227.6	r248.0	r211.5	r215.1	r220.9	r225.0	r229.8	r234.7	r240.5	r245.1	r250.2	r255.9	p261.9
Real compensation per hour	r116.5	r114.1	r115.6	115.9	r116.9	r116.3	r116.2	115.8	r114.6	r113.3	r112.3	p110.5	
Unit labor costs	r194.6	r214.4	r181.0	r184.8	190.2	r192.8	195.6	r199.4	206.0	r212.2	217.3	221.8	p227.2
Unit nonlabor payments	169.9	r178.6	167.1	r165.9	161.1	r169.1	173.0	r176.0	174.3	177.6	r180.4	r182.5	p188.4
Implicit price deflator	186.1	r202.1	176.2	178.3	180.2	184.7	187.8	191.4	195.1	200.3	204.7	r208.4	p213.9
MANUFACTURING:													
Output per hour of all persons	r128.3	r130.3	r128.9	r128.3	r126.2	r127.7	r129.6	r130.1	r129.2	130.0	r131.0	130.6	p130.0
Output	134.5	r139.4	129.9	130.8	130.1	133.4	135.9	r138.4	r139.8	r139.4	r139.5	r139.0	p138.7
Hours	r104.8	r107.0	r100.8	r102.0	r103.1	r104.5	r104.9	r106.4	r108.2	r107.2	r106.4	r106.5	p106.7
Compensation per hour	r230.2	r251.3	r214.8	r218.3	r223.8	r227.3	r232.0	r237.2	r243.2	r248.9	r253.7	r259.0	p265.1
Real compensation per hour	r117.8	r115.6	r117.4	r117.6	r118.4	r117.5	r117.4	r117.3	r117.1	r116.3	r114.9	r113.6	p111.8
Unit labor costs	179.4	r192.9	166.7	170.2	r177.4	r178.0	r179.1	r182.4	r188.2	r191.4	r193.7	r198.3	p204.0
DURABLE GOODS													
Output per hour of all persons	r121.7	r122.7	r122.8	r122.2	r119.4	r121.4	r122.9	r123.2	r122.2	r123.0	r122.9	r122.5	p121.4
Output	129.6	r134.9	124.4	125.5	124.4	r128.4	r131.3	r134.4	r136.1	r135.2	r134.4	r133.7	p132.7
Hours	r106.5	r109.9	r101.3	r102.7	r104.2	r105.7	r106.9	r109.1	r111.4	r110.0	r109.4	r109.2	p109.3
Compensation per hour	r231.7	r252.6	r216.8	r220.3	r225.4	r228.7	r233.3	r238.8	r244.7	r250.3	r255.1	r260.0	p267.2
Real compensation per hour	r118.6	r116.2	r118.5	r118.7	r119.2	r118.3	r118.0	r118.1	r117.8	r117.0	r115.5	r114.1	p112.7
Unit labor costs	190.4	r205.9	176.6	180.3	188.8	r188.4	r189.9	r193.8	r200.3	r203.6	r207.6	r212.3	p220.1
NONDURABLE GOODS													
Output per hour of all persons	r139.3	r143.0	r138.8	r138.2	r137.4	r137.9	r140.6	r141.6	r141.0	r141.8	r144.7	r144.2	p144.4
Output	142.3	r146.9	138.8	r139.4	r139.4	r141.7	143.2	r144.9	r145.9	r146.2	r147.7	r147.7	p148.3
Hours	r102.1	r102.7	r100.0	r100.8	r101.5	r102.7	r101.9	r102.3	r103.4	r103.1	r102.0	r102.4	p102.7
Compensation per hour	r226.7	r247.2	r211.0	r214.3	r220.6	r224.1	r228.7	r233.0	r238.6	r244.7	r249.5	r255.6	p259.7
Real compensation per hour	r116.0	r113.7	r115.3	r115.5	r116.7	r115.9	r115.7	r115.2	r114.9	r114.4	r113.0	r112.1	p109.5
Unit labor costs	162.7	r172.9	152.1	r155.0	r160.6	r162.5	r162.7	r164.6	r169.2	r172.6	r172.4	r177.3	p179.9
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	r118.1	r117.7	r117.7	r116.9	r116.9	r118.1	r118.7	r119.0	r118.4	r117.5	r117.4	p117.3	N.A.
Output	150.0	154.7	142.7	143.4	144.7	149.7	151.4	154.2	155.1	154.1	154.3	p155.1	N.A.
Hours	r127.0	r131.4	r121.2	r122.7	r123.8	r126.8	r127.6	r129.6	r131.1	r131.1	r131.4	p132.2	N.A.
Compensation per hour	r225.2	r245.2	r209.9	r213.2	r218.9	r222.8	r227.3	r231.7	r237.9	r242.5	r247.6	p252.6	N.A.
Real compensation per hour	r115.3	r112.8	r114.7	r114.9	r115.8	r115.2	r115.0	r114.6	r114.6	r113.3	r112.1	p110.8	N.A.
Total unit costs	193.3	r210.4	182.4	186.3	190.8	191.6	194.0	196.8	202.3	208.0	213.2	p218.0	N.A.
Unit labor costs	190.6	r208.4	178.4	182.3	187.3	188.7	191.5	194.8	201.0	206.4	210.8	p215.3	N.A.
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	p226.1	N.A.
Unit profits	127.2	r127.8	130.9	122.2	107.1	129.2	132.7	138.7	130.3	129.2	127.5	p124.0	N.A.
Implicit price deflator	183.5	r198.1	174.7	176.8	178.3	182.3	184.9	188.2	191.6	196.3	200.4	p204.0	N.A.

p=preliminary.
r=revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	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	r-1.4	r-0.3	p0.6	0.8	0.4	-0.6	-1.6	-1.7	p-0.8
Output	6.4	1.2	-2.9	1.1	r2.8	p1.1	5.8	5.5	2.2	1.4	0.5	p0.5
Hours	6.1	4.4	-0.7	r2.5	r3.2	p0.5	5.0	5.1	2.8	3.0	2.3	p1.3
Compensation per hour	8.5	11.1	9.3	8.8	r7.4	p10.7	9.1	9.2	9.5	9.4	r9.2	p9.1
Real compensation per hour	r-0.9	r-0.1	r-3.1	r-4.0	-5.4	p-5.3	0.1	-0.6	-1.0	-2.0	-3.2	p-4.5
Unit labor costs	8.1	14.6	11.8	10.3	7.8	p10.0	8.3	8.7	10.2	11.2	11.1	p10.0
Unit nonlabor payments	9.9	-1.0	r6.6	r4.2	r5.9	p9.4	7.5	9.7	5.6	4.8	r3.9	p6.5
Implicit price deflator	8.7	9.3	10.1	8.3	r7.2	p9.8	8.0	9.0	8.7	9.1	r8.7	p8.9
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	0.8	-3.2	-4.1	-1.4	r0.7	p-0.2	1.1	0.5	-1.0	-2.0	-2.0	p-1.2
Output	6.8	1.2	-3.6	1.2	2.5	p1.1	6.3	5.9	2.2	1.3	0.3	p0.3
Hours	5.9	4.6	0.5	2.6	r1.8	p1.3	5.2	5.4	3.2	3.4	2.4	p1.6
Compensation per hour	8.8	10.4	7.9	8.5	r9.4	p9.7	9.1	8.9	9.0	8.9	9.0	p8.9
Real compensation per hour	r-0.6	r-0.7	r-4.4	r-4.3	-3.6	p-6.2	0.1	r-0.9	-1.5	-2.5	-3.3	p-4.6
Unit labor costs	8.0	14.0	12.5	10.1	8.6	p9.9	7.9	8.3	10.1	11.1	11.3	p10.3
Unit nonlabor payments	7.3	r-3.9	7.8	6.6	r4.6	p13.6	6.1	8.2	5.0	4.3	r3.7	p8.1
Implicit price deflator	7.8	8.1	11.0	9.0	r7.4	p11.0	7.3	8.3	8.5	9.0	r8.9	p9.6
MANUFACTURING:												
Output per hour of all persons	r1.7	r-2.7	r2.5	r3.2	-1.3	p-1.9	r1.4	r2.4	r1.8	r1.1	r0.4	p0.6
Output	r7.7	r4.2	r-1.3	r0.2	r-1.2	p-1.1	r5.8	r7.5	r4.5	r2.7	r0.5	p-0.8
Hours	5.9	7.1	-3.7	-2.9	r0.1	p0.8	4.3	4.9	2.6	1.5	0.1	p-1.4
Compensation per hour	9.3	r10.4	9.8	r8.0	r8.6	p9.8	8.7	8.6	9.5	r9.3	9.2	p9.0
Real compensation per hour	r-0.2	r-0.7	r-2.7	r-4.8	r-4.4	p-6.1	-0.3	-1.1	r-1.1	-2.1	r-3.2	p-4.5
Unit labor costs	r7.5	r13.4	r7.1	r4.7	r10.0	p11.9	r7.2	r6.1	r7.5	r8.1	r8.8	p8.4
DURABLE GOODS												
Output per hour of all persons	r1.0	r-3.3	r2.6	r-0.3	-1.2	p-3.5	r0.8	r2.3	r1.3	r0.0	r-0.6	p-0.6
Output	r9.8	r5.2	r-2.7	r-2.4	r-2.0	p-3.0	7.1	r9.4	r5.3	r2.3	r-0.5	p-2.5
Hours	8.7	8.8	-5.2	r-2.1	r-0.8	p0.5	r6.2	6.9	4.0	r2.4	r0.1	p-1.9
Compensation per hour	9.6	10.3	r9.6	r7.9	r7.9	p11.6	8.4	8.6	r9.4	r9.3	8.9	p9.2
Real compensation per hour	r0.1	r-0.8	r-2.9	r-4.9	r-5.0	p-4.6	r-0.6	-1.1	-1.1	-2.1	r-3.4	p-4.3
Unit labor costs	r8.5	r14.0	r6.8	r8.2	r9.3	p15.6	r7.5	r6.1	r8.1	r9.3	r9.5	p9.9
NONDURABLE GOODS												
Output per hour of all persons	r2.9	r-1.6	r2.2	r8.6	r-1.5	p0.5	r2.4	r2.6	r2.8	r2.9	r1.8	p2.4
Output	r4.7	r2.7	r0.9	r4.2	r0.0	p1.8	r4.0	r4.6	r3.2	r3.1	r1.9	p1.7
Hours	1.8	4.4	-1.2	-4.1	r1.5	p1.3	1.5	1.9	0.4	0.2	r0.1	p-0.7
Compensation per hour	7.8	10.0	r10.7	8.1	r10.1	p6.6	8.7	r8.2	9.2	9.1	r9.7	p8.8
Real compensation per hour	r-1.5	r-1.1	r-1.9	r-4.7	-3.0	p-8.9	r-0.2	-1.5	-1.3	-2.3	-2.7	p-4.7
Unit labor costs	r4.8	r11.8	r8.3	r-0.5	11.7	p6.0	r6.1	r5.4	r6.2	r6.0	r7.7	p6.3
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	1.1	-2.1	r-2.9	-0.2	p-0.5	N.A.	1.8	1.3	-0.5	-1.0	p-1.4	N.A.
Output	7.6	2.5	-2.6	0.6	p1.9	N.A.	7.5	7.2	2.9	1.9	p0.6	N.A.
Hours	6.4	4.6	0.3	0.9	p2.4	N.A.	5.6	5.8	3.4	3.0	p2.0	N.A.
Compensation per hour	8.1	11.0	8.0	8.6	p8.3	N.A.	8.7	8.7	8.9	8.9	p9.0	N.A.
Real compensation per hour	r-1.3	r-0.1	r-4.3	r-4.3	p-4.6	N.A.	r-0.2	r-1.1	-1.6	-2.5	p-3.3	N.A.
Total unit costs	5.9	11.7	11.8	10.2	p9.3	N.A.	5.6	6.1	8.6	9.9	p10.8	N.A.
Unit labor costs	6.9	13.4	11.2	8.8	p8.9	N.A.	6.8	7.3	9.4	10.1	p10.6	N.A.
Unit nonlabor costs	2.9	6.8	13.5	14.6	p10.6	N.A.	2.2	2.5	6.2	9.4	p11.3	N.A.
Unit profits	19.5	-22.1	-3.4	-5.3	p-10.4	N.A.	13.6	21.7	0.0	-3.9	p-10.6	N.A.
Implicit price deflator	7.3	7.6	10.2	8.6	p7.3	N.A.	6.4	7.5	7.7	8.4	p8.4	N.A.

p=preliminary.
r=revised.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
ALABAMA	\$236.47	\$256.36	\$256.31	40.7	40.5	40.3	\$5.81	\$6.33	\$6.36
Birmingham	274.44	303.51	297.26	40.3	40.2	39.9	6.81	7.55	7.45
Mobile	301.86	322.09	323.87	42.1	41.4	41.1	7.17	7.78	7.88
ALASKA	392.86	423.28	426.10	43.7	40.7	39.6	8.99	10.40	10.76
ARIZONA	257.58	276.12	289.88	40.5	39.0	40.6	6.36	7.08	7.14
Phoenix	260.53	269.97	285.71	40.9	38.9	40.7	6.37	6.94	7.02
Tucson	238.55	265.49	271.74	39.3	38.2	37.9	6.07	6.95	7.17
ARKANSAS	200.48	218.12	218.28	39.7	39.3	39.4	5.05	5.55	5.54
Fayetteville—Springdale	178.94	201.24	201.06	39.5	39.0	39.5	4.53	5.16	5.09
Fort Smith	205.65	212.98	225.40	39.7	38.1	39.2	5.18	5.59	5.75
Little Rock—North Little Rock	231.90	246.80	251.37	40.4	39.3	39.9	5.74	6.28	6.30
Pine Bluff	268.81	295.80	293.15	42.2	40.8	41.0	6.37	7.25	7.15
CALIFORNIA	272.28	288.12	296.11	40.1	39.2	39.8	6.79	7.35	7.44
Anaheim—Santa Ana—Garden Grove	254.18	269.87	277.17	40.8	40.1	40.7	6.23	6.73	6.81
Bakersfield	279.03	282.72	320.39	38.7	36.2	39.8	7.21	7.81	8.05
Fresno	248.06	277.11	278.88	40.4	39.7	40.3	6.14	6.98	6.92
Los Angeles—Long Beach	256.77	275.92	282.91	40.5	39.7	40.3	6.34	6.95	7.02
Modesto	256.69	280.14	278.10	38.6	38.8	38.2	6.65	7.22	7.28
Oxnard—Simi Valley—Ventura	238.79	251.29	261.10	39.6	38.6	39.5	6.03	6.51	6.61
Riverside—San Bernardino—Ontario	278.80	295.25	296.04	40.0	38.9	38.8	6.97	7.59	7.63
Sacramento	287.98	306.78	307.62	38.5	38.3	38.5	7.48	8.01	7.99
Salinas—Seaside—Monterey	266.51	271.08	279.37	39.6	36.0	37.6	6.73	7.53	7.43
San Diego	254.37	273.61	275.54	38.6	38.7	38.7	6.59	7.07	7.12
San Francisco—Oakland	325.84	339.21	348.08	39.4	38.9	39.6	8.27	8.72	8.79
San Jose	290.60	315.52	320.76	40.7	40.4	40.5	7.14	7.81	7.52
Santa Barbara—Santa Maria—Lompoc	234.12	260.13	258.31	37.7	37.7	37.6	6.24	6.90	6.87
Santa Rosa	240.59	281.38	265.62	37.3	37.5	38.0	6.45	6.97	6.99
Stockton	291.00	311.25	317.99	38.8	39.2	39.6	7.50	7.94	8.03
Vallejo—Fairfield—Napa	288.79	304.10	310.76	38.2	38.3	38.7	7.56	7.94	8.03
COLORADO	255.14	283.06	283.06	38.6	39.7	39.7	6.61	7.13	7.13
Denver—Boulder	255.25	282.43	281.95	38.5	39.5	39.6	6.63	7.15	7.12
CONNECTICUT	267.95	288.65	290.76	42.6	42.2	42.2	6.29	6.84	6.89
Bridgeport	282.74	303.53	306.56	43.7	43.3	43.3	6.47	7.01	7.08
Hartford	297.98	318.22	318.12	43.5	42.6	42.7	6.85	7.47	7.45
New Britain	282.83	290.28	299.75	44.4	42.5	42.7	6.37	6.83	7.02
New Haven—West Haven	263.04	269.33	279.35	41.1	39.9	40.9	6.40	6.75	6.83
Stamford	276.07	276.69	279.94	44.1	43.3	43.2	6.26	6.39	6.48
Waterbury	236.68	243.53	248.87	42.8	41.7	41.0	5.53	5.84	6.07
DELAWARE	289.34	300.40	303.16	41.1	40.0	40.1	7.04	7.51	7.56
Wilmington	325.54	334.03	336.76	41.0	40.1	39.9	7.94	8.33	8.44
DISTRICT OF COLUMBIA:									
Washington SMSA ¹	302.44	331.23	323.95	39.9	40.1	39.7	7.58	8.26	8.16
FLORIDA	215.54	235.13	234.84	40.9	40.4	40.7	5.27	5.82	5.77
Fort Lauderdale—Hollywood	205.03	220.46	229.19	40.6	40.6	41.9	5.05	5.43	5.47
Jacksonville	247.46	271.49	270.55	40.7	40.4	40.2	6.08	6.72	6.73
Lakeland—Winter Haven	242.81	256.13	261.38	45.9	44.7	45.3	5.29	5.73	5.77
Miami	190.01	204.40	211.12	40.6	40.0	40.6	4.68	5.11	5.20
Orlando	227.92	243.01	247.20	40.7	40.3	41.2	5.60	6.03	6.00
Pensacola	290.62	288.16	289.53	44.1	40.7	41.9	6.59	7.08	6.91
Tampa—St. Petersburg	220.86	237.60	242.17	40.6	40.0	40.7	5.44	5.94	5.55
West Palm Beach—Boca Raton	255.06	259.53	261.21	43.6	41.0	41.2	5.85	6.33	6.34
GEORGIA	204.88	224.07	224.32	39.4	40.3	40.2	5.20	5.56	5.58
Atlanta	235.74	258.20	256.74	37.9	39.3	38.9	6.22	6.57	6.60
Savannah	268.26	305.53	299.17	40.4	42.2	41.9	6.64	7.24	7.14
HAWAII	245.74	267.05	262.92	38.7	39.1	37.4	6.35	6.83	7.03
Honolulu	242.19	267.80	269.37	38.2	38.7	38.1	6.34	6.92	7.07
IDAHO	241.66	255.97	266.35	37.7	35.8	37.2	6.41	7.15	7.16
Boise City	217.93	214.07	221.96	37.9	33.5	34.9	5.75	6.39	6.36

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		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
ILLINOIS	\$291.14	\$309.94	(*)	40.9	40.2	(*)	\$7.12	\$7.71	(*)
Bloomington—Normal.....	269.11	243.92	(*)	42.0	35.3	(*)	6.41	6.91	(*)
Champaign—Urbana—Rantoul.....	255.16	230.40	(*)	38.6	32.0	(*)	6.62	7.20	(*)
Chicago SMSA.....	282.92	292.80	(*)	40.8	40.0	(*)	6.94	7.32	(*)
Davenport—Rock Island—Moline.....	323.67	356.25	(*)	38.1	40.3	(*)	8.49	8.84	(*)
Decatur.....	328.45	285.22	(*)	42.5	35.3	(*)	7.74	8.08	(*)
Peoria.....	328.25	409.89	(*)	37.7	42.3	(*)	8.72	9.69	(*)
Rockford.....	297.89	307.16	(*)	42.4	40.9	(*)	7.01	7.51	(*)
Springfield.....	336.28	277.47	(*)	43.6	36.8	(*)	7.72	7.54	(*)
INDIANA	313.65	326.78	\$328.38	41.0	39.9	39.9	7.65	8.19	\$8.23
Gary—Hammond—East Chicago.....	419.84	443.00	(*)	41.9	40.2	(*)	10.02	11.02	(*)
Indianapolis.....	314.84	323.60	(*)	41.7	40.5	(*)	7.55	7.99	(*)
IOWA	302.25	332.88	336.51	40.3	40.3	40.3	7.50	8.26	8.35
Cedar Rapids.....	301.90	342.36	343.20	41.3	41.7	41.3	7.31	8.21	8.31
Des Moines.....	312.84	339.95	344.12	39.6	39.3	39.6	7.90	8.65	8.69
Dubuque.....	356.89	403.21	407.02	40.1	40.2	40.1	8.90	10.03	10.15
Sioux City.....	255.57	299.09	302.47	38.9	40.2	40.6	6.57	7.44	7.45
Waterloo—Cedar Falls.....	395.95	423.07	429.73	41.9	41.6	41.4	9.45	10.17	10.38
KANSAS	272.74	284.97	287.92	41.2	39.8	40.1	6.62	7.16	7.18
Topeka.....	308.22	283.13	300.35	44.8	37.6	40.1	6.88	7.53	7.49
Wichita.....	289.38	308.05	313.34	42.0	39.8	40.8	6.89	7.74	7.68
KENTUCKY	260.57	270.44	276.26	39.6	38.8	38.8	6.58	6.97	7.12
Lexington—Fayette.....	258.05	258.91	273.41	39.7	37.2	38.4	6.50	6.96	7.12
Louisville.....	303.22	312.00	310.70	40.7	40.0	38.5	7.45	7.80	8.07
LOUISIANA	279.60	309.00	311.32	41.3	41.7	41.9	6.77	7.41	7.43
Baton Rouge.....	347.71	396.68	410.55	42.3	42.7	42.5	8.22	9.29	9.66
New Orleans.....	273.78	311.12	319.49	40.5	42.1	43.0	6.76	7.39	7.43
Shreveport.....	250.31	273.10	267.85	40.7	40.7	39.8	6.15	6.71	6.73
MAINE	208.92	233.96	(*)	40.1	40.2	(*)	5.21	5.82	(*)
Lewiston—Auburn.....	170.33	190.00	(*)	37.6	38.0	(*)	4.53	5.00	(*)
Portland.....	202.47	223.44	(*)	39.7	39.9	(*)	5.10	5.60	(*)
MARYLAND	278.18	290.72	292.04	40.2	39.5	39.2	6.92	7.36	7.45
Baltimore.....	295.57	310.75	312.78	40.6	40.2	40.1	7.28	7.73	7.80
MASSACHUSETTS	241.26	(*)	(*)	41.1	(*)	(*)	5.87	(*)	(*)
Boston.....	263.68	(*)	(*)	41.2	(*)	(*)	6.40	(*)	(*)
Brockton.....	184.40	(*)	(*)	38.1	(*)	(*)	4.84	(*)	(*)
Fall River.....	174.06	(*)	(*)	36.8	(*)	(*)	4.73	(*)	(*)
Lawrence—Haverhill.....	234.00	(*)	(*)	40.0	(*)	(*)	5.85	(*)	(*)
Lowell.....	207.36	(*)	(*)	40.5	(*)	(*)	5.12	(*)	(*)
New Bedford.....	209.08	(*)	(*)	39.9	(*)	(*)	5.24	(*)	(*)
Springfield—Chicopee—Holyoke.....	242.18	(*)	(*)	41.9	(*)	(*)	5.78	(*)	(*)
Worcester.....	250.08	(*)	(*)	41.2	(*)	(*)	6.07	(*)	(*)
MICHIGAN	(*)	364.49	(*)	(*)	39.9	(*)	(*)	9.14	(*)
Ann Arbor.....	(*)	379.56	(*)	(*)	39.5	(*)	(*)	9.61	(*)
Battle Creek.....	(*)	367.26	(*)	(*)	41.2	(*)	(*)	8.91	(*)
Bay City.....	(*)	329.86	(*)	(*)	40.3	(*)	(*)	8.19	(*)
Detroit.....	(*)	391.88	(*)	(*)	40.4	(*)	(*)	9.70	(*)
Flint.....	(*)	429.53	(*)	(*)	41.5	(*)	(*)	10.35	(*)
Grand Rapids.....	(*)	306.09	(*)	(*)	39.7	(*)	(*)	7.71	(*)
Jackson.....	(*)	343.18	(*)	(*)	42.0	(*)	(*)	8.17	(*)
Kalamazoo—Portage.....	(*)	335.96	(*)	(*)	39.9	(*)	(*)	8.42	(*)
Lansing—East Lansing.....	(*)	382.71	(*)	(*)	39.7	(*)	(*)	9.64	(*)
Muskegon—Norton Shores—Muskegon Heights.....	(*)	323.43	(*)	(*)	40.5	(*)	(*)	7.99	(*)
Saginaw.....	(*)	403.85	(*)	(*)	39.0	(*)	(*)	10.36	(*)
MINNESOTA	272.15	292.80	292.93	40.2	40.0	39.8	6.77	7.32	7.36
Duluth—Superior.....	255.36	270.40	272.20	39.9	38.3	38.5	6.40	7.06	7.07
Minneapolis—St. Paul.....	292.54	312.29	313.88	40.8	40.4	40.5	7.17	7.73	7.75
St. Cloud.....	208.05	216.12	210.18	38.6	35.9	34.4	5.39	6.02	6.11

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 earning		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
MISSISSIPPI	\$194.80	\$209.61	\$212.12	40.0	39.4	39.5	\$4.87	\$5.32	\$5.37
Jackson.....	218.82	238.21	237.56	41.6	41.0	41.1	5.26	5.81	5.78
MISSOURI	260.69	276.67	280.53	39.8	39.3	39.4	6.55	7.04	7.12
Kansas City.....	301.72	314.40	319.95	40.5	39.3	39.5	7.45	8.00	8.10
St. Joseph.....	242.74	260.06	268.25	39.6	38.3	39.8	6.13	6.79	6.74
St. Louis.....	303.64	317.58	316.81	41.2	40.2	39.8	7.37	7.90	7.96
Springfield.....	229.68	260.18	257.84	39.6	40.4	40.1	5.80	6.44	6.43
MONTANA	339.07	355.75	374.53	41.2	42.2	43.0	8.23	8.43	8.71
NEBRASKA	255.81	284.61	289.46	40.8	40.6	41.0	6.27	7.01	7.06
Lincoln.....	270.19	258.12	266.38	41.0	37.3	38.0	6.59	6.92	7.01
Omaha.....	267.06	291.12	293.49	40.1	39.5	39.5	6.66	7.37	7.43
NEVADA	262.68	282.36	280.42	38.8	39.0	38.1	6.77	7.24	7.36
Las Vegas.....	339.04	360.00	(*)	39.7	40.0	(*)	8.54	9.00	(*)
NEW HAMPSHIRE ¹	(*)	224.96	(*)	(*)	40.1	(*)	(*)	5.61	(*)
Manchester ¹	(*)	198.79	(*)	(*)	38.6	(*)	(*)	5.15	(*)
Nashua ¹	(*)	247.39	(*)	(*)	41.3	(*)	(*)	5.99	(*)
NEW JERSEY	274.91	291.87	294.77	42.1	41.4	41.4	6.53	7.05	7.12
Atlantic City.....	202.93	212.55	208.10	39.1	39.0	37.7	5.19	5.45	5.52
Camden ²	259.49	279.45	281.67	40.8	40.5	41.0	6.36	6.90	6.87
Hackensack ³	258.55	269.61	270.58	43.6	41.8	41.5	5.93	6.45	6.52
Jersey City ³	272.90	290.17	286.01	41.6	41.1	40.8	6.56	7.06	7.01
New Brunswick—Perth Amboy—Sayreville ³	298.57	316.65	319.52	41.7	40.7	40.6	7.16	7.78	7.87
Newark ³	277.33	297.36	298.87	42.6	42.0	41.8	6.51	7.08	7.15
Paterson—Clifton—Passaic ³	256.89	269.53	271.99	41.5	40.9	40.9	6.19	6.59	6.65
Trenton.....	282.57	291.00	300.13	41.8	38.8	39.7	6.76	7.50	7.56
NEW MEXICO	206.85	225.76	225.94	40.4	39.4	39.5	5.12	5.73	5.72
Albuquerque.....	209.84	245.75	242.02	40.2	44.2	41.3	5.22	5.56	5.86
NEW YORK ¹	259.20	275.52	(*)	40.0	39.7	(*)	6.48	6.94	(*)
Albany—Schenectady—Troy.....	273.48	293.04	(*)	40.1	40.7	(*)	6.82	7.20	(*)
Binghamton ¹	238.55	264.13	(*)	41.2	41.4	(*)	5.79	6.38	(*)
Buffalo ¹	348.61	353.12	(*)	41.7	39.9	(*)	8.36	8.85	(*)
Elmira ¹	257.26	282.49	(*)	40.9	41.0	(*)	6.29	6.89	(*)
Monroe County.....	349.78	366.17	(*)	42.5	41.8	(*)	8.23	8.76	(*)
Nassau—Suffolk ^{1, 5}	242.59	260.96	(*)	39.9	39.6	(*)	6.08	6.59	(*)
New York—Northeastern New Jersey.....	247.23	264.40	(*)	40.2	39.7	(*)	6.15	6.66	(*)
New York and Nassau—Suffolk ^{1, 3}	224.64	241.42	(*)	38.4	38.2	(*)	5.85	6.32	(*)
New York SMSA ^{1, 5}	220.02	236.25	(*)	38.0	37.8	(*)	5.79	6.25	(*)
New York City ^{1, 6}	217.15	232.63	(*)	37.7	37.4	(*)	5.76	6.22	(*)
Poughkeepsie ¹	258.83	275.70	(*)	42.5	41.9	(*)	6.09	6.58	(*)
Rochester ¹	329.64	344.04	(*)	42.1	41.5	(*)	7.83	8.29	(*)
Rockland County.....	243.19	268.87	(*)	40.6	40.8	(*)	5.99	6.59	(*)
Syracuse ¹	289.53	310.28	(*)	41.9	42.1	(*)	6.91	7.37	(*)
Utica—Rome ¹	246.24	263.81	(*)	40.5	40.4	(*)	6.08	6.53	(*)
Westchester County ^{1, 6}	240.40	265.79	(*)	40.2	41.4	(*)	5.98	6.42	(*)
NORTH CAROLINA	188.65	204.85	207.88	39.8	39.7	39.9	4.74	5.16	5.21
Asheville.....	183.20	200.19	204.32	40.0	39.8	40.3	4.58	5.03	5.07
Charlotte—Gastonia.....	193.99	209.82	212.79	41.1	40.9	41.0	4.72	5.13	5.19
Greensboro—Winston-Salem—High Point.....	206.11	222.22	228.80	40.1	39.4	40.0	5.14	5.64	5.72
Raleigh—Durham.....	210.14	234.23	235.98	39.5	39.3	39.2	5.32	5.96	6.02
NORTH DAKOTA	225.81	235.99	237.51	38.8	37.4	37.7	5.82	6.31	6.30
Fargo—Moorhead.....	247.59	258.26	258.49	39.3	37.0	37.3	6.30	6.98	6.93
OHIO	325.85	333.74	338.23	42.1	40.7	40.8	7.74	8.20	8.29
Akron.....	326.47	342.37	346.53	42.9	41.6	41.6	7.61	8.23	8.33
Canton.....	323.21	349.46	349.86	40.2	40.4	40.4	8.04	8.65	8.66
Cincinnati.....	300.54	319.66	322.97	41.8	41.3	41.3	7.19	7.78	7.82
Cleveland.....	343.01	339.89	343.17	43.2	41.0	41.0	7.94	8.29	8.37
Columbus.....	279.45	295.42	298.54	40.5	39.6	39.7	6.90	7.46	7.52
Dayton.....	333.49	341.96	349.86	42.7	41.2	41.7	7.81	8.30	8.39
Toledo.....	337.71	346.80	347.58	41.9	40.8	40.7	8.06	8.50	8.54
Youngstown—Warren.....	363.10	397.13	400.20	40.3	40.4	40.1	9.01	9.83	9.98

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		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
OKLAHOMA	\$253.31	\$283.60	\$294.26	40.4	40.0	40.7	\$6.27	\$7.09	\$7.23
Oklahoma City.....	250.67	306.82	323.23	40.3	40.8	41.6	6.22	7.52	7.77
Tulsa.....	273.77	291.90	298.50	40.8	39.5	39.8	6.71	7.39	7.50
OREGON	295.66	318.84	(*)	38.8	38.6	(*)	7.62	8.26	(*)
Eugene—Springfield.....	329.67	353.68	(*)	40.6	40.1	(*)	8.12	8.82	(*)
Jackson County.....	304.56	317.63	(*)	39.4	38.5	(*)	7.73	8.25	(*)
Portland.....	286.06	307.75	(*)	38.5	37.9	(*)	7.43	8.12	(*)
PENNSYLVANIA	274.44	286.26	286.03	40.3	39.0	38.6	6.81	7.34	7.41
Allentown—Bethlehem—Easton.....	260.44	290.70	289.93	37.8	38.3	37.8	6.89	7.59	7.67
Altoona.....	234.04	249.48	251.36	39.6	38.8	38.2	5.91	6.43	6.56
Delaware Valley.....	281.29	293.49	295.54	40.3	39.25	39.3	6.98	7.43	7.52
Erie.....	285.86	304.79	308.43	42.1	41.3	41.4	6.79	7.38	7.45
Harrisburg.....	260.71	286.47	281.18	40.8	41.1	40.4	6.39	6.97	6.56
Johnstown.....	281.58	316.57	315.15	39.0	38.7	38.2	7.22	8.18	8.25
Lancaster.....	243.17	259.43	258.24	40.8	40.6	40.1	5.96	6.39	6.44
Northeast Pennsylvania.....	193.59	208.29	202.27	37.3	36.8	35.8	5.19	5.66	5.65
Philadelphia SMSA.....	278.36	291.40	293.83	40.4	39.7	39.6	6.89	7.34	7.42
Pittsburgh.....	343.21	358.00	359.00	41.5	40.0	39.8	8.27	8.95	9.02
Reading.....	243.75	273.53	275.32	39.0	39.7	39.5	6.25	6.89	6.97
Scranton.....	194.18	198.55	194.66	38.3	36.1	35.2	5.07	5.50	5.53
Wilkes-Barre—Hazleton.....	191.99	212.95	206.49	36.5	37.1	36.1	5.26	5.74	5.72
Williamsport.....	248.27	273.34	264.65	40.5	39.5	38.3	6.13	6.92	6.91
York.....	251.40	260.40	263.08	41.9	40.0	39.8	6.00	6.51	6.61
RHODE ISLAND	198.70	213.49	216.31	39.9	39.1	39.4	4.98	5.46	5.49
Providence—Warwick—Pawtucket.....	198.50	211.77	214.03	40.1	39.0	39.2	4.95	5.43	5.46
SOUTH CAROLINA	201.14	221.68	220.59	40.8	40.9	40.7	4.93	5.42	5.42
Charleston—North Charleston.....	236.59	248.62	257.18	42.4	40.1	40.5	5.58	6.20	6.35
Columbia.....	198.70	214.26	214.80	39.9	39.9	40.0	4.98	5.37	5.37
Greenville—Spartanburg.....	198.04	220.45	215.07	40.5	40.9	40.2	4.89	5.39	5.35
SOUTH DAKOTA	223.04	249.04	240.63	39.9	41.3	39.0	5.59	6.03	6.17
Rapid City.....	193.69	174.64	180.29	31.7	29.6	30.2	6.11	5.90	5.57
Sioux Falls.....	289.91	333.52	302.20	42.2	45.5	39.4	6.87	7.33	7.67
TENNESSEE	214.78	233.64	234.04	39.7	39.6	39.6	5.41	5.90	5.91
Chattanooga.....	218.83	241.28	242.86	40.6	41.6	41.8	5.39	5.80	5.81
Knoxville.....	264.12	277.95	277.78	40.4	40.4	40.2	6.29	6.88	6.91
Memphis.....	245.22	258.05	263.20	40.6	39.7	40.0	6.04	6.50	6.58
Nashville—Davidson.....	230.69	233.07	248.97	39.3	38.4	38.6	5.87	6.33	6.45
TEXAS	258.52	285.66	292.32	41.1	41.4	42.0	6.29	6.90	6.56
Amarillo.....	245.02	279.39	280.14	40.3	41.7	42.0	6.08	6.70	6.67
Austin.....	193.58	219.10	223.43	41.1	40.8	41.3	4.71	5.37	5.41
Beaumont—Port Arthur—Orange.....	388.29	464.54	472.93	43.0	44.2	44.7	9.03	10.51	10.58
Corpus Christi.....	271.74	287.10	287.90	38.6	39.6	38.8	7.04	7.25	7.42
Dallas—Fort Worth.....	239.13	263.86	265.92	40.6	41.1	41.1	5.89	6.42	6.47
El Paso.....	182.67	200.98	200.98	39.2	38.8	38.8	4.66	5.18	5.18
Galveston—Texas City.....	413.47	410.18	427.32	43.8	41.1	42.1	9.44	9.98	10.15
Houston.....	325.07	346.33	351.48	43.4	43.4	43.5	7.49	7.98	8.08
Lubbock.....	199.07	214.12	214.80	41.3	39.8	40.0	4.82	5.38	5.37
San Antonio.....	185.72	204.91	210.92	40.2	40.9	42.1	4.62	5.01	5.01
Waco.....	215.67	226.40	232.80	39.5	38.7	38.8	5.46	5.85	6.00
Wichita Falls.....	224.24	254.70	257.75	39.9	40.3	40.4	5.62	6.32	6.38
UTAH	236.16	263.98	271.07	39.1	39.4	39.4	6.04	6.70	6.68
Salt Lake City—Ogden.....	224.43	246.18	258.19	39.1	39.2	39.6	5.74	6.28	6.52
VERMONT	224.39	242.08	241.54	41.4	41.1	40.8	5.42	5.89	5.92
Burlington.....	241.78	269.24	261.67	41.4	42.4	41.8	5.84	6.35	6.26
Springfield.....	267.22	293.92	284.62	43.1	44.0	42.8	6.20	6.68	6.65
VIRGINIA	217.20	234.62	234.42	40.0	39.3	39.2	5.43	5.97	5.98
Bristol.....	204.36	216.97	213.73	39.0	37.8	37.3	5.24	5.74	5.73
Lynchburg.....	225.23	238.29	237.94	41.1	39.0	39.2	5.48	6.11	6.07
Norfolk—Virginia Beach—Portsmouth.....	243.17	263.06	264.38	40.8	40.1	40.8	5.96	6.56	6.48
Northern Virginia.....	247.25	259.49	257.46	40.6	38.5	38.6	6.09	6.74	6.67
Petersburg—Colonial Heights—Hopewell.....	250.52	270.97	274.77	38.9	38.6	38.7	6.44	7.02	7.10

