

Employment and Earnings

September 1978



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Revised seasonally adjusted series		x						
Quarterly averages:								
Seasonally adjusted data								
Persons not in labor force								
Persons of Hispanic origin								
Vietnam-Era veterans and nonveterans								
Poverty-nonpoverty area data				x		x	x	
Family relationship data	x							
Establishment data								
National annual averages:								
Industry divisions (preliminary)	x							
Industry detail (final)			x					
National data adjusted to new benchmarks		(1)					(1)	
Revised seasonally adjusted series								(2)
State and area annual averages					x			
Area definitions					x			

¹ The issue that introduces new benchmarks varies. The October 1975 issue marks the introduction of March 1974 benchmarks. Interim revisions of selected series appear in the February 1977 issue

² Revised data introduced December 1977.

Employment and Earnings

Vol. 25 No. 9 September 1978

Editors: Chester L. Green, Gloria P. Green, Rosalie K. Epstein

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Employment and Unemployment Developments, August 1978

Employment rose slightly in August and unemployment declined. The Nation's unemployment rate was 5.9 percent, down from 6.2 percent in July.

Total employment—as measured by the monthly survey of households—edged up by 160,000 over the month to 94.6 million, gaining back some of the decline which had occurred in July. Prior to July, employment growth had been unusually strong.

Nonfarm payroll employment—as measured by the monthly survey of establishments—rose by 115,000 in August to 86.1 million. Both measures of employment showed over-the-year growth of more than 3½ million.

Unemployment

The unemployment rate declined to 5.9 percent from 6.2 percent in July. There were 6.0 million unemployed persons in August, down 225,000 from the July level. The August rate was more than a percentage point lower than its year-ago level and just below the 6.0-to-6.2 percent plateau which had prevailed throughout most of 1978.

The August reduction in unemployment occurred primarily among adult women, whose rate dropped from 6.5 to 6.1 percent. The jobless rate for adult men (4.1 percent) remained at its July level, and the rate for teenagers (15.6 percent) showed a small decline over the month. (See table A-36.)

The unemployment rate for black workers declined from 12.5 to 11.7 percent in August, with all of the improvement taking place among teenagers and adult women. The rate for white workers (5.2 percent) was little changed from July. Both black and white jobless rates were down substantially from their year-earlier levels. In other worker categories, unemployment declined among persons looking for full-time work, women who head families, and persons unemployed less than 5 weeks. (See tables A-36 and A-37.)

The average (mean) duration of unemployment fell by about one-half week in August to 11.2 weeks and was 2.5 weeks shorter than the average duration a year ago. Half of the unemployed in August had been looking for work for 6 weeks or less. (See table A-37.)

Total employment and the labor force

Following a decline in July, the number of employed persons edged up 160,000 in August to 94.6 million. The

increase was spurred mainly by a rise in the number of teenagers with jobs. Over the past 12 months, employment has grown by nearly 3.6 million. The proportion of the population that is employed remained at its July level of 58.6 percent; this was down from the June peak of 58.9 percent but substantially above the year-ago level. (See table A-33.)

The civilian labor force was 100.5 million in August, virtually unchanged from the June and July levels but up 2.7 million over the year. The civilian labor force participation rate was 63.1 percent in August, down slightly from the all-time high attained in the prior 2 months.

Industry payroll employment

Nonagricultural payroll employment rose slightly (by 115,000) in August to 86.1 million, as an increase in the service-producing sector more than offset a decline in the goods sector. Overall, employment increased in 56 percent of the 172 industries that comprise the BLS diffusion index of private nonagricultural payroll employment, the lowest proportion since August 1977. However, due to substantial employment gains throughout most of the intervening period, the number of nonfarm payroll jobs has grown by 3.7 million over the past year. (See tables B-4 and B-7.)

Wholesale and retail trade posted an employment gain of 80,000, the largest over-the-month increase of all the major industry divisions. Consistent with recent trends, the retail component accounted for just over three-fourths of the increase. There was also marked growth in services (60,000), transportation and public utilities (35,000), and finance, insurance, and real estate (20,000). By contrast, State and local government posted a small employment reduction for the second straight month.

After showing considerable strength throughout 1978, contract construction registered a modest decline of 20,000. In manufacturing, there was an employment decline of 50,000 in the nondurable goods industries, mostly in food processing, paper products, and rubber and plastics. Durable goods employment showed little overall change in August, despite continued growth in the machinery industry. Following relatively large gains in the first 3 months of this year, overall employment growth in manufacturing has been rather sluggish.

Hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls decreased slightly to 35.9 hours in August, down by 0.1 hour from both the previous month and a year earlier. The manufacturing workweek was also down 0.1 hour, while factory overtime, at 3.5 hours, was unchanged from the July level. (See table C-7.)

Because of the slight decline in hours, coupled with only modest employment growth, the index of aggregate hours of production or nonsupervisory workers on private nonagricultural payrolls edged down from 120.9 to 120.8 (1967=100) in August. Nevertheless, the index was 4.5 percent above the year-earlier level. (See table C-9.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls increased 0.2 percent in August, seasonally adjusted. This increase was too small to counter the small decline in average weekly hours, and average weekly earnings showed a marginal decline. Since last August, average hourly and weekly earnings have risen 8.7 and 8.4 percent, respectively.

Before adjustment for seasonality, average hourly earnings were \$5.72 in August, up 1 cent from July and 46 cents from a year earlier. Average weekly earnings fell by 21 cents over the month to \$208.21 but have risen \$16.22 since last August. (See tables C-1 and C-8.)

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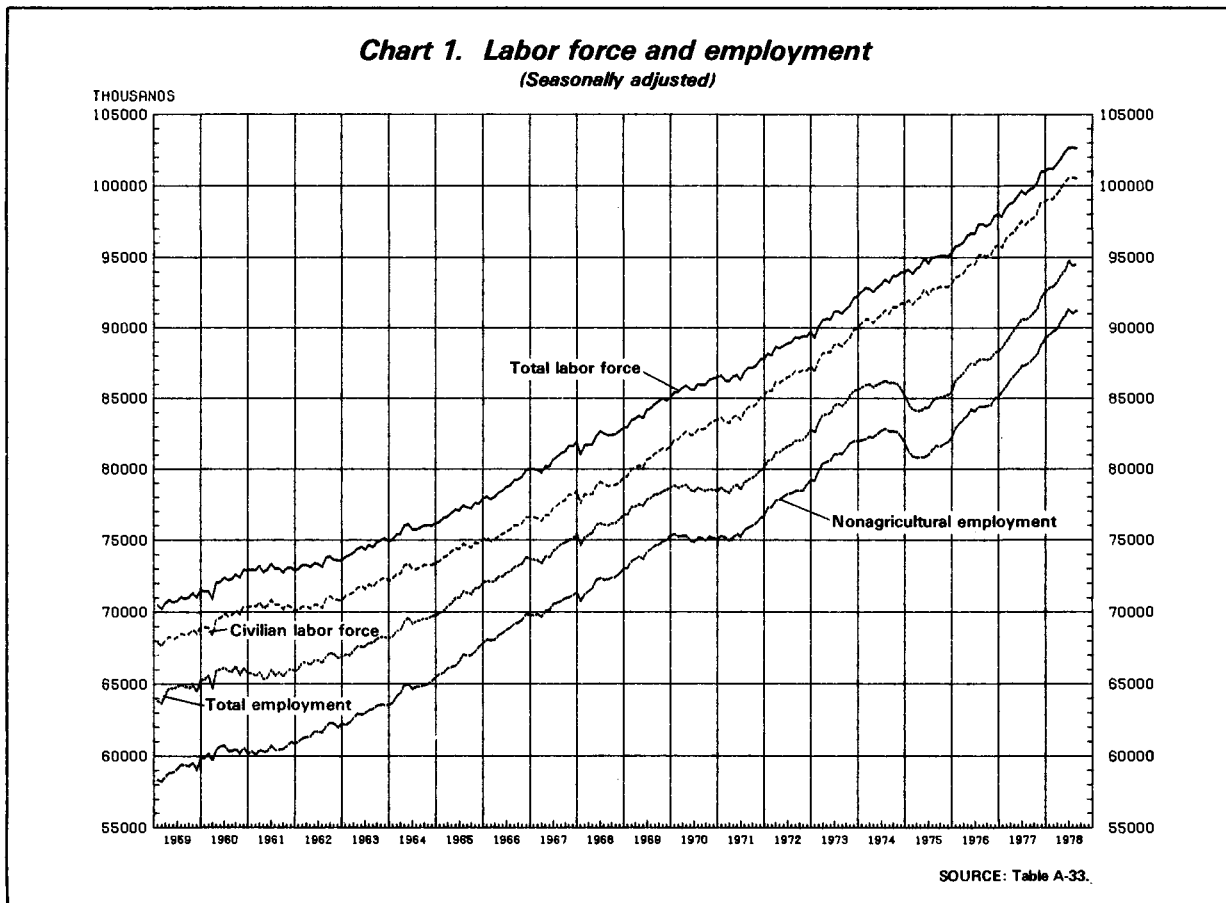
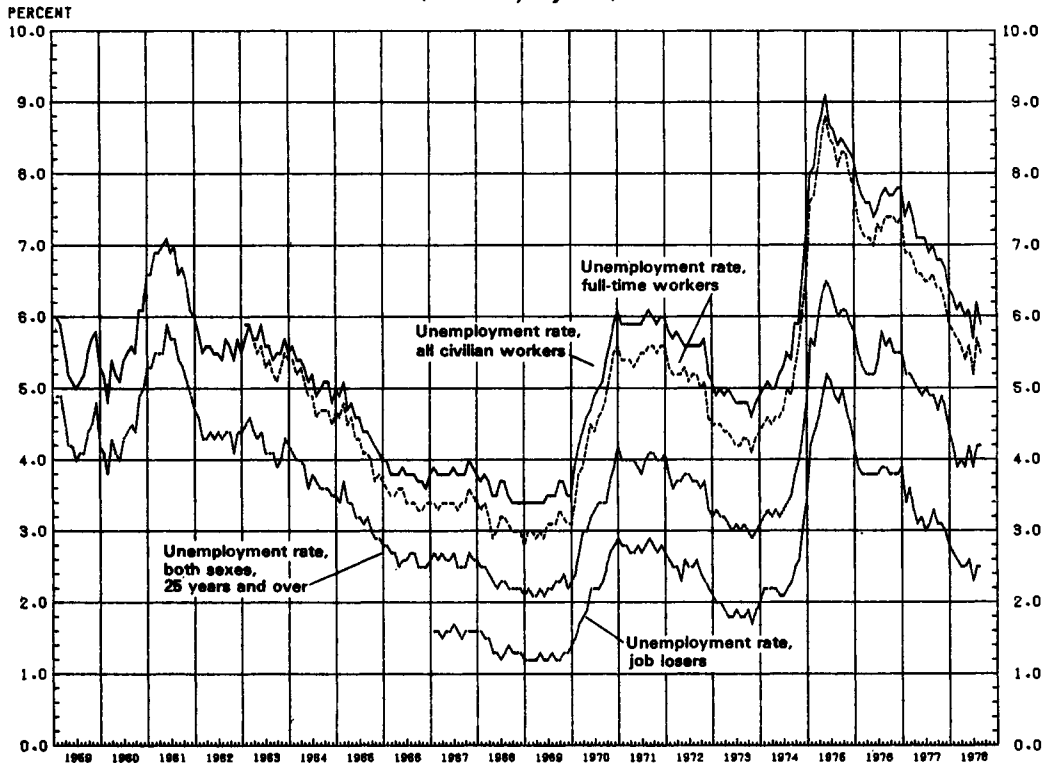
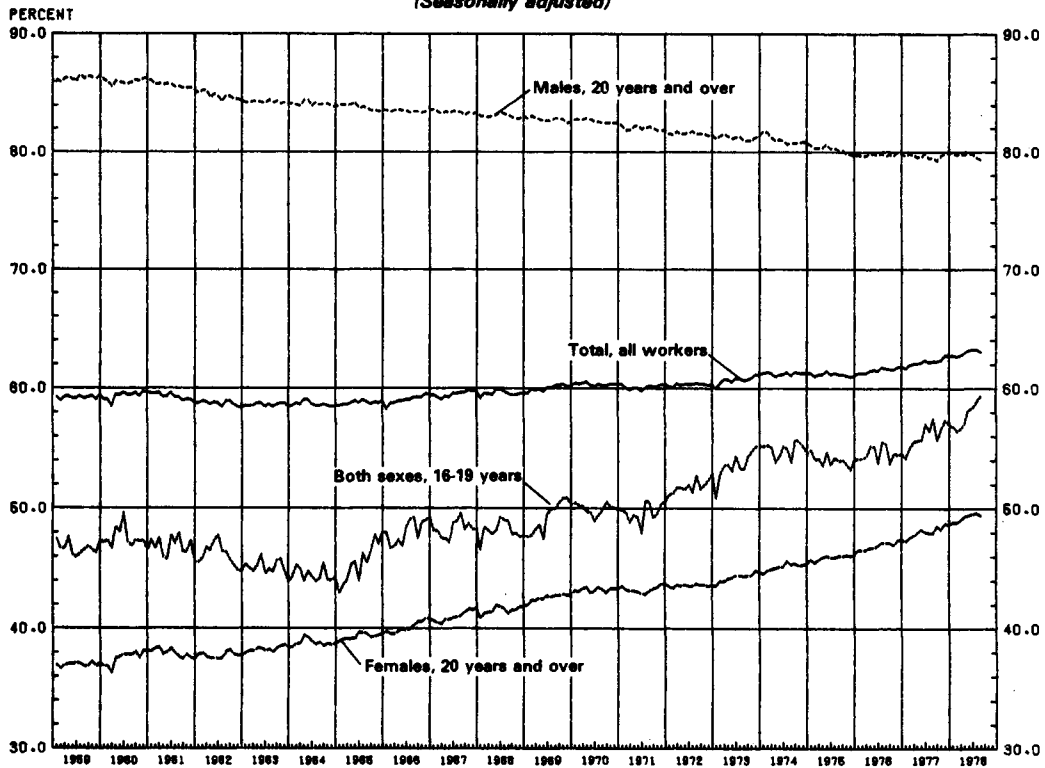


Chart 2. Major unemployment indicators
(Seasonally adjusted)



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

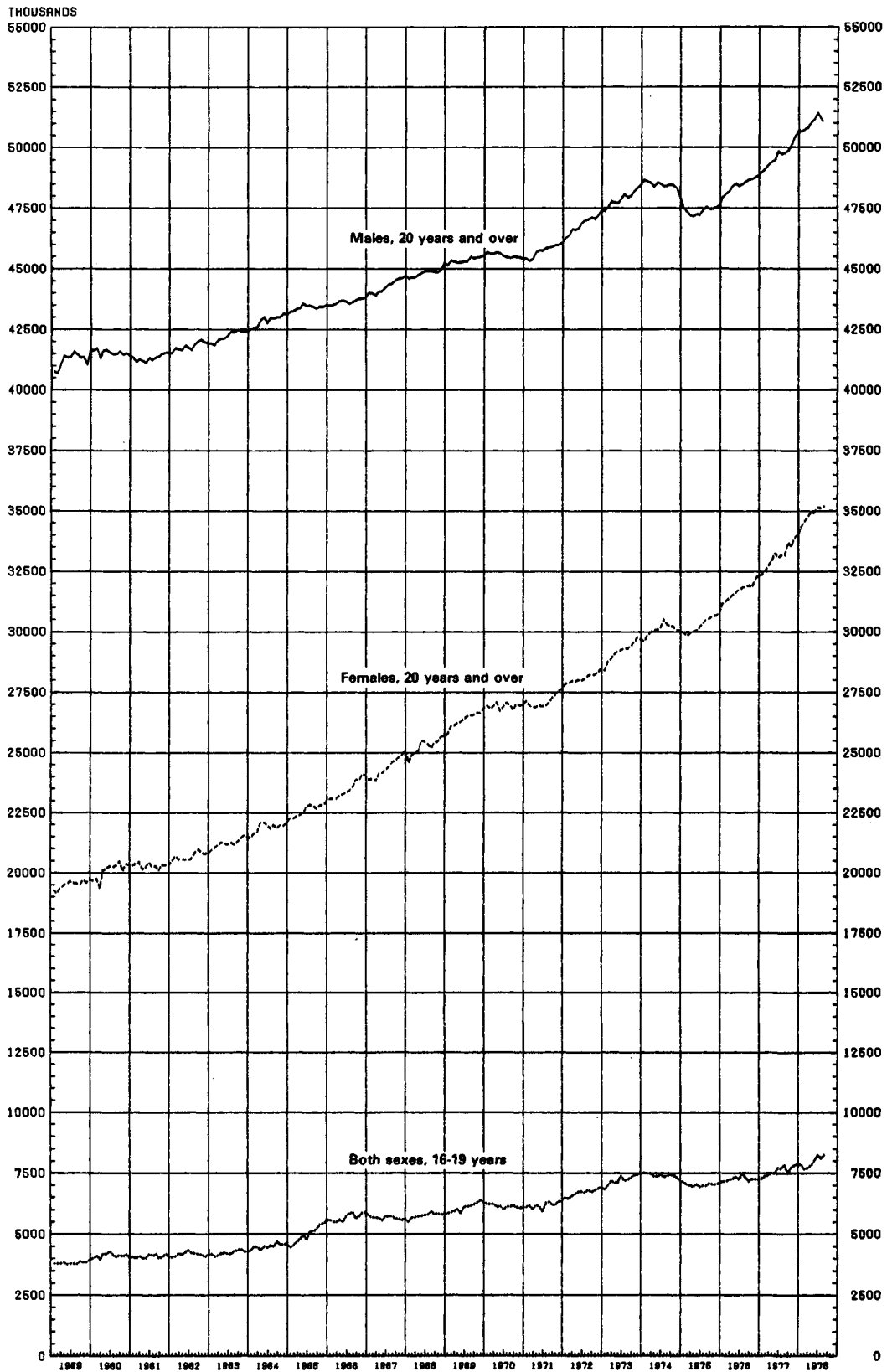
Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)



SOURCE: Table A-33.

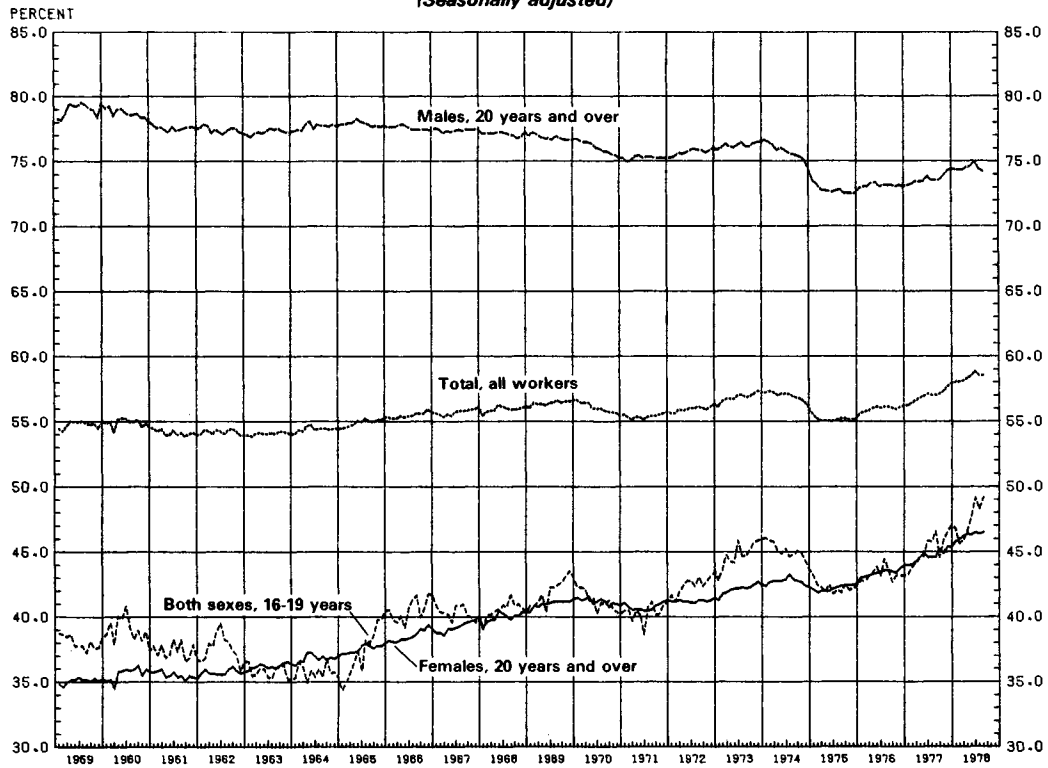
Chart 4. Total employment by sex and age

(Seasonally adjusted)



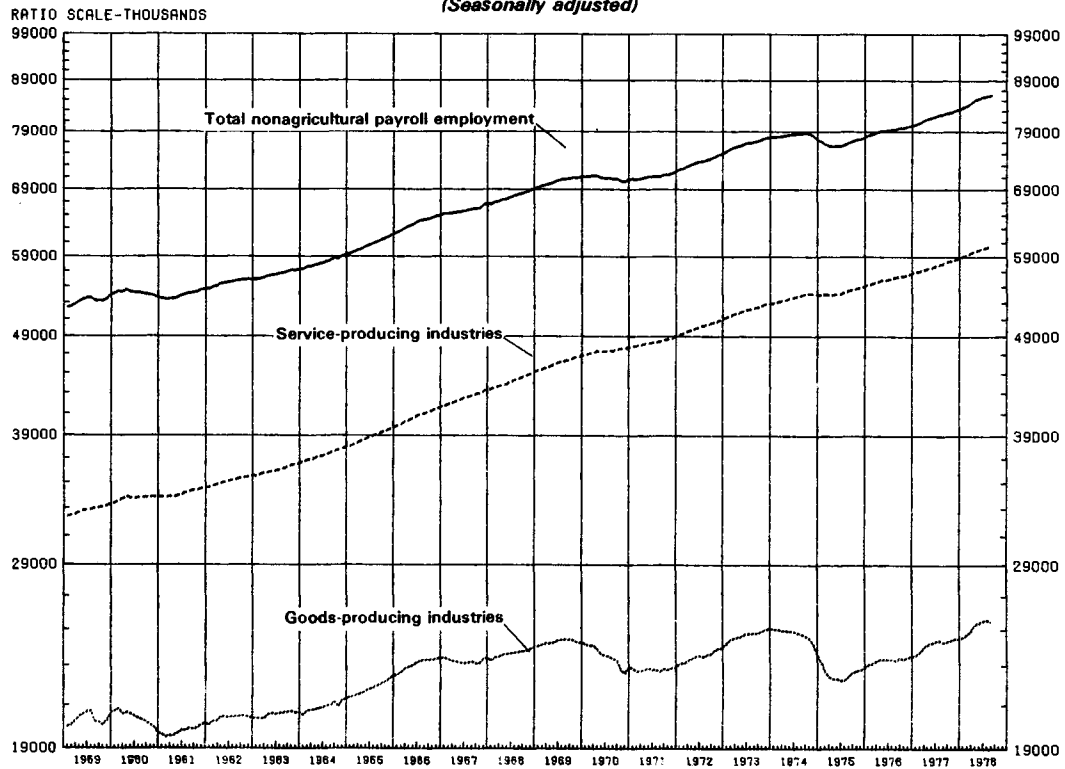
SOURCE: Table A-33.

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



SOURCE: Table A-33.

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

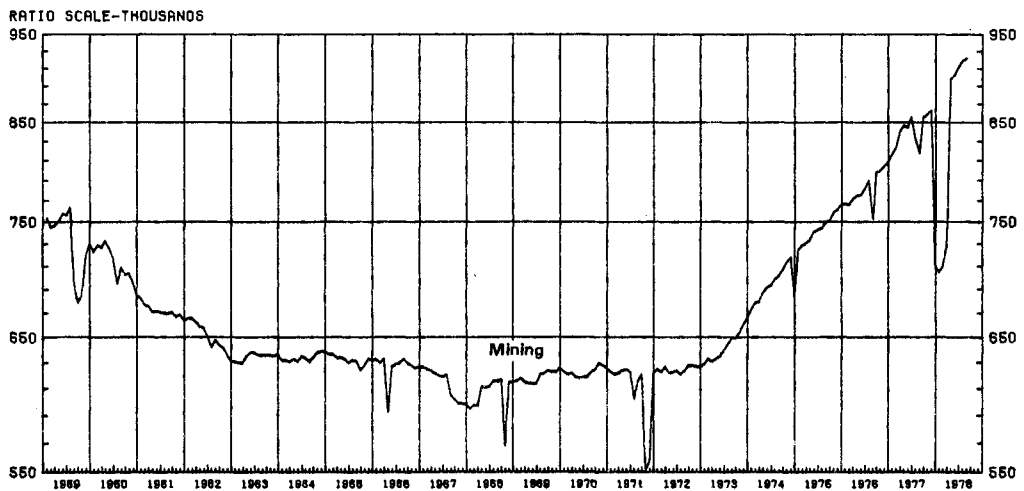
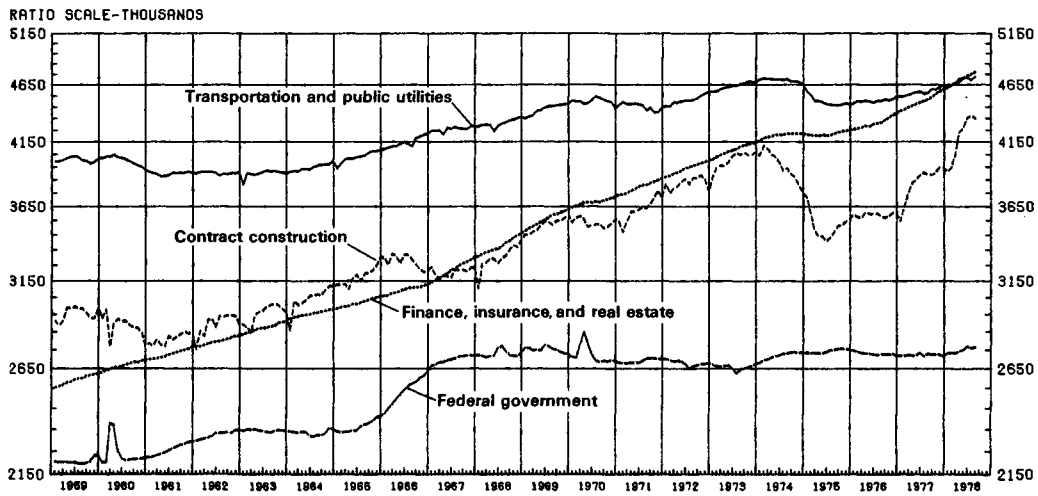
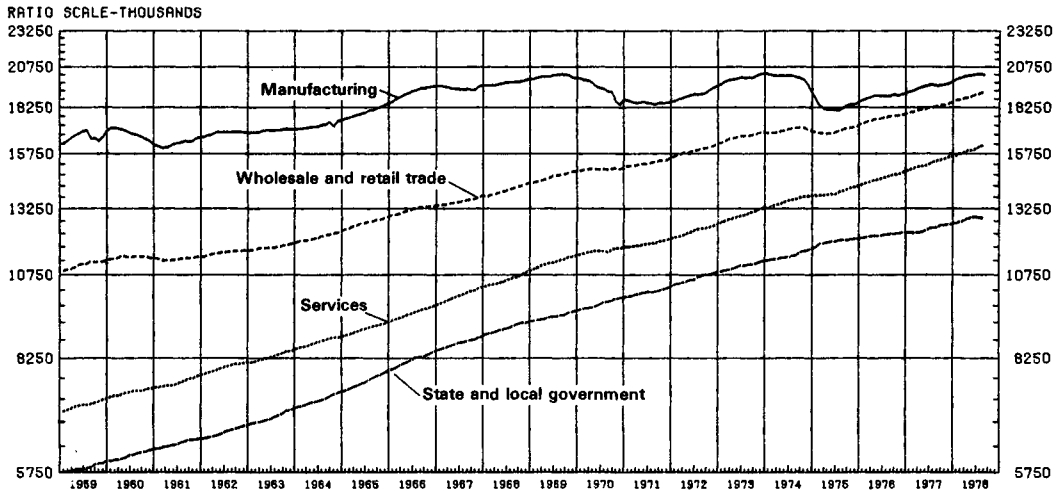


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

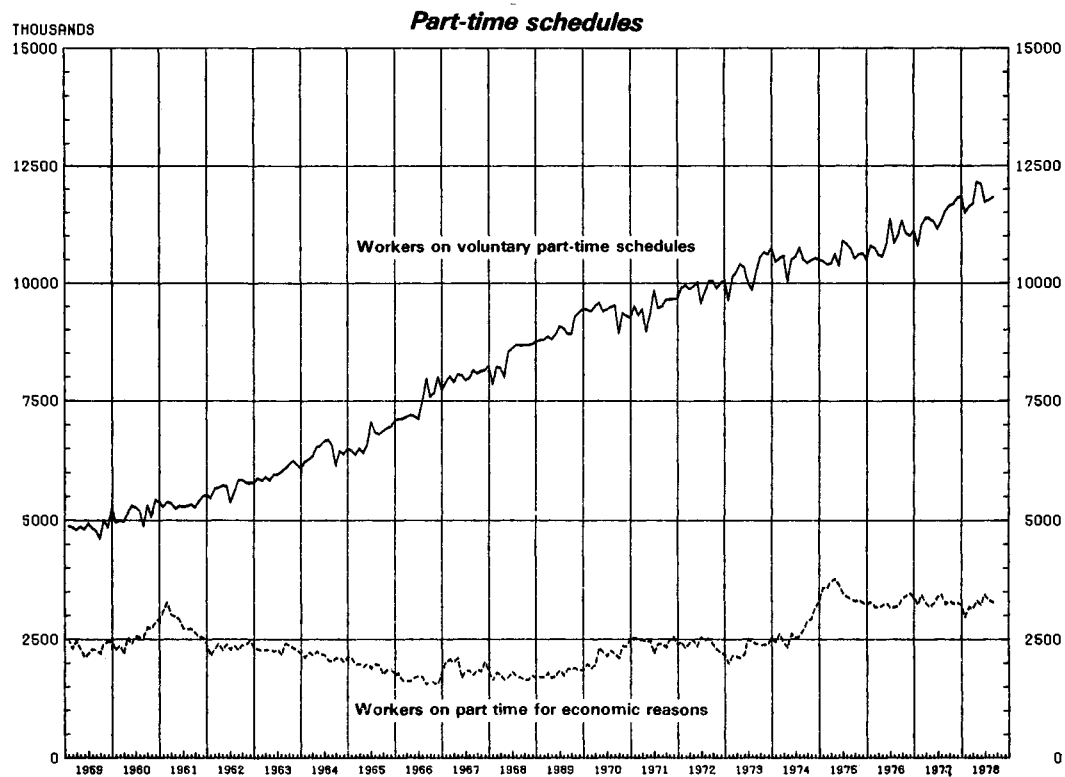
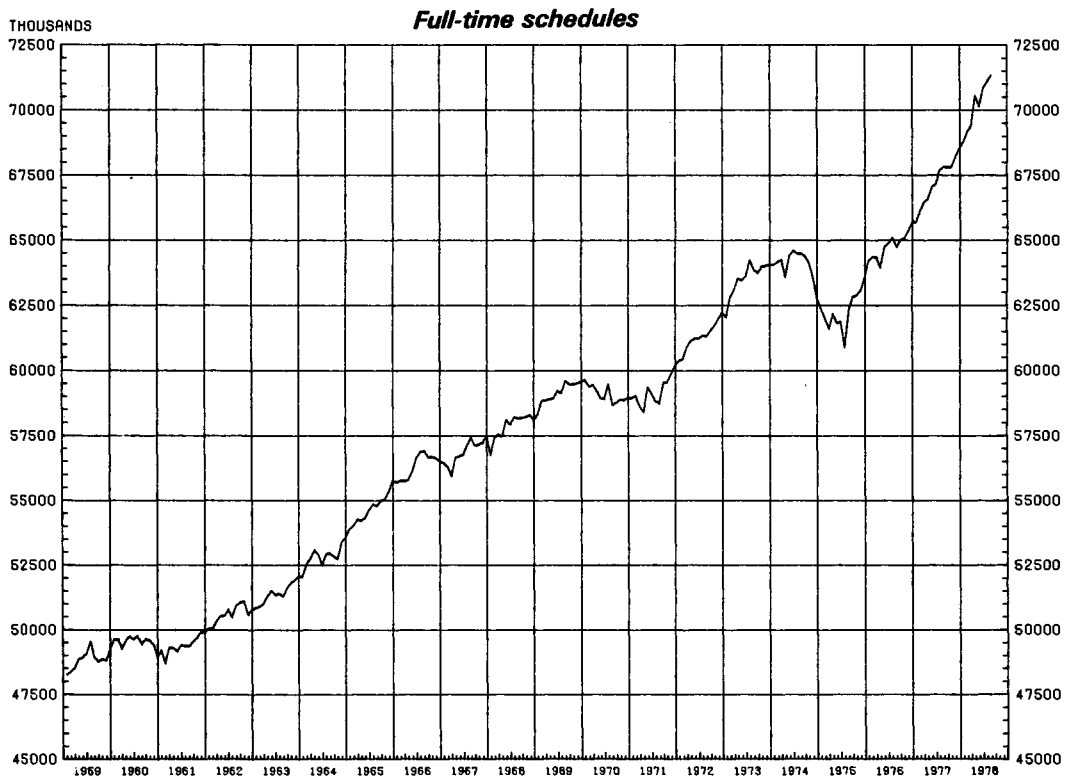