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		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
VIRGINIA—Continued									
Richmond.....	\$271.35	\$300.93	\$296.91	40.5	39.7	39.8	\$6.70	\$7.58	\$7.46
Roanoke.....	199.40	222.88	216.37	39.8	39.8	38.5	5.01	5.60	5.62
WASHINGTON	311.50	(*)	(*)	38.6	(*)	(*)	8.07	(*)	(*)
Seattle—Everett.....	318.98	(*)	(*)	38.9	(*)	(*)	8.20	(*)	(*)
Spokane.....	285.18	(*)	(*)	38.8	(*)	(*)	7.35	(*)	(*)
Tacoma.....	315.06	(*)	(*)	38.8	(*)	(*)	8.12	(*)	(*)
WEST VIRGINIA	291.13	307.28	309.29	40.1	39.7	39.3	7.26	7.74	7.87
Charleston.....	320.46	360.38	352.29	42.0	42.8	41.3	7.63	8.42	8.53
Huntington—Ashland.....	315.61	334.70	345.39	39.9	39.1	39.7	7.91	8.56	8.70
Parkersburg—Marletta.....	301.02	325.56	321.55	42.1	40.9	40.6	7.15	7.96	7.92
Wheeling.....	305.52	332.81	335.60	40.2	39.2	40.0	7.60	8.49	8.39
WISCONSIN	296.77	316.46	317.25	41.5	40.6	40.6	7.14	7.80	7.62
Appleton—Oshkosh.....	293.41	309.87	310.62	42.6	41.4	41.4	6.88	7.48	7.50
Eau Claire.....	291.64	318.70	310.36	41.9	41.0	40.5	6.96	7.77	7.67
Green Bay.....	297.25	322.08	324.03	41.7	41.5	41.5	7.13	7.76	7.81
Janesville—Beloit.....	331.06	302.95	301.45	41.8	39.6	39.1	7.64	7.64	7.70
Kenosha.....	326.94	373.25	369.57	40.3	40.5	40.1	8.12	9.21	9.22
La Crosse.....	235.39	267.11	265.73	40.5	39.8	40.0	5.81	6.70	6.64
Madison.....	285.25	314.56	314.16	39.9	39.1	38.9	7.14	8.04	8.08
Milwaukee.....	326.14	347.57	346.62	41.6	40.8	40.5	7.84	8.53	8.55
Racine.....	321.17	336.95	340.74	43.0	41.3	41.1	7.48	8.17	8.30
WYOMING	238.98	274.48	275.53	37.4	39.1	37.9	6.39	7.02	7.27
Casper.....	316.20	271.95	283.44	40.8	36.9	37.1	7.75	7.37	7.64
VIRGIN ISLANDS	262.60	281.07	291.20	40.4	40.5	41.6	6.50	6.94	7.00

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	P3.4									
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	P2.3									
Recalls													
1976.....	1.0	1.4	1.0	1.2	1.0	1.0	.9	1.1	1.1	.8	.7	.7	.7
1977.....	.9	1.2	1.3	1.1	.9	.8	.8	.9	1.0	.8	.6	.6	.6
1978.....	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.7	.6	.5	.5
1979.....	.7	.9	.7	P.7	.7	.8	.7	.9	.9	.8	.7	.5	.5
1980.....		1.1	.9	P.9									
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	P3.7									
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	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	P1.3									

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	
		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
	MANUFACTURING	3.3	3.4	2.2	2.3	0.9	0.9	3.5	3.7	1.5	1.5	1.2	1.3
24, 25, 32-39	DURABLE GOODS	3.0	3.2	1.9	2.0	.8	.9	3.2	3.6	1.2	1.3	1.2	1.5
20-23, 26-31	NONDURABLE GOODS	3.7	3.9	2.5	2.7	1.0	.9	3.8	3.8	1.8	1.9	1.2	1.1
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	4.6	4.3	2.9	2.8	1.6	1.3	5.5	6.5	2.2	2.2	2.5	3.3
242	Sawmills and planing mills	3.3	-	2.4	-	.8	-	4.5	-	2.0	-	1.8	-
2421	Sawmills and planing mills, general	3.1	-	2.1	-	.8	-	4.2	-	1.8	-	1.8	-
243	Millwork, plywood, and structural members	4.1	-	2.5	-	1.5	-	4.9	-	2.0	-	2.1	-
2431	Millwork	3.7	-	2.0	-	1.7	-	4.4	-	2.0	-	1.5	-
244	Wooden containers	6.0	-	5.0	-	1.0	-	4.9	-	3.2	-	.8	-
245	Wood buildings and mobile homes	9.4	-	4.9	-	4.4	-	10.4	-	4.1	-	5.0	-
2451	Mobile homes	11.4	-	5.9	-	5.3	-	11.5	-	5.0	-	4.9	-
249	Miscellaneous wood products	5.0	-	3.8	-	1.1	-	4.4	-	2.3	-	1.1	-
25	FURNITURE AND FIXTURES	3.8	3.9	3.0	3.1	.7	.6	4.0	4.4	2.2	2.4	.8	.9
251	Household furniture	4.1	-	3.3	-	.7	-	4.2	-	2.5	-	.7	-
2511	Wood household furniture	3.7	-	3.2	-	.4	-	3.9	-	2.6	-	.4	-
2512	Upholstered household furniture	3.9	-	3.0	-	.8	-	4.1	-	2.4	-	.8	-
2515	Mattresses and bedsprings	5.4	-	4.2	-	1.1	-	4.8	-	2.5	-	1.1	-
252	Office furniture	2.8	-	2.1	-	.6	-	2.7	-	1.6	-	.5	-
254	Partitions and fixtures	3.8	-	3.0	-	.8	-	4.1	-	1.9	-	1.1	-
32	STONE, CLAY, AND GLASS PRODUCTS	3.4	3.8	1.8	2.0	1.4	1.6	3.9	3.7	1.3	1.3	1.8	1.7
322	Glass and glassware, pressed or blown	3.2	-	1.3	-	1.6	-	3.0	-	.7	-	1.5	-
3221	Glass containers	3.2	-	1.2	-	1.8	-	2.7	-	.8	-	1.3	-
3229	Pressed and blown glass, nec	3.1	-	1.3	-	1.4	-	3.3	-	.6	-	1.7	-
323	Products of purchased glass	2.5	-	1.3	-	1.0	-	3.4	-	1.0	-	1.3	-
324	Cement, hydraulic	1.6	-	.8	-	.7	-	2.0	-	.3	-	1.0	-
325	Structural clay products	4.9	-	2.5	-	2.2	-	5.5	-	2.1	-	2.7	-
326	Pottery and related products	2.9	-	1.6	-	1.1	-	2.7	-	1.3	-	.7	-
327	Concrete, gypsum, and plaster products	4.3	-	2.8	-	1.4	-	5.7	-	1.9	-	2.9	-
329	Misc. nonmetallic mineral products	2.5	-	1.3	-	1.1	-	2.8	-	.9	-	1.3	-
33	PRIMARY METAL INDUSTRIES	2.3	2.7	1.0	1.1	1.1	1.2	2.6	2.7	.6	.6	1.1	1.3
331	Blast furnace and basic steel products	2.2	-	.4	-	1.6	-	2.5	-	.3	-	1.3	-
3312	Blast furnaces and steel mills	2.2	-	.2	-	1.7	-	2.4	-	.2	-	1.3	-
332	Iron and steel foundries	2.7	-	1.3	-	.8	-	3.2	-	1.0	-	1.4	-
3321	Gray iron foundries	2.5	-	1.1	-	.9	-	3.6	-	1.0	-	1.9	-
3325	Steel foundries, nec	2.8	-	1.7	-	.9	-	2.4	-	.9	-	.7	-
333	Primary nonferrous metals .....	.9	-	.7	-	.1	-	.8	-	.2	-	.1	-
335	Nonferrous rolling and drawing	1.7	-	1.2	-	.4	-	2.1	-	.6	-	.9	-
3351	Copper rolling and drawing	1.7	-	1.0	-	.6	-	1.8	-	.7	-	.6	-
3353	Aluminum sheet, plate, and foil	1.3	-	.5	-	.7	-	1.5	-	.3	-	1.0	-
3357	Nonferrous wire drawing and insulating	1.4	-	1.2	-	.1	-	2.2	-	.6	-	.9	-
336	Nonferrous foundries	3.8	-	2.3	-	1.2	-	3.7	-	1.7	-	.9	-
3361	Aluminum foundries	3.5	-	2.3	-	1.0	-	3.5	-	1.6	-	.9	-
34	FABRICATED METAL PRODUCTS	3.4	3.5	2.3	2.2	.9	1.1	3.7	4.0	1.5	1.5	1.4	1.7
341	Metal cans and shipping containers	3.7	-	1.2	-	2.2	-	4.0	-	.6	-	2.5	-
3411	Metal cans	3.8	-	1.0	-	2.5	-	4.3	-	.5	-	2.9	-
342	Cutlery, hand tools, and hardware	3.0	-	1.7	-	1.2	-	3.4	-	1.4	-	1.2	-
3423, 5	Hand and edge tools, and hand saws and blades	2.5	-	1.7	-	.8	-	3.7	-	1.5	-	1.5	-
3429	Hardware, nec	3.4	-	1.6	-	1.6	-	3.2	-	1.4	-	1.0	-
343	Plumbing and heating, except electric	3.4	-	2.8	-	.5	-	4.2	-	1.6	-	1.6	-
344	Fabricated structural metal products	3.4	-	2.6	-	.7	-	4.2	-	1.8	-	1.5	-
3441	Fabricated structural metal	4.3	-	3.5	-	.7	-	4.8	-	2.1	-	1.7	-
3442	Metal doors, sash, and trim	3.8	-	2.2	-	1.4	-	5.8	-	2.3	-	2.6	-
3443	Fabricated plate work (boiler shops)	2.1	-	1.5	-	.4	-	2.8	-	1.1	-	1.0	-
3444	Sheet metal work	3.6	-	3.1	-	.5	-	4.5	-	2.2	-	1.6	-
345	Screw machine products, bolts, etc.	3.3	-	2.4	-	.9	-	3.4	-	1.8	-	.9	-
3451	Screw machine products	3.5	-	2.7	-	.7	-	3.4	-	2.2	-	.5	-
3452	Bolts, nuts, rivets, and washers	3.2	-	2.1	-	1.0	-	3.5	-	1.3	-	1.3	-
346	Metal forgings and stampings	3.5	-	1.6	-	1.1	-	3.3	-	1.0	-	1.5	-
3462	Iron and steel forgings	2.6	-	1.6	-	.7	-	2.9	-	.6	-	1.5	-
3465	Automotive stampings	4.3	-	.3	-	1.8	-	3.4	-	.5	-	2.5	-
3469	Metal stampings, nec	3.3	-	2.5	-	.7	-	3.4	-	1.5	-	.9	-
347	Metal services, nec	4.9	-	4.0	-	.7	-	4.9	-	2.4	-	1.1	-
348	Ordnance and accessories, nec	2.2	-	1.3	-	.6	-	2.8	-	.6	-	1.6	-
349	Misc. fabricated metal products	3.2	-	2.2	-	.9	-	3.1	-	1.4	-	1.0	-
3494	Valves and pipe fittings	2.8	-	1.9	-	.8	-	2.2	-	1.1	-	.5	-
3496	Misc. fabricated wire products	4.2	-	3.1	-	1.0	-	4.1	-	2.3	-	1.0	-

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	
		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
35	MACHINERY, EXCEPT ELECTRICAL	2.3	2.5	1.8	1.8	0.3	0.4	2.4	2.7	1.0	1.1	0.6	0.9
351	Engines and turbines	1.6	-	.5	-	.3	-	2.1	-	.3	-	.5	-
3511	Turbines and turbine generator sets	1.3	-	.4	-	.3	-	1.6	-	.2	-	.1	-
3519	Internal combustion engines, nec	1.7	-	.5	-	.4	-	2.3	-	.4	-	.7	-
352	Farm and garden machinery	2.6	-	1.9	-	.5	-	3.4	-	1.2	-	1.3	-
3523	Farm machinery and equipment	2.7	-	2.0	-	.5	-	3.2	-	1.2	-	1.2	-
353	Construction and related machinery	2.0	-	1.6	-	.3	-	2.1	-	.9	-	.5	-
3531	Construction machinery	1.4	-	.9	-	.3	-	1.6	-	.5	-	.5	-
3533	Oil field machinery	2.9	-	2.7	-	.1	-	2.2	-	1.3	-	.1	-
354	Metalworking machinery	2.6	-	2.1	-	.3	-	2.0	-	1.1	-	.3	-
3541	Machine tools, metal cutting types	1.9	-	1.7	-	.1	-	1.3	-	.7	-	.1	-
3544	Special dies, tools, jigs, and fixtures	3.1	-	2.3	-	.6	-	2.7	-	1.3	-	.5	-
3545	Machine tool accessories	2.4	-	2.2	-	.1	-	1.6	-	.9	-	.1	-
355	Special industry machinery	2.2	-	1.8	-	.2	-	2.1	-	1.0	-	.4	-
3551	Food products machinery	2.2	-	2.0	-	.2	-	1.8	-	1.0	-	.3	-
3552	Textile machinery	2.8	-	2.1	-	.5	-	2.6	-	1.4	-	.4	-
356	General industrial machinery	2.0	-	1.5	-	.3	-	2.2	-	.9	-	.7	-
3561	Pumps and pumping equipment	1.7	-	1.5	-	.2	-	2.0	-	1.0	-	.5	-
3562	Ball and roller bearings	2.0	-	1.4	-	.2	-	1.5	-	.7	-	.4	-
3564	Blowers and fans	2.7	-	2.0	-	.5	-	2.9	-	1.5	-	.8	-
357	Office and computing machines	2.2	-	1.8	-	.1	-	2.1	-	1.2	-	.3	-
3573	Electronic computing equipment	2.2	-	1.9	-	.1	-	1.8	-	1.1	-	.1	-
358	Refrigeration and service machinery	2.5	-	1.6	-	.6	-	2.9	-	1.0	-	1.1	-
3585	Refrigeration and heating equipment	2.4	-	1.4	-	.7	-	2.9	-	.8	-	1.1	-
359	Misc. machinery, except electrical	3.1	-	2.7	-	.4	-	3.3	-	1.6	-	.9	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	2.8	2.9	1.9	2.1	.4	.4	2.8	2.9	1.2	1.3	.7	.7
361	Electric distributing equipment	2.5	-	1.5	-	.4	-	3.1	-	1.1	-	.7	-
3612	Transformers	2.3	-	1.1	-	.5	-	2.7	-	.9	-	.4	-
3613	Switchgear and switchboard apparatus	2.7	-	1.9	-	.4	-	3.4	-	1.3	-	1.1	-
362	Electrical industrial apparatus	2.9	-	1.8	-	.6	-	2.5	-	1.1	-	.6	-
3621	Motors and generators	3.2	-	1.6	-	.9	-	2.6	-	1.0	-	.7	-
3622	Industrial controls	2.9	-	1.9	-	.5	-	2.5	-	1.1	-	.5	-
363	Household appliances	3.1	-	1.4	-	.8	-	3.8	-	1.2	-	1.0	-
3632	Household refrigerators and freezers	3.7	-	.3	-	1.3	-	5.1	-	.7	-	1.7	-
3633	Household laundry equipment	2.2	-	.6	-	.7	-	3.6	-	.5	-	2.3	-
3634	Electric housewares and fans	3.4	-	2.2	-	.8	-	3.6	-	1.9	-	.5	-
364	Electric lighting and wiring equipment	2.9	-	2.0	-	.4	-	2.9	-	1.4	-	.6	-
3641	Electric lamps	1.4	-	.7	-	.2	-	2.6	-	.6	-	1.0	-
3643	Current-carrying wiring devices	2.8	-	2.1	-	.3	-	2.6	-	1.4	-	.4	-
365	Radio and TV receiving equipment	3.7	-	1.4	-	1.4	-	4.0	-	1.0	-	1.5	-
3651	Radio and TV receiving sets	3.3	-	1.5	-	.8	-	3.6	-	.8	-	1.0	-
366	Communication equipment	2.2	-	1.7	-	.2	-	1.8	-	.8	-	.2	-
3661	Telephone and telegraph apparatus	1.9	-	1.6	-	.2	-	1.2	-	.4	-	.2	-
3662	Radio and TV communication equipment	2.4	-	1.8	-	.2	-	2.0	-	1.0	-	.2	-
367	Electronic components and accessories	3.2	-	2.8	-	.2	-	3.1	-	1.8	-	.5	-
3671-3	Electronic tubes	1.9	-	1.2	-	.3	-	2.0	-	.6	-	.8	-
3674	Semiconductors and related devices	2.6	-	2.3	-	.1	-	2.3	-	1.3	-	.2	-
3679	Electronic components, nec	3.8	-	3.3	-	.3	-	3.8	-	2.3	-	.7	-
369	Misc. electrical equipment and supplies	2.0	-	1.2	-	.5	-	3.8	-	1.0	-	2.0	-
3694	Engine electrical equipment	1.8	-	.7	-	.7	-	3.3	-	.6	-	1.6	-
37	TRANSPORTATION EQUIPMENT	3.0	-	1.4	-	1.0	-	3.5	-	.8	-	1.8	-
371	Motor vehicles and equipment	2.6	-	.4	-	1.2	-	4.5	-	.6	-	3.0	-
3711	Motor vehicles and car bodies	2.6	-	.3	-	.9	-	5.0	-	.4	-	3.6	-
3713	Truck and bus bodies	3.1	-	1.8	-	.6	-	4.4	-	1.2	-	2.6	-
3714	Motor vehicle parts and accessories	2.5	-	.4	-	1.6	-	3.9	-	.6	-	2.4	-
3715	Truck trailers	3.0	-	1.4	-	1.6	-	5.4	-	1.4	-	3.1	-
372	Aircraft and parts	2.1	-	1.7	-	.1	-	1.6	-	.8	-	.2	-
3721	Aircraft	1.6	-	1.3	-	.2	-	1.3	-	.7	-	.1	-
3724	Aircraft engines and engine parts	1.7	-	1.3	-	.1	-	1.3	-	.5	-	.2	-
3728	Aircraft equipment, nec	3.8	-	3.4	-	.2	-	2.9	-	1.5	-	.5	-
373	Ship and boat building and repairing	6.2	-	3.2	-	2.7	-	6.2	-	1.8	-	3.1	-
3731	Ship building and repairing	6.1	-	2.9	-	2.9	-	5.7	-	1.5	-	3.0	-
3732	Boat building and repairing	6.5	-	4.4	-	2.0	-	8.1	-	3.0	-	3.6	-
374	Railroad equipment	3.7	-	1.4	-	1.9	-	3.7	-	.5	-	2.1	-
376	Guided missiles, space vehicles, parts	2.3	-	1.7	-	.4	-	1.4	-	.5	-	.2	-
3761	Guided missiles and space vehicles	2.0	-	1.5	-	.2	-	1.2	-	.4	-	.3	-
379	Miscellaneous transportation equipment	6.9	-	4.7	-	1.9	-	4.6	-	2.3	-	1.1	-
38	INSTRUMENTS AND RELATED PRODUCTS	2.8	3.0	2.3	2.6	.3	.2	2.4	2.7	1.3	1.4	.3	.5
381	Engineering and scientific instruments	2.7	-	2.6	-	(1)	-	2.0	-	1.4	-	.2	-
382	Measuring and controlling devices	2.7	-	2.1	-	.3	-	2.4	-	1.2	-	.4	-
3822	Environmental controls	3.3	-	1.8	-	1.0	-	3.3	-	1.2	-	.8	-
3823	Process control instruments	2.8	-	2.4	-	.3	-	2.1	-	1.3	-	.1	-
3825	Instruments to measure electricity	2.4	-	1.9	-	.1	-	1.7	-	1.2	-	.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New Hires		Recalls		Total		Quits		Layoffs	
		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
INSTRUMENTS AND RELATED PRODUCTS—Cont'd													
383	Optical instruments and lenses	3.0	—	2.8	—	0.1	—	2.0	—	1.2	—	0.1	—
384	Medical instruments and supplies	3.7	—	3.3	—	.2	—	2.9	—	1.8	—	.2	—
3841	Surgical and medical instruments	4.3	—	4.0	—	.1	—	3.5	—	2.2	—	.2	—
3842	Surgical appliances and supplies	3.4	—	2.9	—	.4	—	2.5	—	1.5	—	.2	—
385	Ophthalmic goods	3.3	—	2.7	—	.5	—	3.1	—	1.7	—	.6	—
386	Photographic equipment and supplies	1.6	—	1.5	—	(¹)	—	1.4	—	.8	—	.1	—
387	Watches, clocks, and watchcases	2.6	—	1.0	—	1.5	—	4.0	—	1.2	—	2.1	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	4.5	4.7	2.7	2.8	1.6	1.6	4.5	4.9	1.8	1.9	1.8	2.0
391	Jewelry, silverware, and plated ware	3.2	—	2.2	—	.9	—	4.5	—	1.5	—	2.2	—
393	Musical instruments	3.5	—	2.7	—	.6	—	3.9	—	1.9	—	1.3	—
394	Toys and sporting goods	6.5	—	3.1	—	3.0	—	5.5	—	2.2	—	2.1	—
3942,4	Dolls, games, toys, and children's vehicles	8.5	—	3.6	—	4.6	—	7.6	—	2.8	—	3.4	—
3949	Sporting and athletic goods, nec	4.8	—	2.7	—	1.7	—	3.6	—	1.6	—	1.0	—
395	Pens, pencils, office and art supplies	2.8	—	1.9	—	.6	—	2.8	—	1.2	—	.5	—
396	Costume jewelry and notions	5.2	—	3.4	—	1.7	—	5.2	—	2.1	—	2.3	—
399	Miscellaneous manufactures	3.7	—	2.6	—	1.0	—	4.2	—	1.6	—	1.7	—
NONDURABLE GOODS													
20	FOOD AND KINDRED PRODUCTS	4.4	5.0	2.7	3.0	1.5	1.7	5.1	4.9	2.1	2.1	2.2	2.0
201	Meat products	5.8	—	4.0	—	1.4	—	6.0	—	3.4	—	1.6	—
2011	Meat packing plants	4.4	—	2.2	—	1.7	—	4.3	—	1.6	—	1.8	—
2013	Sausages and other prepared meats	4.1	—	2.2	—	1.7	—	4.1	—	1.3	—	1.7	—
2016	Poultry dressing plants	8.4	—	7.2	—	.7	—	9.4	—	6.9	—	1.4	—
202	Dairy products	3.3	—	2.3	—	.9	—	2.8	—	1.5	—	.8	—
203	Preserved fruits and vegetables	7.6	—	3.3	—	4.3	—	10.1	—	2.6	—	6.3	—
204	Grain mill products	2.7	—	1.8	—	.7	—	3.4	—	1.5	—	1.2	—
206	Bakery products	2.2	—	1.6	—	.4	—	2.6	—	1.2	—	.7	—
2061	Bread, cake, and related products	1.9	—	1.6	—	.2	—	2.3	—	1.3	—	.5	—
2062	Cookies and crackers	3.1	—	1.5	—	1.5	—	3.6	—	1.0	—	1.9	—
206	Sugar and confectionery products	3.7	—	1.8	—	1.8	—	6.0	—	1.7	—	3.4	—
207	Fats and oils	3.2	—	2.4	—	.6	—	3.3	—	1.8	—	.8	—
208	Beverages	3.7	—	2.2	—	1.4	—	3.9	—	1.5	—	1.6	—
2082	Malt beverages	4.7	—	1.3	—	3.2	—	5.2	—	.3	—	4.1	—
2086	Bottled and canned soft drinks	3.2	—	2.7	—	.4	—	3.3	—	2.1	—	.4	—
209	Misc. foods and kindred products	5.1	—	3.0	—	1.9	—	5.8	—	2.2	—	2.9	—
21	TOBACCO MANUFACTURES	2.0	—	.8	—	.8	—	5.1	—	1.0	—	3.2	—
211	Cigarettes	1.0	—	.4	—	.2	—	1.7	—	.5	—	.2	—
22	TEXTILE MILL PRODUCTS	3.9	4.3	3.0	3.4	.6	.6	4.0	4.1	2.3	2.5	.7	.5
221	Weaving mills, cotton	3.3	—	2.6	—	.1	—	3.1	—	2.0	—	.1	—
222	Weaving mills, synthetics	3.0	—	2.5	—	.2	—	3.4	—	2.1	—	.3	—
223	Weaving and finishing mills, wool	4.2	—	3.1	—	1.0	—	4.4	—	2.3	—	1.1	—
224	Narrow fabric mills	4.1	—	3.2	—	.7	—	4.2	—	2.2	—	1.1	—
225	Knitting mills	5.0	—	3.7	—	1.1	—	4.5	—	2.6	—	.9	—
2251	Women's hosiery, except socks	3.2	—	2.8	—	.3	—	3.4	—	2.6	—	.2	—
2252	Hosiery, nec	4.9	—	4.3	—	.4	—	3.9	—	3.0	—	.3	—
2253	Knit outerwear mills	6.1	—	4.2	—	1.7	—	4.5	—	2.8	—	.8	—
2254	Knit underwear mills	3.2	—	2.6	—	.4	—	2.9	—	2.0	—	.3	—
2257	Circular knit fabric mills	6.8	—	5.1	—	1.6	—	7.0	—	3.0	—	1.2	—
226	Textile finishing, except wool	3.3	—	2.6	—	.4	—	3.7	—	1.8	—	1.3	—
227	Floor covering mills	3.0	—	1.9	—	.9	—	3.2	—	1.8	—	.5	—
228	Yarn and thread mills	4.7	—	3.9	—	.5	—	5.3	—	3.4	—	.8	—
229	Miscellaneous textile goods	3.4	—	2.2	—	.7	—	3.5	—	1.7	—	.9	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	5.7	5.3	3.7	3.8	1.7	1.3	5.0	5.0	2.7	2.9	1.5	1.3
231	Men's and boys' suits and coats	4.0	—	2.4	—	1.3	—	3.8	—	1.7	—	1.3	—
232	Men's and boys' furnishings	5.2	—	4.0	—	1.0	—	4.8	—	3.3	—	.9	—
2321	Men's and boys' shirts and nightwear	4.2	—	3.1	—	.9	—	3.8	—	2.7	—	.4	—
2327	Men's and boys' separate trousers	4.6	—	4.1	—	.3	—	4.4	—	3.2	—	.5	—
2328	Men's and boys' work clothing	5.6	—	4.9	—	.6	—	5.2	—	4.1	—	.5	—
233	Women's and misses' outerwear	6.2	—	3.5	—	2.4	—	5.2	—	2.2	—	2.0	—
234	Women's and children's undergarments	4.6	—	3.3	—	1.1	—	4.3	—	2.7	—	.9	—
2341	Women's and children's underwear	4.6	—	3.3	—	1.2	—	4.3	—	2.9	—	.9	—
2342	Brassieres and allied garments	4.5	—	3.4	—	1.0	—	4.1	—	2.2	—	1.0	—
236	Children's outerwear	6.1	—	4.4	—	1.6	—	4.6	—	3.0	—	.7	—
238	Misc. apparel and accessories	8.0	—	3.6	—	4.3	—	5.2	—	2.5	—	1.9	—
239	Misc. fabricated textile products	5.6	—	3.7	—	1.4	—	5.5	—	2.6	—	1.9	—
26	PAPER AND ALLIED PRODUCTS	2.1	2.5	1.4	1.5	.5	.8	2.5	2.8	.9	1.0	.9	1.1
261,2,6	Paper and pulp mills	1.1	—	.6	—	.4	—	1.3	—	.3	—	.6	—
262	Paper mills, except building paper	1.0	—	.5	—	.4	—	1.3	—	.3	—	.5	—

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	
		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
PAPER AND ALLIED PRODUCTS—Continued													
263	Paperboard mills	1.0	—	0.7	—	0.1	—	2.3	—	0.6	—	1.3	—
264	Misc. converted paper products	2.9	—	2.2	—	.6	—	2.7	—	1.3	—	.6	—
265	Paperboard containers and boxes	2.5	—	1.6	—	.8	—	3.4	—	1.1	—	1.5	—
2651	Folding paperboard boxes	2.6	—	1.5	—	1.0	—	3.2	—	.9	—	1.5	—
2653	Corrugated and solid fiber boxes	2.0	—	1.5	—	.3	—	2.8	—	1.1	—	1.1	—
PRINTING AND PUBLISHING													
27	Newspapers	3.1	3.1	2.5	2.6	.4	0.4	3.0	2.9	1.8	1.7	.6	0.6
271	Periodicals	3.2	—	2.8	—	.2	—	3.0	—	2.3	—	.1	—
272	Books	2.9	—	2.2	—	.1	—	2.5	—	1.7	—	.2	—
273	Miscellaneous publishing	2.3	—	2.4	—	.5	—	2.8	—	1.6	—	.8	—
274	Commercial printing	3.1	—	2.6	—	.4	—	2.8	—	1.5	—	.5	—
275	Commercial printing, letterpress	3.2	—	2.4	—	.7	—	3.3	—	1.4	—	1.2	—
2751	Commercial printing, lithographic	3.2	—	2.4	—	.8	—	3.5	—	1.5	—	1.5	—
2752	Blankbooks and bookbinding	3.2	—	2.4	—	.6	—	3.1	—	1.4	—	1.0	—
278	Blankbooks and bookbinding	4.3	—	3.4	—	.9	—	4.0	—	2.1	—	1.0	—
CHEMICALS AND ALLIED PRODUCTS													
28	Industrial inorganic chemicals	1.6	1.7	1.2	1.3	.2	.3	1.5	1.5	.6	.7	.3	.3
281	Industrial inorganic chemicals, nec	1.2	—	1.0	—	.1	—	1.0	—	.5	—	.1	—
2819	Plastics materials and synthetics	1.1	—	.9	—	(¹)	—	.9	—	.4	—	.1	—
282	Plastics materials and synthetics	1.0	—	.7	—	.2	—	1.1	—	.4	—	.3	—
2821	Plastics materials and resins	1.3	—	1.0	—	.1	—	1.3	—	.6	—	.2	—
2824	Organic fibers, noncellulosic	.5	—	.4	—	(¹)	—	.8	—	.2	—	.2	—
283	Drugs	1.5	—	1.2	—	.1	—	1.5	—	.6	—	.3	—
2834	Pharmaceutical preparations	1.5	—	1.2	—	.1	—	1.8	—	.6	—	.4	—
284	Soap, cleaners, and toilet goods	2.4	—	1.7	—	.6	—	2.5	—	.9	—	.8	—
2841	Soap and other detergents	1.6	—	.9	—	.7	—	2.2	—	.4	—	1.1	—
2844	Toilet preparations	3.2	—	2.0	—	.9	—	2.8	—	1.1	—	.9	—
285	Paints and allied products	2.1	—	1.7	—	.3	—	2.2	—	1.0	—	.5	—
286	Industrial organic chemicals	1.1	—	1.0	—	.1	—	1.2	—	.5	—	.1	—
287	Agricultural chemicals	2.7	—	2.2	—	.4	—	1.7	—	1.0	—	.2	—
289	Miscellaneous chemical products	1.9	—	1.4	—	.3	—	2.1	—	1.0	—	.4	—
PETROLEUM AND COAL PRODUCTS													
29	Petroleum refining	1.8	2.0	1.2	1.4	.4	.5	1.8	1.8	.7	.6	.3	.6
291	Paving and roofing materials	1.2	—	.8	—	.2	—	1.3	—	.3	—	.1	—
295	Paving and roofing materials	4.0	—	2.5	—	1.2	—	3.7	—	1.8	—	.9	—
RUBBER AND MISC. PLASTICS PRODUCTS													
30	Tires and inner tubes	4.0	3.9	2.7	2.7	1.1	.9	4.6	4.6	1.9	2.0	1.6	1.6
301	Rubber and plastics footwear	1.5	—	.4	—	.7	—	3.6	—	.3	—	2.1	—
302	Reclaimed rubber, and rubber and plastics hose and belting	9.2	—	5.2	—	3.7	—	7.3	—	3.8	—	1.1	—
303,4	Fabricated rubber products, nec	1.3	—	.9	—	.2	—	5.0	—	1.1	—	3.3	—
306	Miscellaneous plastics products	3.0	—	1.5	—	1.2	—	3.9	—	1.1	—	1.9	—
307	Miscellaneous plastics products	4.8	—	3.4	—	1.1	—	4.8	—	2.4	—	1.4	—
LEATHER AND LEATHER PRODUCTS													
31	Leather tanning and finishing	6.0	6.6	4.1	4.6	1.6	1.6	6.0	6.3	3.1	3.3	2.0	2.0
311	Footwear, except rubber	6.4	—	3.8	—	2.6	—	5.4	—	1.8	—	3.0	—
314	Men's footwear, except athletic	5.7	—	3.8	—	1.7	—	6.3	—	3.0	—	2.5	—
3143	Women's footwear, except athletic	5.8	—	4.3	—	1.2	—	5.7	—	3.4	—	1.3	—
3144	Women's footwear, except athletic	4.7	—	3.4	—	.9	—	6.1	—	3.0	—	2.3	—
NONMANUFACTURING:													
MINING													
10	Metal mining	4.8	4.9	3.6	3.7	.8	.9	4.4	3.0	2.7	1.7	.8	.6
101	Iron ores	2.2	2.6	1.5	1.6	.4	.4	2.1	2.4	.9	.8	.4	.1
102	Copper ores	2.4	—	.3	—	1.5	—	2.7	—	.2	—	1.1	—
12	Bituminous coal and lignite mining	1.3	—	1.2	—	(¹)	—	1.0	—	.4	—	(¹)	—
13	Oil and gas extraction	1.8	1.4	.8	.7	.7	.4	2.6	1.7	.5	.4	1.5	.8
131, 2	Crude petroleum, natural gas, and natural gas liquids	7.4	7.0	5.8	5.9	1.0	.7	5.9	3.9	4.4	2.6	.3	.4
138	Oil and gas field services	2.3	—	1.9	—	.3	—	1.7	—	1.0	—	.1	—
14	Nonmetallic minerals, except fuels	10.9	—	8.6	—	1.4	—	8.8	—	6.8	—	.4	—
142	Crushed and broken stone	2.5	5.1	1.5	2.3	.9	2.7	3.7	2.6	1.4	1.2	1.7	.8
144	Sand and gravel	2.4	—	1.1	—	1.2	—	4.3	—	1.2	—	2.6	—
481	Telephone communication	3.3	—	1.7	—	1.4	—	4.1	—	1.7	—	2.0	—
COMMUNICATION:													
481	Telephone communication	.7	—	.6	—	(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	P3.5									
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	P2.5									
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	3.8	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	P4.1									
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	P1.7									
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	P1.5									