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

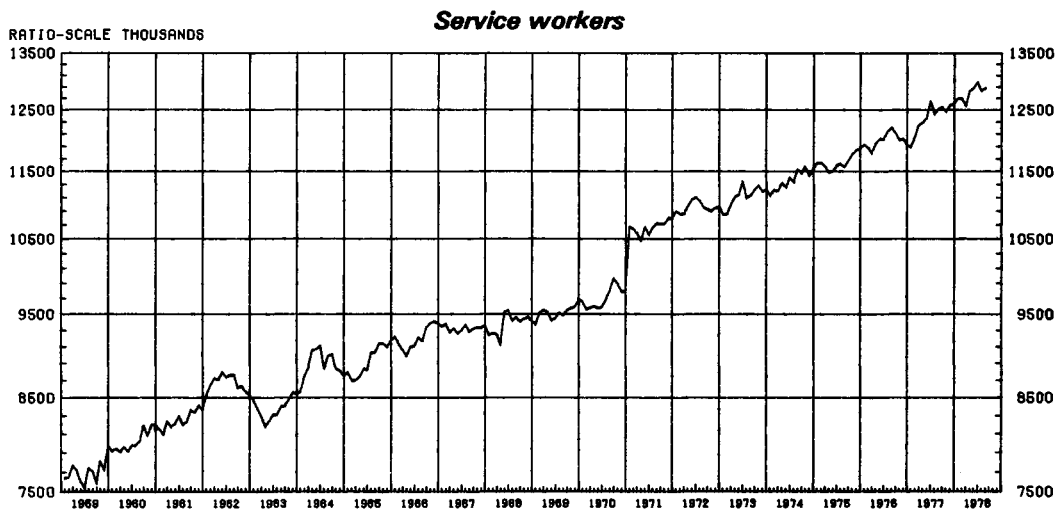
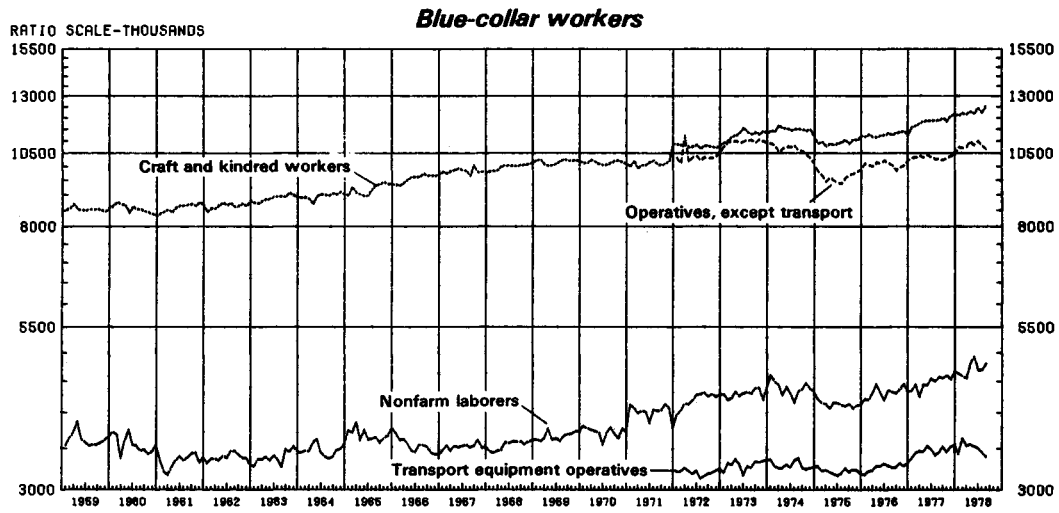
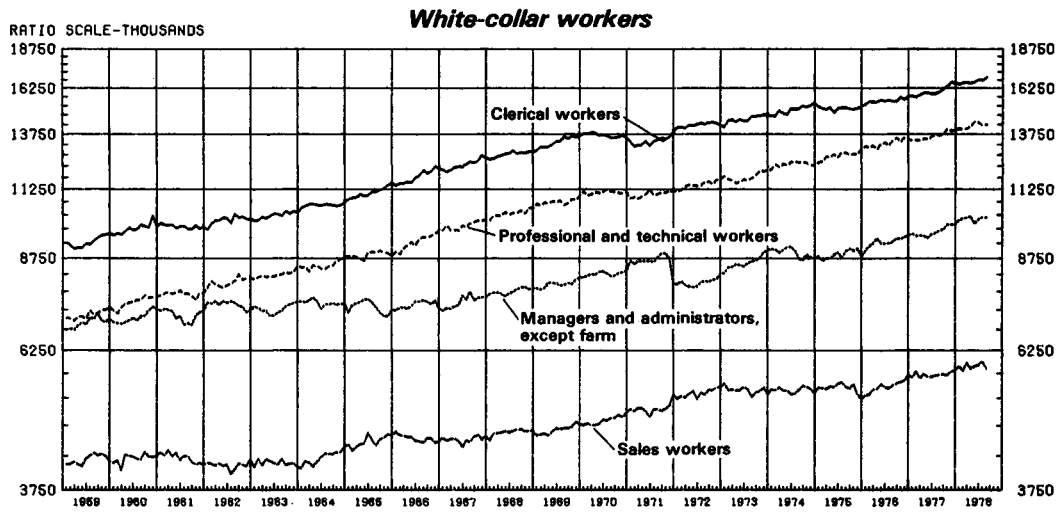
(Seasonally adjusted)



SOURCE: Table A-42.

Chart 9. Employment in nonfarm occupations

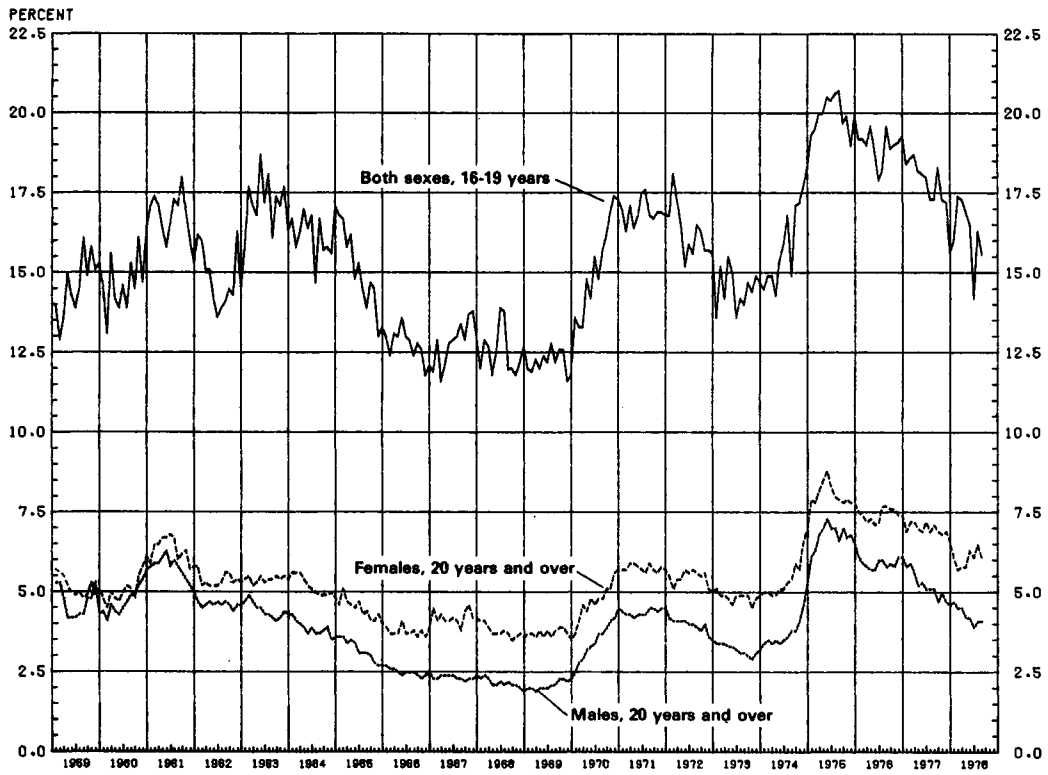
(Seasonally adjusted)



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.

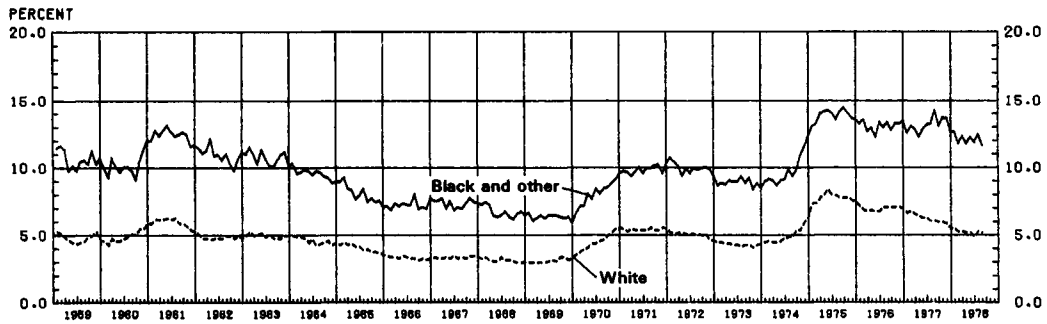
SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

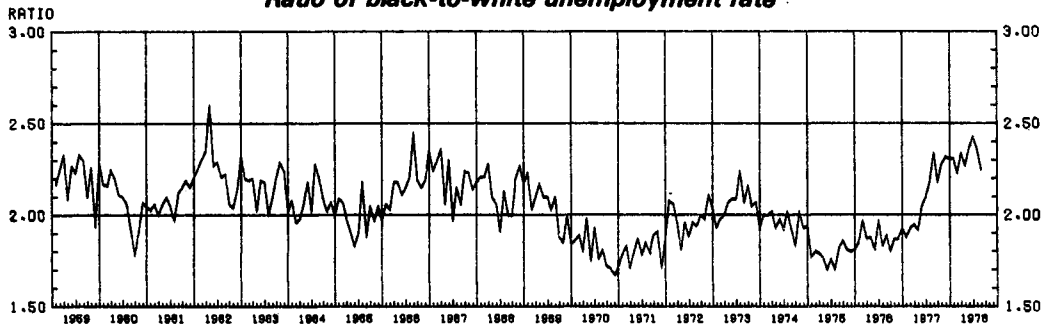


SOURCE: Table A-36.

Chart 11. Unemployment rates by race
(Seasonally adjusted)

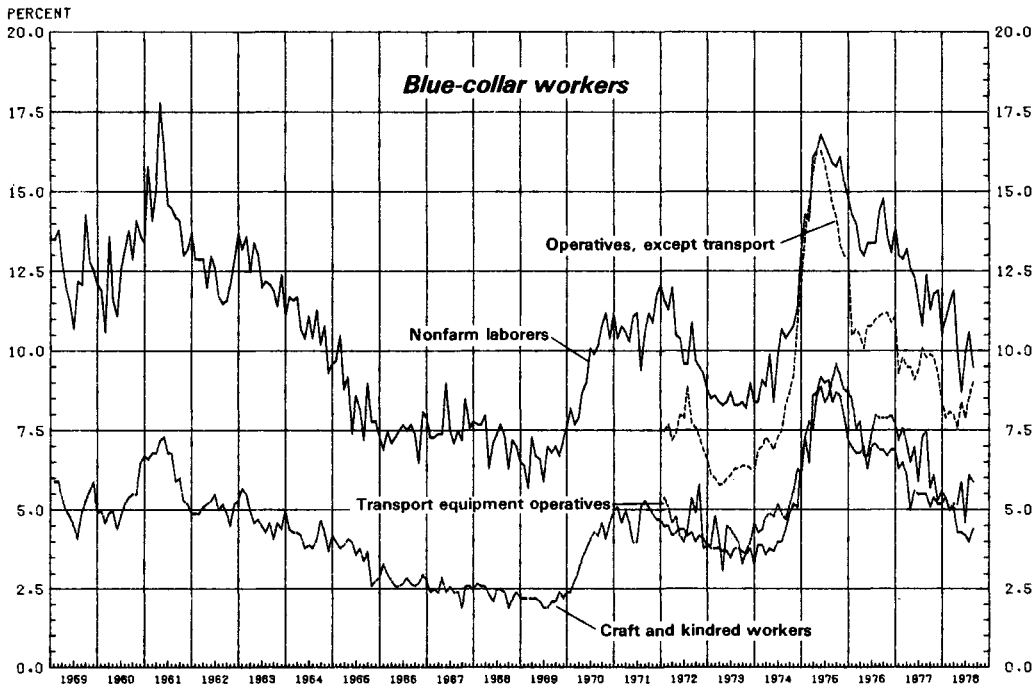
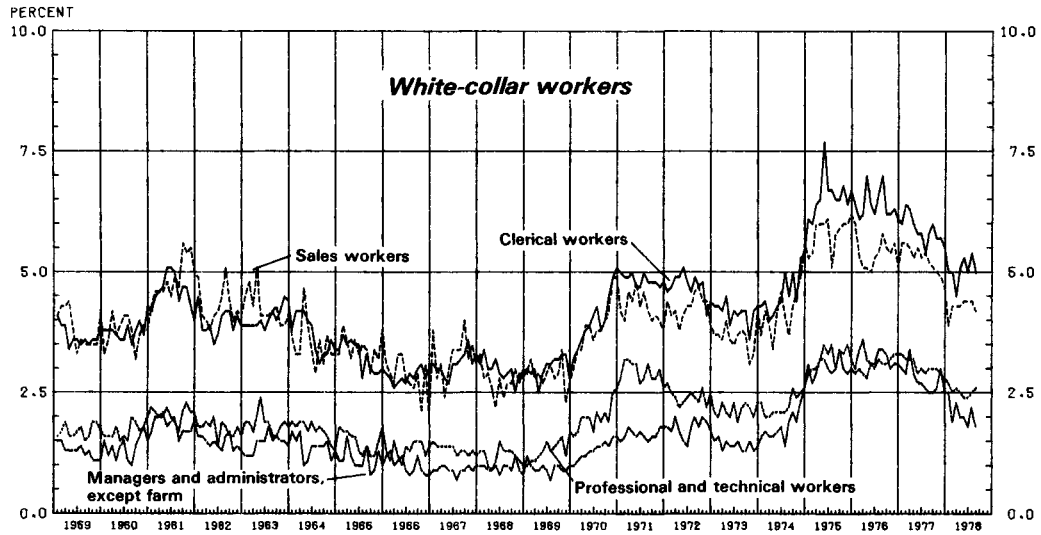


Ratio of black-to-white unemployment rate



SOURCE: Table A-35.

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

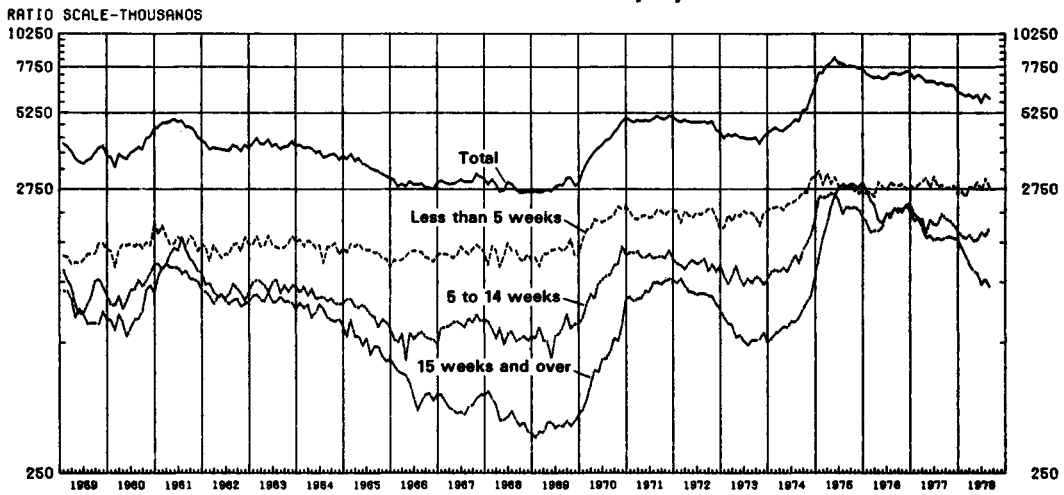


SOURCE: Table A-36.

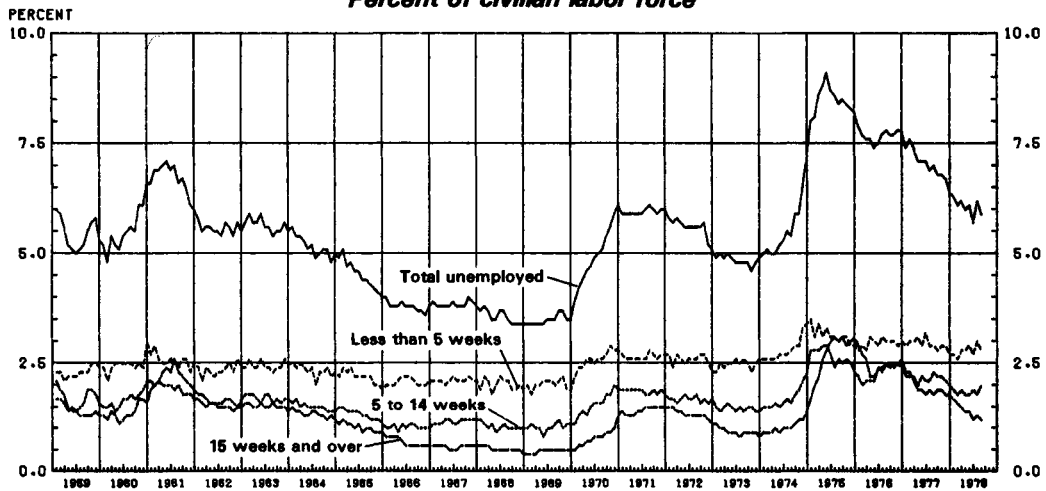
Chart 13. Duration of unemployment

(Seasonally adjusted)

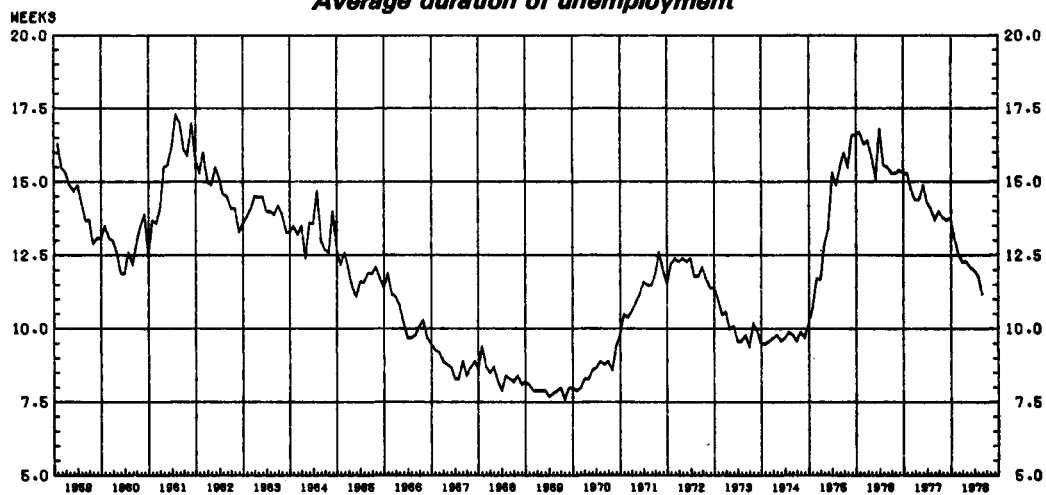
Number of workers unemployed



Percent of civilian labor force

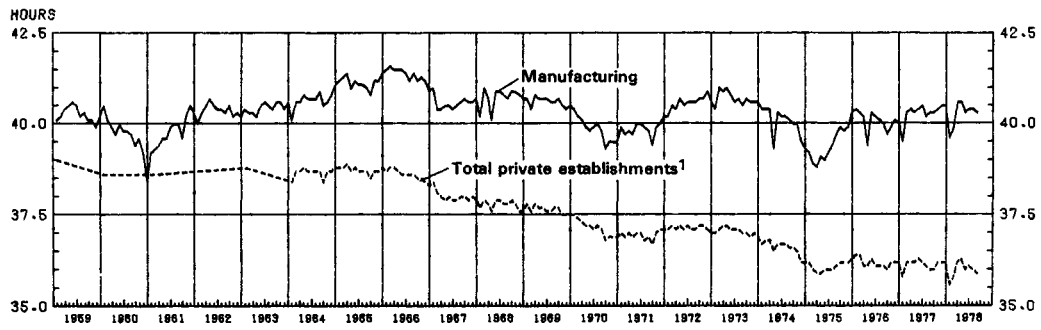


Average duration of unemployment

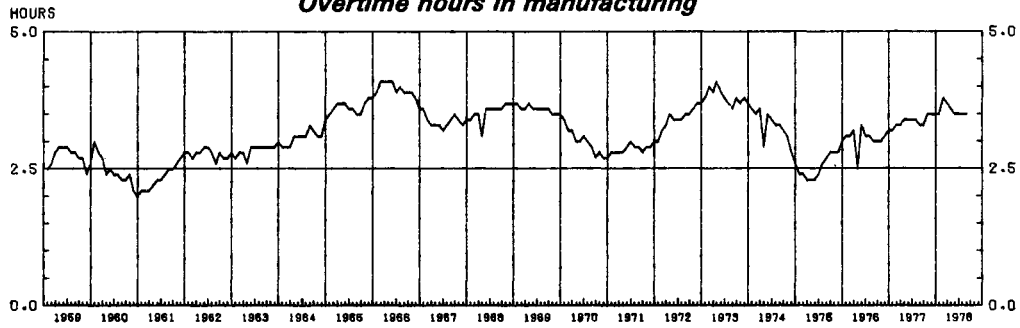


SOURCE: Table A-37.

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



Overtime hours in manufacturing

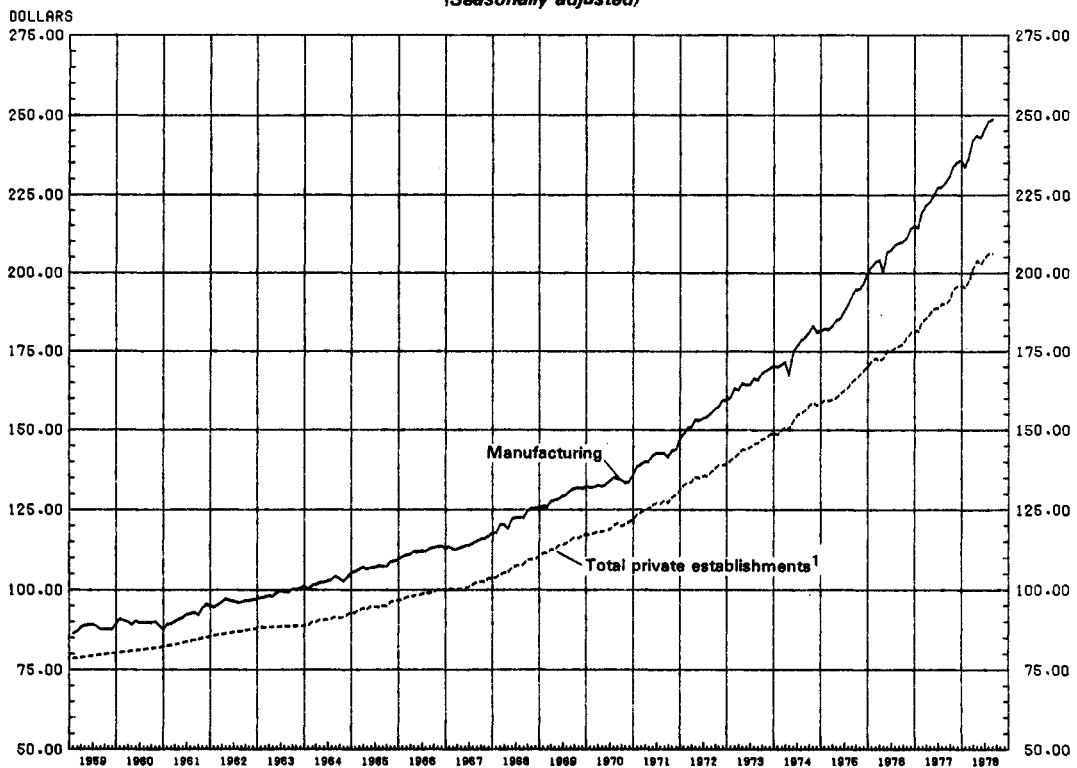


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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

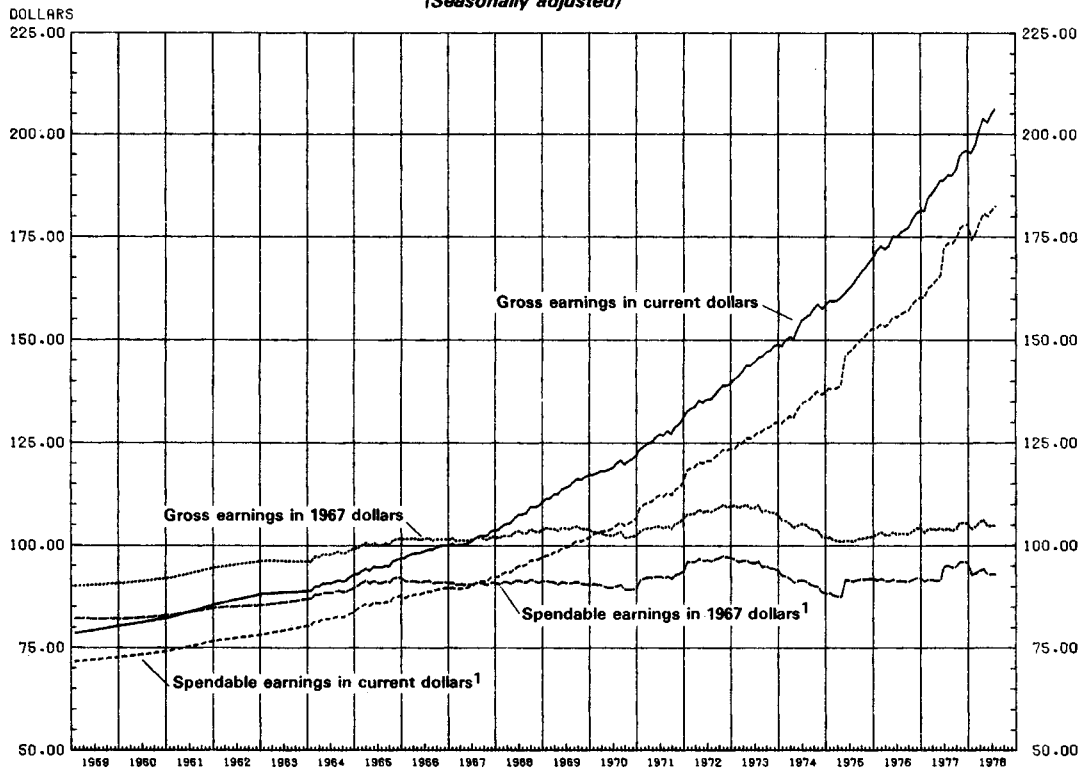


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

Chart 16. Total private gross and spendable weekly earnings
(Seasonally adjusted)

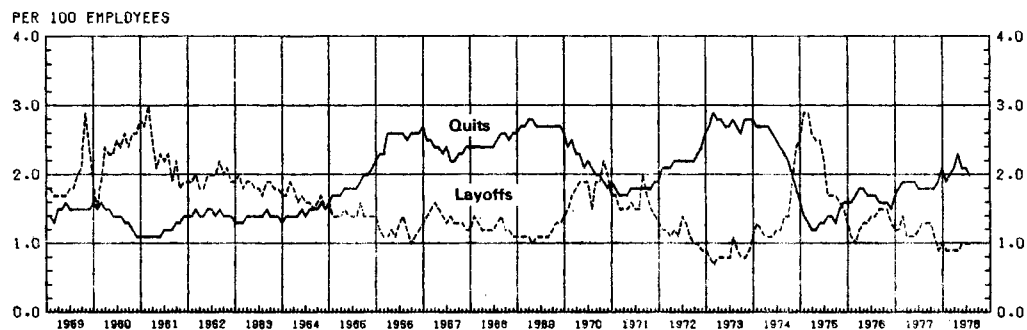
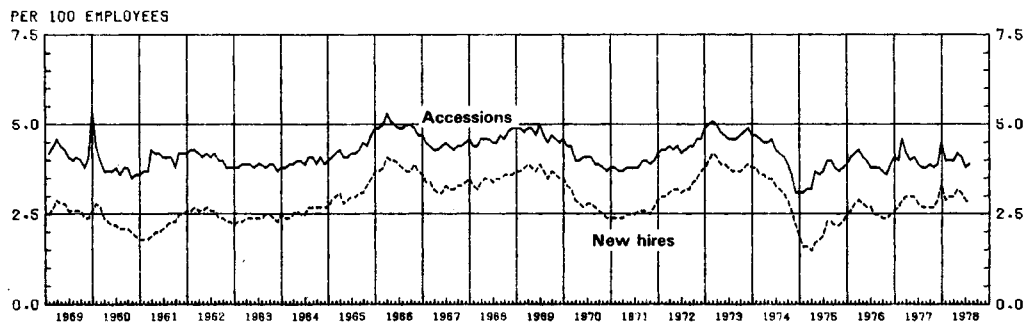


¹ Married worker with three dependents.

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

SOURCE: Table C-8.

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



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

**HOUSEHOLD DATA
HISTORICAL**

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

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL										
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 ¹	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 ¹	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 ¹	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
Monthly data, seasonally adjusted²										
1977:										
August.....	158,899	99,751	62.8	97,614	90,793	3,224	87,569	6,821	7.0	59,147
September.....	159,114	99,887	62.8	97,756	91,088	3,199	87,889	6,668	6.8	59,227
October.....	159,334	100,205	62.9	98,071	91,383	3,243	88,140	6,688	6.8	59,130
November.....	159,522	101,009	63.3	98,877	92,214	3,357	88,857	6,663	6.7	58,512
December.....	159,736	101,048	63.3	98,919	92,609	3,323	89,286	6,310	6.4	58,689
1978:										
January ¹	159,937	101,228	63.3	99,107	92,881	3,354	89,527	6,226	6.3	58,709
February.....	160,128	101,217	63.2	99,093	93,003	3,242	89,761	6,090	6.1	58,911
March.....	160,313	101,536	63.3	99,414	93,266	3,310	89,956	6,148	6.2	58,776
April.....	160,504	101,902	63.5	99,784	93,801	3,275	90,526	5,983	6.0	58,602
May.....	160,713	102,374	63.7	100,261	94,112	3,235	90,877	6,149	6.1	58,340
June.....	160,928	102,671	63.8	100,573	94,819	3,473	91,346	5,754	5.7	58,257
July.....	161,148	102,734	63.8	100,618	94,425	3,387	91,038	6,193	6.2	58,414
August.....	161,348	102,671	63.6	100,549	94,581	3,360	91,221	5,968	5.9	58,677

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	Agri-culture	Nonagri-cultural 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.....	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
Monthly data, seasonally adjusted ²										
1977:										
August.....	76,144	59,496	78.1	57,475	53,942	2,647	51,295	3,533	6.1	16,647
September.....	76,246	59,332	77.8	57,318	53,964	2,630	51,334	3,354	5.9	16,915
October.....	76,352	59,826	78.4	57,810	54,341	2,642	51,699	3,469	6.0	16,526
November.....	76,439	60,112	78.6	58,097	54,745	2,685	52,060	3,352	5.8	16,327
December.....	76,541	60,236	78.7	58,225	55,012	2,702	52,310	3,213	5.5	16,305
1978:										
January ¹	76,636	60,210	77.4	58,207	54,975	2,749	52,226	3,232	5.6	16,426
February.....	76,725	60,149	78.4	58,142	54,897	2,566	52,331	3,245	5.6	16,577
March.....	76,811	60,285	78.5	58,284	55,013	2,613	52,400	3,271	5.6	16,526
April.....	76,901	60,261	78.4	58,264	55,208	2,576	52,632	3,056	5.2	16,640
May.....	77,000	60,439	78.5	58,447	55,446	2,638	52,808	3,001	5.1	16,561
June.....	77,102	60,570	78.6	58,597	55,869	2,778	53,091	2,728	4.7	16,531
July.....	77,206	60,489	78.3	58,499	55,534	2,736	52,798	2,965	5.1	16,718
August.....	77,301	60,448	78.2	58,455	55,529	2,705	52,824	2,926	5.0	16,854
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.....	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
Monthly data, seasonally adjusted ²										
1977:										
August.....	82,755	40,255	48.6	40,139	36,851	577	36,274	3,288	8.2	42,500
September.....	82,868	40,556	48.9	40,438	37,124	569	36,555	3,314	8.2	42,312
October.....	82,983	40,379	48.7	40,261	37,042	601	36,441	3,219	8.0	42,604
November.....	83,082	40,898	49.2	40,780	37,469	672	36,797	3,311	8.1	42,185
December.....	83,195	40,812	49.1	40,694	37,597	621	36,976	3,097	7.6	42,385
1978:										
January ¹	83,301	41,017	48.6	40,900	37,906	605	37,301	2,994	7.3	42,284
February.....	83,403	41,068	49.2	40,951	38,106	676	37,430	2,845	6.9	42,335
March.....	83,501	41,252	49.4	41,130	38,253	697	37,556	2,877	7.0	42,250
April.....	83,603	41,641	49.8	41,520	38,593	699	37,894	2,927	7.0	41,962
May.....	83,714	41,935	50.1	41,814	38,666	597	38,069	3,148	7.5	41,779
June.....	83,826	42,101	50.2	41,976	38,950	695	38,255	3,026	7.2	41,725
July.....	83,941	42,245	50.3	42,119	38,891	651	38,240	3,228	7.7	41,696
August.....	84,047	42,224	50.2	42,094	39,052	655	38,397	3,042	7.2	41,824

See footnote 1, table A-1.

² See footnote 2, table A-1.