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	
	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p
ALABAMA:												
Birmingham	2.7	2.2	1.3	1.1	1.0	0.9	3.0	2.1	0.7	0.7	1.3	0.7
Mobile	5.3	8.1	1.3	1.7	4.0	6.3	5.4	6.3	.9	1.3	3.9	4.4
ALASKA	9.8	10.1	5.2	4.0	4.4	5.9	5.9	3.9	.8	1.3	4.2	2.0
ARIZONA	4.3	4.2	3.8	3.5	.4	.5	3.8	3.7	2.1	2.0	.6	.6
Phoenix	4.4	4.2	3.9	3.6	.4	.4	3.6	3.7	2.1	2.1	.3	.5
ARKANSAS	5.1	4.0	3.7	2.9	1.0	.7	5.3	4.2	3.0	2.4	1.3	.9
Fort Smith	4.1	4.1	2.1	2.2	1.6	1.0	4.0	3.3	2.0	1.9	.6	.3
Little Rock—North Little Rock	3.2	3.6	2.4	2.4	.6	.7	4.4	3.6	1.9	1.9	1.6	.5
Pine Bluff	3.5	3.0	2.8	2.2	.6	.5	4.4	2.7	2.4	1.9	1.2	.1
COLORADO	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Denver—Boulder	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
CONNECTICUT	2.8	2.5	2.0	1.9	.6	.4	2.6	2.4	1.2	1.2	.7	.6
Hartford	3.5	2.5	2.4	2.1	.9	.2	2.6	2.3	1.3	1.2	.5	.5
DELAWARE	6.7	2.6	.9	1.4	5.6	.9	2.0	1.7	.7	.6	.7	.4
Wilmington	6.7	1.8	.5	.7	6.0	.8	2.0	1.4	.5	.5	.9	.4
FLORIDA	5.4	4.2	4.5	3.7	.8	.4	5.0	4.0	3.0	2.7	.9	.5
Fort Lauderdale—Hollywood	6.8	6.5	6.1	6.1	.5	.3	6.1	4.3	4.1	3.2	.9	(¹)
Jacksonville	4.5	2.2	2.3	1.7	2.1	.5	5.8	2.3	1.9	1.3	3.0	.6
Miami	5.5	4.6	4.9	3.9	.5	.7	5.2	4.1	3.2	3.0	.9	.5
Orlando	4.5	6.4	4.1	5.6	.3	.7	4.0	4.4	2.8	3.1	.5	.5
Pensacola	1.1	1.6	.9	1.5	.1	(¹)	2.1	1.8	1.0	1.1	.3	.3
Tampa—St. Petersburg	6.6	4.1	5.3	3.5	1.2	.4	5.4	4.4	3.5	3.1	.9	.4
West Palm Beach—Boca Raton	4.5	4.6	4.4	4.3	.1	.3	4.9	3.7	3.0	2.8	.5	.1
GEORGIA	3.7	3.6	2.9	2.7	.5	.5	3.7	3.4	2.1	2.1	.7	.4
Atlanta ²	2.9	3.2	2.1	2.4	.6	.4	3.4	2.7	1.4	1.5	1.3	.6
HAWAII ³	2.7	2.1	1.9	1.2	.3	.7	2.5	3.5	1.3	1.0	.5	1.4
IDAHO ⁴	3.5	4.3	2.1	2.7	1.2	1.5	4.3	5.7	1.5	1.5	2.1	2.9
ILLINOIS:												
Chicago SMSA	3.1	2.6	2.3	1.8	.6	.5	3.5	2.8	1.6	1.1	.8	.7
Davenport—Rock Island—Moline	3.6	2.2	1.6	1.6	1.6	.1	2.2	3.0	1.0	.9	.4	1.1
Decatur	2.6	1.6	.6	.6	1.6	.5	3.7	1.7	1.8	.3	.9	.9
Peoria	3.4	2.3	1.3	.9	2.0	1.3	2.1	1.5	.4	.3	1.3	.8
Rockford	2.3	2.7	1.7	1.6	.3	.8	3.2	2.9	1.2	1.2	1.1	1.0
INDIANA ⁵	2.9	2.5	1.0	1.0	1.4	1.0	3.8	3.2	.8	.7	2.3	1.8
Indianapolis ⁶	2.4	2.3	1.3	1.1	.6	.5	2.6	2.7	.8	.8	.8	1.1
IOWA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Cedar Rapids	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Des Moines	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
KANSAS	4.2	3.7	3.3	3.1	.7	.5	4.3	3.9	2.4	2.2	.9	.8
Topeka	2.7	2.4	1.9	2.1	.7	.4	3.4	4.0	1.2	1.2	1.4	2.2
Wichita	5.0	3.7	4.3	3.3	.5	.3	3.9	3.5	2.7	2.4	.1	.1
KENTUCKY	3.9	3.1	2.1	1.7	1.2	.9	4.6	6.1	1.3	1.3	2.3	3.7
Lexington—Fayette	2.2	1.7	1.5	.7	.2	.5	2.4	2.2	1.0	.7	.7	.8
Louisville	2.0	2.6	.9	1.0	.2	.6	2.5	7.1	.6	.6	.7	4.9
LOUISIANA:												
New Orleans	4.4	4.2	3.6	3.5	.5	.4	4.5	4.0	2.4	2.4	.9	.4
MAINE	4.5	4.0	3.3	2.8	.9	1.0	5.2	4.3	2.0	1.9	2.3	1.6
Portland	4.2	4.0	3.4	2.8	.3	.9	4.1	3.4	2.1	2.2	1.3	.5
MARYLAND	2.7	2.5	1.4	1.5	1.1	.9	3.2	2.8	1.0	.9	1.5	1.2
Baltimore	2.5	2.2	1.2	1.2	1.1	.7	2.8	2.8	.7	.8	1.4	1.3
MASSACHUSETTS	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Boston	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

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	
	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p
MICHIGAN	2.9	2.6	0.6	0.5	1.9	1.4	5.2	2.9	0.6	0.5	3.7	1.8
Detroit	1.7	2.0	.4	.4	1.0	1.0	4.3	2.2	.5	.4	3.2	1.3
Flint	2.5	2.8	.1	.1	.9	.5	6.7	4.5	.2	.3	5.4	3.4
Grand Rapids	1.7	2.0	.8	1.1	.4	.6	3.7	3.2	.8	.8	2.1	1.7
Lansing—East Lansing .....	.9	2.2	(1)	(1)	.7	.4	4.9	2.0	.2	.2	4.0	1.4
MINNESOTA	3.5	2.9	2.3	2.2	1.0	.6	3.4	3.1	1.8	1.6	1.0	.9
Minneapolis—St. Paul	3.5	2.7	2.3	2.2	1.1	.4	2.8	2.8	1.8	1.6	.4	.6
MISSISSIPPI:												
Jackson	3.8	2.8	3.1	1.9	.5	.8	4.5	2.9	2.1	1.5	1.6	.7
MISSOURI	3.3	2.9	2.0	1.8	1.1	.9	4.1	2.9	1.4	1.2	2.0	1.1
Kansas City	3.1	2.8	2.2	2.0	.7	.6	3.5	2.8	1.5	1.2	1.1	.9
St. Louis	2.5	2.3	1.3	1.2	1.1	.9	4.1	2.3	.9	.7	2.5	1.0
MONTANA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
NEBRASKA	3.3	(*)	2.8	(*)	.4	(*)	3.3	(*)	2.0	(*)	.7	(*)
NEVADA	8.1	5.3	7.2	4.7	.9	.6	6.5	4.9	4.0	3.1	.8	.6
NEW HAMPSHIRE	5.3	4.2	3.8	3.3	1.3	.7	5.4	4.8	2.9	2.7	1.6	1.2
NEW JERSEY:												
Camden	3.0	3.0	2.0	1.6	.8	1.1	2.6	2.7	.9	.8	.7	1.0
Hackensack	4.9	3.8	3.1	3.0	1.7	.7	5.1	3.7	1.9	1.8	2.0	1.0
Jersey City	4.1	4.1	2.1	2.2	1.8	1.8	4.8	3.9	1.5	1.4	2.6	1.6
New Brunswick—Perth Amboy—Sayreville	4.5	2.6	2.2	1.9	2.2	.5	2.8	2.9	1.2	1.3	.9	1.0
Newark	3.1	2.7	2.2	2.2	.4	.4	4.2	2.9	1.3	1.2	1.7	.8
Paterson—Clifton—Passaic	5.3	4.5	3.3	2.4	1.8	1.8	4.0	3.6	1.5	1.2	1.5	1.5
Trenton	3.6	3.1	1.8	1.6	1.4	1.3	3.6	3.0	.8	1.1	1.9	1.2
NEW YORK	4.1	3.5	2.0	2.0	1.8	1.4	4.4	3.2	1.2	1.0	2.4	1.4
Albany—Schenectady—Troy	3.3	2.9	1.3	1.3	1.4	1.0	3.7	3.0	.6	.7	1.9	1.2
Binghamton	1.9	2.0	1.5	1.4	.2	.4	2.1	1.9	.9	1.0	.4	.3
Buffalo	5.3	2.8	.9	1.1	4.2	1.5	6.6	2.4	.6	.5	5.3	1.1
Elmira	2.3	2.4	1.2	1.4	.7	.6	2.4	3.8	.6	1.1	.9	1.6
Monroe County ⁸	1.7	1.7	1.1	1.2	.3	.3	2.4	1.8	.8	.5	1.0	.4
Nassau—Suffolk ⁹	4.8	4.2	3.9	3.2	.8	.9	4.8	3.9	2.5	2.0	1.3	1.0
New York and Nassau—Suffolk	4.9	4.5	2.9	2.7	1.9	1.7	5.1	3.8	1.6	1.3	2.6	1.7
New York SMSA ⁹	5.0	4.6	2.6	2.6	2.2	1.9	5.2	3.8	1.4	1.1	2.9	1.9
New York City ¹⁰	5.5	5.0	2.7	2.8	2.6	2.2	5.8	4.0	1.5	1.1	3.3	2.1
Rochester	2.1	1.8	1.3	1.2	.6	.4	2.8	2.1	.9	.6	1.3	.7
Syracuse	3.0	2.3	1.2	1.3	1.4	.8	2.9	2.9	.9	.8	1.1	1.4
Utica—Rome	2.6	2.1	1.8	1.5	.7	.5	2.7	3.1	1.0	1.0	.8	1.6
Westchester County ¹⁰	2.2	1.9	1.7	1.5	.3	.2	2.5	2.2	.9	1.0	.9	.7
NORTH CAROLINA	4.3	3.4	3.5	2.9	.5	.3	4.2	3.4	2.6	2.2	.7	.5
Charlotte—Gastonia	6.0	5.2	5.2	4.6	.5	.3	5.8	5.0	4.1	3.7	.5	.3
Greensboro—Winston-Salem—High Point	3.8	2.8	3.3	2.5	.3	.2	4.0	3.0	2.3	2.0	.7	.4
NORTH DAKOTA	6.8	4.6	2.4	2.2	2.7	2.1	4.4	5.9	2.3	2.3	1.5	2.6
Fargo—Moorhead	3.2	4.3	2.3	3.4	.3	.5	14.1	7.9	1.3	1.5	11.9	5.0
OHIO	2.6	2.0	1.0	.9	(*)	(*)	3.5	2.5	.7	.6	2.0	1.2
Akron	1.6	1.3	.8	.6	(*)	(*)	2.3	2.9	.6	.4	1.2	2.1
Canton	2.6	2.1	.9	.8	(*)	(*)	3.0	2.4	.5	.6	1.5	1.2
Cincinnati	2.0	2.0	1.1	1.1	(*)	(*)	4.0	1.8	.8	.6	2.4	.4
Cleveland	2.8	2.3	1.4	1.2	(*)	(*)	3.1	2.5	.9	.7	1.2	1.0
Columbus	2.9	2.3	1.4	1.4	(*)	(*)	2.2	2.4	.8	.8	.8	.9
Dayton	1.5	1.5	1.0	.8	(*)	(*)	3.2	1.8	.7	.5	1.6	.6
Toledo	2.2	1.7	.7	.9	(*)	(*)	2.9	2.5	.5	.4	1.6	1.4
Youngstown—Warren	2.2	2.1	.6	.4	(*)	(*)	4.4	2.7	.4	.3	3.0	1.7
OKLAHOMA	5.5	5.2	4.9	4.5	.4	.6	5.1	4.9	3.4	3.4	.7	.5
Oklahoma City	4.8	4.7	4.2	3.9	.6	.4	4.8	4.7	3.3	3.1	.6	.7
Tulsa ¹¹	5.5	5.2	5.2	4.8	.2	.3	5.4	5.1	3.1	3.3	.6	.3
OREGON ⁵	3.8	3.5	2.2	2.3	1.4	1.1	4.2	3.6	1.5	1.7	2.0	1.3
Eugene—Springfield ⁵	2.8	1.9	1.5	1.4	.8	.3	4.2	3.3	1.2	.8	2.1	1.7
Portland ⁵	4.1	4.3	2.8	3.0	1.1	1.2	4.0	3.7	1.7	1.9	1.6	1.0

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	
	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p	Jan. 1980	Feb. 1980 ^p
PENNSYLVANIA	3.2	2.8	1.5	1.4	1.4	1.2	3.3	2.9	0.9	0.9	1.7	1.3
Allentown—Bethlehem—Easton	3.0	3.1	1.5	1.5	1.3	1.4	2.4	2.1	.8	.9	.9	.7
Altoona	3.1	1.5	2.0	.8	1.0	.6	1.9	4.3	1.0	.5	.5	3.5
Erie	2.2	1.8	1.0	1.2	.8	.4	2.4	2.7	.7	.8	.8	1.2
Harrisburg	2.6	2.5	1.8	1.6	.5	.6	2.6	2.7	1.3	1.3	.6	.6
Johnstown	2.3	2.5	.6	.4	1.7	2.0	4.4	2.2	.5	.4	3.0	1.1
Lancaster	2.8	2.5	2.2	1.9	.5	.4	2.5	5.1	1.3	1.6	.6	3.1
Northeast Pennsylvania	5.5	3.8	2.0	1.8	3.2	1.8	4.1	3.0	1.2	1.0	2.4	1.4
Philadelphia SMSA	3.2	2.7	1.8	1.6	1.2	.9	3.3	2.9	1.0	.9	1.4	1.1
Pittsburgh	2.7	2.6	.7	.7	1.6	1.7	2.9	2.5	.4	.4	1.7	1.3
Reading	2.5	2.2	1.5	1.5	.8	.6	3.3	3.9	1.1	1.4	1.5	1.8
Scranton ¹²	4.7	3.4	1.8	1.7	2.8	1.6	4.7	2.5	1.2	.9	3.1	1.2
Wilkes-Barre—Hazleton ¹²	5.7	3.9	1.6	1.8	3.7	1.8	3.4	3.4	.9	1.0	1.9	1.8
Williamsport	1.9	1.5	.7	.6	1.0	.7	1.8	1.5	.5	.5	1.0	.5
York	3.1	3.4	2.3	2.4	.7	.8	4.1	3.4	1.6	1.6	2.1	1.2
RHODE ISLAND	5.6	4.2	3.4	2.8	1.9	1.1	6.4	4.5	2.3	2.0	3.0	1.4
Providence—Warwick—Pawtucket	5.0	4.1	3.0	2.8	1.8	1.1	5.9	4.4	2.1	2.0	2.8	1.4
SOUTH CAROLINA	3.9	3.1	3.2	2.6	.4	.3	3.7	3.4	2.1	2.0	.6	.5
Charleston—North Charleston	4.9	2.8	4.4	2.2	.4	.3	4.1	3.1	2.4	1.2	.5	.6
Columbia	4.1	5.8	3.6	4.3	.2	1.3	3.5	4.0	2.1	2.9	.6	.1
Greenville—Spartanburg	4.0	3.5	3.6	3.3	.2	.1	3.8	3.7	2.5	2.4	.2	.2
SOUTH DAKOTA	2.7	2.6	2.3	1.9	.3	.6	3.5	3.7	1.6	1.8	1.2	1.3
Sioux Falls	2.8	3.0	2.0	1.6	.9	1.4	3.8	3.0	1.4	1.5	1.8	1.3
TENNESSEE:												
Memphis	2.8	2.5	1.6	1.6	1.1	.8	2.8	3.3	1.0	1.2	1.2	1.3
TEXAS:												
Dallas—Fort Worth	5.3	5.0	4.8	4.5	.4	.3	5.1	4.5	3.4	3.2	.7	.3
Houston	4.4	4.0	4.1	3.7	.2	.2	3.7	3.8	2.5	2.5	.2	.2
San Antonio	5.0	4.4	4.6	4.2	.2	.2	4.6	4.4	3.4	2.9	.2	.4
UTAH ⁴	5.3	4.5	4.5	4.0	.3	.3	4.9	4.5	2.8	2.8	.7	.5
Salt Lake City—Ogden ⁴	5.4	4.7	4.9	4.3	.3	.3	4.9	4.6	3.0	2.9	.5	.6
VERMONT	4.9	2.9	2.4	2.3	2.3	.4	3.2	2.7	1.5	1.3	1.1	.8
Burlington	1.7	2.0	1.3	1.8	.1	.1	2.3	1.4	.8	.6	.9	.5
Springfield	4.0	2.7	2.9	1.9	1.1	.7	2.8	2.2	1.4	.8	.8	.9
VIRGINIA	2.9	2.6	1.8	1.8	.8	.6	2.6	2.6	1.2	1.2	.6	.6
Richmond	1.5	1.8	1.1	1.4	(¹)	.1	1.4	1.7	.6	.7	.2	.2
WASHINGTON:												
Seattle—Everett ¹³	3.1	3.4	2.2	2.5	.7	.7	3.2	3.3	1.2	1.2	1.3	1.3
WISCONSIN	3.0	2.4	1.5	1.3	1.0	.8	4.0	2.8	1.1	.8	1.8	1.2
Milwaukee	3.2	2.2	1.5	1.2	.9	.5	4.3	2.7	1.0	.7	1.8	.9
WYOMING	8.2	2.6	6.0	1.8	1.4	.8	24.7	8.4	5.5	2.4	17.6	4.4

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		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
ALABAMA	1,598.2	1,614.7	1,616.8	115.5	126.6	127.9	7.2	7.8	7.9
Birmingham	371.3	N.A.	N.A.	23.9	N.A.	N.A.	6.4	N.A.	N.A.
Huntsville	134.6	N.A.	N.A.	11.0	N.A.	N.A.	8.2	N.A.	N.A.
Mobile	177.6	N.A.	N.A.	13.6	N.A.	N.A.	7.7	N.A.	N.A.
Montgomery	115.4	N.A.	N.A.	6.5	N.A.	N.A.	5.6	N.A.	N.A.
Tuscaloosa	51.5	N.A.	N.A.	3.3	N.A.	N.A.	6.5	N.A.	N.A.
ALASKA	174.5	177.1	182.0	18.9	20.1	19.6	10.8	11.3	10.8
ARIZONA	1,049.7	1,092.1	1,095.6	50.6	61.5	62.9	4.8	5.6	5.7
Phoenix	641.4	668.3	669.9	26.6	33.2	34.0	4.1	5.0	5.1
Tucson	189.0	198.2	198.9	8.1	9.3	9.9	4.3	4.7	5.0
ARKANSAS ³	937.2	923.8	946.0	62.5	65.2	57.2	6.7	7.1	6.0
Fayetteville-Springdale	74.0	74.5	76.0	4.1	4.0	3.3	5.6	5.4	4.3
Fort Smith ¹	82.7	79.7	80.4	6.2	5.9	5.5	7.4	7.4	6.9
Little Rock-North Little Rock	179.4	179.3	183.0	7.7	7.8	7.3	4.3	4.4	4.0
Pine Bluff	37.6	36.5	37.3	2.5	2.2	1.8	6.7	5.9	5.0
CALIFORNIA ²	10,783.0	11,024.6	11,085.2	721.7	741.5	700.2	6.7	6.7	6.3
Anaheim-Santa Ana-Garden Grove	1,037.7	1,074.7	1,085.2	43.0	47.2	42.7	4.1	4.4	3.9
Bakersfield	171.1	173.0	173.1	18.1	16.3	15.2	10.6	9.4	8.8
Fresno	245.9	254.8	254.1	25.2	26.0	23.9	10.3	10.2	9.4
Los Angeles-Long Beach ²	3,500.0	3,579.0	3,595.0	198.0	200.0	197.0	5.7	5.6	5.5
Modesto	125.5	127.9	128.4	18.6	19.5	17.3	14.8	15.2	13.5
Oxnard-Simi Valley-Ventura	218.0	224.8	226.5	16.5	16.6	17.9	7.5	7.4	7.9
Riverside-San Bernardino-Ontario	562.1	579.8	587.5	34.8	39.6	38.5	6.2	6.8	6.6
Sacramento	458.7	461.2	467.5	37.2	35.4	35.9	8.1	7.7	7.7
Salinas-Seaside-Monterey	123.7	123.5	125.9	12.8	16.0	13.2	10.3	13.0	10.5
San Diego	716.4	734.4	741.2	45.7	46.7	46.8	6.4	6.4	6.3
San Francisco-Oakland	1,569.3	1,578.9	1,584.6	87.1	85.4	76.9	5.5	5.4	4.9
San Jose	682.8	718.0	720.3	36.9	39.7	33.9	5.4	5.5	4.7
Santa Barbara-Santa Maria-Lompoc	142.9	144.3	146.2	8.7	9.4	8.0	6.1	6.5	5.5
Santa Rosa	123.4	128.2	128.4	9.5	10.0	9.1	7.7	7.8	7.1
Stockton	154.5	153.9	154.5	20.3	20.6	18.8	13.2	13.4	12.1
Vallejo-Fairfield-Napa	118.2	123.2	123.5	7.9	9.4	8.7	6.7	7.6	7.1
COLORADO	1,346.5	1,408.1	1,420.1	66.8	62.0	64.1	5.0	4.4	4.5
Denver-Boulder	801.6	842.7	846.8	35.4	33.5	34.4	4.4	4.0	4.1
CONNECTICUT	1,555.3	1,573.2	1,582.6	86.1	85.9	81.4	5.5	5.5	5.1
Bridgeport	190.0	190.2	192.2	11.3	10.4	10.0	5.9	5.5	5.2
Hartford	374.9	379.9	384.8	19.4	18.0	17.4	5.2	4.8	4.5
New Britain	70.8	73.8	74.2	4.1	4.1	3.8	5.8	5.5	5.2
New Haven-West Haven	203.6	202.1	205.1	10.8	12.6	11.6	5.3	6.2	5.7
Stamford	117.3	120.2	121.1	4.6	5.0	4.2	3.9	4.2	3.5
Waterbury	107.8	107.7	108.2	7.1	7.0	6.5	6.6	6.5	6.1
DELAWARE	269.8	280.6	280.3	23.4	22.8	20.2	8.7	8.1	7.2
Wilmington ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
DISTRICT OF COLUMBIA	315.1	312.3	314.5	24.3	20.4	20.6	7.7	6.5	6.6
Washington SMSA ¹	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
FLORIDA ²	3,874.0	3,824.6	3,880.8	224.5	194.1	188.7	5.8	5.1	4.9
Fort Lauderdale-Hollywood	415.7	405.0	412.6	22.6	18.3	17.5	5.4	4.5	4.2
Jacksonville	297.8	290.9	295.0	17.0	14.7	14.7	5.7	5.1	5.0
Miami	708.9	711.0	721.5	41.7	35.5	34.8	5.9	5.0	4.8
Orlando	305.9	308.3	314.0	16.8	14.5	14.4	5.5	4.7	4.6
Pensacola	107.5	105.6	107.3	6.4	5.3	5.4	6.0	5.0	5.0
Tampa-St. Petersburg	591.9	585.0	592.9	32.8	28.6	27.7	5.5	4.9	4.7
West Palm Beach-Boca Raton	227.7	227.7	230.5	12.6	10.5	10.1	5.5	4.6	4.4
GEORGIA	2,314.7	2,345.0	2,370.9	116.4	124.3	131.0	5.0	5.3	5.5
Albany	47.8	50.0	50.3	2.5	3.1	3.2	5.2	6.1	6.3
Atlanta	932.3	944.9	949.0	42.4	45.0	46.4	4.5	4.8	4.9
Augusta	120.1	120.4	120.0	6.4	7.0	6.9	5.4	5.8	5.8
Columbus ¹	84.9	N.A.	N.A.	6.0	N.A.	N.A.	7.0	N.A.	N.A.
Macon	97.1	96.6	97.6	5.9	5.2	5.2	6.0	5.4	5.4
Savannah	87.2	85.6	85.9	4.9	4.8	5.0	5.6	5.6	5.8

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
HAWAII									
Honolulu	396.6	406.9	406.7	23.8	18.6	18.5	6.0	4.6	4.5
	312.8	320.1	319.8	18.4	13.9	14.0	5.9	4.4	4.4
IDAHO									
Boise City	409.0	415.0	419.8	28.7	31.3	31.7	7.0	7.5	7.6
	88.2	89.6	89.5	4.0	5.2	5.1	4.5	5.8	5.7
ILLINOIS²									
Bloomington—Normal	5,237.0	5,400.2	5,377.3	314.5	407.0	391.0	6.0	7.5	7.3
Champaign—Urbana—Rantoul	57.3	N.A.	N.A.	2.9	N.A.	N.A.	5.1	N.A.	N.A.
Chicago	78.1	N.A.	N.A.	3.8	N.A.	N.A.	4.9	N.A.	N.A.
Chicago	3,272.6	N.A.	N.A.	182.6	N.A.	N.A.	5.6	N.A.	N.A.
Deavenport—Rock Island—Moline ¹	177.5	N.A.	N.A.	8.6	N.A.	N.A.	4.8	N.A.	N.A.
Decatur	57.0	N.A.	N.A.	4.3	N.A.	N.A.	7.6	N.A.	N.A.
Peoria	169.5	N.A.	N.A.	9.8	N.A.	N.A.	5.8	N.A.	N.A.
Rockford	131.5	N.A.	N.A.	7.5	N.A.	N.A.	5.7	N.A.	N.A.
Springfield	92.6	N.A.	N.A.	6.2	N.A.	N.A.	6.7	N.A.	N.A.
INDIANA³									
Anderson	2,572.6	2,605.8	2,625.9	156.9	244.8	241.4	6.1	9.4	9.2
Anderson	59.9	61.1	60.7	4.1	10.7	10.1	6.9	17.6	16.6
Evansville ¹	141.8	N.A.	N.A.	7.1	N.A.	N.A.	5.0	N.A.	N.A.
Fort Wayne	192.2	194.5	196.5	9.1	18.1	18.5	4.7	9.3	9.4
Gary—Hammond—East Chicago	290.8	301.1	300.9	16.4	29.2	27.5	5.6	9.7	9.2
Indianapolis	579.6	593.9	600.6	29.8	41.1	42.7	5.1	6.9	7.1
Lafayette—West Lafayette	62.0	62.8	62.3	3.0	4.1	4.2	4.9	6.6	6.7
Muncie	55.8	57.5	56.6	4.0	6.3	5.9	7.2	11.0	10.4
South Bend	141.9	144.0	144.2	8.4	13.0	12.7	5.9	9.1	8.8
Terra Haute	82.1	83.5	83.3	5.6	7.5	7.3	6.8	9.0	8.7
IOWA³									
Cedar Rapids	1,400.7	1,423.9	1,442.0	69.3	89.3	82.0	5.0	6.3	5.7
Cedar Rapids	87.2	90.8	90.8	3.8	5.2	4.9	4.4	5.7	5.4
Des Moines	183.9	186.8	186.7	8.3	10.4	9.1	4.5	5.5	4.9
Dubuque	45.5	46.8	47.0	3.0	3.6	3.5	6.6	7.7	7.4
Sioux City ¹	55.5	54.7	54.6	4.5	3.9	3.6	8.1	7.2	6.5
Waterloo—Cedar Falls	68.6	72.3	72.5	3.9	4.1	3.9	5.7	5.7	5.4
KANSAS									
Topeka	1,176.6	1,191.2	1,205.0	37.7	45.0	44.7	3.2	3.8	3.7
Topeka	97.4	96.6	97.7	4.0	4.8	4.7	4.1	4.9	4.8
Wichita	224.4	229.6	232.9	7.2	7.0	8.1	3.2	3.1	3.5
KENTUCKY³									
Lexington—Fayette	1,528.3	1,588.8	1,591.4	90.0	123.5	108.7	5.9	7.8	6.8
Lexington—Fayette	161.1	170.9	170.3	5.1	7.8	6.5	3.2	4.6	3.8
Louisville ¹	405.4	421.4	423.2	21.6	32.0	24.9	5.3	7.6	5.9
Owensboro	37.3	39.7	39.6	2.0	2.9	2.6	5.4	7.3	6.7
LOUISIANA									
Alexandria	1,658.5	1,722.4	1,721.6	109.8	140.5	124.4	6.6	8.2	7.2
Alexandria	67.3	68.8	68.4	5.7	7.9	6.9	8.5	11.5	10.0
Baton Rouge	205.9	208.9	208.1	12.9	15.4	13.8	6.3	7.4	6.6
Lafayette	70.6	70.1	77.4	3.0	3.4	3.6	4.3	4.5	4.7
Lake Charles	69.1	72.5	72.0	4.5	6.0	5.4	6.5	8.3	7.5
Monroe	53.5	54.0	53.8	4.2	5.4	4.6	7.8	10.0	8.6
New Orleans	472.0	484.4	484.5	26.5	32.0	29.4	5.6	6.6	6.1
Shreveport	150.8	156.0	156.1	9.4	12.3	10.5	6.3	7.9	6.8
MAINE									
Lawiston—Auburn	469.7	482.7	487.2	37.2	38.5	39.0	7.9	8.0	8.0
Lawiston—Auburn	37.5	38.7	38.9	2.6	2.5	2.9	7.0	6.4	7.5
Portland	85.2	90.1	90.8	4.9	4.9	5.0	5.7	5.4	5.5
MARYLAND									
Baltimore	2,055.5	N.A.	N.A.	120.0	N.A.	N.A.	5.8	N.A.	N.A.
Baltimore	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
MASSACHUSETTS²									
Boston	2,910.7	2,825.4	2,840.1	193.9	161.0	149.9	6.7	5.7	5.3
Boston	1,422.4	1,388.1	1,392.4	87.8	69.1	64.4	6.2	5.0	4.6
Brockton	81.2	79.3	78.7	5.7	5.4	5.1	7.1	6.8	6.4
Fall River ¹	77.6	75.2	76.2	6.6	6.4	5.4	8.5	8.5	7.1
Lawrence—Haverhill ¹	140.3	135.4	N.A.	10.8	8.2	N.A.	7.7	6.0	N.A.
Lowell	117.9	116.2	117.2	7.4	6.4	6.0	6.3	5.5	5.1
New Bedford	82.3	77.2	77.4	7.8	7.0	6.7	9.4	9.0	8.6
Springfield—Chicopee—Holyoke	279.1	266.1	268.5	17.1	13.2	13.0	6.1	5.0	4.8
Worcester	199.5	193.6	195.1	10.6	9.9	9.3	5.3	5.1	4.8
MICHIGAN²									
Ann Arbor	4,281.3	4,287.0	4,238.6	340.5	480.7	465.8	8.0	11.2	11.0
Ann Arbor	143.1	143.3	141.6	7.9	10.9	9.9	5.6	7.6	7.0

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
MICHIGAN—Continued									
Battle Creek	80.1	79.3	78.5	5.7	8.1	7.6	7.1	10.2	9.7
Bay City	50.6	51.9	51.4	4.1	6.8	6.7	8.1	13.2	13.0
Detroit	2,043.2	2,040.2	2,018.1	157.4	246.2	237.1	7.7	12.1	11.7
Flint	220.2	224.3	221.0	17.2	29.8	32.3	7.8	13.3	14.6
Grand Rapids	305.2	305.6	304.4	16.6	20.5	21.1	5.4	6.7	6.9
Jackson	67.5	66.6	65.1	4.9	6.2	5.7	7.2	9.4	8.8
Kalamazoo—Portage	132.1	134.6	133.5	8.2	9.5	9.3	6.2	7.0	6.9
Lansing—East Lansing	231.4	237.4	233.7	14.4	21.0	18.8	6.2	8.8	8.0
Muskegon—Norton Shores—Muskegon Heights	75.4	75.8	75.1	7.3	8.3	8.2	9.7	10.9	10.9
Saginaw	103.0	103.2	101.2	7.2	12.6	11.9	7.0	12.2	11.8
MINNESOTA									
Duluth—Superior ¹	1,991.3	2,077.6	2,104.6	95.0	126.2	126.8	4.8	6.1	6.0
Minneapolis—St. Paul	112.4	118.8	118.4	7.6	9.7	9.7	6.7	8.1	8.2
	1,075.8	1,118.2	1,129.6	36.2	46.5	46.6	3.4	4.2	4.1
MISSISSIPPI									
Jackson	973.2	988.4	1,005.1	58.3	69.0	64.6	6.0	7.0	6.4
	141.9	147.8	149.3	5.3	6.2	5.8	3.7	4.2	3.9
MISSOURI									
Kansas City ¹	2,257.3	2,245.8	2,286.6	104.2	153.5	145.8	4.6	6.8	6.4
St. Joseph	687.6	676.8	682.4	26.8	36.3	34.2	3.9	5.4	5.0
St. Louis ¹	44.5	43.8	44.1	2.2	3.2	3.0	5.0	7.4	6.8
Springfield	1,083.5	N.A.	N.K.	56.1	N.A.	N.A.	5.2	N.A.	N.A.
	103.0	101.3	102.8	3.8	5.5	4.9	3.7	5.5	4.8
MONTANA									
Billings	353.2	353.6	363.7	22.5	24.9	23.7	6.4	7.0	6.5
Great Falls	53.1	55.6	56.5	2.4	3.1	3.0	4.5	5.6	5.3
	33.5	32.0	33.0	2.4	2.4	2.2	7.3	7.5	6.7
NEBRASKA									
Lincoln	754.1	752.9	772.9	24.6	29.7	26.7	3.3	3.9	3.5
Omaha ¹	110.0	111.5	113.7	2.7	3.7	3.4	2.5	3.3	3.0
	276.0	277.1	281.4	11.9	14.4	13.5	4.3	5.2	4.8
NEVADA									
Las Vegas	349.9	366.3	369.6	17.0	20.8	18.9	4.9	5.7	5.1
Reno	192.9	202.4	204.0	10.0	11.9	11.3	5.2	5.9	5.5
	102.1	107.1	107.8	3.6	5.3	4.4	3.5	5.0	4.1
NEW HAMPSHIRE									
Manchester	431.1	443.0	N.A.	13.2	14.9	N.A.	3.1	3.4	N.A.
Nashua	77.2	78.8	N.A.	2.6	2.9	N.A.	3.4	3.7	N.A.
	68.5	72.4	N.A.	1.8	2.3	N.A.	2.7	3.2	N.A.
NEW JERSEY									
Atlantic City	3,494.4	3,543.7	3,533.2	250.4	221.2	246.8	7.2	6.2	7.0
Jersey City	85.3	N.A.	N.A.	9.8	N.A.	N.A.	11.5	N.A.	N.A.
Long Branch—Asbury Park	249.7	N.A.	N.A.	25.7	N.A.	N.A.	10.3	N.A.	N.A.
Newark	219.9	N.A.	N.A.	16.9	N.A.	N.A.	7.7	N.A.	N.A.
New Brunswick—Perth Amboy—Sayreville	955.3	N.A.	N.A.	63.0	N.A.	N.A.	6.6	N.A.	N.A.
Peterson—Clifton—Passaic	321.0	N.A.	N.A.	18.3	N.A.	N.A.	5.7	N.A.	N.A.
Trenton	219.0	N.A.	N.A.	20.5	N.A.	N.A.	9.4	N.A.	N.A.
Vineland—Millville—Bridgeton	160.2	N.A.	N.A.	8.7	N.A.	N.A.	5.5	N.A.	N.A.
	59.4	N.A.	N.A.	5.3	N.A.	N.A.	8.9	N.A.	N.A.
NEW MEXICO									
Albuquerque	523.2	540.8	543.4	33.8	40.9	38.5	6.5	7.6	7.1
	198.0	205.3	207.2	11.9	14.5	14.4	6.0	7.1	7.0
NEW YORK²									
Albany—Schenectady—Troy	8,002.3	8,120.1	7,931.1	617.2	658.2	577.3	7.7	8.1	7.3
Binghamton ¹	379.4	385.5	377.4	23.1	24.1	20.4	6.1	6.3	5.4
Buffalo	140.2	141.5	139.0	8.7	8.8	8.1	6.2	6.2	5.8
Elmira	576.6	596.6	580.9	44.4	58.0	50.1	7.7	9.7	8.6
Nassau—Suffolk	40.3	41.0	39.9	2.7	3.6	3.0	6.7	8.8	7.5
New York	1,289.9	1,304.0	1,309.4	85.4	84.7	70.5	6.6	6.5	5.4
New York City ³	3,673.1	3,691.4	3,584.7	312.6	323.7	289.1	8.5	8.8	8.1
Poughkeepsie	3,070.0	3,068.0	2,976.0	281.0	292.0	263.0	9.1	9.5	8.8
Rochester	105.9	110.7	108.3	5.3	5.9	5.3	5.0	5.4	4.9
Syracuse	465.4	479.0	466.1	26.2	31.1	27.2	5.6	6.5	5.8
Utica—Rome	304.6	312.7	303.5	19.9	23.6	21.3	6.5	7.5	7.0
	137.0	140.2	136.8	10.0	10.8	9.3	7.3	7.7	6.8
NORTH CAROLINA									
Asheville	2,632.4	2,683.0	2,717.6	118.6	148.0	151.9	4.5	5.5	5.6
Charlotte—Gastonia	81.0	81.8	82.2	3.4	4.2	4.0	4.2	5.1	4.9
	337.3	338.9	341.0	12.0	13.2	13.1	3.6	3.9	3.8

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
NORTH CAROLINA—Continued									
Greensboro—Winston-Salem—High Point	415.5	419.1	421.7	15.7	18.3	18.4	3.8	4.4	4.4
Raleigh—Durham	280.1	293.3	295.7	8.6	11.3	11.6	3.1	3.9	3.9
NORTH DAKOTA	287.8	289.3	303.3	13.8	14.0	14.3	4.8	4.8	4.7
Fargo—Moorehead ¹	68.6	70.9	71.9	3.0	3.6	3.9	4.4	5.0	5.4
OHIO ²	4,988.8	4,962.8	4,926.0	300.6	349.6	324.1	6.0	7.0	6.6
Akron	302.7	N.A.	N.A.	19.7	N.A.	N.A.	6.5	N.A.	N.A.
Canton	181.9	N.A.	N.A.	11.2	N.A.	N.A.	6.1	N.A.	N.A.
Cincinnati ¹	647.4	N.A.	N.A.	34.7	N.A.	N.A.	5.4	N.A.	N.A.
Cleveland	922.5	N.A.	N.A.	46.9	N.A.	N.A.	5.1	N.A.	N.A.
Columbus	534.6	N.A.	N.A.	28.5	N.A.	N.A.	5.3	N.A.	N.A.
Dayton	389.1	N.A.	N.A.	21.3	N.A.	N.A.	5.5	N.A.	N.A.
Toledo ¹	365.8	N.A.	N.A.	27.1	N.A.	N.A.	7.4	N.A.	N.A.
Youngstown—Warren	233.4	N.A.	N.A.	16.1	N.A.	N.A.	6.9	N.A.	N.A.
OKLAHOMA	1,251.1	1,298.5	1,311.4	42.3	45.0	42.4	3.4	3.5	3.2
Oklahoma City	376.7	402.6	408.0	11.3	12.1	12.0	3.0	3.0	2.9
Tulsa	301.6	309.9	311.8	9.6	10.4	9.9	3.2	3.3	3.2
OREGON	1,195.9	1,219.2	1,235.5	88.7	89.5	91.7	7.4	7.3	7.4
Eugene—Springfield	125.4	126.4	128.1	10.9	11.0	11.5	8.7	8.7	9.0
Portland ¹	579.4	609.3	615.6	31.9	32.5	32.4	5.5	5.3	5.3
Salem	110.5	115.7	117.8	7.7	8.3	8.6	7.0	7.1	7.3
PENNSYLVANIA ²	5,271.2	5,362.9	5,356.9	411.2	418.9	415.5	7.8	7.8	7.8
Allentown—Bethlehem—Easton ¹	297.2	N.A.	N.A.	21.3	N.A.	N.A.	7.2	N.A.	N.A.
Altoona	57.2	60.4	60.4	6.0	6.1	6.0	10.5	10.1	10.0
Erie	124.9	127.3	127.2	10.5	11.5	11.3	8.4	9.0	8.9
Harrisburg	215.7	217.7	218.2	12.2	12.9	12.4	5.7	5.9	5.7
Johnstown	108.6	111.9	111.7	11.0	12.5	13.5	10.1	11.2	12.1
Lancaster	174.0	178.2	177.0	8.7	9.7	8.8	5.0	5.4	5.0
Northeast Pennsylvania	283.1	288.6	288.3	27.4	29.3	28.5	9.7	10.2	9.9
Philadelphia ¹	2,111.0	N.A.	N.A.	162.9	N.A.	N.A.	7.7	N.A.	N.A.
Pittsburgh	1,002.7	1,016.7	1,011.7	66.4	72.5	70.4	6.6	7.1	7.0
Reading	149.0	156.5	155.3	8.9	12.0	12.5	6.0	7.7	8.0
Williamsport	53.0	53.3	53.7	5.7	6.5	6.8	10.8	12.2	12.6
York	170.4	174.3	174.2	9.0	12.0	11.2	5.3	6.9	6.4
RHODE ISLAND	445.1	462.2	462.6	30.3	37.5	35.0	6.8	8.1	7.6
Providence—Warwick—Pawtucket ¹	449.3	459.4	N.A.	30.5	37.1	N.A.	6.8	8.1	N.A.
SOUTH CAROLINA	1,282.4	1,280.2	1,269.9	64.3	82.8	79.5	5.0	6.5	6.3
Charleston—North Charleston	150.2	152.3	151.1	7.9	9.4	9.4	5.3	6.2	6.2
Columbia	171.7	172.2	170.3	6.3	7.6	7.3	3.7	4.4	4.3
Greenville—Spartanburg	256.0	255.4	253.1	10.2	12.9	12.8	4.0	5.0	5.1
SOUTH DAKOTA	325.4	322.3	329.3	13.6	13.4	13.2	4.2	4.2	4.0
Sioux Falls	62.1	61.1	61.3	2.4	2.3	2.4	3.8	3.8	3.9
TENNESSEE	1,938.7	1,964.5	1,973.9	112.5	137.8	128.1	5.8	7.0	6.5
Chattanooga ¹	190.7	193.6	194.5	10.3	13.5	13.2	5.4	7.0	6.8
Knoxville	203.1	201.8	203.4	9.2	10.8	10.3	4.5	5.3	5.1
Memphis ¹	376.1	381.0	381.3	18.9	22.6	20.7	5.0	5.9	5.4
Nashville—Davidson	400.6	406.2	411.4	15.6	19.4	19.9	3.9	4.8	4.8
TEXAS ²	6,155.7	6,319.8	6,310.4	231.9	325.5	350.5	3.8	5.2	5.6
Amarillo	87.3	89.2	87.8	2.5	3.9	3.8	2.9	4.4	4.3
Austin	246.0	252.5	250.3	6.0	8.4	8.8	2.4	3.3	3.5
Beaumont—Port Arthur—Orange	163.5	163.2	161.8	9.5	12.4	13.2	5.8	7.6	8.2
Corpus Christi	139.6	142.4	143.0	5.6	8.3	9.0	4.0	5.8	6.3
Dallas—Fort Worth	1,438.5	1,504.0	1,503.0	42.9	63.8	66.4	3.0	4.2	4.4
El Paso	167.4	171.1	172.1	12.4	15.9	17.3	7.4	9.3	10.0
Galveston—Texas City	79.6	81.9	82.4	3.9	5.4	5.8	4.9	6.6	7.1
Houston	1,405.3	1,450.4	1,444.4	40.5	57.2	64.7	2.9	3.9	4.5
Lubbock	100.4	100.9	100.3	3.1	4.0	4.0	3.1	4.0	4.0
San Antonio	404.6	415.9	414.8	20.3	26.5	29.4	5.0	6.4	7.1
Waco	77.3	79.3	80.1	2.6	4.0	4.6	3.3	5.0	5.7
Wichita Falls	59.0	60.0	59.6	1.7	2.2	2.5	2.9	3.6	4.2

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		
	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P	MAR. 1979	FEB. 1980	MAR. 1980P
UTAH	565.1	593.6	598.9	26.0	34.9	31.8	4.6	5.9	5.3
Salt Lake City—Ogden	374.7	394.1	397.2	16.4	20.8	19.6	4.4	5.3	4.9
VERMONT	237.4	240.6	239.1	13.1	15.5	13.6	5.5	6.4	5.7
VIRGINIA	2,433.3	2,459.8	2,484.4	113.8	113.8	110.5	4.7	4.6	4.4
Lynchburg	N.A.	75.9	76.6	N.A.	3.0	3.1	N.A.	4.0	4.1
Newport News—Hampton	N.A.	159.5	161.8	N.A.	7.9	7.6	N.A.	5.0	4.7
Norfolk—Virginia Beach—Portsmouth ¹	N.A.	321.3	324.1	N.A.	16.7	16.2	N.A.	5.2	5.0
Petersburg—Colonial Heights—Hopewell	N.A.	58.2	58.9	N.A.	2.9	2.8	N.A.	5.0	4.8
Richmond	N.A.	326.1	328.3	N.A.	9.9	10.1	N.A.	3.0	3.1
Roanoke	N.A.	109.2	110.6	N.A.	4.6	4.4	N.A.	4.2	3.9
WASHINGTON	1,840.3	1,893.3	1,909.7	125.1	149.9	146.2	6.8	7.9	7.7
Seattle—Everett	804.1	833.4	837.6	41.3	48.0	47.4	5.1	5.8	5.7
Spokane	148.5	148.4	148.8	10.2	12.4	11.6	6.9	8.4	7.8
Tacoma	171.8	172.7	173.0	12.4	14.0	13.7	7.2	8.1	7.9
WEST VIRGINIA	733.3	N.A.	N.A.	51.6	N.A.	N.A.	7.0	N.A.	N.A.
Charleston	123.0	N.A.	N.A.	5.1	N.A.	N.A.	4.1	N.A.	N.A.
Huntington—Ashland ¹	123.1	N.A.	N.A.	6.9	N.A.	N.A.	5.6	N.A.	N.A.
Perkasie—Marietta ¹	69.3	N.A.	N.A.	4.0	N.A.	N.A.	5.8	N.A.	N.A.
Wheeling ¹	80.4	N.A.	N.A.	4.9	N.A.	N.A.	6.1	N.A.	N.A.
WISCONSIN	2,316.6	2,398.5	2,411.2	116.9	141.7	150.4	5.0	5.9	6.2
Appleton—Oshkosh	142.3	153.4	153.7	6.9	8.4	8.9	4.9	5.5	5.8
Eau Claire	56.9	58.8	60.7	3.8	4.1	5.8	6.7	6.9	9.6
Green Bay	86.1	88.8	89.8	4.9	5.6	5.9	5.6	6.3	6.6
Kenosha	60.2	64.2	62.9	3.5	3.2	3.4	5.9	5.0	5.4
La Crosse	45.6	46.6	46.6	2.9	2.5	2.6	6.4	5.4	5.6
Madison	175.0	184.1	185.6	6.8	7.8	8.1	3.9	4.2	4.4
Milwaukee	711.7	736.0	738.4	26.6	33.3	35.3	3.7	4.5	4.8
Racine	87.2	88.4	88.8	4.2	4.4	4.8	4.8	5.0	5.4
WYOMING	208.4	222.1	226.0	6.0	9.0	8.7	2.9	4.1	3.9

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.)

³ 1979 estimates for this State may be subject to further revisions as the benchmarking process is completed. Final estimates will be published in the reports listed in the box note below, as they become 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-

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

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

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the National Technical Information Service. When ordering, please specify "CETA Area Employment and Unemployment," "State, County, and Selected City Employment and Unemployment," and "Unemployment Rates for State and Local Governments." A complete set of price schedules and publications is available from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield Virginia, 22181.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas by industry division

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
1 ALABAMA	1,269.2	1,336.5	1,362.8	13.9	14.1	16.7	75.9	78.8	75.4	354.3	368.9	374.6
2 Birmingham	334.2	348.7	358.1	8.4	7.8	9.9	22.5	23.8	21.9	66.8	68.6	70.3
3 Huntsville	110.7	117.5	120.3	(1)	(1)	(1)	4.2	4.6	4.7	31.7	35.3	36.5
4 Mobile	139.7	147.4	147.7	(1)	(1)	(1)	11.2	11.5	10.7	29.4	30.9	29.8
5 Montgomery	94.9	102.9	108.0	(1)	(1)	(1)	6.1	6.7	8.7	14.7	15.8	16.2
6 Tuscaloosa	48.8	49.0	50.1	.8	1.1	1.3	3.2	2.9	2.8	10.1	9.1	9.2
7 ALASKA	(*)	(*)	168.3	(*)	(*)	5.7	(*)	(*)	10.1	(*)	(*)	12.6
8 ARIZONA	809.3	895.4	970.9	21.5	19.4	21.6	52.2	71.0	82.7	113.9	126.9	142.4
9 Phoenix	490.3	555.6	608.4	.4	.2	.2	31.4	45.2	54.1	83.9	94.1	105.5
10 Tucson	152.2	161.7	174.6	6.9	5.8	6.7	10.1	12.7	15.1	13.3	14.8	17.9
11 ARKANSAS	695.6	732.7	749.9	4.8	4.6	4.8	37.2	39.9	40.7	209.3	217.5	216.9
12 Fayetteville—Springdale	57.2	61.7	64.3	(1)	(1)	(1)	3.0	3.2	3.2	17.9	18.7	19.5
13 Fort Smith	63.7	68.2	67.7	.7	.7	.8	2.9	3.2	3.1	23.3	25.2	23.9
14 Little Rock—North Little Rock	166.4	175.6	181.0	(1)	(1)	(1)	9.5	9.9	9.5	30.6	32.0	31.9
15 Pine Bluff	28.9	31.6	32.3	(1)	(1)	(1)	1.3	2.2	2.7	6.2	6.4	6.2
16 CALIFORNIA	8,598.0	9,197.1	9,637.8	35.6	37.1	39.3	366.1	417.5	460.6	1,728.3	1,875.2	2,000.6
17 Anaheim—Santa Ana—Garden Grove	674.0	747.7	805.1	2.0	2.2	2.3	40.6	46.6	50.3	175.0	198.0	216.2
18 Bakersfield	113.4	120.6	125.4	9.3	10.1	10.6	5.3	6.6	6.8	8.6	9.1	9.3
19 Fresno	163.5	172.9	180.5	.7	.8	.9	9.0	11.1	12.7	21.9	22.8	23.6
20 Los Angeles—Long Beach	3,232.4	3,430.6	3,595.7	11.2	11.4	11.9	99.5	108.6	119.0	818.1	877.9	930.6
21 Modesto	78.6	83.2	87.7	.1	.1	.1	5.2	5.8	6.6	18.4	18.9	20.2
22 Oxnard—Simi Valley—Ventura	128.3	138.7	145.3	2.2	2.4	2.4	6.0	7.3	8.4	19.6	21.4	23.4
23 Riverside—San Bernardino—Ontario	374.4	408.2	429.8	2.4	2.5	2.6	20.4	26.0	29.3	58.5	64.1	67.4
24 Sacramento	351.8	374.3	391.1	.4	.4	.4	17.9	21.1	23.8	24.6	26.4	27.3
25 Salinas—Seaside—Monterey	80.4	84.4	87.1	.7	.6	.6	3.3	3.6	3.7	9.2	9.6	9.7
26 San Diego	544.8	599.3	633.9	.8	.7	.7	32.9	37.8	40.7	78.9	90.9	101.4
27 San Francisco—Oakland	1,406.7	1,474.1	1,518.0	1.9	2.0	2.3	61.1	68.1	73.5	190.7	195.2	204.8
28 San Jose	536.5	585.8	634.0	.1	.1	.2	21.9	22.9	25.7	174.0	197.4	223.9
29 Santa Barbara—Santa Maria—Lompoc	106.1	113.9	119.1	1.0	1.1	1.2	4.2	4.9	5.2	13.7	14.9	16.4
30 Santa Rosa	75.7	83.0	88.7	.3	.4	.4	4.3	5.1	6.2	10.8	12.6	14.2
31 Stockton	107.0	113.2	117.7	.1	.1	.1	4.7	5.7	6.3	19.6	20.1	21.5
32 Vallejo—Fairfield—Napa	89.6	93.7	96.8	.2	.3	.3	3.9	4.6	5.0	9.2	9.9	10.5
33 COLORADO	1,058.1	1,150.0	1,217.3	24.0	27.3	30.2	61.8	72.6	80.3	152.8	168.2	180.2
34 Denver—Boulder	670.2	733.9	777.2	12.1	14.8	16.0	37.9	44.7	48.4	104.9	116.6	123.8
35 CONNECTICUT	1,282.3	1,346.1	1,400.9	(2)	(2)	(2)	43.7	47.9	51.3	406.7	415.6	435.1
36 Bridgeport	153.7	158.6	165.1	(2)	(2)	(2)	4.3	4.9	5.7	60.8	62.6	65.1
37 Hartford	349.3	369.2	387.9	(2)	(2)	(2)	10.4	12.1	12.7	83.3	88.4	95.9
38 New Britain	56.2	60.0	60.9	(2)	(2)	(2)	1.8	2.1	2.2	27.2	28.4	28.7
39 New Haven—West Haven	177.8	187.8	188.9	(2)	(2)	(2)	5.9	6.3	7.1	44.1	45.5	46.0
40 Stamford	97.5	101.7	106.2	(2)	(2)	(2)	4.2	4.6	4.8	29.4	30.0	31.1
41 Waterbury	84.1	85.4	89.2	(2)	(2)	(2)	2.7	3.1	3.3	33.5	32.6	34.1
42 DELAWARE	238.8	247.8	256.3	(1)	(1)	(1)	14.3	15.0	15.4	67.6	69.0	70.0
43 Wilmington	208.8	218.5	225.1	(1)	(1)	(1)	13.1	15.1	15.3	63.3	63.9	63.9
44 DISTRICT OF COLUMBIA	577.7	600.1	617.6	(1)	(1)	(1)	14.4	14.5	14.5	14.8	15.0	15.4
45 Washington SMSA	1,400.2	1,463.2	1,504.2	(1)	(1)	(1)	73.5	80.2	79.4	49.9	51.3	53.9
46 FLORIDA	2,933.2	3,180.6	3,379.7	9.1	9.5	10.0	178.9	209.5	244.8	380.9	415.5	437.7
47 Bradenton	(*)	39.0	41.7	(*)	-	-	(*)	3.0	3.5	(*)	6.4	6.8
48 Daytona Beach	63.9	69.8	74.0	(1)	(1)	(1)	3.4	4.0	4.6	6.5	7.1	8.0
49 Fort Lauderdale—Hollywood	266.8	299.9	323.9	(1)	(1)	(1)	19.2	23.5	27.3	30.9	36.1	39.7
50 Fort Myers—Cape Coral	(*)	57.3	60.9	(*)	(1)	(1)	(*)	7.1	7.9	(*)	3.6	3.8
51 Gainesville	56.6	60.3	62.9	(1)	(1)	(1)	2.8	3.2	3.4	4.2	3.9	3.8
52 Jacksonville	266.7	279.6	285.1	(1)	(1)	(1)	15.1	15.7	15.8	31.4	33.0	34.3
53 Lakeland—Winter Haven	(*)	106.7	111.3	(*)	5.5	5.6	(*)	7.6	8.3	(*)	19.6	20.5
54 Melbourne—Titusville—Cocoa	(*)	89.0	97.1	(*)	(1)	(1)	(*)	5.4	6.4	(*)	16.9	19.9
55 Miami	616.9	654.4	699.3	(1)	(1)	(1)	25.9	30.2	37.4	90.5	96.4	100.5
56 Orlando	225.9	250.2	271.3	(1)	(1)	(1)	12.8	15.1	18.8	27.4	31.7	35.2
57 Panama City	(*)	32.1	32.5	(*)	(1)	(1)	(*)	2.1	2.2	(*)	3.6	3.2
58 Pensacola	90.6	93.2	95.0	(1)	(1)	(1)	6.2	6.1	6.6	13.6	13.2	13.2
59 Sarasota	55.5	63.7	67.9	(1)	(1)	(1)	5.1	6.7	7.3	4.4	5.7	6.2
60 Tallahassee	64.0	67.2	70.3	(1)	(1)	(1)	2.9	3.2	3.4	2.5	2.5	2.5
61 Tampa—St. Petersburg	446.5	486.0	516.7	(1)	(1)	(1)	27.3	32.4	35.9	61.7	67.5	72.5
62 West Palm Beach—Boca Raton	156.2	173.9	193.7	(1)	(1)	(1)	11.7	15.1	18.3	26.9	22.8	26.1

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

I. 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			
1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	
65.0	69.8	71.9	259.1	269.7	275.8	55.4	57.5	58.2	179.3	191.8	198.2	266.3	285.9	292.0	1
25.0	27.2	28.6	80.7	83.4	86.0	21.9	22.4	22.7	58.6	62.2	64.2	50.3	53.3	54.5	2
2.5	2.6	2.7	20.8	21.6	22.2	3.1	3.5	3.4	16.2	16.8	17.0	32.2	33.1	33.8	3
10.3	10.7	11.1	34.1	36.1	36.5	6.4	6.9	7.0	25.9	26.9	27.6	22.4	24.4	25.0	4
4.4	4.7	4.7	22.5	24.1	24.1	5.5	5.9	6.1	17.1	18.3	19.3	24.6	27.4	28.5	5
1.8	1.8	1.9	9.5	9.7	9.8	1.6	1.6	1.7	5.5	5.9	6.1	16.3	16.9	17.3	6
(*)	(*)	16.8	(*)	(*)	29.7	(*)	(*)	8.6	(*)	(*)	30.0	(*)	(*)	54.8	7
41.5	44.6	48.4	196.5	215.4	234.3	45.6	50.2	54.5	156.2	175.1	189.5	181.9	194.8	197.5	8
25.0	26.2	28.7	128.7	143.0	156.0	35.0	38.6	41.8	96.1	110.0	121.9	89.8	97.9	100.2	9
7.8	8.1	8.8	34.4	36.8	39.4	6.5	7.1	8.0	30.6	33.9	35.9	42.6	42.5	42.8	10
38.5	41.3	44.1	150.1	158.7	162.9	29.3	30.4	31.0	97.8	104.4	110.3	128.6	135.9	139.2	11
3.0	3.3	3.6	13.5	14.8	15.8	2.0	2.1	2.2	7.2	7.9	8.4	10.6	11.7	11.6	12
3.1	3.5	3.7	13.7	14.3	14.6	2.2	2.3	2.4	10.5	11.1	11.1	7.3	7.9	8.1	13
11.3	12.7	14.2	38.9	40.6	41.9	11.8	12.2	12.3	29.9	31.8	33.7	34.4	36.4	37.5	14
3.6	3.8	4.0	6.0	6.4	6.5	1.2	1.3	1.3	4.5	4.7	5.0	6.1	6.8	6.6	15
476.5	506.4	531.6	1,982.4	2,126.0	2,219.9	505.4	553.2	591.5	1,764.7	1,931.3	2,065.5	1,739.0	1,750.4	1,728.8	18
20.6	23.0	25.9	162.9	181.5	194.8	39.7	46.8	52.3	132.2	147.7	162.2	101.2	101.9	101.1	17
6.7	7.1	7.6	29.2	30.9	32.7	4.2	4.4	4.6	18.5	20.8	22.2	31.6	31.6	31.6	18
9.0	9.9	10.5	43.1	45.6	47.4	8.6	9.7	10.6	30.5	33.0	34.9	40.7	40.0	39.5	19
177.4	187.8	199.3	742.8	787.8	817.4	198.0	212.0	223.0	702.9	758.0	807.7	482.6	487.1	486.8	20
3.6	3.7	3.8	18.7	19.9	21.5	2.5	2.9	3.4	14.1	15.1	16.0	16.0	16.8	16.1	21
5.2	5.8	6.0	29.9	33.0	34.4	5.3	6.1	6.8	22.9	26.0	28.4	37.2	36.7	35.5	22
20.1	21.8	23.6	89.1	98.1	103.4	15.1	17.0	18.6	75.1	82.3	87.6	93.7	96.4	97.3	23
18.2	20.0	21.4	78.6	86.5	93.1	16.6	18.7	20.5	59.5	65.3	70.3	136.0	135.9	134.3	24
4.6	4.7	4.7	20.1	21.8	22.6	3.5	4.0	4.3	16.2	17.8	19.1	22.8	22.3	22.4	25
24.1	26.0	27.7	125.1	139.0	145.3	29.8	33.2	36.9	114.5	130.8	142.4	138.7	140.9	138.8	26
120.0	123.9	124.9	321.7	340.1	351.7	122.5	132.4	140.2	294.6	314.9	332.8	294.2	293.5	287.8	27
18.4	19.6	20.9	102.6	112.0	119.7	21.6	23.5	25.7	118.2	129.8	140.0	79.7	80.5	77.9	28
4.0	4.3	4.7	26.4	29.1	30.4	4.6	5.1	5.4	26.4	29.5	31.8	25.8	25.0	24.0	29
3.7	4.0	4.3	18.0	20.2	21.5	4.4	5.0	5.4	14.5	16.1	17.2	19.7	19.6	19.5	30
7.4	7.7	8.5	24.5	26.4	26.8	4.3	4.8	4.9	19.2	21.1	22.9	27.2	27.3	26.7	31
3.9	4.1	4.5	17.3	19.3	20.4	2.9	3.2	3.3	15.7	16.9	18.0	36.4	35.4	34.8	32
62.6	70.8	76.0	265.0	282.3	298.7	61.7	68.4	74.5	209.1	226.4	241.4	221.1	234.0	236.1	33
43.1	49.7	53.9	169.0	178.6	189.6	44.0	49.1	53.4	137.2	149.1	159.5	121.9	131.3	132.6	34
55.4	57.8	61.3	267.3	284.2	297.3	90.7	95.2	99.7	242.9	262.2	274.7	175.6	175.2	181.5	35
5.5	5.9	6.1	31.5	32.8	33.9	6.4	6.7	6.9	28.0	29.6	31.0	17.0	16.1	16.4	36
14.0	14.5	15.3	73.2	77.6	81.0	52.0	54.3	57.0	65.5	70.2	72.0	51.0	52.3	54.1	37
1.4	1.4	1.4	9.4	10.4	10.5	1.5	1.6	1.8	8.5	9.4	9.7	6.5	6.7	6.7	38
14.3	15.3	15.9	37.7	39.5	40.3	9.7	10.0	10.0	42.4	45.2	45.3	23.4	26.1	24.3	39
3.4	3.6	3.7	22.2	23.7	24.1	6.5	7.0	7.4	22.2	24.0	25.6	9.6	8.7	9.4	40
3.0	3.0	3.2	15.1	15.4	15.5	2.9	3.1	3.3	15.8	17.3	18.5	11.1	10.8	11.3	41
12.1	12.7	12.6	53.1	54.7	56.1	10.9	11.2	11.7	39.6	42.6	45.8	41.4	42.8	44.5	42
11.3	12.0	12.1	42.5	44.9	46.0	9.9	10.3	10.8	34.3	37.4	40.4	34.4	34.9	36.5	43
25.6	25.6	25.9	64.1	64.5	65.3	33.7	33.9	34.4	150.5	161.2	173.2	274.6	285.4	288.9	44
63.0	63.9	66.3	269.0	278.9	284.4	81.6	84.6	88.9	338.0	365.1	388.5	525.2	539.3	543.1	45
185.1	194.2	209.7	771.0	836.9	897.4	202.5	219.3	232.7	640.0	693.9	742.8	565.7	601.8	604.5	46
(*)	1.3	1.4	(*)	11.3	12.3	(*)	2.4	2.5	(*)	7.1	7.9	(*)	7.5	7.3	47
2.6	2.7	3.1	18.5	20.0	20.8	4.0	3.9	4.1	16.6	19.0	19.9	12.3	13.1	13.5	48
13.5	14.4	16.1	78.2	87.5	93.0	21.8	24.0	26.6	64.2	71.5	77.5	39.0	42.9	43.7	49
(*)	3.3	3.5	(*)	16.5	17.7	(*)	4.5	5.2	(*)	11.3	12.4	(*)	11.0	10.4	50
1.4	1.5	1.6	11.7	13.5	14.1	2.4	2.5	2.7	7.4	9.0	10.4	26.7	26.7	26.9	51
21.6	22.2	23.5	69.9	73.4	73.7	27.5	27.4	27.5	50.1	54.8	57.3	51.1	53.1	53.0	52
(*)	4.8	4.9	(*)	26.6	27.1	(*)	5.6	5.9	(*)	20.3	22.0	(*)	16.7	17.0	53
(*)	4.0	4.4	(*)	19.3	21.1	(*)	3.7	3.9	(*)	20.7	23.0	(*)	19.0	18.4	54
59.6	62.2	68.6	160.1	169.7	182.0	44.9	47.4	49.3	147.3	158.0	168.0	88.6	90.5	93.5	55
11.5	12.2	13.6	63.5	69.7	73.6	15.5	16.4	17.5	58.8	64.9	70.5	36.4	40.2	42.1	56
(*)	1.7	1.7	(*)	9.1	8.8	(*)	1.6	1.8	(*)	5.6	5.9	(*)	8.4	8.9	57
4.4	4.6	5.1	21.0	22.0	22.0	3.9	4.1	4.4	17.0	18.1	18.8	24.5	25.1	24.9	58
2.6	2.7	2.8	16.4	18.5	19.9	4.6	5.1	5.5	13.8	15.6	16.5	8.6	9.4	9.7	59
2.2	2.2	2.3	12.9	13.7	14.6	2.9	3.0	3.0	8.7	9.5	10.9	31.9	33.0	33.6	60
26.6	27.6	29.0	127.5	136.7	142.7	32.0	33.9	36.0	99.5	110.5	120.9	71.9	77.4	79.7	61
6.9	7.4	8.2	40.7	44.8	49.5	11.8	13.5	15.7	37.6	41.2	46.4	26.7	29.0	29.5	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
1 GEORGIA	1,926.4	2,050.1	2,114.1	7.3	7.5	7.7	91.6	101.2	98.1	494.1	515.8	527.1
2 Albany	39.1	41.3	44.1	(1)	(1)	(1)	2.6	3.3	4.0	9.6	10.6	10.6
3 Atlanta	823.4	888.4	931.0	(1)	(1)	(1)	35.7	41.2	39.9	131.4	138.4	142.3
4 Augusta	111.8	117.4	120.7	(1)	(1)	(1)	6.9	7.0	6.5	35.3	35.7	36.3
5 Columbus	78.8	81.6	82.7	(1)	(1)	(1)	4.6	5.0	4.1	20.4	21.0	21.7
6 Macon	94.9	96.1	95.7	(1)	(1)	(1)	4.8	4.7	4.4	16.2	15.8	15.8
7 Savannah	80.1	84.1	85.1	(1)	(1)	(1)	5.1	5.6	4.8	16.3	16.7	16.6
8 HAWAII	359.4	377.3	396.6	(1)	(1)	(1)	19.7	20.7	22.9	23.2	23.7	23.6
9 Honolulu	298.4	312.5	328.1	(1)	(1)	(1)	16.4	17.1	18.5	17.2	17.5	17.5
10 IDAHO	307.4	331.3	337.2	3.4	3.9	4.1	19.0	19.8	18.6	54.1	56.1	58.6
11 Boise City	70.5	78.9	82.5	(1)	(1)	(1)	5.5	6.2	6.1	7.6	9.0	9.7
12 ILLINOIS	4,534.3	4,689.9	4,859.3	29.0	26.6	30.4	175.2	185.8	181.8	1,192.9	1,236.9	1,261.6
13 Bloomington—Normal	46.1	48.2	50.0	(2)	(2)	(2)	1.6	1.6	1.5	6.9	7.2	7.7
14 Champaign—Urbana—Rantoul	67.8	69.0	71.2	(2)	(2)	(2)	2.4	2.4	2.3	7.2	7.3	7.8
15 Chicago—Gary	3,314.9	3,402.8	(*)	4.9	4.9	(*)	123.5	139.8	(*)	925.5	935.0	(*)
16 Chicago SMSA	3,055.5	3,164.9	3,224.2	5.0	5.1	5.0	109.2	116.8	113.4	811.8	838.9	852.5
17 Davenport—Rock Island—Moline	158.5	162.0	168.3	(2)	(2)	(2)	7.5	7.9	7.9	47.3	47.6	51.7
18 Decatur	53.8	53.9	54.3	(2)	(2)	(2)	2.9	2.7	2.7	19.2	20.0	19.8
19 Kankakee	35.2	35.9	35.8	(2)	(2)	(2)	1.3	1.7	1.4	10.3	10.5	9.9
20 Peoria	143.8	153.3	148.5	(2)	(2)	(2)	8.1	8.1	8.3	49.1	53.5	43.5
21 Rockford	114.6	120.0	123.8	(2)	(2)	(2)	3.5	3.9	3.7	51.4	54.5	57.5
22 Springfield	84.4	86.1	85.9	(2)	(2)	(2)	3.7	3.5	3.3	8.2	7.9	6.8
23 INDIANA	2,114.0	2,205.5	2,259.7	8.3	9.0	10.7	91.9	100.6	108.9	713.2	741.5	740.9
24 Anderson	52.2	53.3	52.8	(1)	(1)	(1)	1.1	1.3	1.3	25.9	25.9	24.6
25 Elkhart	73.8	79.8	78.9	-	-	-	2.4	2.7	2.5	41.5	44.7	42.8
26 Evansville	120.1	128.4	130.5	2.4	2.4	2.9	6.8	8.4	8.1	37.8	39.7	38.8
27 Fort Wayne	166.8	177.7	183.5	(1)	(1)	(1)	6.8	7.9	8.3	59.5	61.7	61.6
28 Gary—Hammond—East Chicago	249.4	258.0	269.9	(1)	(1)	(1)	15.2	16.9	19.7	100.1	102.6	104.0
29 Indianapolis	485.7	517.0	537.9	(1)	(1)	(1)	19.0	21.8	25.0	124.4	131.1	132.6
30 Lafayette—West Lafayette	53.7	56.0	58.2	(1)	(1)	(1)	2.2	1.9	2.3	11.5	12.5	12.5
31 Muncie	48.9	49.3	50.7	(1)	(1)	(1)	2.0	1.9	2.0	14.9	14.4	14.6
32 South Bend	107.6	113.7	116.3	(1)	(1)	(1)	4.7	5.0	5.1	33.3	34.6	34.7
33 Terre Haute	60.6	64.3	67.9	1.1	1.1	1.4	2.1	2.8	4.0	16.5	17.4	17.4
34 IOWA	1,079.2	1,119.2	1,128.3	2.5	2.5	2.5	57.6	61.1	58.2	245.6	252.5	258.0
35 Cedar Rapids	79.7	82.7	85.7	(1)	(1)	(1)	3.9	4.4	4.4	27.6	26.4	29.2
36 Des Moines	173.5	181.0	182.8	(1)	(1)	(1)	7.9	9.2	8.2	25.6	26.0	26.8
37 Dubuque	43.1	44.6	44.8	(1)	(1)	(1)	1.8	1.9	1.8	16.5	16.7	16.6
38 Sioux City	49.8	51.6	49.9	(1)	(1)	(1)	4.0	4.0	2.5	8.6	5.8	9.3
39 Waterloo—Cedar Falls	64.0	66.0	66.8	(1)	(1)	(1)	3.1	3.2	3.2	22.1	22.6	23.0
40 KANSAS	871.0	912.5	946.7	11.8	12.9	13.8	45.6	48.1	50.8	172.9	185.9	198.0
41 Lawrence	25.0	26.6	28.0	(2)	(2)	(2)	1.5	1.3	1.3	3.6	4.3	4.8
42 Topeka	81.3	85.2	86.7	.2	.2	.2	3.4	4.0	3.6	11.2	11.5	11.5
43 Wichita	179.8	191.6	204.8	1.8	2.0	2.4	9.3	9.3	10.4	51.9	56.4	66.1
44 KENTUCKY	1,148.3	1,209.9	1,244.9	48.6	52.1	54.8	58.4	68.2	70.2	284.9	292.2	295.2
45 Lexington—Fayette	133.0	142.0	150.2	(1)	(1)	(1)	6.9	7.8	9.1	29.4	30.4	31.3
46 Louisville	372.4	394.8	403.5	(1)	(1)	(1)	17.6	19.6	19.6	106.5	110.0	109.7
47 Owensboro	28.3	30.4	30.4	.6	.8	.8	1.8	2.3	2.1	7.3	7.0	6.9
48 LOUISIANA	1,364.6	1,463.5	1,497.6	68.0	73.7	74.8	111.1	124.4	124.8	203.3	209.5	213.3
49 Alexandria	48.1	50.8	50.6	(1)	(1)	(1)	3.2	3.2	3.0	6.2	6.3	6.1
50 Baton Rouge	176.6	188.5	189.6	1.0	1.0	.8	22.0	24.2	22.5	23.6	25.1	26.0
51 Lafayette	58.1	65.5	72.5	9.4	11.6	12.8	4.8	4.9	6.0	3.2	3.5	3.5
52 Lake Charles	54.0	59.0	63.4	1.6	1.8	1.8	5.2	6.3	8.3	11.3	12.1	12.7
53 Monroe	46.7	49.3	49.9	.4	.5	.5	4.2	4.8	4.0	8.0	8.4	8.5
54 New Orleans	455.5	482.4	489.4	14.9	15.6	16.0	27.5	30.6	30.2	51.2	52.1	54.1
55 Shreveport	135.9	142.3	145.5	4.9	5.1	4.7	8.8	10.0	10.8	27.7	28.5	28.2
56 MAINE	387.8	405.6	416.3	(1)	(1)	(1)	19.8	19.4	18.9	105.9	111.3	114.0
57 Lewiston—Auburn	32.8	34.1	35.1	(1)	(1)	(1)	1.3	1.4	1.6	12.1	12.3	12.0
58 Portland	81.6	86.6	90.0	(1)	(1)	(1)	3.9	4.0	3.9	15.3	16.8	17.8
59 MARYLAND	1,539.1	1,593.6	1,620.1	(1)	(1)	(1)	92.2	102.5	104.1	235.1	242.0	245.7
60 Baltimore	863.5	882.1	893.7	(1)	(1)	(1)	43.7	49.4	51.2	161.2	164.3	164.9