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	August 1978										
	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	61,934	80.1	59,942	57,191	2,750	4.6	15,367	391	625	1,727	12,624
16 to 21 years	10,197	79.9	9,524	8,487	1,037	10.9	2,570	37	328	40	2,166
16 to 19 years	6,332	74.7	6,039	5,304	734	12.2	2,142	28	189	20	1,906
18 to 17 years	2,738	64.7	2,716	2,324	392	14.4	1,494	21	82	11	1,381
18 to 19 years	3,593	84.7	3,323	2,980	343	10.3	648	7	107	9	525
20 to 64 years	53,692	90.4	51,993	50,052	1,940	3.7	5,727	157	436	1,235	3,898
20 to 24 years	9,268	91.4	8,511	7,860	651	7.7	876	14	257	47	558
25 to 54 years	37,356	94.3	36,414	35,269	1,145	3.1	2,260	89	178	686	1,308
25 to 29 years	8,465	95.4	8,094	7,687	407	5.0	407	11	98	37	260
30 to 34 years	7,513	96.2	7,267	7,053	214	2.9	300	16	45	89	149
35 to 39 years	6,105	96.2	5,910	5,754	156	2.6	239	4	15	71	150
40 to 44 years	5,183	94.7	5,092	4,961	132	2.6	289	15	11	111	152
45 to 49 years	5,069	92.5	5,037	4,906	131	2.6	412	18	6	146	242
50 to 54 years	5,020	89.1	5,013	4,909	104	2.1	613	26	1	231	354
55 to 64 years	7,069	73.2	7,068	6,924	144	2.0	2,590	53	2	503	2,032
55 to 59 years	4,407	83.1	4,406	4,305	101	2.3	896	24	--	249	623
60 to 64 years	2,662	61.1	2,662	2,619	43	1.6	1,693	29	2	253	1,409
65 years and over	1,910	20.3	1,910	1,835	75	3.9	7,498	206	--	473	6,820
65 to 69 years	1,120	30.0	1,120	1,065	54	4.9	2,610	69	--	175	2,366
70 years and over	790	13.9	790	769	21	2.6	4,889	138	--	297	4,454
White											
16 years and over	55,147	80.9	53,546	51,431	2,116	4.0	13,029	331	482	1,387	10,830
16 to 21 years	8,966	82.5	8,436	7,661	775	9.2	1,904	24	233	22	1,624
16 to 19 years	5,585	77.7	5,354	4,792	562	10.5	1,605	22	126	13	1,444
18 to 17 years	2,424	67.8	2,406	2,099	307	12.8	1,151	15	61	8	1,066
18 to 19 years	3,161	87.4	2,949	2,693	255	8.7	454	6	65	5	378
20 to 64 years	47,849	91.1	46,479	44,987	1,493	3.2	4,661	127	356	982	3,196
20 to 24 years	8,105	92.7	7,514	7,040	474	6.3	638	7	201	27	403
25 to 54 years	33,320	95.1	32,542	31,650	891	2.7	1,706	70	152	536	948
25 to 29 years	14,156	96.4	13,654	13,183	471	3.5	523	17	119	102	284
30 to 34 years	10,076	96.4	9,835	9,601	235	2.4	382	15	25	142	199
35 to 44 years	9,087	91.9	9,052	8,866	186	2.1	801	38	8	290	466
45 to 54 years	6,424	73.5	6,423	6,297	127	2.0	2,318	50	3	419	1,845
55 to 64 years	3,999	83.6	3,998	3,911	88	2.2	783	23	1	207	552
55 to 59 years	2,425	61.2	2,425	2,386	39	1.6	1,535	27	2	212	1,294
60 to 64 years	1,713	20.2	1,713	1,651	61	3.6	6,763	182	--	391	6,190
65 years and over	1,713	20.2	1,713	1,651	61	3.6	6,763	182	--	391	6,190
Black and other											
16 years and over	6,787	74.4	6,395	5,761	635	9.9	2,338	60	143	341	1,794
16 to 21 years	1,231	64.9	1,088	826	262	24.1	666	13	94	18	542
16 to 19 years	747	58.1	685	512	173	25.3	538	6	63	7	462
18 to 17 years	314	47.8	310	225	85	27.4	343	5	21	2	315
18 to 19 years	433	69.0	375	287	88	23.5	194	1	42	4	147
20 to 64 years	5,844	84.6	5,513	5,066	448	8.1	1,065	30	80	253	702
20 to 24 years	1,163	83.0	997	820	177	17.8	239	7	56	20	156
25 to 54 years	4,036	87.9	3,872	3,619	253	6.5	553	20	24	149	360
25 to 29 years	1,822	90.8	1,707	1,557	150	8.8	184	10	24	23	126
30 to 34 years	1,212	89.2	1,167	1,114	53	4.6	147	3	1	39	103
35 to 44 years	1,002	81.8	998	948	49	5.0	223	6	--	87	130
45 to 54 years	645	70.3	645	627	18	2.7	272	2	--	84	186
55 to 64 years	408	78.2	408	394	14	3.4	114	--	--	43	71
55 to 59 years	237	59.9	237	233	4	1.6	159	2	--	41	115
60 to 64 years	197	21.1	197	183	14	7.1	735	24	--	81	630

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	August 1978										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	42,235	50.3	42,106	38,925	3,181	7.6	41,812	33,134	666	1,011	7,002
16 to 21 years	8,207	65.6	8,155	7,026	1,129	13.8	4,299	1,707	382	16	2,194
16 to 19 years	5,208	62.8	5,187	4,379	807	15.6	3,086	957	247	14	1,868
16 to 17 years	2,285	55.8	2,284	1,873	412	18.0	1,813	384	125	6	1,298
18 to 19 years	2,922	69.7	2,902	2,507	396	13.6	1,273	573	123	8	569
20 to 64 years	35,982	57.7	35,873	33,530	2,343	6.5	26,340	22,517	412	455	2,956
20 to 24 years	7,183	70.9	7,116	6,416	700	9.8	2,947	2,138	219	13	577
25 to 54 years	24,439	59.0	24,398	22,903	1,495	6.1	16,953	14,858	184	259	1,652
25 to 29 years	5,646	62.4	5,617	5,199	418	7.4	3,399	2,962	91	34	313
30 to 34 years	4,699	58.6	4,691	4,312	379	8.1	3,319	2,960	45	20	294
35 to 39 years	3,877	58.1	3,874	3,665	209	5.4	2,798	2,449	23	40	287
40 to 44 years	3,526	60.9	3,525	3,331	194	5.5	2,260	1,967	9	40	244
45 to 49 years	3,419	59.1	3,418	3,274	144	4.2	2,365	2,057	12	56	241
50 to 54 years	3,272	53.8	3,272	3,122	150	4.6	2,811	2,462	5	69	274
55 to 64 years	4,360	40.4	4,360	4,210	150	3.4	6,440	5,522	9	182	727
55 to 59 years	2,783	47.7	2,783	2,692	91	3.3	3,049	2,663	5	82	299
60 to 64 years	1,577	31.7	1,577	1,518	58	3.7	3,391	2,859	3	100	428
65 years and over	1,046	7.8	1,046	1,016	30	2.8	12,386	9,659	6	542	2,178
65 to 69 years	665	14.2	665	644	21	3.2	4,034	3,321	4	104	605
70 years and over	381	4.4	381	372	8	2.2	8,352	6,339	2	438	1,573
White											
16 years and over	36,329	49.5	36,226	33,825	2,401	6.6	37,015	29,789	528	780	5,918
16 to 21 years	7,168	67.9	7,127	6,292	835	11.7	3,387	1,358	308	14	1,707
16 to 19 years	4,571	65.4	4,554	3,949	605	13.3	2,414	735	200	12	1,466
16 to 17 years	2,020	58.7	2,019	1,703	316	15.7	1,422	280	97	4	1,041
18 to 19 years	2,551	72.0	2,535	2,246	289	11.4	992	455	104	8	425
20 to 64 years	30,841	56.9	30,755	28,983	1,772	5.8	23,336	20,133	322	339	2,542
20 to 24 years	6,191	72.0	6,137	5,646	492	8.0	2,402	1,786	171	11	433
25 to 54 years	20,788	58.0	20,755	19,594	1,162	5.6	15,080	13,298	145	179	1,459
25 to 34 years	8,659	59.1	8,631	8,026	605	7.0	5,996	5,305	103	38	550
35 to 44 years	6,293	58.4	6,290	5,980	309	4.9	4,486	3,945	27	58	456
45 to 54 years	5,835	55.9	5,835	5,587	247	4.2	4,599	4,048	14	84	453
55 to 64 years	3,863	39.8	3,863	3,744	119	3.1	5,854	5,049	6	149	650
55 to 59 years	2,466	47.2	2,466	2,395	71	2.9	2,762	2,419	3	67	272
60 to 64 years	1,397	31.1	1,397	1,349	48	3.4	3,092	2,630	3	82	378
65 years and over	917	7.5	917	893	24	2.7	11,265	8,921	5	429	1,910
Black and other											
16 years and over	5,906	55.2	5,879	5,100	780	13.3	4,797	3,345	138	231	1,084
16 to 21 years	1,038	53.2	1,028	734	294	28.6	912	349	74	2	487
16 to 19 years	636	48.6	633	430	202	32.0	673	222	47	2	402
16 to 17 years	265	40.4	265	170	95	36.0	391	104	28	1	258
18 to 19 years	371	56.9	368	261	107	29.1	282	118	19	--	144
20 to 64 years	5,141	63.1	5,118	4,546	572	11.2	3,003	2,384	89	115	414
20 to 24 years	993	64.5	978	770	208	21.3	546	352	48	2	144
25 to 54 years	3,652	66.1	3,643	3,310	333	9.1	1,872	1,559	39	80	194
25 to 34 years	1,686	70.0	1,678	1,485	192	11.5	722	617	32	17	57
35 to 44 years	1,110	66.0	1,109	1,016	94	8.4	573	472	4	22	74
45 to 54 years	855	59.7	855	808	47	5.5	577	471	3	41	63
55 to 64 years	497	45.9	497	467	30	6.1	586	473	2	33	77
55 to 59 years	317	52.5	317	297	20	6.3	287	244	2	15	26
60 to 64 years	180	37.6	180	169	10	5.8	299	229	1	18	50
65 years and over	129	10.3	129	124	5	4.1	1,121	738	2	114	268

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	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
MALES								
16 years and over	60,906	61,934	80.0	80.1	58,885	59,942	79.4	79.6
16 to 19 years	6,234	6,332	73.3	74.7	5,907	6,039	72.3	73.8
16 to 17 years	2,696	2,738	63.5	64.7	2,668	2,716	63.2	64.5
18 to 19 years	3,538	3,593	83.2	84.7	3,239	3,323	81.9	83.7
20 to 24 years	9,106	9,268	91.3	91.4	8,357	8,511	90.6	90.7
25 to 54 years	36,736	37,356	94.4	94.3	35,791	36,414	94.3	94.2
25 to 34 years	15,654	15,979	96.1	95.8	15,036	15,361	95.9	95.6
35 to 44 years	10,909	11,288	95.6	95.5	10,622	11,003	95.5	95.4
45 to 54 years	10,173	10,089	90.8	90.8	10,134	10,050	90.8	90.7
55 to 64 years	7,004	7,069	73.4	73.2	7,003	7,068	73.4	73.2
55 to 59 years	4,357	4,407	83.5	83.1	4,356	4,406	83.5	83.1
60 to 64 years	2,647	2,662	61.2	61.1	2,647	2,662	61.2	61.1
65 years and over	1,827	1,910	19.8	20.3	1,827	1,910	19.8	20.3
White								
16 years and over	54,278	55,147	80.7	80.9	52,617	53,546	80.2	80.4
16 to 19 years	5,433	5,585	75.1	77.7	5,164	5,354	74.1	76.9
16 to 17 years	2,369	2,424	65.8	67.8	2,345	2,406	65.6	67.6
18 to 19 years	3,064	3,161	84.3	87.4	2,819	2,949	83.1	86.7
20 to 24 years	7,964	8,105	92.4	92.7	7,368	7,514	91.8	92.2
25 to 54 years	32,794	33,320	95.2	95.1	32,002	32,542	95.1	95.0
25 to 34 years	13,890	14,156	96.6	96.4	13,375	13,654	96.5	96.3
35 to 44 years	9,697	10,076	96.2	96.4	9,454	9,835	96.1	96.3
45 to 54 years	9,207	9,087	92.1	91.9	9,172	9,052	92.1	91.9
55 to 64 years	6,421	6,424	74.3	73.5	6,420	6,423	74.3	73.5
55 to 59 years	3,977	3,999	84.3	83.6	3,975	3,998	84.3	83.6
60 to 64 years	2,445	2,425	62.2	61.2	2,445	2,425	62.2	61.2
65 years and over	1,664	1,713	20.0	20.2	1,664	1,713	20.0	20.2
Black and other								
16 years and over	6,629	6,787	74.7	74.4	6,268	6,395	73.6	73.2
16 to 19 years	800	747	63.2	58.1	743	685	61.4	56.0
16 to 17 years	327	314	50.4	47.8	323	310	50.1	47.5
18 to 19 years	473	433	76.6	69.0	420	375	74.4	65.8
20 to 24 years	1,141	1,163	84.4	83.0	989	997	82.4	80.7
25 to 54 years	3,941	4,036	88.5	87.9	3,789	3,872	88.0	87.5
25 to 34 years	1,764	1,822	91.8	90.8	1,660	1,707	91.3	90.3
35 to 44 years	1,212	1,212	91.6	89.2	1,168	1,167	91.3	88.8
45 to 54 years	965	1,002	79.8	81.8	961	998	79.7	81.7
55 to 64 years	583	645	65.1	70.3	583	645	65.1	70.3
55 to 59 years	381	408	75.8	78.2	381	408	75.8	78.2
60 to 64 years	202	237	51.4	59.9	202	237	51.4	59.9
65 years and over	163	197	18.0	21.1	163	197	18.0	21.1

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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	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
FEMALES								
16 years and over	40,304	42,235	48.7	50.3	40,188	42,106	48.6	50.2
16 to 19 years	5,018	5,208	60.3	62.8	4,999	5,187	60.2	62.7
16 to 17 years	2,071	2,285	50.3	55.8	2,070	2,284	50.3	55.7
18 to 19 years	2,947	2,922	70.0	69.7	2,929	2,902	69.9	69.5
20 to 24 years	6,839	7,183	68.7	70.9	6,775	7,116	68.5	70.7
25 to 54 years	23,229	24,439	57.1	59.0	23,196	24,398	57.1	59.0
25 to 34 years	9,756	10,345	58.6	60.6	9,727	10,308	58.5	60.5
35 to 44 years	6,950	7,403	57.7	59.4	6,946	7,399	57.7	59.4
45 to 54 years	6,524	6,691	54.4	56.4	6,523	6,690	54.4	56.4
55 to 64 years	4,240	4,360	39.7	40.4	4,240	4,360	39.7	40.4
55 to 59 years	2,695	2,783	47.0	47.7	2,695	2,783	47.0	47.7
60 to 64 years	1,545	1,577	31.3	31.7	1,545	1,577	31.3	31.7
65 years and over	978	1,046	7.5	7.8	978	1,046	7.5	7.8
White								
16 years and over	34,883	36,329	48.2	49.5	34,789	36,226	48.1	49.5
16 to 19 years	4,454	4,571	63.3	65.4	4,439	4,554	63.3	65.4
16 to 17 years	1,878	2,020	54.2	58.7	1,877	2,019	54.2	58.7
18 to 19 years	2,577	2,551	72.3	72.0	2,561	2,535	72.1	71.9
20 to 24 years	5,905	6,191	69.8	72.0	5,854	6,137	69.6	71.9
25 to 54 years	19,848	20,788	56.2	58.0	19,821	20,755	56.1	57.9
25 to 34 years	8,235	8,659	57.4	59.1	8,212	8,631	57.3	59.0
35 to 44 years	5,933	6,293	57.0	58.4	5,930	6,290	57.0	58.4
45 to 54 years	5,680	5,835	53.7	55.9	5,679	5,835	53.7	55.9
55 to 64 years	3,801	3,863	39.5	39.8	3,801	3,863	39.5	39.8
55 to 59 years	2,413	2,466	46.8	47.2	2,413	2,466	46.8	47.2
60 to 64 years	1,388	1,397	31.1	31.1	1,388	1,397	31.1	31.1
65 years and over	875	917	7.3	7.5	875	917	7.3	7.5
Black and other								
16 years and over	5,420	5,906	52.1	55.2	5,398	5,879	52.0	55.1
16 to 19 years	563	636	43.5	48.6	560	633	43.4	48.5
16 to 17 years	193	265	29.7	40.4	193	265	29.7	40.4
18 to 19 years	370	371	57.5	56.9	367	368	57.4	56.6
20 to 24 years	934	993	62.7	64.5	921	978	62.4	64.2
25 to 54 years	3,381	3,652	63.1	66.1	3,375	3,643	63.0	66.1
25 to 34 years	1,521	1,686	66.0	70.0	1,515	1,678	65.9	69.9
35 to 44 years	1,017	1,110	62.1	66.0	1,016	1,109	62.1	66.0
45 to 54 years	843	855	59.6	59.7	843	855	59.6	59.7
55 to 64 years	439	497	41.6	45.9	439	497	41.6	45.9
55 to 59 years	282	317	48.6	52.5	282	317	48.6	52.5
60 to 64 years	157	180	33.1	37.6	157	180	33.1	37.6
65 years and over	103	129	8.6	10.3	103	129	8.6	10.3

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

[Numbers in thousands]

Sex and age	August 1978						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Total							
16 years and over	10,433	9,175	246	8,929	1,258	12.1	6,238
16 to 19 years	1,128	780	47	733	348	30.9	1,079
16 to 17 years	487	320	26	294	167	34.2	663
18 to 19 years	641	460	21	439	182	28.3	416
20 to 24 years	1,713	1,371	35	1,336	341	19.9	669
25 to 54 years	6,301	5,787	83	5,705	513	8.1	2,072
25 to 34 years	2,827	2,523	23	2,500	303	10.7	728
35 to 44 years	1,927	1,797	26	1,771	130	6.7	624
45 to 54 years	1,547	1,467	33	1,434	80	5.2	720
55 to 64 years	1,007	965	44	921	42	4.2	769
55 to 59 years	641	610	26	583	31	4.9	349
60 to 64 years	366	355	18	338	11	2.9	420
65 years and over	284	271	37	234	13	4.7	1,649
Males							
16 years and over	5,397	4,837	203	4,634	560	10.4	2,074
16 to 19 years	582	422	38	384	161	27.7	476
16 to 17 years	259	181	21	161	77	29.7	310
18 to 19 years	324	240	17	223	84	25.9	166
20 to 24 years	858	705	26	679	153	17.8	200
25 to 54 years	3,238	3,012	72	2,941	225	6.9	502
25 to 34 years	1,418	1,276	22	1,254	140	9.9	152
35 to 44 years	983	936	20	917	46	4.7	140
45 to 54 years	838	799	29	770	38	4.5	210
55 to 64 years	557	544	36	508	13	2.3	252
55 to 59 years	352	340	21	318	12	3.4	103
60 to 64 years	205	205	15	191	1	.5	149
65 years and over	161	153	31	121	8	5.0	643
Females							
16 years and over	5,036	4,338	43	4,295	698	13.9	4,164
16 to 19 years	546	358	9	349	187	34.3	603
16 to 17 years	228	139	5	133	90	39.3	353
18 to 19 years	317	220	4	216	98	30.8	250
20 to 24 years	855	666	9	657	188	22.0	469
25 to 54 years	3,063	2,775	11	2,764	288	9.4	1,570
25 to 34 years	1,409	1,247	1	1,246	163	11.5	576
35 to 44 years	944	861	6	854	84	8.9	484
45 to 54 years	709	668	4	664	42	5.9	510
55 to 64 years	450	421	8	413	29	6.5	517
55 to 59 years	289	270	5	265	19	6.6	246
60 to 64 years	161	150	3	147	10	6.4	271
65 years and over	123	118	6	113	5	4.2	1,006

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 sex, age, and race

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
TOTAL								
Total noninstitutional population	158,899	161,348	67,642	68,827	74,429	75,753	16,828	16,768
Total labor force	101,210	104,169	54,673	55,602	35,286	37,028	11,252	11,539
Percent of population	63.7	64.6	80.8	80.8	47.4	48.9	66.9	68.8
Civilian labor force	99,073	102,047	52,978	53,903	35,188	36,919	10,906	11,226
Employed	92,315	96,116	50,513	51,887	32,551	34,546	9,252	9,683
Agriculture	3,682	3,856	2,492	2,525	612	694	579	637
Nonagricultural industries	88,633	92,261	48,021	49,362	31,939	33,852	8,673	9,046
Unemployed	6,757	5,931	2,466	2,015	2,638	2,373	1,654	1,542
Percent of labor force	6.8	5.8	4.7	3.7	7.5	6.4	15.2	13.7
Not in labor force	57,689	57,179	12,969	13,225	39,143	38,726	5,576	5,229
White								
Total noninstitutional population	139,620	141,520	60,032	60,986	65,320	66,359	14,267	14,175
Total labor force	89,161	91,476	48,844	49,562	30,429	31,758	9,888	10,156
Percent of population	63.9	64.6	81.4	81.3	46.6	47.9	69.3	71.7
Civilian labor force	87,407	89,773	47,454	48,192	30,351	31,672	9,603	9,908
Employed	82,278	85,256	45,572	46,638	28,314	29,876	8,392	8,741
Agriculture	3,385	3,520	2,308	2,303	555	641	522	576
Nonagricultural industries	78,893	81,735	43,264	44,335	27,759	29,235	7,870	8,165
Unemployed	5,128	4,517	1,881	1,554	2,036	1,796	1,211	1,167
Percent of labor force	5.9	5.0	4.0	3.2	6.7	5.7	12.6	11.8
Not in labor force	50,459	50,044	11,188	11,424	34,891	34,601	4,379	4,018
Black and other								
Total noninstitutional population	19,279	19,828	7,609	7,841	9,109	9,394	2,561	2,594
Total labor force	12,049	12,694	5,828	6,041	4,857	5,270	1,364	1,383
Percent of population	62.5	64.0	76.6	77.0	53.3	56.1	53.3	53.3
Civilian labor force	11,666	12,275	5,525	5,710	4,838	5,247	1,304	1,317
Employed	10,037	10,860	4,940	5,249	4,236	4,670	861	942
Agriculture	297	335	184	222	56	52	57	61
Nonagricultural industries	9,740	10,525	4,756	5,027	4,180	4,617	804	881
Unemployed	1,629	1,414	584	462	601	577	443	375
Percent of labor force	14.0	11.5	10.6	8.1	12.4	11.0	34.0	28.5
Not in labor force	7,230	7,135	1,781	1,800	4,252	4,124	1,197	1,210

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

[Numbers in thousands]

Employment status	August 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,273	12,767	12,506	21,425	10,870	10,555	3,848	1,898	1,950
Total labor force	18,404	10,197	8,207	16,134	8,966	7,168	2,269	1,231	1,038
Percent of population	72.8	79.9	65.6	75.3	82.5	67.9	59.0	64.9	53.2
Civilian labor force	17,679	9,524	8,155	15,563	8,436	7,127	2,116	1,088	1,028
Employed	15,513	8,487	7,026	13,953	7,661	6,292	1,560	826	734
Agriculture	859	670	189	780	613	166	79	57	22
Nonagricultural industries	14,654	7,817	6,837	13,173	7,048	6,125	1,481	769	712
Unemployed	2,166	1,037	1,129	1,610	775	835	556	262	294
Looking for full-time work	1,510	759	752	1,101	559	542	409	199	210
Looking for part-time work	656	278	378	509	216	293	147	63	85
Percent of labor force	12.3	10.9	13.8	10.3	9.2	11.7	26.3	24.1	28.6
Not in labor force	6,869	2,570	4,299	5,291	1,904	3,387	1,578	666	912
MAJOR ACTIVITY: GOING TO SCHOOL									
Civilian labor force	223	98	125	190	85	105	33	13	20
Employed	180	81	100	164	72	92	16	9	7
Agriculture	6	4	2	6	4	2	--	--	--
Nonagricultural industries	174	77	97	158	68	90	17	9	7
Unemployed	43	18	25	26	13	13	17	4	12
Looking for full-time work	20	8	12	11	5	7	9	3	6
Looking for part-time work	23	10	13	15	9	6	8	1	7
Percent of labor force	19.2	18.0	20.2	13.8	15.6	12.3	(1)	(1)	(1)
Not in labor force	709	328	382	542	233	308	168	94	74
MAJOR ACTIVITY: OTHER									
Civilian labor force	17,456	9,425	8,030	15,372	8,351	7,022	2,083	1,075	1,009
Employed	15,332	8,406	6,926	13,789	7,589	6,200	1,544	817	727
Agriculture	853	666	186	773	609	164	79	57	22
Nonagricultural industries	14,480	7,740	6,740	13,015	6,980	6,036	1,465	760	704
Unemployed	2,123	1,019	1,104	1,584	762	822	540	258	282
Looking for full-time work	1,490	751	739	1,090	555	535	400	196	204
Looking for part-time work	634	269	365	494	207	287	140	62	78
Percent of labor force	12.2	10.8	13.8	10.3	9.1	11.7	25.9	24.0	28.0
Not in labor force	6,160	2,243	3,917	4,749	1,670	3,079	1,411	572	838

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

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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	August 1978								
	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	89,907	81,076	4,070	4,761	5.3	12,140	10,970	1,170	9.6
16 to 21 years	13,996	10,741	1,745	1,510	10.8	3,683	3,027	656	17.8
16 to 19 years	8,236	5,945	1,329	963	11.7	2,990	2,410	580	19.4
16 to 17 years	2,990	1,895	721	374	12.5	2,010	1,581	429	21.3
18 to 19 years	5,246	4,050	608	588	11.2	979	828	151	15.4
20 years and over	81,671	75,131	2,741	3,799	4.7	9,150	8,561	590	6.4
20 to 24 years	14,236	12,226	794	1,216	8.5	1,391	1,256	135	9.7
25 years and over	67,436	62,905	1,947	2,582	3.8	7,759	7,305	455	5.9
25 to 54 years	55,758	51,930	1,532	2,295	4.1	5,054	4,710	344	6.8
55 years and over	11,678	10,975	415	288	2.5	2,706	2,595	111	4.1
Males, 16 years and over	56,395	52,062	1,980	2,353	4.2	3,547	3,149	398	11.2
16 to 21 years	7,978	6,355	864	759	9.5	1,546	1,267	278	18.0
16 to 19 years	4,731	3,568	682	481	10.2	1,308	1,054	254	19.4
20 years and over	51,664	48,494	1,298	1,871	3.6	2,239	2,095	144	6.4
20 to 24 years	8,072	7,083	386	602	7.5	440	390	49	11.2
25 years and over	43,593	41,411	911	1,269	2.9	1,799	1,704	94	5.2
25 to 54 years	35,780	33,976	710	1,094	3.1	633	584	50	7.9
55 years and over	7,813	7,435	202	175	2.2	1,165	1,120	45	3.9
Females, 16 years and over	33,512	29,014	2,090	2,409	7.2	8,593	7,821	772	9.0
16 to 21 years	6,018	4,386	881	752	12.5	2,137	1,759	378	17.7
16 to 19 years	3,505	2,377	647	482	13.7	1,681	1,356	326	19.4
20 years and over	30,007	26,637	1,443	1,927	6.4	6,912	6,466	446	6.5
20 to 24 years	6,165	5,143	407	614	10.0	951	865	86	9.0
25 years and over	23,843	21,494	1,036	1,313	5.5	5,961	5,601	360	6.0
25 to 54 years	19,978	17,955	822	1,201	6.0	4,420	4,126	294	6.7
55 years and over	3,865	3,539	213	112	2.9	1,541	1,474	66	4.3
White									
Males, 16 years and over	50,465	47,015	1,650	1,800	3.6	3,082	2,766	316	10.2
16 to 21 years	7,112	5,824	728	559	7.9	1,324	1,108	216	16.3
16 to 19 years	4,244	3,303	574	367	8.7	1,110	916	195	17.5
20 years and over	46,221	43,712	1,076	1,433	3.1	1,971	1,850	121	6.1
20 to 24 years	7,120	6,373	317	430	6.0	394	350	44	11.2
25 years and over	39,101	37,339	759	1,002	2.6	1,577	1,501	77	4.9
25 to 54 years	32,000	30,550	599	852	2.7	541	502	40	7.4
55 years and over	7,100	6,789	160	151	2.1	1,036	999	37	3.6
Females, 16 years and over	28,539	25,098	1,666	1,776	6.2	7,687	7,062	625	8.1
16 to 21 years	5,247	3,942	763	542	10.3	1,880	1,587	293	15.6
16 to 19 years	3,062	2,150	559	353	11.5	1,492	1,240	252	16.9
20 years and over	25,478	22,948	1,106	1,423	5.6	6,195	5,822	373	6.0
20 to 24 years	5,303	4,533	349	421	7.9	834	763	71	8.5
25 years and over	20,174	18,415	757	1,003	5.0	5,360	5,059	302	5.6
25 to 54 years	16,735	15,214	613	908	5.4	4,020	3,768	252	6.3
55 years and over	3,439	3,201	145	95	2.8	1,341	1,291	50	3.7
Black and other									
Males, 16 years and over	5,930	5,048	330	552	9.3	465	383	82	17.7
16 to 21 years	866	531	136	199	23.0	222	159	63	28.3
16 to 19 years	487	266	108	114	23.4	198	139	59	29.9
20 years and over	5,443	4,782	222	438	8.1	268	245	23	8.6
20 to 24 years	952	710	69	172	18.1	45	40	5	(2)
25 years and over	4,491	4,072	153	266	5.9	222	204	18	8.1
25 to 54 years	3,779	3,426	111	242	6.4	92	82	10	10.9
55 years and over	712	647	42	24	3.4	129	121	8	6.2
Females, 16 years and over	4,973	3,916	424	633	12.7	906	760	147	16.2
16 to 21 years	771	444	117	210	27.2	257	172	85	32.9
16 to 19 years	443	227	87	129	29.1	189	116	74	38.8
20 years and over	4,530	3,689	337	504	11.1	717	644	73	10.2
20 to 24 years	862	610	58	193	22.4	117	102	15	12.8
25 years and over	3,669	3,079	278	311	8.5	600	543	58	9.7
25 to 54 years	3,242	2,740	210	292	9.0	400	360	42	10.5
55 years and over	426	339	69	19	4.5	200	183	17	8.5

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

² Percent not shown where base is less than 75,000.

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

[Numbers in thousands]

Family relationship	August 1978									
	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	102,047	64.1	96,116	5,931	5.8	57,179	33,524	1,290	2,738	19,626
Husbands ¹	40,377	81.4	39,390	987	2.4	9,215	175	121	1,144	7,775
With employed wife	18,935	91.5	18,532	403	2.1	1,762	44	64	383	1,271
With unemployed wife	1,241	93.4	1,152	89	7.2	88	2	4	27	56
With wife not in labor force	18,747	73.2	18,318	429	2.3	6,874	96	46	669	6,062
Wives	22,025	46.2	20,696	1,329	6.0	25,620	23,037	130	258	2,195
With employed husband	19,683	51.8	18,530	1,153	5.9	18,317	16,655	109	95	1,458
With unemployed husband	492	53.4	403	89	18.1	429	409	2	6	12
With husband not in labor force	1,850	21.2	1,762	88	4.8	6,874	5,973	19	157	725
Relatives in husband-wife families	16,101	69.9	14,514	1,586	9.9	6,939	1,494	646	380	4,419
16-19 years	8,176	69.3	7,243	933	11.4	3,618	392	315	23	2,889
20-24 years	5,413	83.8	4,964	449	8.3	1,048	143	265	28	611
25 years and over	2,512	52.5	2,307	204	8.1	2,273	959	66	329	919
Women who head families	4,863	58.9	4,440	423	8.7	3,391	2,736	52	162	441
Relatives in female-headed families	4,609	63.2	3,823	786	17.1	2,689	850	173	274	1,393
16-19 years	1,740	63.1	1,325	415	23.9	1,016	173	89	9	747
20-24 years	1,321	78.2	1,088	234	17.7	367	108	57	23	179
25 years and over	1,548	54.3	1,410	137	8.9	1,306	569	27	242	467
Persons not living in families ²	14,072	60.1	13,253	820	5.8	9,325	5,232	168	520	3,403

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	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
Total, 16 years and over	3,320	2,750	5.6	4.6	3,437	3,181	8.6	7.6
Married, spouse present	1,210	970	3.0	2.4	1,545	1,415	7.1	6.3
Widowed, divorced, or separated	285	246	6.9	5.4	592	545	8.1	6.9
Single (never married)	1,825	1,535	12.2	9.8	1,300	1,221	11.7	10.4
White, 16 years and over	2,490	2,116	4.7	4.0	2,639	2,401	7.6	6.6
Married, spouse present	985	805	2.7	2.2	1,321	1,172	6.8	5.9
Widowed, divorced, or separated	240	174	7.1	4.7	441	395	7.5	6.2
Single (never married)	1,264	1,137	9.8	8.4	876	835	9.3	8.4
Black and other, 16 years and over	831	635	13.3	9.9	798	780	14.8	13.3
Married, spouse present	225	164	6.5	4.7	224	243	9.6	9.9
Widowed, divorced, or separated	45	72	6.2	8.5	150	151	10.7	9.8
Single (never married)	561	398	27.2	19.4	424	386	25.7	20.4
Total, 20 to 64 years of age	2,392	1,940	4.7	3.7	2,590	2,343	7.6	6.5
Married, spouse present	1,137	904	3.0	2.4	1,419	1,321	6.8	6.1
Widowed, divorced, or separated	281	227	7.2	5.3	551	520	8.2	7.2
Single (never married)	972	809	10.6	8.3	620	503	9.5c	7.2
White, 20 to 64 years of age	1,815	1,493	4.0	3.2	1,988	1,772	6.7	5.8
Married, spouse present	921	747	2.7	2.2	1,206	1,094	6.4	5.7
Widowed, divorced, or separated	236	163	7.4	4.7	402	373	7.5	6.5
Single (never married)	658	582	8.4	6.9	381	305	7.1	5.3
Black and other, 20 to 64 years of age	576	448	10.7	8.1	600	572	12.7	11.2
Married, spouse present	216	157	6.4	4.7	213c	228	9.3c	9.6
Widowed, divorced, or separated	45	64	6.5	7.9	148c	146	11.1c	10.1
Single (never married)	314	227	23.9	16.6	240	199	21.5	15.4

c=corrected.