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. 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			
1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	
120.3	129.1	136.1	443.1	476.0	493.5	100.0	103.6	107.0	286.0	309.1	326.9	384.0	407.9	417.7	1
1.7	1.9	2.0	8.8	9.5	9.7	1.8	1.8	2.0	5.0	5.4	6.1	9.6	9.5	9.7	2
71.8	77.5	84.5	230.7	247.5	257.5	57.6	60.2	63.7	159.0	174.4	186.5	137.2	149.1	156.7	3
3.9	4.2	4.3	19.6	22.0	22.9	4.2	4.4	4.6	13.8	14.8	15.9	28.1	29.4	30.3	4
3.2	3.3	3.5	16.8	17.3	17.4	4.7	5.1	5.2	10.8	11.0	11.3	18.3	18.9	19.5	5
4.5	4.5	4.8	19.2	20.2	20.2	5.6	5.8	5.8	14.9	15.4	15.9	29.7	29.7	28.8	6
7.9	8.4	8.8	18.8	19.3	19.7	3.8	4.0	4.1	13.3	14.3	15.0	14.9	15.8	16.1	7
28.2	20.8	30.4	92.2	97.9	104.5	25.6	28.8	30.3	84.8	90.3	98.4	85.7	87.1	86.5	8
23.3	23.7	25.2	77.2	81.9	87.2	22.4	25.2	26.3	68.9	73.3	80.0	73.0	73.8	73.4	9
18.0	19.5	20.2	76.8	82.1	83.4	16.4	20.8	22.9	52.4	57.1	59.9	67.3	69.8	69.5	10
4.3	4.7	5.3	18.9	20.8	21.0	5.6	8.0	9.0	11.9	13.4	14.3	16.7	16.5	17.0	11
274.7	282.0	329.9	1,048.2	1,088.3	1,101.9	266.5	280.9	295.7	829.9	859.4	900.0	717.8	726.0	758.2	12
2.9	2.9	3.1	10.3	11.1	11.1	7.1	7.5	7.7	7.1	7.5	8.2	10.2	10.3	10.7	13
2.4	2.5	2.4	15.7	16.5	17.5	2.1	2.2	2.2	9.3	9.7	9.9	28.6	28.5	29.1	14
205.6	210.6	200.0	752.0	757.9	757.9	207.1	213.5	213.5	639.3	653.3	653.3	457.2	484.2	484.2	15
189.7	193.0	200.0	714.3	740.1	737.8	201.8	211.5	223.3	598.5	620.7	646.8	425.2	438.9	445.5	16
7.8	8.0	8.3	39.3	39.6	40.7	6.6	7.0	7.1	24.2	25.1	26.2	25.6	26.6	26.5	17
4.5	4.5	5.0	11.2	10.9	10.8	2.5	2.6	2.9	8.6	8.6	8.2	4.9	4.6	4.5	18
1.4	1.4	1.6	7.4	7.8	7.9	1.0	1.1	1.1	6.5	6.4	6.4	7.2	7.0	7.5	19
7.3	7.8	8.3	33.3	35.4	37.4	6.8	6.9	7.2	23.1	24.7	26.7	16.2	17.0	17.1	20
4.9	5.4	5.1	23.2	23.9	25.0	3.8	4.0	4.2	15.7	16.3	16.6	12.0	12.1	11.8	21
5.1	5.4	5.4	17.7	18.5	19.3	6.3	6.5	6.7	15.5	16.0	16.3	27.9	27.9	28.1	22
105.6	109.0	111.4	459.3	482.3	499.9	94.0	97.5	101.2	299.8	316.7	332.7	342.0	349.1	353.5	23
1.4	1.5	1.6	9.9	10.5	10.7	1.6	1.7	1.7	6.5	6.9	7.1	5.8	5.5	5.8	24
2.2	2.3	2.4	13.4	14.7	15.2	1.8	1.9	2.1	7.9	8.5	8.8	4.6	5.0	5.1	25
6.4	6.8	6.9	28.6	30.5	32.4	4.0	4.3	4.5	21.9	23.7	24.3	12.2	12.6	12.6	26
10.5	10.9	11.5	39.2	42.4	44.9	9.2	9.9	10.5	25.2	27.1	28.7	16.4	17.8	18.0	27
14.5	15.0	15.9	47.3	50.2	54.7	8.5	9.0	9.6	32.4	33.7	34.7	31.4	30.6	31.3	28
29.4	30.9	31.8	118.9	127.0	135.0	34.1	35.7	37.7	75.9	83.0	89.2	84.0	87.5	86.6	29
1.5	1.6	1.6	10.6	11.3	11.9	2.6	2.7	2.8	7.8	8.4	9.1	17.5	17.6	18.0	30
2.0	2.0	2.1	11.1	11.6	12.1	1.5	1.6	1.6	7.0	7.3	7.7	10.4	10.5	10.6	31
5.1	5.3	5.3	25.4	27.4	29.3	4.9	5.2	5.4	22.3	23.3	24.0	11.9	12.9	12.5	32
4.1	4.0	4.1	14.8	16.1	17.0	2.0	2.0	2.2	8.6	9.0	9.6	11.4	11.9	12.2	33
55.0	56.9	58.3	275.4	286.5	286.2	52.6	55.4	57.0	188.1	196.2	202.8	202.5	208.2	205.5	34
3.7	4.0	4.1	17.2	18.2	18.7	4.0	4.3	4.3	13.9	14.3	15.3	9.2	9.0	9.6	35
11.2	11.4	12.0	46.4	48.4	48.9	18.8	19.8	20.2	35.4	37.4	38.6	28.2	28.7	28.3	36
1.7	1.7	1.7	8.9	9.3	9.1	1.3	1.3	1.2	9.0	9.7	10.1	3.9	4.0	4.2	37
3.7	3.8	4.2	14.0	13.6	13.2	2.7	2.7	2.9	10.5	11.1	11.2	6.4	6.6	6.7	38
2.5	2.6	2.7	13.7	14.2	14.1	1.9	2.0	2.1	10.0	10.4	10.9	10.7	11.0	10.9	39
59.3	63.2	65.5	211.9	221.4	226.0	43.6	45.0	45.8	149.0	156.2	164.8	176.9	180.0	182.0	40
1.3	1.4	1.4	5.1	5.5	5.7	.8	.8	.8	3.1	3.3	3.6	9.6	10.0	10.4	41
7.3	7.5	7.5	18.0	18.7	19.2	5.7	5.8	6.0	14.9	16.1	16.8	20.8	21.4	21.9	42
9.9	10.0	10.3	40.7	43.3	44.8	9.0	9.0	9.0	34.9	36.4	37.8	22.4	23.2	24.0	43
64.6	67.2	70.1	247.6	264.3	269.4	46.3	48.8	50.3	185.9	196.8	204.3	212.0	220.3	230.3	44
6.2	6.9	7.4	30.1	32.4	33.7	6.3	6.7	7.1	23.3	25.2	27.7	30.7	32.6	33.9	45
23.4	24.4	25.1	83.0	89.9	90.6	20.6	21.8	22.7	68.3	72.4	75.3	52.7	56.7	60.5	46
2.0	2.1	2.3	6.7	7.5	7.0	1.1	1.1	1.2	4.7	5.3	5.5	4.1	4.3	4.6	47
103.6	113.3	115.0	324.6	345.4	354.9	66.1	70.7	73.5	230.5	246.2	250.7	257.4	280.3	290.6	48
2.3	2.5	2.5	11.0	11.3	11.2	2.9	2.9	2.8	8.8	9.7	10.1	13.7	14.9	14.9	49
8.6	9.6	10.0	38.3	41.7	42.7	10.1	10.5	11.0	27.1	29.3	30.2	45.7	47.1	46.5	50
4.2	4.6	5.0	15.7	17.4	19.3	1.8	2.1	2.3	10.1	12.4	14.1	8.9	9.0	9.5	51
2.9	3.3	3.6	12.5	13.5	14.2	2.3	2.5	2.6	8.8	9.0	9.1	9.4	10.5	11.1	52
2.3	2.4	2.5	12.4	12.8	13.3	3.0	3.4	3.5	7.0	7.3	7.7	9.4	9.7	9.5	53
45.8	49.3	49.4	118.2	121.9	123.6	27.4	28.7	29.8	97.4	104.4	105.0	73.1	79.8	81.3	54
9.4	9.6	10.2	34.2	34.7	34.9	6.3	6.7	7.0	22.7	24.6	25.4	21.9	23.1	24.3	55
18.0	18.0	18.8	83.6	86.3	90.5	15.3	15.7	16.3	67.5	71.4	75.2	77.7	81.5	82.6	56
1.1	1.1	1.1	7.5	7.8	8.2	1.4	1.4	1.6	6.2	6.7	7.3	3.2	3.4	3.3	57
5.0	5.2	5.4	21.9	23.4	24.6	6.6	6.7	7.1	16.4	17.7	18.5	12.5	12.8	12.7	58
80.9	84.6	87.2	368.4	378.6	382.5	82.8	85.6	89.2	305.4	317.3	331.2	374.1	383.0	380.2	59
55.7	58.7	61.8	197.3	194.0	192.7	50.4	51.9	53.8	163.6	169.3	176.0	191.6	194.5	193.3	60

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
1 MASSACHUSETTS	2,405.1	2,526.5	2,598.9	(1)	(1)	(1)	66.7	72.8	76.6	621.0	652.4	670.3
2 Boston	1,312.8	1,395.1	1,442.3	(1)	(1)	(1)	35.7	38.9	41.2	268.6	282.7	290.4
3 Brockton	52.7	56.2	58.2	(1)	(1)	(1)	1.7	1.6	1.7	11.6	12.4	12.7
4 Fall River	53.6	55.4	57.6	(1)	(1)	(1)	1.2	1.4	1.6	20.2	20.6	20.7
5 Lawrence—Haverhill	99.0	106.5	108.3	(1)	(1)	(1)	2.5	2.7	3.0	37.4	41.1	41.4
6 Lowell	66.0	70.8	74.1	(1)	(1)	(1)	2.4	2.5	2.7	22.2	23.7	26.0
7 New Bedford	61.9	64.9	65.7	(1)	(1)	(1)	1.5	1.6	1.6	25.1	26.3	26.2
8 Springfield—Chicopee—Holyoke	220.9	231.0	233.5	(1)	(1)	(1)	5.2	5.7	6.0	64.0	66.6	67.4
9 Worcester	152.2	160.4	164.3	(1)	(1)	(1)	4.0	4.5	4.8	45.1	47.3	48.7
10 MICHIGAN	(*)	3,608.5	3,627.8	(*)	13.3	13.4	(*)	138.8	139.8	(*)	1,175.6	1,151.1
11 Ann Arbor	(*)	134.7	139.8	(*)	(1)	(1)	(*)	3.0	3.1	(*)	44.0	45.6
12 Battle Creek	(*)	67.0	66.4	(*)	(1)	(1)	(*)	1.7	1.9	(*)	24.3	23.5
13 Bay City	(*)	35.0	35.0	(*)	(1)	(1)	(*)	1.4	1.2	(*)	11.1	10.6
14 Detroit	(*)	1,800.2	1,785.0	(*)	1.2	1.3	(*)	62.3	61.2	(*)	608.9	577.4
15 Flint	(*)	197.5	201.8	(*)	(1)	(1)	(*)	5.9	6.0	(*)	85.6	84.8
16 Grand Rapids	(*)	259.4	270.9	(*)	(1)	(1)	(*)	12.9	14.1	(*)	90.5	95.5
17 Jackson	(*)	53.8	55.0	(*)	(1)	(1)	(*)	1.8	2.0	(*)	16.4	16.6
18 Kalamazoo—Portage	(*)	106.9	110.3	(*)	(1)	(1)	(*)	4.2	4.4	(*)	34.6	35.9
19 Lansing—East Lansing	(*)	188.8	194.6	(*)	(1)	(1)	(*)	6.3	6.7	(*)	44.5	44.7
20 Muskegon—Norton Shores—Muskegon Hgts.	(*)	60.1	61.6	(*)	(1)	(1)	(*)	2.7	3.0	(*)	22.0	22.3
21 Saginaw	(*)	90.1	90.7	(*)	(1)	(1)	(*)	2.9	2.7	(*)	36.6	36.0
22 MINNESOTA	1,597.3	1,688.9	1,770.7	12.9	16.4	17.2	68.7	79.0	84.2	339.3	366.4	382.6
23 Duluth—Superior	58.4	60.6	61.8	(1)	(1)	(1)	2.3	2.4	2.2	7.6	7.6	8.1
24 Minneapolis—St. Paul	965.7	1,022.9	1,075.8	(1)	(1)	(1)	36.4	42.6	47.1	220.6	233.2	248.3
25 Rochester	(*)	47.8	49.9	(*)	(2)	(2)	(*)	2.3	2.2	(*)	5.6	10.2
26 St. Cloud	(*)	51.1	53.4	(*)	(1)	(1)	(*)	2.8	2.4	(*)	11.1	12.8
27 MISSISSIPPI	765.9	813.7	838.6	7.6	8.6	9.4	41.0	44.9	46.9	230.1	235.3	235.2
28 Jackson	128.7	139.6	146.1	1.0	1.1	1.3	7.0	7.8	8.1	18.4	16.9	19.0
29 MISSOURI	1,861.8	1,953.1	2,002.9	8.4	7.6	8.0	77.8	87.3	92.0	439.6	456.6	459.7
30 Kansas City	595.5	623.5	637.8	.5	.5	.6	24.4	28.5	29.4	119.7	124.5	127.9
31 St. Joseph	36.3	37.2	37.4	(2)	(2)	(2)	1.9	2.0	2.0	9.4	5.6	9.5
32 St. Louis	958.5	995.1	1,002.1	2.6	2.8	3.1	38.1	42.4	44.8	250.5	256.4	254.6
33 Springfield	78.8	82.8	84.8	(2)	(2)	(2)	3.7	4.2	4.1	18.4	16.3	18.4
34 MONTANA	264.8	280.4	284.9	6.1	7.0	7.6	15.7	16.7	15.3	25.1	26.3	26.9
35 Billings	43.4	45.5	47.9	(1)	(1)	(1)	2.5	2.6	2.7	4.1	4.2	4.4
36 Great Falls	29.3	30.0	30.2	(1)	(1)	(1)	1.9	1.9	1.9	1.8	1.8	1.7
37 NEBRASKA	593.7	609.9	626.6	1.8	1.8	1.7	32.3	33.0	33.5	90.6	94.1	99.1
38 Lincoln	94.6	97.7	100.4	(2)	(2)	(2)	4.4	4.8	4.9	13.6	13.6	14.0
39 Omaha	246.2	255.5	264.2	(2)	(2)	(2)	12.4	12.6	11.6	34.8	35.6	37.6
40 NEVADA	308.2	350.3	383.1	4.4	4.2	4.6	19.3	25.5	27.2	15.1	17.8	19.5
41 Las Vegas	168.3	189.4	209.4	.2	.2	.5	10.2	13.6	15.5	5.6	6.3	6.9
42 Reno	89.1	104.0	114.0	.6	.6	.8	6.6	8.2	7.7	6.6	7.9	8.4
43 NEW HAMPSHIRE	337.1	361.3	377.4	.4	.4	.4	17.0	18.8	20.7	101.4	109.8	116.0
44 Manchester	66.5	72.4	73.5	(2)	(2)	(2)	3.4	3.3	3.4	18.1	16.5	18.6
45 Nashua	52.0	55.3	59.9	(2)	(2)	(2)	2.5	2.6	2.7	23.2	24.5	27.8
46 NEW JERSEY	2,840.6	2,968.0	(*)	2.9	2.5	(*)	94.5	106.7	(*)	767.7	789.2	(*)
47 Atlantic City	68.2	71.7	(*)	-	-	(*)	3.1	3.4	(*)	8.9	8.5	(*)
48 Camden	304.6	321.9	(*)	.1	.1	(*)	12.0	13.5	(*)	66.4	65.3	(*)
49 Hackensack	370.5	388.4	(*)	(1)	(1)	(*)	12.2	13.2	(*)	108.5	111.4	(*)
50 Jersey City	232.4	235.0	(*)	-	-	(*)	3.9	4.0	(*)	72.1	73.1	(*)
51 Long Branch—Asbury Park	145.3	153.3	(*)	(1)	(1)	(*)	5.5	6.1	(*)	23.0	23.6	(*)
52 New Brunswick—Perth Amboy—Sayreville	257.7	273.9	(*)	(1)	(1)	(*)	8.7	10.0	(*)	85.5	85.6	(*)
53 Newark	889.0	918.3	(*)	.9	.9	(*)	28.4	31.3	(*)	245.4	249.8	(*)
54 Paterson—Clifton—Passaic	181.8	190.6	(*)	(1)	(1)	(*)	5.3	6.1	(*)	65.5	67.2	(*)
55 Trenton	154.9	160.7	(*)	(1)	(1)	(*)	2.9	3.0	(*)	37.4	36.5	(*)
56 Vineland—Millville—Bridgeport	53.9	56.2	(*)	(1)	(1)	(*)	1.5	1.6	(*)	19.4	19.5	(*)
57 NEW MEXICO	415.4	444.3	461.5	23.4	24.4	26.8	30.7	35.0	36.4	32.2	33.4	34.7
58 Albuquerque	164.9	178.0	187.1	(1)	(1)	(1)	12.4	15.0	16.0	16.4	17.2	18.0
59 NEW YORK	6,857.6	7,045.2	7,174.6	6.9	6.3	5.9	190.2	199.2	206.6	1,459.6	1,461.2	1,498.9
60 Albany—Scheneectady—Troy	321.7	332.3	338.1	(1)	(1)	(1)	10.6	11.0	11.3	63.7	62.7	60.5
61 Binghamton	111.7	116.4	118.0	(1)	(1)	(1)	4.0	4.3	4.1	40.5	42.2	43.0
62 Buffalo	497.8	507.7	514.6	(1)	(1)	(1)	17.6	18.2	18.6	145.2	144.1	145.7