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
Total	6,757	5,931	6.8	5.8	5.6	4.6	8.6	7.6
White-collar workers	2,070	1,796	4.4	3.7	2.7	2.2	6.0	5.0
Professional and technical	533	482	3.9	3.4	2.5	2.2	5.8	5.0
Managers and administrators, except farm	232	179	2.3	1.7	1.7	1.2	4.5	3.2
Sales workers	309	249	5.0	4.0	3.4	3.1	7.1	5.1
Clerical workers	996	886	5.9	5.0	4.8	3.6	6.2	5.2
Blue-collar workers	2,386	2,063	7.0	5.9	6.3	5.1	10.2	9.6
Craft and kindred workers	566	478	4.4	3.5	4.4	3.4	5.0	5.9
Carpenters and other construction craft	258	215	6.2	5.0	6.2	4.9	(1)	(1)
All other	308	263	3.5	2.9	3.4	2.6	4.7	5.4
Operatives, except transport	1,011	960	8.7	8.0	7.1	6.3	11.0	10.5
Transport equipment operatives	228	173	6.2	4.8	5.9	4.1	10.1	15.1
Nonfarm laborers	580	452	10.1	7.7	10.1	8.0	9.9	5.0
Construction laborers	144	128	12.4	10.1	12.4	9.8	(1)	(1)
All other	436	324	9.6	7.0	9.5	7.5	9.6	3.9
Service workers	1,150	991	8.3	7.0	7.6	6.1	8.7	7.5
Private household	47	63	3.9	5.3	(1)	(1)	3.9	5.2
All other	1,103	927	8.7	7.2	7.6	6.1	9.4	7.9
Farm workers	108	93	3.3	2.8	3.1	1.9	4.4	6.1
No previous work experience	1,043	988	--	--	--	--	--	--
16 to 19 years	783	744	--	--	--	--	--	--
20 to 24 years	188	161	--	--	--	--	--	--
25 years and over	72	83	--	--	--	--	--	--

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	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
Total	100.0	100.0	6.8	5.8	5.6	4.6	8.6	7.6
Nonagricultural private wage and salary workers	68.6	68.3	6.5	5.4	5.6	4.5	7.7	6.7
Mining	.4	.5	3.6	3.3	2.7	3.6	(1)	.6
Construction	5.9	5.9	8.3	6.6	8.6	6.5	3.3	7.9
Manufacturing	20.5	19.7	6.3	5.2	5.0	4.1	9.3	7.7
Durable goods	11.0	11.3	5.8	5.1	4.8	4.0	8.7	8.1
Lumber and wood products	.7	.6	6.9	5.3	6.4	5.7	10.4	1.9
Furniture and fixtures	.5	.5	6.8	5.0	7.4	2.3	5.1	11.1
Stone, clay, and glass products	.7	.6	6.5	5.1	6.7	2.5	6.0	14.5
Primary metal industries	.9	.8	4.4	3.7	4.1	3.0	7.0	9.5
Fabricated metal products	1.5	1.5	6.9	5.9	6.4	5.6	8.7	7.2
Machinery, except electrical equipment	1.3	1.4	3.8	3.2	3.0	2.6	7.0	5.7
Electrical equipment	2.0	1.8	6.3	4.7	3.6	2.8	9.7	7.4
Transportation equipment	1.9	2.6	5.8	6.5	5.4	6.3	7.7	7.9
Automobiles	1.1	1.9	5.7	8.4	5.4	8.5	7.2	8.0
Other transportation equipment	.8	.6	5.9	3.9	5.5	3.3	8.0	7.5
Instruments and related products	.5	.4	6.1	4.2	3.8	.8	9.0	8.4
Other durable goods industries	.9	1.1	9.0	8.4	6.1	5.8	12.9	11.3
Nondurable goods	9.4	8.4	7.1	5.4	5.3	4.2	9.8	7.3
Food and kindred products	2.9	2.1	9.3	5.9	7.1	4.5	14.2	8.8
Textile mill products	.8	.8	6.5	5.4	5.7	4.5	7.3	6.4
Apparel and other textile products	1.7	1.7	8.8	7.7	6.0	10.8	9.5	7.0
Paper and allied products	.7	.6	6.5	4.3	5.7	3.7	9.0	6.5
Printing and publishing	1.1	1.2	5.7	4.8	5.2	4.6	6.6	5.1
Chemicals and allied products	.9	.3	5.2	1.5	4.2	.7	8.5	4.1
Rubber and plastics products	.6	.8	5.3	6.6	2.9	5.1	9.7	9.1
Other nondurable goods industries	.6	.9	6.5	8.1	3.2	4.8	11.5	12.4
Transportation and public utilities	3.4	3.1	4.5	3.5	4.0	2.9	5.9	5.2
Railroads and railway express	.2	.4	1.8	4.0	1.6	3.9	(1)	(1)
Other transportation	2.4	2.0	6.6	4.9	6.0	3.9	9.5	9.1
Communication and other public utilities	.8	.7	2.7	1.8	2.1	1.2	3.7	2.9
Wholesale and retail trade	21.2	20.1	7.8	6.3	6.4	4.9	9.6	7.9
Finance, insurance, and real estate	2.5	2.4	3.4	2.7	2.2	2.4	4.3	2.9
Service industries	14.7	16.7	6.2	5.8	6.1	4.8	6.2	6.4
Professional services	6.0	7.8	4.7	4.9	3.5	4.3	5.3	5.2
All other service industries	8.7	8.9	8.0	6.9	8.2	5.3	7.8	8.5
Agricultural wage and salary workers	2.0	2.0	7.6	6.5	6.9	4.6	10.7	13.3
All other classes of workers	13.9	13.1	3.9	3.2	2.5	2.2	5.8	4.6
No previous work experience	15.4	16.7	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands	6,757	5,931	2,466	2,015	2,638	2,373	1,654	1,542	5,128	4,517	1,629	1,414
Job losers	2,871	2,293	1,491	1,154	1,079	841	301	299	2,282	1,778	588	515
On layoff	801	641	396	319	337	266	68	57	700	508	101	133
Other job losers	2,070	1,652	1,095	835	742	575	233	242	1,582	1,270	487	382
Job leavers	989	933	386	370	440	402	163	160	826	756	163	177
Reentrants	1,855	1,717	493	408	955	970	407	339	1,321	1,300	535	417
New entrants	1,042	988	95	83	163	160	784	745	699	683	343	305
Total unemployed, percent distribution												
	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	42.5	38.7	60.4	57.2	40.9	35.4	18.2	19.4	44.5	39.3	36.1	36.4
On layoff	11.9	10.8	16.0	15.8	12.8	11.2	4.1	3.7	13.7	11.2	6.2	9.4
Other job losers	30.6	27.9	44.4	41.4	28.1	24.2	14.1	15.7	30.8	28.1	29.9	27.0
Job leavers	14.6	15.7	15.6	18.4	16.7	16.9	9.9	10.4	16.1	16.7	10.0	12.5
Reentrants	27.5	28.9	20.0	20.2	36.2	40.9	24.6	22.0	25.8	28.8	32.8	29.5
New entrants	15.4	16.7	3.9	4.1	6.2	6.7	47.4	48.3	13.6	15.1	21.1	21.6
UNEMPLOYMENT RATE												
Total unemployment rate	6.8	5.8	4.7	3.7	7.5	6.4	15.2	13.7	5.9	5.0	14.0	11.5
Job loser rate ¹	2.9	2.2	2.8	2.1	3.1	2.3	2.7	2.7	2.6	2.0	5.1	4.2
Job leaver rate ¹	1.0	.9	.7	.7	1.3	1.1	1.5	1.4	.9	.8	1.4	1.4
Reentrant rate ¹	1.9	1.7	.9	.8	2.7	2.6	3.7	3.0	1.5	1.4	4.6	3.4
New entrant rate ¹	1.1	1.0	.2	.2	.5	.4	7.2	6.6	.8	.8	2.9	2.5

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	August 1978						
	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	5,931	100.0	45.5	36.4	18.1	8.1	10.0
Job losers	2,293	100.0	40.2	34.4	25.4	10.9	14.5
On layoff	641	100.0	54.4	34.8	10.8	5.8	5.0
Other job losers	1,652	100.0	34.7	34.2	31.1	13.0	18.2
Job leavers	933	100.0	55.9	29.4	14.7	7.2	7.5
Reentrants	1,717	100.0	49.3	35.8	14.9	6.5	8.4
New entrants	988	100.0	41.5	48.6	9.9	5.0	5.0
Males, 20 years and over	2,015	100.0	41.2	33.0	25.8	10.6	15.2
Job losers	1,154	100.0	40.4	32.1	27.6	10.7	16.9
On layoff	319	100.0	62.2	30.3	7.5	.9	6.6
Other job losers	835	100.0	32.0	32.8	35.2	14.4	20.8
Job leavers	370	100.0	50.1	29.1	20.8	10.5	10.2
Reentrants	408	100.0	37.3	39.7	23.0	8.8	14.2
New entrants	83	100.0	33.7	27.7	38.6	19.3	19.3
Females, 20 years and over	2,373	100.0	47.5	35.1	17.4	7.8	9.6
Job losers	841	100.0	34.4	39.9	25.7	11.2	14.5
On layoff	266	100.0	41.0	45.5	13.5	9.8	3.8
Other job losers	575	100.0	31.4	37.3	31.4	11.8	19.5
Job leavers	402	100.0	57.6	28.8	13.6	6.0	7.7
Reentrants	970	100.0	54.0	32.9	13.2	6.4	6.8
New entrants	160	100.0	51.6	39.8	8.7	3.7	5.0
Both sexes, 16 to 19 years	1,542	100.0	48.1	42.7	9.2	5.1	4.1
Job losers	299	100.0	56.0	27.9	16.1	11.1	5.0
On layoff	57	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers	242	100.0	52.1	31.4	16.5	10.7	5.8
Job leavers	160	100.0	65.0	31.2	3.8	2.5	1.2
Reentrants	339	100.0	50.6	39.1	10.3	4.4	5.9
New entrants	745	100.0	40.2	52.8	7.0	3.6	3.4

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

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

Sex, age, and race	August 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	5,931	5,074	25.1	6.0	71.9	30.8	13.6	4.8	1.52
16 to 19 years	1,542	1,441	18.0	4.0	80.6	27.1	14.9	2.4	1.47
20 to 24 years	1,351	1,203	26.1	6.4	74.6	30.6	11.6	4.0	1.53
25 to 34 years	1,418	1,143	30.4	5.9	66.1	37.4	14.7	5.7	1.60
35 to 44 years	691	535	27.7	9.2	66.7	29.9	11.8	6.9	1.52
45 to 54 years	530	434	28.6	6.9	63.4	32.5	15.2	6.2	1.53
55 to 64 years	294	233	29.6	8.2	61.8	25.3	12.0	10.7	1.48
65 years and over	105	86	15.1	5.8	67.4	19.8	15.1	7.0	1.30
Males, 16 years and over	2,750	2,298	27.8	6.0	73.3	28.2	16.0	6.2	1.58
16 to 19 years	735	670	20.4	4.9	80.6	23.9	16.6	3.6	1.50
20 to 24 years	651	561	27.8	7.1	75.8	28.3	15.7	3.9	1.59
25 to 34 years	621	483	34.0	3.9	68.9	37.9	18.0	8.5	1.71
35 to 44 years	288	219	36.5	10.5	63.5	26.5	12.3	13.7	1.63
45 to 54 years	235	190	30.5	6.8	70.5	25.8	17.9	4.2	1.56
55 to 64 years	144	114	31.6	6.1	61.4	24.6	12.3	12.3	1.48
65 years and over	75	61	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,181	2,776	22.9	6.0	70.7	33.0	11.7	3.6	1.48
16 to 19 years	807	771	15.8	3.1	80.7	30.0	13.4	1.3	1.44
20 to 24 years	700	641	24.6	5.8	73.6	32.6	8.0	4.1	1.49
25 to 34 years	797	660	27.9	7.3	64.1	37.1	12.3	3.6	1.52
35 to 44 years	403	316	21.5	8.2	69.0	32.3	11.7	2.2	1.45
45 to 54 years	295	244	27.5	7.0	57.8	37.7	13.5	8.2	1.52
55 to 64 years	150	120	27.5	10.0	60.8	25.8	11.7	8.3	1.44
65 years and over	30	24	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White	4,517	3,810	23.1	6.0	72.4	33.3	13.8	4.8	1.53
Males	2,116	1,750	25.5	5.9	74.6	30.2	16.0	5.9	1.58
Females	2,401	2,059	21.2	6.1	70.5	35.9	11.9	3.8	1.49
Black and other	1,414	1,264	31.2	5.9	70.4	23.5	13.3	4.8	1.49
Males	635	548	35.2	6.2	69.2	22.3	16.1	7.5	1.56
Females	780	716	28.1	5.7	71.5	24.4	11.2	2.8	1.44

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	August 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	5,931	5,074	25.1	6.0	71.9	30.8	13.6	4.8	1.52
Job losers	2,293	1,637	33.1	7.3	70.6	33.5	16.1	5.3	1.66
Job leavers	933	895	26.4	6.1	70.2	37.1	11.2	4.4	1.55
Reentrants	1,717	1,581	21.9	6.3	69.0	29.1	12.3	6.3	1.45
New entrants	988	961	15.8	3.1	80.6	23.4	14.0	1.9	1.39
Males, 16 years and over	2,750	2,298	27.8	6.0	73.3	28.2	16.0	6.2	1.58
Job losers	1,349	969	34.0	6.7	72.8	29.9	17.5	6.7	1.68
Job leavers	432	412	29.1	4.6	71.4	37.1	11.9	5.6	1.60
Reentrants	551	511	23.7	7.4	72.8	22.5	12.5	8.6	1.48
New entrants	418	406	17.2	3.9	77.6	22.4	21.2	2.7	1.45
Females, 16 years and over	3,181	2,776	22.9	6.0	70.7	33.0	11.7	3.6	1.48
Job losers	944	668	31.9	8.1	67.5	38.6	14.1	3.0	1.63
Job leavers	501	483	24.2	7.5	69.2	37.3	10.6	3.3	1.52
Reentrants	1,166	1,069	21.0	5.9	67.3	32.2	12.2	5.2	1.44
New entrants	571	556	14.7	2.5	82.7	24.1	8.8	1.3	1.34

NOTE: See note, table A-15.

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A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
Total, 16 years and over	6,757	5,931	100.0	100.0	5,541	4,761	100.0	100.0
Less than 5 weeks	2,741	2,701	40.6	45.5	2,090	2,046	37.7	43.0
5 to 14 weeks	2,427	2,157	35.9	36.4	1,963	1,737	35.4	36.5
5 to 10 weeks	1,791	1,694	26.5	28.6	1,437	1,358	25.9	28.5
11 to 14 weeks	636	463	9.4	7.8	526	379	9.5	8.0
15 weeks and over	1,589	1,073	23.5	18.1	1,489	978	26.9	20.5
15 to 26 weeks	706	478	10.4	8.1	661	440	11.9	9.2
27 weeks and over	883	595	13.1	10.0	828	538	14.9	11.3
27 to 51 weeks	441	325	6.5	5.5	414	295	7.5	6.2
52 weeks and over	442	270	6.5	4.6	414	243	7.5	5.1
Average (mean) duration, in weeks	13.4	11.0	--	--	14.6	11.9	--	--
Median duration, in weeks	7.1	6.0	--	--	7.8	6.4	--	--

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			Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
	August 1978										
Total, 16 years and over	5,931	2,701	2,157	478	595	11.0	6.0	40.6	45.5	23.5	18.1
16 to 21 years	2,166	1,063	880	123	101	8.1	5.2	43.9	49.1	12.8	10.3
16 to 19 years	1,542	742	659	79	63	7.7	5.4	46.4	48.1	9.3	9.2
20 to 24 years	1,351	645	477	117	113	10.4	5.5	40.5	47.7	23.5	17.0
25 to 34 years	1,418	635	500	120	162	11.1	5.9	39.9	44.8	26.4	19.9
35 to 44 years	691	323	227	71	70	11.0	5.7	40.6	46.8	31.1	20.4
45 to 54 years	530	204	182	51	93	16.9	7.8	32.6	38.4	33.8	27.2
55 to 64 years	294	104	88	29	72	19.2	8.8	35.3	35.6	38.9	34.4
65 years and over	105	47	24	12	22	15.0	7.4	28.3	45.0	31.2	32.3
Males, 16 years and over	2,750	1,196	954	257	343	12.2	6.4	38.4	43.5	26.6	21.8
16 to 21 years	1,037	511	395	73	58	8.4	5.2	44.4	49.3	13.6	12.6
16 to 19 years	735	364	290	43	38	8.0	5.1	45.4	49.6	9.9	11.0
20 to 24 years	651	295	230	69	57	10.6	6.0	41.1	45.3	25.8	19.3
25 to 34 years	621	248	215	65	94	12.9	6.7	35.5	39.9	32.4	25.5
35 to 44 years	288	117	90	36	44	13.6	6.7	35.1	40.8	37.1	27.9
45 to 54 years	235	90	61	25	59	20.3	8.7	33.0	38.0	39.2	35.9
55 to 64 years	144	46	52	12	34	21.2	9.2	27.0	31.7	44.1	32.1
65 years and over	75	35	15	8	17	14.4	7.7	(1)	46.9	(1)	32.8
Females, 16 years and over	3,181	1,505	1,203	221	252	10.0	5.6	42.6	47.3	20.6	14.9
16 to 21 years	1,129	551	485	51	43	7.8	5.3	43.5	48.8	11.9	8.2
16 to 19 years	807	378	369	35	25	7.4	5.7	47.4	46.8	8.7	7.5
20 to 24 years	700	349	247	48	55	10.2	5.0	40.0	49.9	21.2	14.8
25 to 34 years	797	387	286	55	68	9.7	5.2	44.3	48.6	20.4	15.5
35 to 44 years	403	206	136	34	26	9.2	4.9	44.4	51.0	26.8	15.1
45 to 54 years	295	114	121	26	34	14.3	7.5	32.4	38.7	30.0	20.3
55 to 64 years	150	59	36	17	38	17.3	8.3	43.8	39.3	33.6	36.6
65 years and over	30	12	9	4	5	16.6	6.8	(1)	(1)	(1)	(1)
White	4,517	2,158	1,588	362	409	10.4	5.4	42.5	47.8	23.5	17.1
Males	2,116	941	732	198	245	11.8	6.1	40.6	44.5	26.7	20.9
Females	2,401	1,217	856	164	164	9.1	4.9	44.3	50.7	20.5	13.7
Black and other	1,414	542	569	116	187	13.1	7.7	34.4	38.3	23.6	21.4
Males	635	255	222	59	98	13.5	7.4	31.9	40.1	26.3	24.8
Females	780	288	347	57	88	12.7	7.9	36.9	36.9	20.9	18.6
Males:											
Married, spouse present	970	393	304	106	167	15.0	7.2	34.8	40.6	34.9	28.1
Widowed, divorced, or separated	246	105	87	19	35	13.3	6.5	35.8	42.6	31.4	22.2
Single (never married)	1,535	697	564	132	141	10.3	5.9	41.3	45.4	20.3	17.8
Females:											
Married, spouse present	1,415	720	482	124	88	9.2	4.9	47.6	50.9	20.2	15.0
Widowed, divorced, or separated	545	235	203	32	76	12.1	6.7	39.3	43.0	29.9	19.7
Single (never married)	1,221	550	518	65	88	10.0	6.0	38.2	45.0	16.7	12.5