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. 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			
1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	
114.9	117.3	120.1	533.7	547.3	567.4	143.2	146.7	148.2	528.6	560.8	596.2	397.0	429.2	420.1	1
68.2	69.6	71.7	294.9	304.2	313.9	97.4	100.9	104.0	342.8	374.1	403.0	205.2	224.7	218.1	2
4.0	4.2	4.4	14.2	14.8	15.7	1.8	2.0	2.1	8.2	8.7	9.3	11.0	12.5	12.3	3
1.9	1.9	1.9	11.8	11.6	11.8	2.5	2.6	2.7	8.5	9.3	10.5	7.5	8.0	8.4	4
4.0	4.2	4.6	20.9	21.6	21.6	3.6	3.8	3.9	14.3	15.6	16.2	16.3	17.5	17.6	5
3.0	3.2	3.2	14.3	15.2	15.4	2.0	2.1	2.1	10.2	10.8	11.4	11.5	13.3	13.3	6
2.5	2.4	2.3	11.9	12.4	12.8	1.8	1.9	2.0	8.4	8.7	9.5	10.7	11.6	11.3	7
9.3	9.3	9.4	44.7	47.0	47.6	11.6	12.3	12.4	40.5	42.3	43.7	45.6	47.8	47.6	8
6.9	6.8	6.9	33.2	34.3	35.7	8.2	8.5	8.9	28.6	30.8	32.2	26.2	28.2	27.1	9
(*)	155.9	158.8	(*)	749.1	757.4	(*)	147.4	153.3	(*)	613.8	631.1	(*)	608.4	622.9	10
(*)	3.4	3.6	(*)	19.4	19.8	(*)	3.3	3.5	(*)	19.9	21.0	(*)	41.7	43.2	11
(*)	2.4	2.4	(*)	11.4	11.2	(*)	3.7	3.6	(*)	11.4	11.4	(*)	12.1	12.4	12
(*)	1.8	1.8	(*)	8.5	8.3	(*)	1.2	1.2	(*)	6.2	6.7	(*)	4.8	5.2	13
(*)	86.4	86.2	(*)	364.6	369.0	(*)	85.5	88.9	(*)	335.7	341.3	(*)	255.6	259.6	14
(*)	6.8	7.2	(*)	39.4	40.1	(*)	5.8	6.1	(*)	28.5	30.0	(*)	25.5	27.6	15
(*)	10.6	10.9	(*)	58.9	59.7	(*)	9.7	10.1	(*)	46.7	49.2	(*)	30.1	31.4	16
(*)	5.1	5.0	(*)	10.9	11.0	(*)	1.4	1.5	(*)	9.8	10.0	(*)	8.4	8.7	17
(*)	3.9	4.0	(*)	21.1	21.1	(*)	3.7	3.5	(*)	20.0	21.3	(*)	19.4	20.1	18
(*)	5.1	5.5	(*)	34.7	35.8	(*)	8.6	9.2	(*)	24.8	26.0	(*)	64.8	66.7	19
(*)	3.0	3.1	(*)	11.1	11.4	(*)	1.8	1.7	(*)	9.6	9.7	(*)	9.9	10.2	20
(*)	4.6	4.7	(*)	18.1	17.6	(*)	3.7	3.8	(*)	13.1	14.1	(*)	11.1	11.6	21
92.4	93.9	100.3	403.5	426.9	444.4	82.2	86.3	91.8	312.0	333.3	355.8	286.3	292.8	294.4	22
6.3	6.8	6.7	16.0	16.1	16.6	2.1	2.2	2.2	11.8	12.5	12.9	12.3	12.9	13.1	23
59.7	59.5	64.4	241.3	257.0	265.9	61.4	64.2	67.7	198.2	212.9	227.7	147.9	153.6	154.8	24
(*)	1.9	2.0	(*)	9.5	9.8	(*)	1.4	1.4	(*)	17.4	18.1	(*)	5.8	6.0	25
(*)	3.3	3.4	(*)	12.6	12.7	(*)	1.7	1.8	(*)	8.8	9.2	(*)	10.9	11.2	26
36.1	38.5	41.2	149.7	159.4	163.0	29.7	31.4	32.7	107.9	113.9	117.8	163.9	181.8	192.4	27
8.1	8.9	9.8	30.7	34.6	35.3	9.8	10.8	11.4	24.6	26.3	27.7	28.9	31.3	33.6	28
129.7	136.3	142.4	446.1	465.8	475.4	98.0	103.7	108.2	340.7	360.0	378.0	321.5	335.6	339.2	29
51.8	53.8	54.9	153.5	161.7	161.8	39.7	42.0	43.8	116.6	120.9	127.4	89.3	91.6	92.1	30
2.4	2.2	2.1	8.8	5.2	9.3	1.8	1.9	1.9	6.4	6.4	6.8	5.6	5.9	5.8	31
65.5	69.4	71.2	221.5	229.7	228.6	52.9	55.3	56.5	190.8	198.4	203.4	136.2	140.7	139.9	32
5.9	6.2	6.5	21.6	23.1	23.9	3.1	3.4	3.4	15.4	16.7	17.4	10.7	10.9	11.1	33
20.3	21.7	23.2	67.0	72.2	74.5	11.2	12.2	12.7	49.4	52.6	54.7	70.0	71.7	70.1	34
3.8	4.1	4.8	14.2	15.4	16.0	2.0	2.2	2.3	8.7	9.3	9.9	8.1	7.7	7.7	35
1.8	1.9	1.9	9.5	9.8	9.8	1.9	2.1	2.1	6.2	6.6	6.8	6.2	5.9	5.5	36
42.0	43.8	46.3	156.0	158.9	164.0	37.7	39.5	40.9	104.1	108.8	114.3	129.2	130.3	127.0	37
6.6	6.7	7.2	20.6	21.4	22.2	6.7	7.0	7.2	15.5	15.9	16.3	27.2	28.4	28.7	38
21.8	23.0	24.6	64.5	67.1	69.4	22.0	23.2	24.2	49.9	53.9	58.0	40.8	40.2	38.5	39
18.8	20.9	23.0	61.2	69.5	77.3	12.8	14.4	16.8	127.4	145.8	160.0	49.2	52.2	54.7	40
10.7	11.9	12.5	34.1	39.1	43.3	6.7	7.7	9.3	78.9	87.2	96.7	21.9	23.4	24.7	41
5.9	6.7	8.0	19.0	21.6	24.4	4.8	5.4	6.0	31.6	39.1	43.4	13.6	14.5	15.3	42
12.3	13.0	13.5	73.7	80.2	83.2	16.2	17.4	18.7	62.3	65.3	67.7	53.8	56.4	57.2	43
4.1	4.6	4.8	16.6	18.7	18.7	4.7	5.6	6.2	12.0	13.2	13.6	7.6	8.1	8.2	44
1.7	1.8	1.9	10.2	11.0	11.8	1.6	1.7	1.8	7.4	7.8	8.4	5.4	5.5	5.5	45
178.2	188.6	(*)	637.1	665.1	(*)	142.9	148.3	(*)	514.0	545.7	(*)	503.2	521.9	(*)	46
3.2	3.5	(*)	18.5	19.3	(*)	4.5	4.4	(*)	15.7	17.1	(*)	14.4	15.5	(*)	47
14.8	15.7	(*)	79.6	83.3	(*)	14.8	15.2	(*)	58.2	63.2	(*)	58.8	61.6	(*)	48
19.6	20.8	(*)	108.6	114.4	(*)	14.3	15.1	(*)	64.6	70.0	(*)	42.6	43.5	(*)	49
28.0	27.7	(*)	43.9	44.6	(*)	8.7	8.5	(*)	30.4	30.7	(*)	45.4	46.5	(*)	50
5.9	6.2	(*)	37.0	39.7	(*)	6.2	7.0	(*)	35.2	37.7	(*)	32.5	33.0	(*)	51
17.0	19.9	(*)	58.1	62.1	(*)	8.7	9.2	(*)	34.5	37.4	(*)	45.3	45.6	(*)	52
66.8	69.5	(*)	170.9	176.8	(*)	60.4	61.6	(*)	169.6	179.1	(*)	146.6	149.2	(*)	53
6.7	7.4	(*)	40.9	42.1	(*)	9.2	9.4	(*)	28.4	30.4	(*)	25.8	28.1	(*)	54
5.4	5.9	(*)	23.8	25.2	(*)	6.1	6.5	(*)	36.6	38.1	(*)	42.7	45.0	(*)	55
3.0	3.0	(*)	8.6	9.1	(*)	2.4	2.4	(*)	7.9	8.4	(*)	11.1	12.1	(*)	56
24.6	26.6	28.1	95.5	101.2	104.6	18.3	19.8	21.2	79.7	87.3	88.7	111.0	116.6	121.0	57
9.2	10.3	11.4	42.6	45.2	47.2	9.3	10.1	10.8	37.1	40.1	42.4	38.0	40.1	41.3	58
425.3	430.3	433.7	1,427.6	1,454.7	1,476.0	577.8	586.9	603.0	1,499.5	1,570.6	1,635.4	1,270.8	1,316.0	1,315.2	59
15.4	15.5	15.8	63.8	67.2	69.6	14.4	14.9	15.4	62.5	65.3	68.3	91.3	95.7	97.3	60
4.6	4.7	4.8	20.8	21.9	21.7	3.6	3.6	3.8	16.0	17.1	17.8	22.2	22.6	22.8	61
26.8	28.0	28.5	111.0	114.7	116.1	21.2	21.6	22.0	89.9	94.1	96.9	86.2	87.1	86.9	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
NEW YORK—Continued												
1 Elmira	36.5	37.3	37.6	(1)	(1)	(1)	1.4	1.3	1.3	11.5	11.6	11.9
2 Monroe County	321.6	328.9	335.9	(1)	(1)	(1)	9.3	10.2	9.9	129.0	131.3	134.8
3 Nassau—Suffolk	827.5	865.3	892.7	(1)	(1)	(1)	31.9	34.5	35.7	151.2	158.2	164.5
4 New York—Northeastern New Jersey	6,343.3	6,516.2	(*)	3.2	2.9	(*)	169.4	179.5	(*)	1,349.5	1,371.6	(*)
5 New York and Nassau—Suffolk	4,418.4	4,530.0	4,610.8	1.8	1.7	1.6	110.9	116.3	123.3	772.5	778.6	779.3
6 New York SMSA	3,590.9	3,660.7	3,718.0	1.6	1.5	1.4	79.0	81.9	87.6	621.3	626.4	614.6
7 New York City	3,187.9	3,236.4	3,276.6	1.4	1.2	1.1	64.2	65.6	69.7	538.6	532.1	521.5
8 Poughkeepsie	87.3	92.8	97.2	(1)	(1)	(1)	2.7	3.0	2.8	28.4	30.8	32.5
9 Rochester	395.0	405.6	414.3	(1)	(1)	(1)	11.3	12.4	12.3	149.3	152.5	156.8
10 Rockland County	74.7	77.9	80.7	(1)	(1)	(1)	2.1	2.2	2.5	14.9	15.6	15.8
11 Syracuse	246.5	256.1	263.7	(1)	(1)	(1)	10.9	10.2	11.1	58.1	60.1	61.3
12 Utica—Rome	111.3	114.7	116.4	(1)	(1)	(1)	2.8	3.0	2.9	30.1	31.8	32.4
13 Westchester County	316.7	334.3	338.4	(1)	(1)	(1)	12.0	13.2	14.6	66.6	71.5	76.1
NORTH CAROLINA												
14 Asheville	2,170.4	2,277.4	2,376.9	4.7	4.8	5.0	106.8	118.1	126.0	780.9	807.2	824.2
15 Charlotte—Gastonia	65.8	68.9	71.3	(1)	(1)	(1)	3.4	3.5	3.3	21.2	21.7	22.0
16 Greensboro—Winston-Salem—High Pt.	293.4	312.4	325.0	(1)	(1)	(1)	14.5	16.2	17.8	84.6	87.8	89.0
17 Raleigh—Durham	358.8	375.9	388.6	(1)	(1)	(1)	15.8	17.3	17.0	142.4	147.1	151.0
18	232.0	246.2	264.6	(1)	(1)	(1)	11.3	13.5	15.1	37.5	35.8	43.4
NORTH DAKOTA												
19 Fargo—Moorhead	221.1	234.0	243.5	3.1	4.3	5.4	16.4	18.5	18.4	15.3	15.7	16.6
20	58.0	61.0	(*)	(2)	(2)	(*)	4.0	4.5	(*)	5.1	5.2	(*)
OHIO												
21 Akron	4,230.1	4,394.8	4,495.2	29.1	29.0	31.8	162.8	176.6	184.3	1,344.1	1,377.2	1,380.1
22 Canton	259.3	266.6	271.7	(*)	(*)	(*)	7.6	8.6	9.3	85.6	85.9	85.2
23 Cincinnati	149.8	156.1	161.5	(*)	(*)	(*)	5.7	6.5	6.6	56.0	57.1	58.6
24 Cleveland	562.1	591.2	607.8	(*)	(*)	(*)	24.1	25.9	27.9	161.1	169.2	172.3
25 Columbus	880.9	905.8	920.3	(*)	(*)	(*)	29.5	32.4	34.0	270.6	275.6	275.6
26 Dayton	471.6	493.8	506.5	(*)	(*)	(*)	18.4	19.9	21.1	98.5	101.2	100.9
27 Toledo	343.1	358.5	365.0	(*)	(*)	(*)	12.8	13.5	13.9	109.2	112.0	108.9
28 Youngstown—Warren	292.1	302.1	307.2	(*)	(*)	(*)	11.3	11.6	11.9	88.2	90.5	89.0
29	208.0	210.3	214.5	(*)	(*)	(*)	7.4	7.4	7.1	81.1	79.4	79.4
OKLAHOMA												
30 Oklahoma City	971.5	1,035.5	1,089.3	48.9	54.9	60.3	49.5	57.3	59.8	163.0	172.4	163.3
31 Tulsa	333.1	360.9	381.0	10.9	12.6	13.6	16.5	19.2	19.9	43.6	47.3	52.7
32	254.7	273.0	285.0	15.5	17.1	18.0	13.8	15.8	16.0	53.8	56.0	59.7
OREGON												
33 Eugene—Springfield	936.9	1,005.4	1,051.0	1.8	2.2	2.3	42.6	48.8	53.0	206.1	219.1	227.3
34 Jackson County	96.0	103.2	104.7	(1)	(1)	(1)	4.9	5.6	5.6	20.7	21.2	21.1
35 Portland	487.8	526.6	552.3	(1)	(1)	(1)	22.7	26.1	28.0	98.5	107.7	115.0
37 Salem	80.8	86.5	90.0	(1)	(1)	(1)	4.2	4.8	5.1	13.9	14.6	15.4
PENNSYLVANIA												
38 Allentown—Bethlehem—Easton	4,565.2	4,724.6	4,830.6	48.0	46.8	52.0	183.9	199.0	205.8	1,341.9	1,369.2	1,389.8
39 Altoona	256.4	260.2	263.0	(1)	(1)	(1)	9.3	10.2	9.5	107.5	109.7	110.4
40 Delaware Valley	51.2	52.2	52.9	(1)	(1)	(1)	2.3	2.7	2.8	13.1	12.9	13.1
41 Erie	1,523.1	1,566.3	1,597.9	(1)	(1)	(1)	52.4	56.8	61.7	380.5	382.1	383.5
42 Harrisburg	110.2	115.4	117.5	(1)	(1)	(1)	3.3	4.0	3.4	42.8	43.9	44.7
43 Johnstown	207.9	214.3	218.2	(1)	(1)	(1)	9.0	9.4	8.6	40.0	41.6	43.3
44 Lancaster	87.7	87.3	91.2	9.0	8.2	9.5	3.0	3.3	3.5	21.2	20.2	20.5
45 Northeast Pennsylvania	141.3	149.3	153.2	(1)	(1)	(1)	7.3	7.9	8.1	56.7	59.2	60.5
46 Philadelphia SMSA	232.7	241.9	245.3	1.3	1.2	1.2	12.2	13.4	13.3	70.5	73.2	73.6
47 Philadelphia City	1,827.8	1,886.0	1,927.3	(1)	(1)	(1)	64.4	70.7	76.0	446.4	451.5	455.8
48 Pittsburgh	792.0	800.0	804.9	(1)	(1)	(1)	16.2	17.3	18.7	153.7	151.0	145.2
49 Reading	910.6	940.2	960.6	11.0	9.8	11.2	42.9	48.8	49.0	249.2	251.5	254.9
50 Scranton	131.6	135.5	139.3	(1)	(1)	(1)	4.5	5.2	5.5	51.0	53.3	54.7
51 Wilkes-Barre—Hazleton	83.4	86.2	86.6	(1)	(1)	(1)	2.5	2.7	2.6	26.7	28.0	27.5
52 Williamsport	122.9	127.0	129.5	1.2	1.1	1.1	8.4	9.3	9.2	39.9	40.7	41.0
53 York	46.0	48.6	48.2	(1)	(1)	(1)	1.4	1.7	1.6	17.8	18.2	18.0
54	142.0	151.3	156.6	(1)	(1)	(1)	6.4	6.7	7.2	59.6	64.0	66.0
RHODE ISLAND												
55 Providence—Warwick—Pawtucket	381.7	395.8	400.0	(1)	(1)	(1)	12.6	13.5	13.6	128.8	134.4	132.3
56	391.4	408.0	410.2	(1)	(1)	(1)	12.8	13.6	13.8	144.3	156.7	147.7
SOUTH CAROLINA												
57 Charleston—North Charleston	1,081.7	1,137.5	1,177.8	1.8	1.8	1.9	65.8	70.2	72.8	380.2	391.1	399.3
58 Columbia	130.2	138.7	145.1	(1)	(1)	(1)	10.3	10.6	11.1	18.2	15.1	19.6
59 Greenville—Spartanburg	159.3	169.3	177.0	(1)	(1)	(1)	8.1	8.6	8.4	24.1	25.7	27.6
60	242.0	254.5	262.8	(1)	(1)	(1)	13.8	15.7	16.4	102.3	104.5	107.0
SOUTH DAKOTA												
61 Rapid City	226.6	236.6	240.2	2.6	2.8	2.8	12.4	13.6	12.3	23.4	24.9	26.9
62 Sioux Falls	26.9	28.9	30.1	(2)	(2)	(2)	2.4	2.7	2.6	2.6	2.7	3.1
63	49.8	53.4	53.5	(2)	(2)	(2)	3.0	3.4	2.8	6.5	7.4	7.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. 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		
1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
1.4	1.4	1.4	8.1	8.4	8.1	1.0	1.0	1.0	6.4	6.6	6.8	6.7	7.0	7.1
10.1	10.1	10.1	60.3	61.2	61.0	14.1	14.2	14.6	60.7	62.8	65.3	37.9	39.1	40.2
35.5	36.9	37.5	220.5	226.7	234.4	45.3	47.9	50.8	175.0	185.2	194.6	168.0	179.9	175.3
453.9	462.1	(*)	1,356.5	1,383.6	(*)	580.0	587.1	(*)	1,381.3	1,448.3	(*)	1,049.5	1,081.1	(*)
315.5	318.2	319.6	934.2	944.5	955.6	478.8	485.5	499.2	1,053.9	1,105.2	1,154.3	750.8	780.1	777.5
280.0	281.2	282.1	713.7	717.8	721.2	433.4	437.5	448.4	879.1	920.1	959.9	582.7	600.3	602.6
258.2	259.5	259.3	620.1	619.6	620.3	414.4	418.0	428.0	783.2	819.5	855.9	507.8	520.8	520.6
2.9	2.9	2.8	14.8	15.6	16.1	2.5	2.6	2.6	15.4	16.2	17.3	20.7	21.8	23.2
13.0	13.0	13.0	76.7	78.1	78.2	15.6	15.8	16.2	71.4	74.0	77.1	57.6	59.9	60.7
3.5	3.5	3.5	16.2	16.9	17.2	2.2	2.4	2.5	16.1	16.8	17.6	19.7	20.7	21.6
14.0	14.5	15.2	55.1	57.4	59.4	14.8	15.0	15.5	47.3	50.3	52.0	46.5	48.6	49.3
3.9	4.0	4.0	20.9	21.6	22.1	5.3	5.5	5.6	19.1	19.7	20.2	29.2	29.1	29.1
17.7	17.6	18.6	74.4	78.2	80.4	16.4	16.7	17.4	77.5	81.5	83.9	52.3	55.6	57.4
103.4	109.5	115.3	421.9	446.6	482.9	84.5	88.7	93.6	300.6	316.1	334.4	367.6	386.4	395.5
3.4	3.6	3.7	13.7	14.6	15.1	2.3	2.2	2.2	11.6	12.2	13.7	10.2	11.1	11.3
27.2	29.1	30.6	70.8	78.1	84.2	18.8	20.0	20.5	43.5	45.7	48.0	34.0	35.5	34.5
19.7	20.5	21.3	72.0	75.5	78.3	16.6	17.4	17.9	49.9	53.6	56.2	42.4	44.5	46.5
10.8	12.0	13.0	46.1	48.4	51.5	13.8	14.6	15.0	48.0	50.9	55.8	64.5	69.0	70.8
13.8	14.8	16.0	62.3	64.7	67.7	9.9	10.5	11.0	42.8	45.5	47.8	57.5	60.0	60.7
3.7	3.9	(*)	18.2	18.8	(*)	3.4	3.6	(*)	12.1	12.9	(*)	11.5	12.1	(*)
219.1	225.0	233.5	917.8	956.3	981.5	183.4	191.1	199.7	731.4	772.1	810.5	642.3	667.5	673.5
14.3	14.6	15.4	56.4	58.1	58.7	8.9	9.2	9.4	45.1	47.4	50.2	41.2	42.4	43.1
7.2	7.3	7.7	31.8	33.6	35.0	5.4	5.5	5.5	25.5	27.3	28.9	17.2	17.7	18.1
31.5	32.8	34.4	130.1	137.1	139.4	29.9	30.7	32.1	105.7	112.6	118.9	79.3	82.5	82.5
46.0	47.3	47.9	201.7	209.2	213.8	44.8	45.8	47.7	168.0	175.4	181.8	118.6	118.6	117.5
23.4	24.5	25.1	112.1	118.1	121.2	31.5	33.7	35.7	90.2	95.9	100.4	96.4	99.8	101.4
12.0	12.8	13.3	71.6	74.4	76.2	11.8	12.8	13.4	62.2	66.2	70.5	62.9	66.3	68.3
19.5	20.3	21.4	65.6	67.9	69.1	9.7	10.1	10.5	53.4	56.3	59.3	43.9	44.9	45.5
9.9	10.1	10.4	44.1	45.6	47.1	6.6	6.8	7.0	33.8	35.3	37.5	24.8	25.1	25.7
59.3	62.7	65.2	232.0	248.9	257.5	48.5	50.8	53.6	157.9	170.1	183.8	212.4	218.4	225.8
20.5	21.9	22.9	83.0	91.2	95.4	21.3	22.5	23.7	56.6	63.0	68.0	80.7	83.1	84.8
19.6	21.2	22.1	63.6	67.9	70.1	13.2	13.7	14.5	48.4	52.5	54.3	26.8	28.8	30.3
53.7	56.9	59.7	225.7	245.6	256.5	57.6	64.2	69.0	162.6	175.5	183.9	186.8	197.1	199.3
4.8	5.1	5.3	23.3	25.8	26.1	4.6	5.1	5.4	16.9	18.4	19.0	20.8	22.0	22.0
32.1	34.0	35.6	124.1	135.1	142.2	37.2	40.9	44.1	96.2	102.4	106.3	76.6	80.4	81.1
3.0	3.1	2.8	16.6	18.3	19.1	4.7	5.3	5.6	12.6	13.8	14.7	25.8	26.6	27.3
261.6	267.2	273.1	938.9	983.7	990.0	217.5	226.6	235.4	862.5	907.2	961.8	710.5	724.9	722.7
12.8	13.6	14.0	46.9	49.7	50.6	8.0	8.4	8.5	38.9	39.2	40.7	32.7	29.5	29.2
8.2	8.3	7.8	11.1	11.5	11.7	1.3	1.4	1.5	8.0	8.4	8.8	7.2	7.1	7.3
82.6	85.0	86.7	322.4	334.4	332.5	100.1	104.6	108.8	347.0	361.8	383.5	238.1	241.6	241.2
5.2	5.4	5.5	21.6	23.2	24.1	4.3	4.6	4.7	19.4	20.0	21.0	13.6	14.4	14.1
15.3	15.9	17.0	42.2	44.7	44.3	11.4	12.1	12.5	34.9	35.6	37.0	55.1	54.8	55.5
5.5	5.5	5.9	16.6	16.7	16.6	3.4	3.6	3.9	14.8	15.5	16.0	14.1	14.3	15.3
6.1	6.2	6.5	31.0	32.7	33.7	4.4	5.0	5.2	21.9	23.2	24.3	14.0	15.2	14.8
12.3	12.9	13.4	49.4	51.1	51.9	8.7	9.1	9.4	40.0	41.7	42.7	37.9	39.5	39.7
97.4	100.8	102.4	402.1	418.0	419.5	114.9	120.0	124.9	405.9	423.5	447.5	296.7	301.4	301.3
56.4	57.6	57.6	151.4	153.2	151.5	65.8	68.0	69.6	199.2	204.4	214.0	149.4	148.5	148.2
58.0	60.3	63.0	197.3	204.8	206.9	42.1	43.7	44.8	189.1	199.0	206.6	121.1	122.4	124.2
6.4	6.4	6.7	25.7	26.9	27.4	5.2	5.6	6.0	21.4	21.6	22.7	17.6	16.5	16.4
4.5	4.3	4.2	18.9	19.3	20.1	3.1	3.3	3.4	16.0	16.3	16.4	11.8	12.2	12.0
6.3	6.7	7.2	25.6	26.9	26.7	4.8	4.9	5.2	17.4	18.1	19.0	19.4	19.3	20.2
2.4	2.4	2.3	8.9	9.9	10.0	1.8	1.9	2.1	7.6	7.5	7.7	6.2	6.9	6.5
6.6	6.9	7.1	29.7	31.6	32.5	3.4	3.7	3.9	18.8	19.7	21.1	17.4	18.6	18.8
13.3	13.3	13.5	77.4	79.4	81.1	19.1	20.0	20.9	72.3	75.4	79.0	58.2	59.8	59.8
13.1	13.3	13.3	77.9	80.7	82.4	19.2	20.2	20.9	69.2	72.7	75.6	54.9	56.8	56.5
45.1	48.8	53.3	199.5	213.0	223.0	41.5	43.8	46.6	134.1	145.0	152.6	213.7	223.8	228.4
7.5	8.3	8.9	28.1	30.2	31.5	5.4	5.8	6.2	19.4	21.0	23.3	41.3	43.7	44.7
8.4	8.7	9.2	33.7	36.8	38.0	12.0	12.7	13.4	23.9	25.4	26.2	49.2	51.5	54.2
9.7	9.9	10.4	45.4	49.3	50.8	8.5	8.8	9.1	31.2	32.8	35.2	37.2	33.5	33.6
12.6	13.4	13.7	62.3	65.2	66.6	10.1	10.6	11.0	46.6	48.0	48.8	56.6	58.1	58.1
1.8	1.9	1.9	7.8	8.7	9.2	1.3	1.4	1.4	5.7	6.0	6.2	5.4	5.5	5.6
4.3	4.8	5.0	15.6	16.2	16.2	3.0	3.3	3.4	10.7	11.8	12.0	6.3	6.6	6.7

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. Employees on nonagricultural payrolls for States and selected areas by industry division—Continued

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
1 TENNESSEE	1,648.1	1,737.0	1,785.1	9.9	10.8	10.7	78.4	87.3	90.4	507.5	526.0	529.4
2 Chattanooga	164.5	172.6	175.6	1.3	1.4	1.3	6.1	7.3	7.2	56.1	56.6	54.8
3 Knoxville	185.0	194.3	195.6	1.6	1.6	1.5	11.1	12.2	11.6	51.7	53.2	53.6
4 Memphis	339.5	354.4	359.4	.1	.1	.2	14.4	15.6	15.5	60.6	63.5	62.7
5 Nashville—Davidson	332.9	351.3	365.4	(1)	(1)	(1)	18.1	20.2	21.1	81.0	82.5	83.1
6 TEXAS	4,906.8	5,271.6	5,603.2	159.3	182.7	199.3	345.8	381.8	419.8	893.5	962.6	1,022.5
7 Amarillo	68.6	72.0	75.3	(1)	(1)	(1)	4.2	5.0	5.1	8.5	8.1	9.3
8 Austin	200.9	216.8	230.8	(1)	(1)	(1)	11.3	12.6	13.1	22.8	25.9	28.9
9 Beaumont—Port Arthur—Orange	142.8	146.4	146.3	(1)	(1)	(1)	16.6	14.6	12.7	40.0	41.8	41.2
10 Corpus Christi	104.3	113.4	121.7	4.5	5.6	6.5	8.8	11.3	15.3	13.1	14.3	15.0
11 Dallas—Fort Worth	1,196.7	1,292.4	1,384.8	15.5	19.0	21.2	57.8	67.6	78.2	267.3	265.5	308.9
12 El Paso	141.4	149.8	155.8	(1)	(1)	(1)	8.2	9.2	8.9	28.9	30.5	31.8
13 Galveston—Texas City	65.3	66.1	67.4	(1)	(1)	(1)	4.8	5.1	5.2	11.9	11.7	11.9
14 Houston	1,173.6	1,281.2	1,365.8	54.0	63.1	68.3	125.4	136.7	142.4	195.1	213.8	227.8
15 Lubbock	81.9	86.7	88.0	(1)	(1)	(1)	4.7	4.7	4.7	12.5	12.5	13.0
16 San Antonio	344.9	365.3	378.0	1.8	1.9	2.0	20.9	23.7	25.3	42.3	46.3	47.4
17 Waco	63.4	66.0	69.2	(1)	(1)	(1)	3.2	3.4	3.4	15.0	15.9	16.7
18 Wichita Falls	47.5	49.8	50.6	2.5	2.7	2.8	2.4	2.4	2.7	8.1	5.1	9.4
19 UTAH	488.7	525.4	553.9	14.9	15.9	17.8	31.8	34.7	34.7	74.5	80.3	87.1
20 Salt Lake City—Ogden	349.2	374.2	393.8	6.4	7.0	7.6	22.0	23.9	23.8	50.0	54.1	58.5
21 VERMONT	178.4	190.6	197.2	.7	.7	.8	8.2	10.0	10.3	43.4	47.7	50.6
22 Burlington ¹⁴	46.6	51.3	54.9	-	-	-	-	-	-	10.6	12.5	14.1
23 Springfield ¹⁴	13.1	14.1	14.5	-	-	-	-	-	-	5.4	5.6	6.1
24 VIRGINIA	1,930.4	2,033.5	2,098.4	22.0	20.5	24.2	119.0	130.2	135.4	400.6	405.4	413.1
25 Bristol	25.1	27.2	28.5	(1)	(1)	(1)	1.1	1.3	1.4	8.6	5.7	9.6
26 Lynchburg	64.4	68.9	72.1	(1)	(1)	(1)	3.0	3.3	3.5	28.0	29.2	29.6
27 Newport News—Hampton	139.3	144.6	145.9	(1)	(1)	(1)	6.2	7.5	7.5	34.6	34.1	32.2
28 Norfolk—Virginia Beach—Portsmouth	260.9	277.9	285.4	(1)	(1)	(1)	16.6	18.3	17.8	27.5	25.0	30.1
29 Northern Virginia ¹⁶	381.1	408.7	425.1	.3	.3	.4	25.8	29.6	30.2	14.3	15.4	16.5
30 Petersburg—Colonial Hgts.—Hopewell	44.8	46.4	46.8	(1)	(1)	(1)	2.3	2.4	2.3	12.8	12.6	12.2
31 Richmond	296.6	315.2	324.9	.3	.4	.4	17.1	19.0	19.0	52.0	53.5	55.4
32 Roanoke	99.7	102.9	104.6	.2	.2	.1	5.7	5.9	6.2	21.0	21.2	20.9
33 WASHINGTON ⁴	1,367.0	1,497.3	(*)	2.3	2.8	(*)	77.6	94.6	(*)	260.0	285.4	(*)
34 Seattle—Everett ⁴	628.9	702.3	(*)	(1)	(1)	(*)	31.2	40.5	(*)	126.1	147.1	(*)
35 Spokane ⁴	114.1	123.8	(*)	(1)	(1)	(*)	6.6	7.6	(*)	15.7	17.7	(*)
36 Tacoma ⁴	125.6	133.9	(*)	(1)	(1)	(*)	6.7	8.4	(*)	20.5	21.7	(*)
37 WEST VIRGINIA	611.6	629.5	645.6	66.7	56.7	66.0	39.0	43.7	40.5	123.8	126.6	126.0
38 Charleston	109.9	112.8	117.2	6.1	5.8	7.2	7.5	7.4	7.8	19.7	15.7	19.5
39 Huntington—Ashland	102.1	106.6	109.8	1.0	.9	1.2	6.7	8.3	8.5	29.3	28.1	29.3
40 Parkersburg—Marietta	54.7	57.2	58.8	.5	.5	.5	3.3	3.8	4.2	17.2	17.6	17.6
41 Wheeling	64.8	65.3	67.7	6.8	6.1	7.4	3.7	3.8	3.6	13.5	12.8	13.7
42 WISCONSIN	1,798.9	1,887.0	1,964.8	2.6	2.6	2.7	73.7	76.5	81.4	540.4	565.7	592.5
43 Appleton—Oshkosh	116.3	121.7	129.9	(1)	(1)	(1)	5.9	5.9	6.4	44.5	47.5	50.5
44 Eau Claire	43.2	45.9	48.1	(1)	(1)	(1)	1.8	2.0	2.0	9.4	5.4	9.0
45 Green Bay	72.5	75.7	78.1	(1)	(1)	(1)	3.6	3.7	3.7	20.7	21.4	21.9
46 Janesville—Beloit	(*)	(*)	53.8	(*)	(*)	(1)	(*)	(*)	1.9	(*)	(*)	21.9
47 Kenosha	40.7	43.2	46.5	(1)	(1)	(1)	1.3	2.0	3.3	16.1	17.0	18.4
48 La Crosse	39.3	41.5	43.1	(1)	(1)	(1)	1.6	1.7	1.9	9.6	10.7	10.6
49 Madison	151.8	160.3	167.8	(1)	(1)	(1)	7.1	7.7	8.0	18.7	19.9	20.0
50 Milwaukee	629.5	656.0	682.1	(1)	(1)	(1)	22.6	23.6	23.8	201.2	211.6	220.2
51 Racine	66.8	69.4	71.4	(1)	(1)	(1)	2.1	2.4	2.3	29.1	30.4	31.6
52 WYOMING	170.5	187.4	202.9	25.3	29.2	32.7	17.0	19.3	22.3	9.0	5.6	10.2
53 Casper	30.7	35.1	39.1	5.9	6.8	7.7	2.9	3.6	4.0	1.7	1.7	1.9
54 Cheyenne	24.6	27.3	28.4	(1)	(1)	(1)	1.8	2.1	2.2	1.6	1.6	1.8
55 VIRGIN ISLANDS	32.2	33.8	35.9	(2)	(2)	(2)	2.5	2.4	2.7	3.1	2.5	3.2

¹ Combined with services.

² Combined with construction.

³ Area included in Chicago—Gary Standard Consolidated Statistical Area.

⁴ Based on 1978 benchmark; not strictly comparable with data published in table B-8.

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

⁶ Subarea of New York—Northeastern New Jersey.

⁷ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁹ Subarea of New York Standard Metropolitan Statistical Area.

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

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

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

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

¹⁴ Total includes data for industry divisions not shown separately.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

1. 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			
1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	
78.3	83.2	87.2	357.2	379.1	388.8	71.1	74.3	77.4	254.5	270.7	286.8	291.2	305.6	314.4	1
6.6	6.7	7.1	30.6	32.4	33.3	8.7	9.5	10.0	25.3	27.0	28.6	29.8	31.9	33.3	2
7.3	7.6	8.0	38.7	40.9	41.1	7.1	7.7	8.0	27.5	29.3	30.1	40.0	41.8	41.7	3
23.8	25.7	27.3	90.8	95.0	96.6	18.7	19.1	19.5	65.9	68.7	71.1	65.2	66.7	66.5	4
17.5	19.1	21.9	74.3	80.6	83.4	20.3	22.3	23.9	62.3	66.8	69.8	59.4	59.8	62.2	5
308.8	329.6	351.7	1,210.5	1,297.6	1,375.4	276.5	295.3	314.5	836.9	898.1	961.3	875.5	923.7	958.7	6
6.6	6.8	7.1	21.1	22.2	22.5	3.5	3.7	3.8	13.4	14.1	14.6	11.4	12.1	12.5	7
6.2	6.6	7.1	42.0	45.7	48.7	11.9	12.8	13.4	32.9	36.7	40.0	73.8	76.5	79.6	8
10.5	10.7	11.1	30.3	32.0	31.9	5.1	5.2	5.3	22.2	23.8	24.6	18.1	18.3	19.5	9
6.2	6.7	6.9	26.1	27.0	28.1	5.2	5.2	5.3	16.8	17.8	19.0	23.6	25.5	25.6	10
78.2	82.8	90.0	321.9	342.8	369.7	88.6	95.0	101.4	206.4	225.1	240.9	161.0	170.6	174.5	11
9.9	10.4	10.9	35.7	37.3	39.2	6.6	7.0	7.3	23.4	24.3	25.1	28.7	31.1	32.6	12
6.1	5.9	6.6	12.1	12.7	12.6	4.3	4.2	4.4	10.1	10.9	11.0	15.9	15.6	15.7	13
85.8	92.9	98.1	285.8	310.0	334.3	68.3	75.2	81.6	227.0	245.2	259.4	132.2	144.3	153.9	14
4.7	5.0	5.0	24.6	25.9	25.6	4.0	4.5	4.7	14.3	15.4	16.4	17.1	18.3	18.6	15
15.0	15.9	17.4	87.8	92.1	95.2	22.8	24.0	24.8	64.5	69.2	72.5	89.8	92.2	93.4	16
3.1	3.1	3.2	14.7	15.4	16.1	3.6	3.8	4.1	12.8	13.2	14.2	11.0	11.2	11.5	17
2.3	2.4	2.4	12.0	12.5	12.4	2.1	2.2	2.3	7.2	7.4	7.6	10.9	11.1	11.0	18
29.2	31.7	34.0	117.8	126.8	133.1	22.3	24.3	26.1	82.3	90.9	97.4	115.8	121.0	123.7	19
23.1	25.1	27.3	87.9	94.3	99.3	18.4	19.8	21.3	56.6	62.7	67.2	84.7	87.3	88.8	20
8.4	8.7	9.0	36.3	39.3	40.6	7.0	7.5	7.7	40.1	41.6	42.5	34.3	35.1	35.5	21
2.1	2.2	2.4	9.8	10.8	11.9	-	-	-	10.0	10.7	11.2	-	-	-	22
.7	.7	.7	2.1	2.2	2.2	-	-	-	2.4	2.6	2.7	-	-	-	23
105.9	107.6	114.3	405.6	428.1	439.9	91.7	97.1	103.3	331.8	357.9	374.6	453.6	482.7	493.6	24
.9	1.0	1.1	6.2	6.2	6.8	.8	.9	1.0	3.0	3.2	3.5	4.3	4.9	4.9	25
2.6	2.5	2.7	10.6	11.5	12.2	2.9	3.1	3.4	8.6	9.6	10.6	8.7	9.7	10.1	26
4.6	4.8	5.1	25.8	27.2	28.1	4.6	4.8	5.0	25.2	26.5	27.0	38.3	39.7	41.0	27
17.7	18.0	19.3	63.5	67.0	69.2	13.3	14.1	14.6	46.5	51.3	53.6	75.8	80.2	80.8	28
26.0	26.9	28.3	90.8	96.1	98.6	23.6	25.2	26.8	89.3	100.2	107.6	111.0	115.0	116.7	29
1.3	1.3	1.5	8.2	8.5	8.4	1.1	1.2	1.3	5.1	5.6	5.8	14.0	14.8	15.3	30
18.2	18.6	19.4	68.5	73.4	74.7	23.3	24.7	26.4	50.9	55.0	56.9	66.3	70.6	72.7	31
9.9	9.1	10.1	24.5	25.8	26.1	5.5	5.8	6.1	18.1	19.0	19.5	14.8	15.9	15.6	32
78.9	85.0	(*)	329.0	364.7	(*)	75.0	84.4	(*)	249.3	276.1	(*)	294.5	304.2	(*)	33
44.1	47.1	(*)	155.8	172.2	(*)	44.4	49.7	(*)	119.2	131.6	(*)	108.1	114.1	(*)	34
7.5	7.8	(*)	31.5	34.0	(*)	7.3	7.9	(*)	25.3	27.7	(*)	20.2	21.1	(*)	35
6.0	6.4	(*)	29.7	32.0	(*)	6.1	6.7	(*)	25.9	27.8	(*)	30.7	30.9	(*)	36
40.7	40.2	43.7	123.4	131.8	132.7	20.0	21.2	21.5	86.9	92.7	95.1	111.0	116.6	120.2	37
9.2	9.3	9.8	25.3	26.8	27.9	4.8	4.9	5.0	18.5	19.6	20.1	18.7	19.3	19.5	38
9.4	9.2	10.1	21.7	23.2	24.1	3.5	3.8	3.9	13.9	14.9	15.4	16.7	17.2	17.3	39
2.5	2.6	2.7	11.8	12.5	12.8	1.9	2.0	2.1	8.2	8.7	9.0	9.5	9.7	10.1	40
3.7	3.6	3.7	14.3	15.0	15.9	2.4	2.5	2.6	12.4	12.8	12.9	7.5	7.6	7.5	41
85.4	88.4	92.3	409.8	426.6	446.2	81.0	85.7	90.7	319.0	337.3	353.7	287.1	298.2	305.4	42
4.2	4.3	4.6	24.0	25.2	27.0	4.5	4.8	5.1	18.3	19.0	20.2	14.8	15.1	16.2	43
2.4	2.5	2.7	11.0	11.8	12.9	1.3	1.5	1.6	8.4	9.0	9.5	8.8	9.7	10.4	44
5.2	5.5	5.8	17.8	18.9	20.0	2.3	2.5	2.4	13.1	13.7	14.1	9.8	10.1	10.2	45
(*)	(*)	2.2	(*)	(*)	11.7	(*)	(*)	1.4	(*)	(*)	8.4	(*)	(*)	6.4	46
1.6	1.4	1.4	7.9	8.3	8.4	.9	.9	1.0	7.2	7.4	7.7	5.8	6.2	6.5	47
2.3	2.3	2.4	10.5	10.9	11.5	1.0	1.0	1.1	8.3	8.6	9.3	5.9	6.2	6.2	48
5.7	5.9	6.1	32.7	34.6	35.5	10.5	11.2	12.1	26.4	28.3	30.7	50.7	52.7	55.5	49
31.9	32.9	34.8	142.7	147.6	150.3	34.3	36.1	38.1	123.0	131.0	137.7	73.7	75.3	77.3	50
2.3	2.2	2.1	12.4	12.9	13.4	2.0	2.1	2.3	10.5	10.8	11.1	8.5	8.6	8.4	51
13.3	14.8	16.5	38.1	41.9	45.2	5.7	6.4	7.1	24.1	27.2	29.1	38.0	39.1	39.6	52
2.2	2.6	2.8	8.2	9.3	10.8	1.3	1.4	1.5	4.2	5.0	5.2	4.5	4.6	5.1	53
3.2	3.6	4.2	5.9	6.4	7.1	1.4	1.5	1.5	3.9	4.3	4.1	6.7	7.5	7.5	54
1.7	1.8	2.1	6.5	6.8	7.2	1.4	1.4	1.4	5.2	5.6	5.9	11.9	12.8	13.4	55

¹⁵ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

NOTE: Data are adjusted to 1979 benchmark levels except for the following: Chicago-Gary, Ill.-In. (Illinois portion, March 1977, Indiana portion, March 1978); Indiana and areas (December 1978); Maryland and Baltimore (March 1978); St. Louis, Missouri (March 1978); New Jersey and areas (March 1978); New York—Northeastern New Jersey (March 1978); Virginia and areas (December 1978); and West Virginia and areas (September 1978).

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

2. 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		
	1977	1978	1979	1977	1978	1979	1977	1978	1979
ALABAMA	\$198.04	\$219.24	\$242.16	40.5	40.6	40.7	\$4.89	\$5.40	\$5.95
Birmingham	234.77	257.92	285.82	40.2	40.3	40.6	5.84	6.40	7.04
Mobile	246.61	266.98	299.39	42.3	41.2	40.9	5.83	6.48	7.32
ALASKA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
ARIZONA	222.56	243.01	268.77	40.1	40.3	40.6	5.55	6.03	6.62
Phoenix	221.90	244.02	268.21	40.2	40.4	40.7	5.52	6.04	6.59
Tucson	219.74	225.61	247.26	39.1	39.1	39.0	5.62	5.77	6.34
ARKANSAS	170.71	185.50	205.52	39.7	39.3	39.6	4.30	4.72	5.19
Fayetteville—Springdale	155.22	168.67	189.48	39.8	39.5	40.4	3.90	4.27	4.69
Fort Smith	171.77	193.94	209.97	38.6	39.1	39.1	4.45	4.96	5.37
Little Rock—North Little Rock	197.69	212.07	234.40	40.1	39.2	40.0	4.93	5.41	5.86
Pine Bluff	211.74	246.69	280.81	41.6	41.6	42.1	5.09	5.93	6.67
CALIFORNIA	240.60	257.84	280.50	40.1	40.1	39.9	6.00	6.43	7.03
Anaheim—Santa Ana—Garden Grove	222.75	240.54	257.28	40.5	40.7	40.2	5.50	5.91	6.40
Bakersfield	248.35	271.55	301.60	39.8	39.7	40.0	6.24	6.84	7.54
Fresno	216.76	231.67	250.24	39.7	39.2	39.1	5.46	5.91	6.40
Los Angeles—Long Beach	224.72	241.38	264.11	40.2	40.5	40.2	5.59	5.96	6.57
Modesto	240.58	256.71	270.78	39.7	39.8	39.3	6.06	6.45	6.89
Oxnard—Simi Valley—Ventura	202.93	220.25	246.09	39.1	39.4	39.5	5.19	5.59	6.23
Riverside—San Bernardino—Ontario	242.59	265.86	289.92	39.9	40.1	40.1	6.08	6.63	7.23
Sacramento	259.12	277.38	298.74	39.5	39.4	39.0	6.56	7.04	7.66
Salinas—Seaside—Monterey	224.79	247.15	261.20	38.1	38.2	37.8	5.90	6.47	6.91
San Diego	230.29	242.35	259.11	38.9	38.9	38.5	5.92	6.23	6.73
San Francisco—Oakland	291.67	310.44	333.32	39.9	39.8	39.4	7.31	7.80	8.46
San Jose	260.18	276.34	297.19	40.4	40.4	40.6	6.44	6.84	7.32
Santa Barbara—Santa Maria—Lompoc	213.19	224.91	239.36	39.7	37.8	37.4	5.37	5.95	6.40
Santa Rosa	220.02	232.99	251.08	38.0	37.7	38.1	5.79	6.18	6.59
Stockton	265.73	281.95	300.17	39.9	39.6	39.6	6.66	7.12	7.58
Vallejo—Fairfield—Napa	239.40	268.19	296.82	38.0	38.7	38.8	6.30	6.93	7.65
COLORADO	228.52	244.05	264.60	39.4	39.3	39.2	5.80	6.21	6.75
Denver—Boulder	223.83	240.07	263.25	39.2	39.1	39.0	5.71	6.14	6.75
CONNECTICUT	230.74	250.32	270.06	41.5	42.0	42.0	5.56	5.96	6.43
Bridgeport	237.71	263.61	285.55	42.6	43.5	43.2	5.58	6.06	6.61
Hartford	254.58	275.63	301.74	42.5	42.8	42.8	5.99	6.44	7.05
New Britain	239.98	257.98	281.85	42.4	42.5	42.9	5.66	6.07	6.57
New Haven—West Haven	228.07	249.67	269.86	40.8	41.2	41.2	5.59	6.06	6.55
Stamford	235.20	250.62	274.77	42.0	41.7	43.0	5.60	6.01	6.39
Waterbury	197.30	216.11	236.46	41.8	41.8	42.0	4.72	5.17	5.63
DELAWARE	235.22	263.20	279.18	39.6	40.0	39.6	5.94	6.58	7.05
Wilmington	271.20	297.31	316.40	40.0	39.8	39.5	6.78	7.47	8.01
DISTRICT OF COLUMBIA:									
Washington SMSA ¹	211.20	262.75	303.41	38.4	39.1	39.2	5.50	6.72	7.74
FLORIDA	188.44	207.36	221.94	40.7	40.9	40.5	4.63	5.07	5.48
Fort Lauderdale—Hollywood	185.73	194.17	210.71	41.0	40.2	40.6	4.53	4.83	5.19
Jacksonville	223.45	243.36	259.31	41.0	40.9	40.9	5.45	5.95	6.34
Lakeland—Winter Haven	(*)	231.69	259.92	(*)	44.3	45.6	(*)	5.23	5.70
Miami	161.57	177.41	193.52	39.6	39.6	39.9	4.08	4.48	4.85
Orlando	203.50	219.66	234.11	41.7	42.0	41.0	4.88	5.23	5.71
Pensacola	238.57	269.14	295.99	42.3	43.2	43.4	5.64	6.23	6.82
Tampa—St. Petersburg	197.55	213.20	230.20	40.9	41.0	40.6	4.83	5.20	5.67
West Palm Beach—Boca Raton	226.08	265.31	247.42	42.1	43.0	41.1	5.37	6.17	6.02
GEORGIA	180.63	195.69	207.64	40.5	40.1	39.4	4.46	4.88	5.27
Atlanta	219.37	227.55	235.63	40.4	39.3	37.7	5.43	5.79	6.25
Savannah	239.33	267.07	282.36	43.2	42.8	41.1	5.54	6.24	6.87
HAWAII	209.38	227.74	244.35	38.0	38.6	38.3	5.51	5.90	6.38
Honolulu	206.42	222.26	240.53	37.6	37.8	37.7	5.49	5.88	6.36
IDAHO	228.73	253.36	265.04	39.3	38.8	38.3	5.82	6.53	6.92
Boise City	207.50	233.09	235.84	39.6	38.4	38.1	5.24	6.07	6.19

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

2. 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		
	1977	1978	1979	1977	1978	1979	1977	1978	1979
ILLINOIS	\$254.91	\$271.42	\$296.66	40.6	40.1	40.7	\$6.28	\$6.76	\$7.30
Bloomington—Normal	192.02	234.46	272.46	37.7	39.7	41.8	5.10	5.90	6.52
Champaign—Urbana—Rantoul	240.12	253.67	264.19	39.7	38.8	39.0	6.05	6.54	6.77
Chicago SMSA	258.92	268.97	283.08	41.5	40.9	40.2	6.24	6.58	7.03
Davenport—Rock Island—Moline ²	271.57	277.27	335.05	40.6	38.2	38.9	6.69	7.25	8.61
Decatur	275.01	302.10	327.72	40.9	41.7	41.3	6.72	7.24	7.93
Peoria	287.52	317.44	344.26	38.0	38.2	38.7	7.56	8.31	8.89
Rockford	253.95	282.70	300.22	42.0	42.3	41.8	6.05	6.68	7.18
Springfield	294.24	306.86	327.99	42.8	42.3	42.7	6.88	7.25	7.68
INDIANA	271.92	295.40	315.94	41.2	41.2	40.5	6.60	7.17	7.74
Gary—Hammond—East Chicago	344.81	395.12	423.95	41.0	41.9	41.2	8.41	9.43	10.29
Indianapolis	282.15	297.20	315.70	41.8	41.8	41.0	6.75	7.11	7.70
IOWA	257.84	280.70	313.88	40.1	40.1	40.5	6.43	7.00	7.75
Cedar Rapids	254.47	287.16	318.78	40.2	41.2	41.4	6.33	6.97	7.70
Des Moines	267.33	281.82	319.93	38.8	38.5	39.4	6.89	7.32	8.12
Dubuque	321.98	338.08	372.08	40.5	40.2	40.4	7.95	8.41	9.21
Sioux City	212.80	249.71	285.23	38.0	39.7	41.1	5.60	6.29	6.94
Waterloo—Cedar Falls	334.02	372.75	422.67	41.7	42.6	43.8	8.01	8.75	9.65
KANSAS	(*)	(*)	276.22	(*)	(*)	40.8	(*)	(*)	6.77
Topeka	(*)	(*)	293.40	(*)	(*)	41.5	(*)	(*)	7.07
Wichita	(*)	(*)	296.49	(*)	(*)	41.7	(*)	(*)	7.11
KENTUCKY	224.75	247.90	266.74	39.5	39.6	39.4	5.69	6.26	6.77
Lexington—Fayette	(*)	(*)	262.01	(*)	(*)	39.4	(*)	(*)	6.65
Louisville	260.90	283.61	309.06	40.2	40.4	40.4	6.49	7.02	7.65
LOUISIANA	240.35	267.07	287.86	41.8	41.6	41.3	5.75	6.42	6.97
Baton Rouge	303.02	338.09	365.51	42.8	43.4	42.7	7.08	7.79	8.56
New Orleans	233.74	253.04	278.47	40.3	39.6	40.3	5.80	6.39	6.91
Shreveport	216.42	237.63	256.94	41.7	40.9	40.4	5.19	5.81	6.36
MAINE	179.90	197.38	217.34	39.8	40.2	40.1	4.52	4.91	5.42
Lewiston—Auburn	143.99	160.09	175.68	37.4	38.3	37.7	3.85	4.18	4.66
Portland	182.62	198.09	210.14	39.7	40.1	39.5	4.60	4.94	5.32
MARYLAND	241.40	257.75	283.60	39.9	39.9	40.0	6.05	6.46	7.09
Baltimore	254.06	276.34	300.98	40.2	40.4	40.4	6.32	6.84	7.45
MASSACHUSETTS	204.69	222.71	(*)	39.9	40.2	(*)	5.13	5.54	(*)
Boston	225.60	244.21	(*)	40.0	40.1	(*)	5.64	6.09	(*)
Brockton	159.38	173.74	(*)	37.5	38.1	(*)	4.25	4.56	(*)
Fall River	143.97	158.92	(*)	35.2	36.2	(*)	4.09	4.39	(*)
Lawrence—Haverhill	200.59	215.60	(*)	39.8	39.2	(*)	5.04	5.50	(*)
Lowell	175.63	193.85	(*)	38.6	39.4	(*)	4.55	4.92	(*)
New Bedford	169.65	188.86	(*)	37.7	38.7	(*)	4.50	4.88	(*)
Springfield—Chicopee—Holyoke	215.69	227.98	(*)	41.4	41.3	(*)	5.21	5.52	(*)
Worcester	210.40	231.24	(*)	40.0	40.8	(*)	5.26	5.67	(*)
MICHIGAN	(*)	(*)	359.72	(*)	(*)	41.2	(*)	(*)	8.73
Ann Arbor	(*)	(*)	390.59	(*)	(*)	42.4	(*)	(*)	9.21
Battle Creek	(*)	(*)	352.72	(*)	(*)	40.9	(*)	(*)	8.62
Bay City	(*)	(*)	319.15	(*)	(*)	41.4	(*)	(*)	7.71
Detroit	(*)	(*)	393.47	(*)	(*)	42.3	(*)	(*)	9.30
Flint	(*)	(*)	405.63	(*)	(*)	41.8	(*)	(*)	9.70
Grand Rapids	(*)	(*)	294.68	(*)	(*)	40.5	(*)	(*)	7.28
Jackson	(*)	(*)	323.48	(*)	(*)	42.0	(*)	(*)	7.70
Kalamazoo—Portage	(*)	(*)	321.76	(*)	(*)	40.2	(*)	(*)	8.00
Lansing—East Lansing	(*)	(*)	372.41	(*)	(*)	40.3	(*)	(*)	9.24
Muskegon—Norton Shores—Muskegon Heights	(*)	(*)	305.68	(*)	(*)	40.3	(*)	(*)	7.59
Saginaw	(*)	(*)	404.66	(*)	(*)	41.3	(*)	(*)	9.60
MINNESOTA	238.80	258.89	277.20	40.0	40.2	40.0	5.97	6.44	6.53
Duluth—Superior	216.61	236.56	260.95	39.1	39.1	39.3	5.54	6.05	6.64
Minneapolis—St. Paul	257.75	278.80	297.34	40.4	40.7	40.4	6.38	6.85	7.36
St. Cloud	(*)	196.60	209.41	(*)	38.1	37.8	(*)	5.16	5.54

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

2. 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		
	1977	1978	1979	1977	1978	1979	1977	1978	1979
MISSISSIPPI	\$166.42	\$181.94	\$196.02	40.1	39.9	39.6	\$4.15	\$4.56	\$4.55
Jackson.....	184.09	203.61	223.02	41.0	41.3	41.3	4.49	4.93	5.40
MISSOURI	231.15	248.40	264.65	40.2	40.0	39.5	5.75	6.21	6.70
Kansas City.....	263.04	281.48	304.80	41.1	40.5	40.0	6.40	6.95	7.62
St. Joseph.....	212.13	224.58	249.80	40.1	39.4	39.4	5.29	5.70	6.34
St. Louis.....	268.79	289.87	303.11	41.1	41.0	40.2	6.54	7.07	7.54
Springfield.....	189.83	207.48	234.82	38.9	39.0	39.4	4.88	5.32	5.96
MONTANA	272.95	333.49	362.08	41.8	42.7	42.9	6.53	7.81	8.44
NEBRASKA	219.91	239.61	269.69	40.8	41.1	41.3	5.39	5.83	6.53
Lincoln.....	210.43	234.35	259.25	38.4	38.8	39.4	5.48	6.04	6.58
Omaha.....	238.79	258.49	280.66	41.1	40.9	40.5	5.81	6.32	6.93
NEVADA	236.68	251.79	(*)	38.8	38.5	(*)	6.10	6.54	(*)
Las Vegas.....	301.26	318.00	(*)	41.1	39.8	(*)	7.33	7.99	(*)
NEW HAMPSHIRE ³	182.40	198.19	(*)	40.0	40.2	(*)	4.56	4.93	(*)
Manchester.....	163.86	175.95	(*)	39.2	39.1	(*)	4.18	4.50	(*)
Nashua.....	206.00	222.19	(*)	41.2	41.3	(*)	5.00	5.38	(*)
NEW JERSEY	239.79	255.44	277.36	41.3	41.2	41.7	5.80	6.20	6.66
Atlantic City.....	186.29	179.48	199.60	37.5	38.2	38.5	4.96	4.70	5.18
Camden ⁴	228.51	249.86	267.98	40.1	40.5	40.9	5.69	6.17	6.55
Hackensack ⁵	226.91	244.96	258.57	42.3	42.7	42.6	5.37	5.73	6.07
Jersey City ⁶	230.15	248.65	271.73	40.2	40.0	40.9	5.73	6.21	6.64
New Brunswick—Perth Amboy—Sayreville ⁷	259.15	273.12	300.46	42.1	40.8	41.0	6.16	6.69	7.33
Newark ⁸	246.66	257.49	281.72	41.9	41.6	42.3	5.89	6.18	6.66
Paterson—Clifton—Passaic ⁹	225.86	242.81	259.41	40.8	40.9	41.2	5.54	5.94	6.29
Trenton.....	251.37	261.73	281.74	41.6	40.5	40.8	6.04	6.46	6.91
NEW MEXICO	171.88	187.77	212.66	38.8	39.2	39.6	4.43	4.79	5.37
Albuquerque.....	175.11	190.16	214.71	39.0	39.7	39.8	4.49	4.79	5.40
NEW YORK	224.53	241.98	260.17	39.6	39.8	39.6	5.67	6.08	6.57
Albany—Schenectady—Troy.....	245.83	263.81	278.59	40.7	40.4	40.2	6.04	6.53	6.93
Binghamton.....	202.71	226.05	243.31	40.3	41.1	41.1	5.03	5.50	5.92
Buffalo.....	304.08	322.92	347.71	42.0	41.4	41.1	7.24	7.80	8.46
Elmira.....	222.86	242.61	264.14	40.3	40.3	40.7	5.53	6.02	6.49
Monroe County ⁴	292.88	316.68	348.19	41.9	42.0	41.8	6.99	7.54	8.33
Nassau—Suffolk ⁷	215.17	224.97	244.95	39.7	39.4	39.7	5.42	5.71	6.17
New York—Northeastern New Jersey.....	216.46	229.89	(*)	39.5	39.5	(*)	5.48	5.82	(*)
New York and Nassau—Suffolk ⁵	197.84	209.38	225.93	37.9	38.0	38.1	5.22	5.51	5.93
New York SMSA ⁷	196.65	205.84	221.30	37.6	37.7	37.7	5.23	5.46	5.67
New York City ⁸	193.07	202.00	217.46	37.2	37.2	37.3	5.19	5.43	5.63
Poughkeepsie.....	235.19	249.57	264.39	42.3	42.3	42.1	5.56	5.90	6.28
Rochester.....	276.47	297.74	327.02	41.7	41.7	41.5	6.63	7.14	7.68
Rockland County ⁹	222.60	242.28	250.70	42.0	41.7	40.5	5.30	5.81	6.19
Syracuse.....	251.93	271.41	291.58	41.3	41.5	41.3	6.10	6.54	7.06
Utica—Rome.....	213.59	232.23	250.26	40.3	40.6	40.3	5.30	5.72	6.21
Westchester County ⁹	220.70	240.02	248.88	40.2	41.1	40.6	5.49	5.84	6.13
NORTH CAROLINA	162.36	177.91	192.85	39.6	39.8	39.6	4.10	4.47	4.87
Asheville.....	160.39	175.60	191.75	39.8	40.0	40.2	4.03	4.39	4.77
Charlotte—Gastonia.....	167.28	183.64	197.80	40.8	40.9	40.7	4.10	4.49	4.66
Greensboro—Winston-Salem—High Point.....	176.22	192.55	210.14	39.6	39.7	39.5	4.45	4.85	5.32
Raleigh—Durham.....	182.75	200.40	219.85	39.3	40.0	39.9	4.65	5.01	5.51
NORTH DAKOTA	200.33	220.34	234.42	38.6	39.7	39.2	5.19	5.55	5.98
Fargo—Moorhead.....	215.34	237.77	251.68	38.8	39.3	38.9	5.55	6.05	6.47
OHIO	283.08	306.91	325.36	42.0	42.1	41.5	6.74	7.29	7.84
Akron.....	285.53	304.14	321.57	42.3	42.3	41.6	6.75	7.19	7.73
Canton.....	273.14	304.67	330.88	39.7	40.3	40.9	6.88	7.56	8.09
Cincinnati.....	260.83	286.70	303.37	41.6	42.1	41.5	6.27	6.81	7.31
Cleveland.....	292.75	321.75	337.60	42.8	42.9	42.2	6.84	7.50	8.00
Columbus.....	245.02	264.62	282.71	40.3	40.4	40.1	6.08	6.55	7.05
Dayton.....	301.02	315.86	336.80	43.5	42.8	42.1	6.92	7.38	8.00
Toledo.....	298.90	319.27	332.93	42.7	42.4	40.9	7.00	7.53	8.14
Youngstown—Warren.....	313.50	353.56	377.29	40.4	41.4	40.7	7.76	8.54	9.27

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

2. 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		
	1977	1978	1979	1977	1978	1979	1977	1978	1979
OKLAHOMA	\$214.52	\$233.56	\$264.46	40.4	40.2	40.5	\$5.31	\$5.81	\$6.53
Oklahoma City	212.22	230.00	269.10	40.5	40.0	41.4	5.24	5.75	6.50
Tulsa	229.77	248.40	283.20	40.1	40.0	40.4	5.73	6.21	7.01
OREGON	257.46	281.97	304.92	38.6	39.0	38.5	6.67	7.23	7.92
Eugene—Springfield	280.89	315.09	331.35	40.3	40.5	39.4	6.97	7.78	8.41
Jackson County	261.58	285.64	313.56	39.1	38.6	39.0	6.69	7.40	8.41
Portland	247.04	266.19	292.59	38.3	38.3	37.9	6.45	6.95	7.72
PENNSYLVANIA	231.08	254.80	278.10	39.5	40.0	39.9	5.85	6.37	6.57
Allentown—Bethlehem—Easton	225.76	248.30	277.29	38.2	38.2	38.3	5.91	6.50	7.24
Altoona	190.12	208.79	235.35	38.1	38.1	38.9	4.99	5.48	6.05
Delaware Valley ⁹	240.98	262.94	284.80	39.7	39.9	40.0	6.07	6.59	7.12
Erie	242.67	263.33	288.29	41.2	41.6	41.6	5.89	6.33	6.93
Harrisburg	206.19	229.25	264.55	39.5	39.8	40.7	5.22	5.76	6.50
Johnstown	249.60	274.69	299.44	39.0	40.1	39.4	6.40	6.85	7.60
Lancaster	205.65	224.80	246.04	39.7	40.0	40.6	5.18	5.62	6.06
Northeast Pennsylvania	167.50	184.76	195.98	36.1	37.1	36.7	4.64	4.98	5.34
Philadelphia SMSA	239.60	261.20	281.50	39.8	40.0	40.1	6.02	6.53	7.02
Pittsburgh	288.16	313.03	345.17	40.7	40.6	40.8	7.08	7.71	8.46
Reading	210.75	226.20	248.71	39.1	38.6	38.5	5.39	5.86	6.46
Scranton ¹⁰	176.34	194.78	195.08	37.6	38.8	37.3	4.69	5.02	5.23
Wilkes-Barre—Hazleton ¹¹	160.30	176.58	195.84	35.0	35.6	36.2	4.58	4.96	5.41
Williamsport	201.63	226.06	247.43	39.0	39.8	39.4	5.17	5.68	6.28
York	212.90	238.11	254.81	41.1	41.7	41.5	5.18	5.71	6.14
RHODE ISLAND	171.65	183.22	199.41	39.1	38.9	39.1	4.39	4.71	5.10
Providence—Warwick—Pawtucket	172.92	185.02	199.64	39.3	39.2	39.3	4.40	4.72	5.08
SOUTH CAROLINA	173.77	190.13	208.08	40.6	40.8	40.8	4.28	4.66	5.10
Charleston—North Charleston	196.94	219.12	235.82	41.2	41.5	40.8	4.78	5.28	5.78
Columbia	174.80	184.14	204.97	40.0	39.6	39.8	4.37	4.65	5.15
Greenville—Spartanburg	172.53	188.44	205.54	40.5	40.7	40.7	4.26	4.63	5.05
SOUTH DAKOTA	190.21	216.42	238.83	39.3	41.7	41.9	4.84	5.19	5.70
Rapid City	168.49	184.87	(*)	40.6	36.9	(*)	4.15	5.01	(*)
Sioux Falls	241.36	276.35	(*)	41.4	44.5	(*)	5.83	6.21	(*)
TENNESSEE	188.14	203.15	220.73	40.2	39.6	39.7	4.68	5.13	5.56
Chattanooga	198.36	209.44	224.62	40.9	40.2	40.4	4.85	5.21	5.56
Knoxville	223.58	238.58	260.98	40.8	40.3	40.4	5.48	5.92	6.46
Memphis	218.83	237.55	250.22	40.6	40.4	40.1	5.39	5.88	6.24
Nashville—Davidson	203.71	220.70	237.21	40.1	40.2	39.8	5.08	5.49	5.96
TEXAS	222.76	242.84	265.51	41.1	41.3	41.1	5.42	5.88	6.46
Amarillo	233.11	238.43	252.17	43.9	42.2	39.9	5.31	5.65	6.32
Austin	180.46	188.63	201.14	41.2	42.2	40.8	4.38	4.47	4.93
Beaumont—Port Arthur—Orange	313.47	346.06	383.04	40.5	41.1	42.0	7.74	8.42	9.12
Corpus Christi	249.67	284.39	283.77	41.2	41.7	39.8	6.06	6.82	7.13
Dallas—Fort Worth	205.44	223.30	245.83	40.6	40.6	40.7	5.06	5.50	6.04
El Paso	150.48	179.78	191.48	39.6	39.6	39.4	3.80	4.54	4.86
Galveston—Texas City	344.68	387.13	407.89	42.5	43.4	42.4	8.11	8.92	9.62
Houston	277.95	305.81	333.94	42.5	43.5	43.2	6.54	7.03	7.73
Lubbock	163.61	179.34	204.85	40.7	40.3	41.3	4.02	4.45	4.96
San Antonio	170.15	175.72	190.40	41.0	39.4	40.0	4.15	4.46	4.76
Waco	184.01	206.96	224.64	40.8	40.5	39.9	4.51	5.11	5.63
Wichita Falls	191.39	213.06	235.20	39.3	40.2	40.0	4.67	5.30	5.86
UTAH	207.15	224.36	244.53	40.0	39.5	39.0	5.18	5.68	6.27
Salt Lake City—Ogden	196.04	216.00	230.69	39.8	40.0	39.1	4.93	5.40	5.90
VERMONT	191.76	209.10	225.62	40.8	41.0	40.8	4.70	5.10	5.53
Burlington	223.12	239.41	249.30	42.5	42.6	41.9	5.25	5.62	5.95
Springfield	217.01	242.50	266.91	41.1	42.4	42.3	5.28	5.76	6.31
VIRGINIA	187.13	203.38	221.53	39.9	39.8	39.7	4.69	5.11	5.58
Bristol	167.09	183.23	204.50	38.5	37.7	37.8	4.34	4.86	5.41
Lynchburg	186.26	207.43	224.32	39.8	40.2	40.2	4.68	5.16	5.58
Norfolk—Virginia Beach—Portsmouth	213.72	232.93	255.64	41.5	41.3	41.1	5.15	5.64	6.22
Northern Virginia ^{12, 13}	213.86	238.98	250.80	40.2	40.3	40.0	5.32	5.93	6.27
Petersburg—Colonial Heights—Hopewell	223.62	244.29	266.85	39.3	38.9	38.9	5.69	6.28	6.86

See footnotes at end of table.

**ESTABLISHMENTS DATA
STATE AND AREA HOURS AND EARNINGS**

2. 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		
	1977	1978	1979	1977	1978	1979	1977	1978	1979
VIRGINIA—Continued									
Richmond	\$218.96	\$253.49	\$275.60	39.1	40.3	40.0	\$5.60	\$6.29	\$6.89
Roanoke	165.90	185.07	206.80	39.5	39.8	40.0	4.20	4.65	5.17
WASHINGTON	267.74	297.11	(*)	39.2	39.3	(*)	6.83	7.56	(*)
Seattle—Everett	272.74	301.80	(*)	39.3	39.4	(*)	6.94	7.66	(*)
Spokane	233.43	256.37	(*)	39.1	39.2	(*)	5.97	6.54	(*)
Tacoma	271.07	299.90	(*)	39.4	39.1	(*)	6.88	7.67	(*)
WEST VIRGINIA	239.37	264.53	293.44	39.5	39.6	39.6	6.06	6.68	7.41
Charleston	277.97	307.40	326.04	41.8	42.4	41.8	6.65	7.25	7.80
Huntington—Ashland	258.57	289.87	323.44	39.6	39.6	39.3	6.63	7.32	8.23
Parkersburg—Marietta	253.03	280.17	309.59	40.1	40.9	41.5	6.31	6.85	7.46
Wheeling	249.46	281.88	306.40	40.3	40.5	40.0	6.19	6.96	7.66
WISCONSIN	250.06	274.21	297.00	40.6	41.0	40.9	6.16	6.69	7.27
Appleton—Oshkosh	246.21	270.21	295.20	42.0	42.1	41.9	5.86	6.43	7.05
Eau Claire	254.08	267.40	288.08	41.2	40.7	40.5	6.16	6.57	7.12
Green Bay	254.98	279.72	304.51	42.1	41.8	41.7	6.05	6.69	7.29
Janesville—Beloit	(*)	(*)	312.40	(*)	(*)	40.0	(*)	(*)	7.81
Kenosha	283.15	309.06	350.14	39.6	39.9	41.0	7.15	7.75	8.54
La Crosse	210.78	218.43	240.46	40.2	40.0	40.3	5.24	5.46	5.97
Madison	268.95	275.56	288.92	40.1	39.9	39.6	6.70	6.91	7.30
Milwaukee	275.40	301.78	325.10	40.7	41.1	40.9	6.76	7.35	7.96
Racine	265.25	295.09	320.56	40.3	41.3	41.8	6.59	7.15	7.67
WYOMING	226.82	238.32	248.25	39.8	38.6	37.5	5.70	6.18	6.62
Casper	282.19	283.87	320.78	40.5	39.7	39.7	6.97	7.16	8.08
VIRGIN ISLANDS	(*)	250.31	274.03	(*)	40.9	40.9	(*)	6.12	6.70

¹ Data for 1978 not comparable with 1979 or 1977.

² Data for 1979 not comparable with earlier years.

³ Based on 1978 benchmark; not strictly comparable with data published in table C-13.

⁴ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

⁵ Subarea of New York—Northeastern New Jersey.

⁶ Subarea of Rochester Standard Metropolitan Statistical Area.

⁷ Area included in New York and Nassau—Suffolk combined SMSA's.

⁸ Subarea of New York Standard Metropolitan Statistical Area.

⁹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia, Pennsylvania.

¹⁰ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

¹¹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹² 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.

¹³ Data for 1977 not strictly comparable with later years.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

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	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
ALABAMA:												
Birmingham	2.8	2.7	1.9	1.8	0.7	0.7	2.6	3.0	1.2	1.1	0.6	1.0
Mobile	7.0	7.0	2.4	2.3	4.4	4.5	7.2	6.4	2.0	1.5	4.3	4.0
ALASKA	16.3	18.4	12.6	13.8	3.4	3.4	15.5	14.5	6.6	5.2	7.4	7.0
ARIZONA	5.1	5.3	4.4	4.7	.5	.5	4.4	4.6	2.7	2.9	.5	.5
Phoenix	5.3	5.5	4.6	4.9	.5	.5	4.5	4.7	2.8	2.9	.4	.5
ARKANSAS	6.7	6.2	5.6	5.0	.7	.8	6.7	6.3	4.6	4.1	1.0	1.1
Fort Smith	7.5	5.7	6.2	4.1	.8	.9	7.3	5.9	5.1	3.7	.8	.9
Little Rock-North Little Rock	5.2	4.5	4.5	3.7	.5	.7	5.6	4.8	3.3	2.7	1.0	.9
Pine Bluff	4.6	3.4	3.6	2.8	.6	.4	4.8	3.4	3.1	2.2	1.0	.5
COLORADO	5.1	(*)	4.4	(*)	.5	(*)	4.3	(*)	2.8	(*)	.6	(*)
Denver-Boulder	5.1	(*)	4.6	(*)	.3	(*)	4.3	(*)	3.0	(*)	.4	(*)
CONNECTICUT	2.6	2.8	2.1	2.2	.3	.3	2.4	2.6	1.3	1.4	.5	.4
Hartford	2.6	2.9	2.1	2.5	.2	.2	1.9	2.3	1.1	1.4	.3	.3
DELAWARE	2.9	3.0	1.4	1.3	.7	1.3	2.6	3.3	.9	.9	1.1	1.8
Wilmington	2.6	2.6	1.1	.9	.8	1.3	2.3	3.0	.6	.6	1.1	1.9
FLORIDA	5.9	5.5	4.9	4.7	.8	.6	5.4	5.3	3.3	3.3	1.0	.9
Fort Lauderdale-Hollywood	6.5	(*)	6.0	(*)	.4	(*)	5.7	(*)	4.1	(*)	.4	(*)
Jacksonville	6.0	(*)	4.1	(*)	1.9	(*)	5.5	(*)	2.4	(*)	1.9	(*)
Miami	5.5	(*)	4.9	(*)	.5	(*)	4.5	(*)	3.2	(*)	.7	(*)
Orlando	5.2	(*)	4.6	(*)	.5	(*)	4.5	(*)	2.8	(*)	.8	(*)
Pensacola	1.5	(*)	1.3	(*)	.2	(*)	1.7	(*)	.9	(*)	.3	(*)
Tampa-St. Petersburg	7.2	(*)	6.0	(*)	1.0	(*)	7.1	(*)	4.5	(*)	1.5	(*)
West Palm Beach-Boca Raton	5.2	(*)	4.3	(*)	.9	(*)	4.5	(*)	2.5	(*)	.8	(*)
GEORGIA	4.0	3.9	3.3	3.2	.4	.4	3.9	3.9	2.6	2.6	.4	.5
Atlanta	3.5	3.4	2.7	2.8	.5	.4	3.1	3.4	1.8	1.9	.5	.8
HAWAII ²	2.9	3.2	1.4	1.8	1.2	1.0	2.9	3.4	1.0	1.2	1.3	1.4
IDAHO ³	6.3	5.3	5.0	3.7	1.1	1.4	6.4	5.9	3.8	2.7	1.6	1.9
ILLINOIS:												
Chicago SMSA	3.5	3.3	2.9	2.7	.3	.3	3.3	3.5	1.8	1.9	.4	.5
Davenport-Rock Island-Moline	-	3.4	-	2.6	-	.2	-	3.3	-	1.4	-	.5
Decatur	-	2.7	-	1.8	-	.6	-	2.4	-	.9	-	.7
Peoria	-	1.6	-	1.1	-	.4	-	2.1	-	.7	-	.9
Rockford	-	3.2	-	2.8	-	.1	-	3.3	-	2.0	-	.5
INDIANA ⁴	3.5	2.9	2.5	1.8	.5	.7	3.4	3.6	1.6	1.3	1.0	1.5
Indianapolis ⁵	3.1	3.2	2.0	2.0	.3	.7	2.7	3.3	1.3	1.3	.5	1.1
IOWA	3.5	(*)	2.6	(*)	.7	(*)	3.3	(*)	1.8	(*)	.9	(*)
Cedar Rapids	2.8	(*)	1.8	(*)	.9	(*)	2.5	(*)	1.0	(*)	1.0	(*)
Des Moines	4.9	(*)	3.1	(*)	.9	(*)	4.5	(*)	2.3	(*)	1.0	(*)
KANSAS	5.4	5.6	4.7	4.5	.5	.9	4.9	5.4	3.3	3.2	.7	1.1
Topeka	3.5	4.0	2.8	3.2	.6	.7	3.8	4.2	2.0	2.1	1.1	1.3
Wichita	6.2	5.5	5.3	4.9	.5	.4	4.7	4.5	3.2	3.1	.2	.3
KENTUCKY	3.4	3.3	2.3	2.1	.7	.7	3.4	3.6	1.6	1.6	1.0	1.1
Lexington-Fayette	-	3.5	-	2.0	-	.8	-	3.6	-	1.5	-	1.2
Louisville	2.7	2.3	1.6	1.2	.4	.5	2.6	2.4	1.0	.9	.5	.5
LOUISIANA:												
New Orleans	5.1	5.0	4.2	4.3	.7	.5	4.6	5.1	2.5	2.9	1.1	.9
MAINE	6.1	5.5	4.7	4.0	1.1	1.2	5.6	5.7	3.4	3.0	1.3	1.7
Portland	4.6	4.1	3.9	3.4	.5	.4	4.5	4.3	2.8	2.7	.8	.7
MARYLAND	3.1	3.0	1.8	1.9	1.1	1.0	2.9	3.2	1.1	1.2	1.1	1.3
Baltimore	3.1	2.8	1.7	1.6	1.2	1.0	2.9	3.0	1.0	.9	1.3	1.4
MASSACHUSETTS	3.2	(*)	2.9	(*)	.7	(*)	3.6	(*)	1.9	(*)	.8	(*)
Boston	3.4	(*)	2.6	(*)	.5	(*)	3.1	(*)	1.5	(*)	.7	(*)

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
MICHIGAN	2.3	2.5	1.6	1.5	0.5	0.7	2.2	3.4	0.9	0.9	0.8	1.7
Detroit	2.6	2.2	1.7	1.2	.5	.6	2.5	3.2	1.2	.8	.9	1.7
Flint	1.9	1.7	1.1	1.3	.2	.2	2.0	2.6	.5	.4	.5	1.4
Grand Rapids	3.7	3.0	2.7	2.2	.5	.7	3.1	3.5	1.6	1.5	.7	1.3
Lansing—East Lansing	2.5	1.4	1.9	1.0	.3	.3	2.0	1.5	.7	.5	.5	.3
MINNESOTA	4.3	4.3	3.4	3.5	.7	.6	3.8	4.1	2.3	2.5	.9	.9
Minneapolis—St. Paul	3.6	3.7	2.9	3.1	.5	.4	3.1	3.4	1.9	2.2	.5	.5
MISSISSIPPI:												
Jackson	4.3	4.6	3.6	3.6	.5	.8	4.5	4.2	2.6	2.8	1.0	.6
MISSOURI	3.5	3.2	2.7	2.4	.5	.6	3.5	3.5	2.0	1.8	.8	1.0
Kansas City	3.4	3.4	2.8	2.7	.4	.6	3.3	3.8	1.8	1.9	.7	1.1
St. Louis	2.8	2.5	2.0	1.7	.6	.6	2.6	2.9	1.2	1.1	.7	1.1
MONTANA	3.0	2.9	2.2	2.2	.4	.4	2.7	3.1	1.6	1.5	.7	.8
NEBRASKA	4.6	4.2	4.0	3.8	.5	.3	4.2	4.1	3.0	2.9	.5	.5
NEVADA	8.7	8.6	7.8	7.2	.5	.3	7.7	7.8	5.2	5.5	.7	.5
NEW HAMPSHIRE	5.5	(*)	4.6	(*)	.5	(*)	5.3	(*)	3.6	(*)	.7	(*)
NEW JERSEY:												
Camden	3.5	3.5	2.3	2.3	.8	.9	3.4	3.6	1.3	1.2	1.1	1.3
Hackensack	4.1	4.2	3.2	3.1	.8	.9	4.2	4.4	1.9	2.0	1.1	1.4
Jersey City	3.4	3.4	2.3	2.1	1.0	1.1	3.9	3.4	1.1	1.2	1.9	1.5
New Brunswick—Perth Amboy—Sayreville	3.8	3.7	3.0	2.8	.6	.7	3.7	3.9	1.6	1.7	.9	1.1
Newark	3.2	3.4	2.3	2.3	.6	.8	3.2	3.6	1.3	1.4	1.0	1.2
Paterson—Clifton—Passaic	4.1	4.1	2.9	2.8	.9	1.0	3.9	4.8	1.6	1.8	1.3	2.0
Trenton	2.9	3.0	1.8	2.0	.8	.8	2.8	3.4	1.1	1.1	1.0	1.4
NEW YORK	3.8	3.8	2.4	2.4	1.2	1.3	3.7	4.0	1.3	1.4	1.6	1.8
Albany—Schenectady—Troy	2.7	2.7	1.4	1.5	.6	.7	3.1	3.1	1.0	1.0	1.1	1.1
Binghamton	3.1	2.8	2.2	2.0	.7	.7	2.7	3.2	1.4	1.5	.6	.7
Buffalo	2.7	2.7	1.4	1.5	1.0	1.0	2.7	3.1	.8	.8	1.2	1.7
Elmira	2.8	2.7	1.7	1.9	.8	.5	3.0	3.5	1.0	1.1	.9	.9
Monroe County	2.0	2.2	1.6	1.7	.2	.3	1.8	2.1	.9	1.0	.4	.6
Nassau—Suffolk ⁸	5.1	4.7	4.0	3.8	.9	.8	4.7	4.6	2.5	2.5	1.2	1.1
New York and Nassau—Suffolk	4.7	4.6	2.9	2.9	1.7	1.6	4.6	4.8	1.5	1.6	2.4	2.3
New York SMSA ⁸	4.6	4.6	2.6	2.6	1.8	1.8	4.6	4.9	1.2	1.3	2.7	2.7
New York City ⁹	4.8	4.8	2.7	2.7	2.1	2.0	4.9	5.2	1.2	1.3	2.9	3.0
Rochester	2.6	2.7	1.9	2.0	.5	.5	2.4	2.7	1.1	1.2	.7	.9
Syracuse	2.8	2.7	1.9	1.7	.6	.8	2.6	3.0	1.0	1.1	1.0	1.2
Utica—Rome	2.9	2.9	1.9	1.8	.8	.8	2.7	2.8	1.1	1.1	1.0	1.0
Westchester County ⁹	2.8	3.1	2.1	2.1	.5	.8	2.8	2.8	1.1	1.3	1.0	.8
NORTH CAROLINA	(*)	4.3	(*)	3.6	(*)	.3	(*)	4.3	(*)	3.0	(*)	.4
Charlotte—Gastonia	(*)	5.4	(*)	4.7	(*)	.4	(*)	5.3	(*)	4.0	(*)	.2
Greensboro—Winston-Salem—High Point	(*)	3.9	(*)	3.4	(*)	.2	(*)	3.7	(*)	2.6	(*)	.3
NORTH DAKOTA	6.2	6.6	4.5	5.1	1.3	1.2	6.2	6.8	3.3	4.1	2.0	1.8
Fargo—Moorhead	5.5	5.7	3.8	4.1	1.3	1.3	4.9	6.2	2.4	2.9	1.6	2.4
OHIO	2.7	2.6	1.8	1.6	(*)	(*)	2.6	3.0	1.1	1.0	.7	1.2
Akron	1.8	1.8	1.2	1.2	(*)	(*)	1.8	2.0	.8	.7	.6	.7
Canton	3.1	2.9	1.6	1.8	(*)	(*)	2.7	2.9	1.0	1.0	.6	.7
Cincinnati	2.6	2.8	2.0	1.8	(*)	(*)	2.4	2.8	1.1	1.0	.5	1.0
Cleveland	2.8	2.7	2.1	1.8	(*)	(*)	2.7	3.0	1.3	1.2	.5	.9
Columbus	2.5	2.3	1.9	1.5	(*)	(*)	2.5	2.6	1.3	1.1	.5	.9
Dayton	2.1	2.0	1.6	1.5	(*)	(*)	2.1	2.8	1.0	.9	.4	1.1
Toledo	2.8	2.2	1.7	1.2	(*)	(*)	2.4	3.0	.9	.7	.7	1.4
Youngstown—Warren	2.5	2.6	1.0	.9	(*)	(*)	2.8	2.9	.5	.5	1.2	1.4
OKLAHOMA	6.4	6.5	5.7	5.8	.5	.5	6.1	6.1	4.5	4.5	.5	.5
Oklahoma City	6.2	6.7	5.5	6.0	.6	.6	5.9	6.1	4.4	4.6	.5	.5
Tulsa ¹⁰	6.5	6.1	5.9	5.6	.4	.3	6.3	5.8	4.2	3.9	.7	.5
OREGON ⁴	(*)	4.3	(*)	3.4	(*)	.8	(*)	4.4	(*)	2.3	(*)	1.2
Eugene—Springfield ⁴	3.4	3.3	2.8	2.6	.4	.5	3.3	3.5	1.9	1.8	.7	1.0
Portland	(*)	4.8	(*)	3.8	(*)	.8	(*)	4.5	(*)	2.5	(*)	1.1

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
PENNSYLVANIA	3.0	(*)	1.8	(*)	0.9	(*)	2.9	(*)	1.2	(*)	1.1	(*)
Allentown—Bethlehem—Easton	2.7	(*)	1.5	(*)	1.0	(*)	2.5	(*)	1.0	(*)	.9	(*)
Altoona	2.8	(*)	1.1	(*)	1.5	(*)	3.1	(*)	.9	(*)	1.7	(*)
Erie	3.2	(*)	2.0	(*)	.9	(*)	3.1	(*)	1.2	(*)	1.1	(*)
Harrisburg	3.1	(*)	2.2	(*)	.7	(*)	2.9	(*)	1.6	(*)	.7	(*)
Johnstown	3.3	(*)	1.0	(*)	2.3	(*)	3.3	(*)	.9	(*)	1.7	(*)
Lancaster	3.5	(*)	3.0	(*)	.5	(*)	3.3	(*)	2.1	(*)	.6	(*)
Northeast Pennsylvania	3.8	(*)	1.9	(*)	1.6	(*)	3.8	(*)	1.3	(*)	1.9	(*)
Philadelphia SMSA	2.8	(*)	1.8	(*)	.7	(*)	2.8	(*)	1.1	(*)	.9	(*)
Pittsburgh	2.5	(*)	1.1	(*)	1.1	(*)	2.5	(*)	.6	(*)	1.2	(*)
Reading	3.3	(*)	2.4	(*)	.8	(*)	3.2	(*)	1.6	(*)	1.0	(*)
Scranton ¹¹	3.6	(*)	1.7	(*)	1.8	(*)	3.7	(*)	1.1	(*)	2.1	(*)
Wilkes-Barre—Hazleton ¹¹	3.5	(*)	1.7	(*)	1.4	(*)	3.6	(*)	1.1	(*)	1.8	(*)
Williamsport	2.7	(*)	1.8	(*)	.8	(*)	2.5	(*)	1.0	(*)	1.1	(*)
York	4.4	(*)	3.5	(*)	.8	(*)	4.0	(*)	2.3	(*)	1.0	(*)
RHODE ISLAND	5.4	5.6	4.4	4.1	.7	1.2	5.3	5.9	3.2	3.1	1.2	1.8
Providence—Warwick—Pawtucket	5.4	5.4	4.4	4.0	.7	1.2	5.2	5.8	3.1	3.1	1.1	1.8
SOUTH CAROLINA	4.1	3.9	3.3	3.3	.5	.3	4.0	4.0	2.6	2.5	.5	.6
Charleston—North Charleston	4.8	4.2	3.9	3.4	.7	.8	4.1	5.2	2.5	2.3	.4	1.6
Columbia	4.2	4.3	3.7	3.7	.3	.4	3.9	3.9	2.6	2.5	.5	.4
Greenville—Spartanburg	4.5	4.4	3.9	3.9	.4	.2	4.4	4.6	2.9	3.0	.4	.4
SOUTH DAKOTA	4.9	(*)	4.3	(*)	.4	(*)	4.1	(*)	3.0	(*)	.5	(*)
Sioux Falls	4.2	(*)	3.6	(*)	.6	(*)	3.6	(*)	2.4	(*)	.6	(*)
TENNESSEE:												
Memphis	3.7	3.1	2.9	2.3	.6	.6	3.5	3.2	1.9	1.5	.7	.9
TEXAS:												
Dallas—Fort Worth	5.7	5.5	5.2	5.1	.4	.3	5.1	5.3	3.7	3.8	.3	.4
Houston	4.8	4.3	4.5	4.0	.2	.1	4.4	4.1	3.1	2.9	.2	.2
San Antonio	4.8	5.0	4.4	4.6	.2	.3	4.4	4.8	3.2	3.6	.3	.3
UTAH ³	6.0	5.5	5.3	4.7	.5	.4	5.3	5.3	3.7	3.6	.6	.7
Salt Lake City—Ogden ³	6.1	5.3	5.7	4.8	.3	.3	5.2	5.0	3.7	3.6	.5	.5
VERMONT	4.3	4.0	3.2	2.9	.9	.8	3.6	3.9	1.9	1.9	1.0	1.3
Burlington	3.2	2.6	2.5	2.3	.3	.1	2.0	2.2	.8	1.0	.8	.8
Springfield	3.3	3.2	2.5	2.4	.7	.8	2.6	3.2	1.2	1.4	.7	1.1
VIRGINIA	3.6	3.5	2.7	2.6	.6	.6	3.6	3.5	2.0	1.8	.7	.8
Richmond	2.2	2.4	1.6	1.8	.2	.2	1.9	2.1	.9	1.0	.3	.3
WASHINGTON:												
Seattle—Everett ¹²	4.5	(*)	3.3	(*)	.9	(*)	3.2	(*)	1.6	(*)	.8	(*)
WISCONSIN	3.5	3.5	2.6	2.4	.7	.7	3.3	3.5	1.6	1.5	.9	1.1
Milwaukee	3.1	3.3	2.2	2.1	.5	.6	2.9	3.4	1.2	1.3	.7	1.0
WYOMING	8.0	7.6	6.7	6.8	1.3	.8	8.0	8.9	4.7	5.3	1.8	2.2

¹ Excludes agricultural chemicals, and miscellaneous manufacturing.

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

³ Excludes canning and preserving, and sugar.

⁴ Excludes canning and preserving.

⁵ Excludes canning and preserving, and newspapers.

⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁷ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁹ Subarea of New York Standard Metropolitan Statistical Area.

¹⁰ Excludes new-hire rate for transportation equipment.

¹¹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹² Excludes canning and preserving, printing and publishing.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

Area Definitions

ALABAMA
 Birmingham.....Jefferson, St. Clair, Shelby, and Walker Counties
 Huntsville.....Limestone, Madison, and Marshall Counties
 Mobile.....Baldwin and Mobile Counties
 Montgomery.....Autauga, Elmore, and Montgomery Counties
 Tuscaloosa.....Tuscaloosa County

ARIZONA
 Phoenix.....Maricopa County
 Tucson.....Pima County

ARKANSAS
 Fayetteville-
 Springdale.....Benton and Washington Counties
 Fort Smith.....Crawford and Sebastian Counties, Ark.; Le Flore and Sequoyah Counties, Okla.
 Little Rock-
 N. Little Rock.....Pulaski and Saline Counties
 Pine Bluff.....Jefferson County

CALIFORNIA
 Anaheim-Santa Ana-
 Garden Grove.....Orange County
 Bakersfield.....Kern County
 Fresno.....Fresno County
 Los Angeles-
 Long Beach.....Los Angeles County
 Modesto.....Stanislaus County
 Oxnard-Simi
 Valley-Ventura.....Ventura County
 Riverside-San
 Bernardino-Ontario..San Bernardino and Riverside Counties
 Sacramento.....Placer, Sacramento, and Yolo Counties
 Salinas-Seaside-
 Monterey.....Monterey County
 San Diego.....San Diego County
 San Francisco-
 Oakland.....Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties
 San Jose.....Santa Clara County
 Santa Barbara-Santa
 Maria-Lompoc.....Santa Barbara County
 Santa Rosa.....Sonoma County
 Stockton.....San Joaquin County
 Vallejo-Fairfield-
 Napa.....Napa and Solano Counties

COLORADO
 Denver-Boulder.....Adams, Arapahoe, Boulder, Clear Creek, Denver, Douglas, Gilpin, and Jefferson Counties

CONNECTICUT
 Bridgeport.....Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; Derby and Milford cities in New Haven County
 Hartford.....Hartford city, and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Marlborough, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County; Colchester town in New London County; Andover, Bolton, Columbia, Coventry, Ellington, Hebron, Somers, Stafford, Tolland, Vernon, and Willington towns in Tolland County
 New Britain.....New Britain city, and Berlin, Plainville, and Southington towns in Hartford County
 New Haven-
 West Haven.....New Haven and West Haven cities, and Bethany, Branford, East Haven, Guilford, Hamden, Madison, North Branford, North Haven, Orange, Wallingford, and Woodbridge towns in New Haven County; Clinton town in Middlesex County

CONNECTICUT—Continued
 Stamford.....Stamford city, and Darien, Greenwich, and New Canaan towns in Fairfield County
 Waterbury.....Waterbury city, Naugatuck borough, and Beacon Falls, Cheshire, Middlebury, Prospect, Southbury, and Wolcott towns in New Haven County; Bethlehem, Thomaston, Watertown, and Woodbury towns in Litchfield County

DELAWARE
 Wilmington.....New Castle County, Del.; Cecil County, Md.; Salem County, N.J.

DISTRICT OF COLUMBIA
 Washington SMSA.....District of Columbia; Charles, Montgomery, and Prince Georges Counties, Md.; Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Va.

FLORIDA
 Bradenton.....Manatee County
 Daytona Beach.....Volusia County
 Fort Lauderdale-
 Hollywood.....Broward County
 Fort Myers-
 Cape Coral.....Lee County
 Gainesville.....Alachua County
 Jacksonville.....Baker, Clay, Duval, Nassau, and St. Johns Counties
 Lakeland-
 Winter Haven.....Polk County
 Melbourne-Titusville-
 Cocoa.....Brevard County
 Miami.....Dade County
 Orlando.....Orange, Osceola, and Seminole Counties
 Panama City.....Bay County
 Pensacola.....Escambia and Santa Rosa Counties
 Sarasota.....Sarasota County
 Tallahassee.....Leon and Wakulla Counties
 Tampa-
 St. Petersburg.....Hillsborough, Pasco, and Pinellas Counties
 West Palm Beach-
 Boca Raton.....Palm Beach County

GEORGIA
 Albany.....Dougherty and Lee Counties
 Atlanta.....Butts, Cherokee, Clayton, Cobb, De Kalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, and Walton Counties
 Augusta.....Columbia and Richmond Counties, Ga.; Aiken County, S.C.
 Columbus.....Columbus (consolidated government), and Chattahoochee County, Ga.; Russell County, Ala.
 Macon.....Bibb, Houston, Jones, and Twiggs Counties
 Savannah.....Bryan, Chatham, and Effingham Counties

HAWAII
 Honolulu.....Honolulu County

IDAHO
 Boise City.....Ada County

ILLINOIS
 Bloomington-Normal...McLean County
 Champaign-Urbana-
 Rantoul.....Champaign County
 Chicago-Gary.....A Standard Consolidated Statistical Area comprised of Chicago, Ill. SMSA and Gary-Hammond-East Chicago, Ind. SMSA
 Chicago SMSA.....Cook, Du Page, Kane, Lake, McHenry, and Will Counties
 Davenport-Rock
 Island-Moline.....Henry and Rock Island Counties, Ill.; Scott County, Iowa
 Decatur.....Macon County
 Kankakee.....Kankakee County
 Peoria.....Peoria, Tazewell, and Woodford Counties

Area Definitions--Continued

ILLINOIS--Continued

Rockford.....Boone and Winnebago Counties
Springfield.....Menard and Sangamon Counties

INDIANA

Anderson.....Madison County
Elkhart.....Elkhart County
Evansville.....Gibson, Posey, Vanderburgh, and
Warrick Counties, Ind.; Henderson
County, Ky.
Fort Wayne.....Adams, Allen, DeKalb, and Wells
Counties
Gary-Hammond-
East Chicago.....Lake and Porter Counties
Indianapolis.....Boone, Hamilton, Hancock, Hend-
ricks, Johnson, Marion, Morgan,
and Shelby Counties
Lafayette-
West Lafayette.....Tippecanoe County
Muncie.....Delaware County
South Bend.....Marshall and St. Joseph Counties
Terre Haute.....Clay, Sullivan, Vermillion, and
Vigo Counties

IOWA

Cedar Rapids.....Linn County
Des Moines.....Polk and Warren Counties
Dubuque.....Dubuque County
Sioux City.....Woodbury County, Iowa; Dakota
County, Neb.
Waterloo-Cedar
Falls.....Black Hawk County

KANSAS

Lawrence.....Douglas County
Topeka.....Jefferson, Osage, and Shawnee
Counties
Wichita.....Butler and Sedgwick Counties

KENTUCKY

Lexington-Fayette....Bourbon, Clark, Fayette,
Jessamine, Scott, and Woodford
Counties
Louisville.....Bullitt, Jefferson, and Oldham
Counties, Ky.; Clark and Floyd
Counties, Ind.
Owensboro.....Daviness County

LOUISIANA

Alexandria.....Avoyelles, Grant, and Rapides
Parishes
Baton Rouge.....Ascension, East Baton Rouge,
Livingston, and West Baton Rouge
Parishes
Lafayette.....Lafayette Parish
Lake Charles.....Calcasieu Parish
Monroe.....Ouachita Parish
New Orleans.....Jefferson, Orleans, St. Bernard,
and St. Tammany Parishes
Shreveport.....Bossier, Caddo, and Webster
Parishes

MAINE

Lewiston-Auburn.....Auburn and Lewiston cities, and
Lisbon town in Androscoggin
County
Portland.....Portland, South Portland, and
Westbrook cities, and Cape
Elizabeth, Cumberland, Falmouth,
Freeport, Gorham, Scarborough,
Windham, and Yarmouth towns in
Cumberland County; Saco city, and
Old Orchard Beach town in York
County

MARYLAND

Baltimore.....Baltimore city, and Anne Arundel,
Baltimore, Carroll, Harford, and
Howard Counties

MASSACHUSETTS

Boston.....Suffolk County; Cambridge,
Everett, Malden, Medford, Mel-
rose, Newton, Somerville, Walt-
ham, and Woburn cities, and
Acton, Arlington, Ashland, Bed-
ford, Belmont, Boxborough, Bur-
lington, Carlisle, Concord,
Framingham, Holliston, Lexington,
Lincoln, Natick, North Reading,
Reading, Sherborn, Stoneham,
Sudbury, Wakefield, Watertown,
Wayland, Weston, Wilmington, and
Winchester towns in Middlesex

MASSACHUSETTS--Continued

Boston--Continued

County; Beverly, Lynn, Peabody,
and Salem cities, and Boxford,
Danvers, Hamilton, Lynnfield,
Manchester, Marblehead, Middle-
ton, Nahant, Saugus, Swampscott,
Topsfield, and Wenham towns in
Essex County; Quincy city, and
Bellingham, Braintree, Brookline,
Canton, Cohasset, Dedham, Dover,
Foxborough, Franklin, Holbrook,
Medfield, Medway, Millis, Milton,
Needham, Norfolk, Norwood, Ran-
dolph, Sharon, Stoughton, Wal-
pole, Wellesley, Westwood,
Weymouth, and Wrentham towns in
Norfolk County; Abington, Duxbury,
Hanover, Hanson, Hingham, Hull,
Kingston, Marshfield, Norwell,
Pembroke, Rockland, and Scituate
towns in Plymouth County
Brockton.....Brockton city, and Bridgewater,
East Bridgewater, Halifax, West
Bridgewater, and Whitman towns
in Plymouth County; Easton town
in Bristol County; Avon town
in Norfolk County
Fall River.....Fall River city, and Dighton,
Somerset, Swansea, and Westport
towns in Bristol County, Mass.;
Little Compton and Tiverton towns
in Newport County, R.I.
Lawrence-Haverhill...Lawrence and Haverhill cities, and
Amesbury, Andover, Georgetown,
Groveland, Merrimac, Methuen,
North Andover, Salisbury, and
West Newbury towns in Essex
County, Mass.; Atkinson, Hamp-
stead, Kingston, Newton,
Plaistow, Salem, and Windham
towns in Rockingham County, N.H.
Lowell.....Lowell city, and Billerica,
Chelmsford, Dracut, Dunstable,
Tewksbury, Tyngsborough, and
Westford towns in Middlesex
County
New Bedford.....New Bedford city, and Acushnet,
Dartmouth, Fairhaven, and Free-
town towns in Bristol County;
Lakeville, Marion, Mattapoisett,
and Rochester towns in Plymouth
County
Springfield-
Chicopee-Holyoke....Chicopee, Holyoke, Springfield,
and Westfield cities, and
Agawam, Brimfield, East Long-
meadow, Granville, Hampden, Long-
meadow, Ludlow, Monson,
Montgomery, Palmer, Russell,
Southwick, Wales, West Spring-
field, and Wilbraham towns in
Hampden County; Northampton city,
and Amherst, Belchertown,
Chesterfield, Easthampton, Gran-
by, Hadley, Hatfield, Pelham,
South Hadley, Southampton,
Westhampton, and Williamsburg
towns in Hampshire County; Warren
town in Worcester County
Worcester.....Worcester city, and Auburn,
Berlin, Boylston, Brookfield,
Charlton, Douglas, East Brook-
field, Grafton, Holden, Lei-
cester, Millbury, Northborough,
Northbridge, North Brookfield,
Oxford, Paxton, Rutland, Shrews-
bury, Spencer, Sterling, Sutton,
Upton, Uxbridge, Webster, West-
borough, and West Boylston towns
in Worcester County

MICHIGAN

Ann Arbor.....Washtenaw County
Battle Creek.....Barry and Calhoun Counties
Bay City.....Bay County
Detroit.....Lapeer, Livingston, Macomb,
Oakland, St. Clair, and Wayne
Counties
Flint.....Genesee and Shiawassee Counties
Grand Rapids.....Kent and Ottawa Counties

Area Definitions--Continued

MICHIGAN—Continued

Jackson.....Jackson County
 Kalamazoo-Portage....Kalamazoo and Van Buren Counties
 Lansing-East
 Lansing.....Clinton, Eaton, Ingham, and Ionia
 Counties
 Muskegon-Norton
 Shores-Muskegon
 Heights.....Muskegon and Oceana Counties
 Saginaw.....Saginaw County

MINNESOTA

Duluth-Superior.....Duluth city, Minn.; Douglas
 County, Wisc.
 Minneapolis-
 St. Paul.....Anoka, Carver, Chisago, Dakota,
 Hennepin, Ramsey, Scott, Washing-
 ton, and Wright Counties
 Rochester.....Olmsted County
 St. Cloud.....Benton, Sherburne, and Stearns
 Counties

MISSISSIPPI

Jackson.....Hinds and Rankin Counties

MISSOURI

Kansas City.....Jass, Clay, Jackson, Platte, and
 Ray Counties, Mo.; Johnson and
 Wyandotte Counties, Kans.
 St. Joseph.. ..Andrew and Buchanan Counties
 St. Louis.....St. Louis city, and Franklin,
 Jefferson, St. Charles, and
 St. Louis Counties, Mo.; Clinton,
 Madison, Monroe, and St. Clair
 Counties, Ill.
 Springfield.....Christian and Greene Counties

MONTANA

Billings.....Yellowstone County
 Great Falls.....Cascade County

NEBRASKA

Lincoln.....Lancaster County
 Omaha.....Douglas and Sarpy Counties, Nebr.;
 Pottawattamie County, Iowa

NEVADA

Las Vegas.....Clark County; Beatty Township in
 Nye County
 Reno.....Washoe County

NEW HAMPSHIRE

Manchester.....Manchester city, and Bedford,
 Goffstown, New Boston, and Weare
 towns in Hillsboro County;
 Hooksett town in Merrimack County;
 Auburn, Candia, Chester, Derry,
 Londerry, and Raymond towns in
 Rockingham County
 Nashua.....Nashua city, and Amherst, Brook-
 line, Greenville, Hollis, Hudson,
 Litchfield, Lyndeboro, Mason,
 Merrimack, Milford, Mount Vernon,
 New Ipswich, Pelham, Temple, and
 Wilton towns in Hillsboro County

NEW JERSEY

Atlantic City.....Atlantic County
 Camden.....Burlington, Camden, and Gloucester
 Counties
 Hackensack.....Bergen County
 Jersey City.....Hudson County
 Long Branch-
 Asbury Park.....Monmouth County
 New Brunswick-Perth
 Amboy-Sayreville....Middlesex County
 Newark.....Essex, Morris, Somerset, and Union
 Counties
 Paterson-Clifton-
 Passaic.....Passaic County
 Trenton.....Mercer County
 Vineland-Millville-
 Bridgeton.....Cumberland County

NEW MEXICO

Albuquerque.....Bernalillo and Sandoval Counties

NEW YORK

Albany-Schenectady-
 Troy.....Albany, Montgomery, Rensselaer,
 Saratoga, and Schenectady Counties
 Binghamton.....Broome and Tioga Counties, N. Y.;
 Susquehanna County, Pa.

NEW YORK—Continued

Buffalo.....Erie and Niagara Counties
 Elmira.....Chemung County
 Monroe County.....Monroe County
 Nassau-Suffolk.....Nassau and Suffolk Counties
 New York-
 Northeastern
 New Jersey.....A consolidated area comprised of
 New York, N. Y. SMSA; Nassau-
 Suffolk, N. Y. SMSA; Newark, N. J.
 SMSA; New Brunswick-Perth Amboy-
 Sayreville, N. J. SMSA; Jersey
 City, N. J. SMSA; Paterson-
 Clifton-Passaic, N. J. SMSA; and
 the Hackensack, N. J. area

New York and Nassau-

Suffolk.....New York City, and Nassau, Putnam,
 Rockland, Suffolk, and Westchester
 Counties
 New York SMSA.....New York City, and Putnam, Rockland
 and Westchester Counties
 New York City.....Bronx, Kings, New York, Queens, and
 Richmond Counties
 Poughkeepsie.....Dutchess County
 Rochester.....Livingston, Monroe, Ontario,
 Orleans, and Wayne Counties
 Rockland County.....Rockland County
 Syracuse.....Madison, Onondaga, and Oswego
 Counties
 Utica-Rome.....Herkimer and Oneida Counties
 Westchester County...Westchester County

NORTH CAROLINA

Asheville.....Buncombe and Madison Counties
 Charlotte-Gastonia...Gaston, Mecklenburg, and Union
 Counties
 Greensboro--Winston-
 Salem--High Point...Davidson, Forsyth, Guilford, Ran-
 dolph, Stokes, and Yadkin Counties
 Raleigh-Durham.....Durham, Orange, and Wake Counties

NORTH DAKOTA

Fargo-Moorhead.....Cass County, N. D.; Clay County,
 Minn.

OHIO

Akron.....Portage and Summit Counties
 Canton.....Carroll and Stark Counties
 Cincinnati.....Clermont, Hamilton, and Warren
 Counties, Ohio; Boone, Campbell,
 and Kenton Counties, Ky.; Dear-
 born County, Ind.
 Cleveland.....Cuyahoga, Geauga, Lake, and Medina
 Counties
 Columbus.....Delaware, Fairfield, Franklin,
 Madison, and Pickaway Counties
 Dayton.....Greene, Miami, Montgomery, and
 Preble Counties
 Toledo.....Fulton, Lucas, Ottawa, and Wood
 Counties, Ohio; Monroe County,
 Mich.
 Youngstown-Warren...Mahoning and Trumbull Counties

OKLAHOMA

Oklahoma City.....Canadian, Cleveland, McClain,
 Oklahoma, and Pottawatomie
 Counties
 Tulsa.....Creek, Mayes, Osage, Rogers,
 Tulsa, and Wagoner Counties

OREGON

Eugene-Springfield...Lane County
 Jackson County.....Jackson County
 Portland.....Clackamas, Multnomah, and Washing-
 ton Counties, Oreg.; Clark County,
 Wash.
 Salem.....Marion and Polk Counties

PENNSYLVANIA

Allentown-Bethlehem-
 Easton.....Carbon, Lehigh, and Northampton
 Counties, Pa; Warren County, N. J.
 Altoona.....Blair County
 Delaware Valley.....Bucks, Chester, Delaware,
 Montgomery, and Philadelphia
 Counties
 Erie.....Erie County
 Harrisburg.....Cumberland, Dauphin, and Perry
 Counties
 Johnstown.....Cambria and Somerset Counties
 Lancaster.....Lancaster County

Area Definitions--Continued

PENNSYLVANIA—Continued

Northeast—
 Pennsylvania.....Lackawanna, Luzerne, and Monroe
 Counties
 Philadelphia SMSA....Bucks, Chester, Delaware, Montgo-
 mery, and Philadelphia Counties,
 Pa.; Burlington, Camden, and
 Gloucester Counties, N. J.
 Philadelphia City....Philadelphia County
 Pittsburgh.....Allegheny, Beaver, Washington, and
 Westmoreland Counties
 Reading.....Berks County
 Scranton.....Lackawanna County
 Wilkes-Barre--
 Hazleton.....Luzerne County
 Williamsport.....Lycoming County
 York.....Adams and York Counties

RHODE ISLAND

Providence--Warwick--
 Pawtucket.....Central Falls, Cranston, East
 Providence, Pawtucket, Providence,
 and Woonsocket cities, and Burril-
 lville, Cumberland, Foster,
 Glocester, Johnston, Lincoln,
 North Providence, North Smith-
 field, Scituate, and Smithfield
 towns in Providence County, R. I.;
 Exeter, Narragansett, North Kings-
 town, Richmond, and South Kings-
 town towns in Washington County,
 R. I.; Warwick city, and Coventry,
 East Greenwich, West Greenwich,
 and West Warwick towns in Kent
 County, R. I.; Jamestown and New
 Shoreham towns in Newport County,
 R. I.; Bristol County, R. I.;
 Attleboro city, and North
 Attleboro, Norton, Rehoboth, and
 Seekonk towns in Bristol County,
 Mass.; Plainville town in Norfolk
 County, Mass.; Blackstone and
 Millville towns in Worcester
 County, Mass.

SOUTH CAROLINA

Charleston--North
 Charleston.....Berkeley, Charleston, and Dor-
 chester Counties
 Columbia.....Lexington and Richland Counties
 Greenville--
 Spartanburg.....Greenville, Pickens, and Spar-
 tanburg Counties

SOUTH DAKOTA

Rapid City.....Pennington County
 Sioux Falls.....Minnehaha County

TENNESSEE

Chattanooga.....Hamilton, Marion, and Sequatchie
 Counties, Tenn.; Catoosa, Dade,
 and Walker Counties, Ga.
 Knoxville.....Anderson, Blount, Knox, and Union
 Counties; portion of Oak Ridge in
 Roane County
 Memphis.....Shelby and Tipton Counties, Tenn.;
 Crittenden County, Ark.
 Nashville--Davidson...Cheatham, Davidson, Dickson,
 Robertson, Rutherford, Sumner,
 Williamson, and Wilson Counties

TEXAS

Amarillo.....Potter and Randall Counties
 Austin.....Hays, Travis, and Williamson
 Counties
 Beaumont--Port
 Arthur--Orange.....Hardin, Jefferson, and Orange
 Counties
 Corpus Christi.....Nueces and San Patricio Counties
 Dallas--Fort Worth....Collin, Dallas, Denton, Ellis,
 Hood, Johnson, Kaufman, Parker,
 Rockwall, Tarrant, and Wise
 Counties
 El Paso.....El Paso County
 Galveston--
 Texas City.....Galveston County
 Houston.....Brazoria, Fort Bend, Harris,
 Liberty, Montgomery, and Waller
 Counties

TEXAS—Continued

Lubbock.....Lubbock County
 San Antonio.....Bexar, Comal, and Guadalupe
 Counties
 Waco.....McLennan County
 Wichita Falls.....Clay and Wichita Counties

UTAH

Salt Lake City--
 Ogden.....Davis, Morgan, Salt Lake, Tooele,
 and Weber Counties

VERMONT

Burlington.....Chittenden County; Grand Isle and
 South Hero towns in Grand Isle
 County
 Springfield.....Athens, Grafton, Londonderry,
 Rockingham (includes Bellows
 Falls), Westminster, and Windham
 towns in Windham County; Andover,
 Baltimore, Cavendish, Chester,
 Ludlow, Reading, Springfield,
 Weathersfield, Weston, West
 Windsor, and Windsor towns in
 Windsor County

VIRGINIA

Bristol.....Bristol city, and Scott and Wash-
 ington Counties
 Lynchburg.....Lynchburg city, and Amherst,
 Appomattox, and Campbell Counties
 Newport News--
 Hampton.....Hampton, Newport News, Poquoson,
 and Williamsburg cities, and
 Gloucester, James City, and York
 Counties
 Norfolk--Virginia
 Beach--Portsmouth....Chesapeake, Norfolk, Portsmouth,
 Suffolk, and Virginia Beach
 cities, Va.; Currituck County,
 N.C.
 Northern Virginia....Alexandria, Fairfax, Falls Church,
 Manassas, and Manassas Park
 cities, and Arlington, Fairfax,
 Loudoun, and Prince William
 Counties
 Petersburg--Colonial
 Heights--Hopewell....Colonial Heights, Hopewell, and
 Petersburg cities, and Dinwiddie
 and Prince George Counties
 Richmond.....Richmond city, and Charles City,
 Chesterfield, Goochland, Hanover,
 Henrico, New Kent, and Powhatan
 Counties
 Roanoke.....Roanoke and Salem cities, and
 Botetourt, Craig, and Roanoke
 Counties

WASHINGTON

Seattle--Everett.....King and Snohomish Counties
 Spokane.....Spokane County
 Tacoma.....Pierce County

WEST VIRGINIA

Charleston.....Kanawha and Putnam Counties
 Huntington--Ashland...Cabell and Wayne Counties, W. Va.;
 Boyd and Greenup Counties, Ky.;
 Lawrence County, Ohio
 Parkersburg--
 Marietta.....Wirt and Wood Counties, W. Va.;
 Washington County, Ohio
 Wheeling.....Marshall and Ohio Counties, W. Va.;
 Belmont County, Ohio

WISCONSIN

Appleton--Oshkosh....Calumet, Outagamie, and Winnebago
 Counties
 Eau Claire.....Chippewa and Eau Claire Counties
 Green Bay.....Brown County
 Janesville--Beloit....Rock County
 Kenosha.....Kenosha County
 La Crosse.....La Crosse County
 Madison.....Dane County
 Milwaukee.....Milwaukee, Ozaukee, Washington, and
 Waukesha Counties
 Racine.....Racine County

WYOMING

Casper.....Natrona County
 Cheyenne.....Laramie County

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 multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the BLS statistics.

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

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

Household data (A tables)

COLLECTION AND COVERAGE

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

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

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

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

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

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

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

CONCEPTS

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

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

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

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

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

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

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

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

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

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

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

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

Employment-population ratios represent the proportion of the 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 us-

ed 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 $0.09 \times 1.26 = 0.11$ percentage point.

Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages. The approximate standard errors of levels, rates and percentages involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages may be obtained by using table 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 payroll 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	48
Mining ¹	186,560	21
Telephone communication	698,980	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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