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 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			Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
	August 1978							Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
OCCUPATION											
White-collar workers	1,796	775	646	175	201	12.0	6.3	38.4	43.1	26.9	20.9
Professional and managerial	661	279	240	62	80	12.3	6.3	34.9	42.2	28.5	21.5
Sales workers	249	109	99	17	24	10.9	6.9	40.9	43.7	30.4	16.7
Clerical workers	886	387	307	96	97	12.1	6.2	40.3	43.6	24.6	21.7
Blue-collar workers	2,063	978	664	193	229	11.5	5.6	41.3	47.4	27.4	20.4
Craft and kindred workers	478	221	148	45	63	12.8	5.8	40.7	46.4	30.0	22.6
Operatives, except transport	960	462	297	97	104	11.8	5.4	44.5	48.1	27.6	21.0
Transport equipment operatives	173	66	64	16	27	13.4	7.4	33.9	38.3	29.3	24.9
Nonfarm laborers	452	228	155	35	34	9.1	5.0	39.3	50.5	23.9	15.2
Service workers	991	487	332	63	108	10.8	5.2	45.3	49.2	18.5	17.3
INDUSTRY¹											
Agriculture	119	63	48	--	9	6.7	4.7	49.3	53.0	10.8	6.9
Construction	372	204	104	24	40	10.7	4.6	42.3	54.8	28.7	17.3
Manufacturing	1,174	541	349	126	157	12.9	5.9	40.0	46.1	30.5	24.2
Durable goods	676	311	192	70	102	13.1	5.9	39.0	46.1	33.9	25.5
Nondurable goods	497	230	156	56	55	12.5	5.8	41.1	46.2	26.4	22.4
Transportation and public utilities	207	96	69	23	19	12.1	5.7	39.8	46.4	23.2	20.1
Wholesale and retail trade	1,202	547	434	107	114	10.7	5.9	42.1	45.5	23.1	18.4
Finance and service industries	1,567	696	574	125	171	11.4	6.2	39.6	44.4	23.2	19.0
Public administration	197	80	74	17	26	13.1	6.6	37.9	40.7	28.4	21.7
No previous work experience	988	409	481	49	49	8.9	6.9	36.9	41.4	14.5	9.9

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	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
All industries	92,315	96,116	55,565	57,191	36,751	38,925
16 to 19 years	9,252	9,683	5,052	5,304	4,200	4,379
16 to 17 years	3,938	4,197	2,218	2,324	1,720	1,873
18 to 19 years	5,314	5,487	2,834	2,980	2,480	2,507
20 to 24 years	13,504	14,276	7,522	7,860	5,981	6,416
25 to 54 years	56,016	58,172	34,428	35,269	21,588	22,903
25 to 34 years	23,169	24,251	14,237	14,740	8,932	9,511
35 to 44 years	16,820	17,711	10,312	10,715	6,507	6,996
45 to 54 years	16,027	16,210	9,878	9,815	6,149	6,395
55 to 64 years	10,861	11,134	6,810	6,924	4,052	4,210
55 to 59 years	6,829	6,997	4,259	4,305	2,570	2,692
60 to 64 years	4,032	4,137	2,550	2,619	1,482	1,518
65 years and over	2,682	2,851	1,753	1,835	929	1,016
Nonagricultural industries	88,633	92,261	52,607	54,160	36,026	38,101
16 to 19 years	8,673	9,046	4,586	4,798	4,087	4,249
16 to 17 years	3,622	3,805	1,968	2,016	1,654	1,789
18 to 19 years	5,051	5,241	2,618	2,781	2,433	2,460
20 to 24 years	13,027	13,778	7,112	7,469	5,915	6,309
25 to 54 years	54,287	56,407	33,111	33,941	21,177	22,466
25 to 34 years	22,537	23,595	13,759	14,229	8,778	9,366
35 to 44 years	16,327	17,187	9,942	10,322	6,385	6,865
45 to 54 years	15,424	15,625	9,410	9,391	6,014	6,234
55 to 64 years	10,323	10,576	6,368	6,463	3,955	4,113
55 to 59 years	6,500	6,702	3,993	4,066	2,506	2,636
60 to 64 years	3,823	3,875	2,374	2,397	1,448	1,477
65 years and over	2,323	2,453	1,431	1,489	892	964
Agriculture	3,682	3,856	2,957	3,031	725	824
16 to 19 years	579	637	466	506	113	131
16 to 17 years	316	392	250	308	66	84
18 to 19 years	263	245	216	199	48	47
20 to 24 years	477	498	411	391	66	107
25 to 54 years	1,729	1,765	1,317	1,328	412	438
25 to 34 years	633	656	479	511	154	145
35 to 44 years	493	524	370	393	122	131
45 to 54 years	603	585	468	424	135	161
55 to 64 years	539	558	442	460	97	97
55 to 59 years	329	295	266	239	63	56
60 to 64 years	209	263	176	221	33	41
65 years and over	359	397	322	345	37	52

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A-21. Employed persons by occupation, sex, and age

[In thousands]

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
TOTAL	92,315	96,116	50,513	51,887	32,551	34,546	5,052	5,304	4,200	4,379
White-collar workers	44,828	46,853	21,333	21,891	20,778	22,202	769	749	1,947	2,012
Professional and technical	13,226	13,756	7,618	7,960	5,387	5,526	105	144	116	126
Health workers	2,527	2,614	903	935	1,604	1,652	5	10	15	19
Teachers, except college	2,429	2,328	650	639	1,763	1,664	5	6	10	19
Other professional and technical	8,270	8,814	6,065	6,386	2,020	2,210	95	128	91	88
Managers and administrators, except farm	9,804	10,286	7,559	7,775	2,149	2,392	58	77	39	42
Salaried workers	7,822	8,397	6,019	6,306	1,710	1,978	55	74	37	41
Self-employed workers in retail trade	1,008	912	731	615	273	295	2	1	2	--
Self-employed workers, except retail trade	975	976	808	853	165	119	1	2	--	2
Sales workers	5,814	5,960	2,995	3,052	2,082	2,242	311	231	426	435
Retail trade	3,152	3,156	988	965	1,520	1,604	249	129	395	395
Other industries	2,662	2,805	2,007	2,087	563	638	62	40	31	40
Clerical workers	15,984	16,850	3,161	3,104	11,161	12,042	295	296	1,367	1,409
Stenographers, typists, and secretaries	4,433	4,726	64	72	3,943	4,248	11	10	415	396
Other clerical workers	11,551	12,124	3,097	3,032	7,218	7,794	284	286	952	1,013
Blue-collar workers	31,566	32,883	23,224	23,948	5,009	5,302	2,793	3,064	541	569
Craft and kindred workers	12,325	12,999	11,129	11,614	575	681	568	632	53	72
Carpenters	1,275	1,388	1,155	1,276	12	10	103	101	5	--
Construction craft, except carpenters	2,618	2,702	2,390	2,446	32	29	186	211	10	17
Mechanics and repairers	3,266	3,574	3,045	3,322	47	55	173	196	--	2
Metal craft	1,219	1,221	1,145	1,151	34	41	38	27	2	2
Blue-collar worker supervisors, not elsewhere classified	1,556	1,713	1,405	1,524	146	177	3	6	2	5
All other	2,392	2,401	1,990	1,895	303	369	64	92	35	46
Operatives, except transport	10,611	11,034	5,619	5,874	3,888	4,011	748	788	355	361
Durable goods manufacturing	4,674	4,889	2,891	3,003	1,439	1,517	232	251	113	118
Nondurable goods manufacturing	3,423	3,529	1,276	1,342	1,838	1,887	129	132	179	168
Other industries	2,514	2,616	1,453	1,528	611	607	386	405	64	76
Transport equipment operatives	3,483	3,435	3,108	3,021	181	176	171	230	22	8
Drivers, motor vehicles	2,874	2,892	2,559	2,526	161	165	134	196	20	6
All other	609	543	550	495	20	11	37	35	3	2
Nonfarm laborers	5,147	5,414	3,366	3,440	364	433	1,306	1,414	110	128
Construction	1,018	1,140	760	805	11	20	242	314	6	1
Manufacturing	1,166	1,157	843	844	138	145	177	159	8	9
Other industries	2,963	3,118	1,764	1,790	215	269	887	942	97	117
Service workers	12,779	13,155	3,813	3,914	6,264	6,479	1,089	1,064	1,612	1,697
Private household workers	1,166	1,127	15	10	844	848	21	17	287	252
Service workers, except private household	11,613	12,028	3,798	3,904	5,420	5,631	1,069	1,048	1,326	1,446
Food service workers	4,223	4,374	738	808	2,012	2,066	597	557	876	944
Protective service workers	1,333	1,370	1,209	1,245	97	100	18	20	8	5
All other	6,057	6,284	1,851	1,851	3,311	3,465	454	471	442	497
Farm workers	3,143	3,225	2,143	2,134	500	563	401	426	99	102
Farmers and farm managers	1,559	1,573	1,426	1,387	114	166	16	19	3	1
Farm laborers and supervisors	1,583	1,652	716	748	386	397	385	407	96	100
Paid workers	1,188	1,259	683	706	137	160	300	328	68	65
Unpaid family workers	396	393	34	41	249	236	85	79	28	36

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
TOTAL						
Total employed (thousands)	92,315	96,116	55,565	57,191	36,751	38,925
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	48.6	48.7	39.8	39.6	61.8	62.2
Professional and technical	14.3	14.3	13.9	14.2	15.0	14.5
Managers and administrators, except farm	10.6	10.7	13.7	13.7	6.0	6.3
Sales workers	6.3	6.2	5.9	5.7	6.8	6.9
Clerical workers	17.3	17.5	6.2	5.9	34.1	34.6
Blue-collar workers	34.2	34.2	46.8	47.2	15.1	15.1
Craft and kindred workers	13.4	13.5	21.1	21.4	1.7	1.9
Operatives, except transport	11.5	11.5	11.5	11.6	11.5	11.2
Transport equipment operatives	3.8	3.6	5.9	5.7	.6	.5
Nonfarm laborers	5.6	5.6	8.4	8.5	1.3	1.4
Service workers	13.8	13.7	8.8	8.7	21.4	21.0
Private household workers	1.3	1.2	.1	(1)	3.1	2.8
Other service workers	12.6	12.5	8.8	8.7	18.4	18.2
Farm workers	3.4	3.4	4.6	4.5	1.6	1.7
Farmers and farm managers	1.7	1.6	2.6	2.5	.3	.4
Farm laborers and supervisors	1.7	1.7	2.0	2.0	1.3	1.3
White						
Total employed (thousands)	82,278	85,256	50,128	51,431	32,151	33,825
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.3	50.4	41.3	41.0	64.2	64.7
Professional and technical	14.8	14.7	14.4	14.6	15.2	14.8
Managers and administrators, except farm	11.4	11.5	14.5	14.6	6.5	6.7
Sales workers	6.7	6.6	6.3	6.1	7.4	7.4
Clerical workers	17.5	17.6	6.1	5.7	35.2	35.7
Blue-collar workers	33.8	33.8	46.1	46.5	14.6	14.6
Craft and kindred workers	13.9	14.1	21.7	22.1	1.7	2.0
Operatives, except transport	11.1	11.0	11.1	11.2	11.0	10.7
Transport equipment operatives	3.6	3.4	5.6	5.4	.6	.5
Nonfarm laborers	5.2	5.3	7.7	7.8	1.3	1.4
Service workers	12.5	12.3	7.9	7.9	19.5	19.0
Private household workers .....	.9	.9	.1	(1)	2.3	2.1
Other service workers	11.5	11.5	7.9	7.9	17.2	16.9
Farm workers	3.5	3.5	4.7	4.6	1.7	1.8
Farmers and farm managers	1.9	1.8	2.8	2.6	.4	.5
Farm laborers and supervisors	1.7	1.7	1.9	1.9	1.3	1.3
Black and other						
Total employed (thousands)	10,037	10,860	5,437	5,761	4,600	5,100
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	34.5	35.8	25.6	26.9	45.0	45.8
Professional and technical	10.9	11.2	8.8	10.1	13.3	12.5
Managers and administrators, except farm	4.6	4.7	6.5	6.2	2.4	3.0
Sales workers	2.9	3.1	2.9	2.9	2.9	3.4
Clerical workers	16.1	16.7	7.4	7.7	26.5	26.9
Blue-collar workers	37.7	37.2	53.9	53.8	18.5	18.4
Craft and kindred workers	8.9	9.0	15.0	15.4	1.7	1.7
Operatives, except transport	15.1	15.2	15.1	15.7	15.1	14.6
Transport equipment operatives	4.9	4.6	8.9	8.4	.3	.4
Nonfarm laborers	8.8	8.5	14.9	14.4	1.6	1.7
Service workers	25.2	24.5	17.0	15.6	35.0	34.5
Private household workers	4.1	3.7	.1	.1	8.7	7.7
Other service workers	21.2	20.8	16.8	15.6	26.3	26.8
Farm workers	2.5	2.5	3.4	3.6	1.5	1.3
Farmers and farm managers3	.5	.6	.9	(1)	.1
Farm laborers and supervisors	2.2	2.0	2.8	2.7	1.4	1.2

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	August 1978								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	85,518	1,406	14,748	69,365	6,296	446	1,728	1,716	412
16 to 19 years	8,917	391	964	7,563	78	51	482	39	117
18 to 17 years	3,726	288	453	2,985	45	34	296	17	79
18 to 19 years	5,191	103	511	4,577	33	17	186	22	38
20 to 24 years	13,423	119	1,600	11,704	338	17	355	105	38
25 to 34 years	22,080	140	4,064	17,876	1,438	77	303	283	71
35 to 44 years	15,600	137	3,000	12,463	1,470	117	194	278	52
45 to 54 years	14,116	200	2,972	10,944	1,408	101	163	353	69
55 to 64 years	9,456	252	1,872	7,332	1,061	60	143	375	40
55 to 59 years	6,051	144	1,220	4,687	606	45	75	199	21
60 to 64 years	3,404	107	652	2,645	455	15	67	176	19
65 years and over	1,927	168	275	1,483	504	22	88	283	26
Males, 16 years and over	49,533	258	7,664	41,610	4,581	46	1,384	1,527	121
16 to 19 years	4,720	122	474	4,124	47	31	396	31	80
18 to 17 years	1,965	78	242	1,645	28	24	241	13	54
18 to 19 years	2,755	44	232	2,479	19	7	154	18	26
20 to 24 years	7,238	34	706	6,498	229	1	278	91	22
25 to 34 years	13,187	13	2,086	11,088	1,039	3	257	242	12
35 to 44 years	9,271	9	1,597	7,665	1,051	--	137	256	--
45 to 54 years	8,325	15	1,606	6,704	1,059	7	115	309	--
55 to 64 years	5,679	26	1,040	4,612	785	--	121	341	--
55 to 59 years	3,604	15	663	2,926	462	--	61	178	--
60 to 64 years	2,075	12	377	1,686	323	--	60	163	--
65 years and over	1,113	39	154	919	372	4	79	258	8
Females, 16 years and over	35,986	1,148	7,083	27,755	1,715	400	344	189	291
16 to 19 years	4,197	269	489	3,439	31	20	86	8	37
18 to 17 years	1,761	210	211	1,340	18	10	55	4	25
18 to 19 years	2,436	59	279	2,099	14	10	31	4	12
20 to 24 years	6,185	85	894	5,206	108	16	78	14	16
25 to 34 years	8,893	126	1,978	6,788	399	74	45	41	59
35 to 44 years	6,329	128	1,404	4,798	419	117	57	22	52
45 to 54 years	5,791	185	1,366	4,240	349	94	48	44	69
55 to 64 years	3,777	226	832	2,720	276	60	22	34	41
55 to 59 years	2,448	130	556	1,761	144	44	14	21	21
60 to 64 years	1,330	96	275	959	133	15	8	13	20
65 years and over	814	129	121	564	132	18	8	26	18

A-24. Employed persons by industry and occupation

[In thousands]

Industry	August 1978											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Profes- sional and technical workers	Managers and adminis- trators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture	3,856	70	26	16	73	57	23	55	299	--	12	3,225
Mining	827	127	81	5	68	214	250	51	25	--	7	--
Construction	6,695	188	764	10	429	3,651	294	180	1,140	--	39	--
Manufacturing	21,737	2,174	1,484	439	2,600	4,260	8,418	809	1,157	--	396	--
Durable goods	12,943	1,415	859	172	1,504	2,796	4,889	409	673	--	225	--
Nondurable goods	8,794	759	625	267	1,096	1,464	3,529	400	484	--	170	--
Transportation and public utilities	6,113	536	590	46	1,371	1,395	169	1,317	533	--	155	--
Wholesale and retail trade	19,706	344	3,855	3,985	3,308	1,543	1,017	744	1,204	--	3,704	--
Wholesale trade	3,749	103	868	830	696	335	203	405	280	--	30	--
Retail trade	15,956	241	2,987	3,156	2,611	1,209	815	340	924	--	3,674	--
Finance, insurance, and real estate	5,538	267	1,041	1,249	2,491	112	7	4	85	--	283	--
Services	26,420	8,989	1,880	203	4,642	1,429	811	223	767	1,127	6,350	--
Private households	1,438	13	--	--	7	6	7	--	229	1,127	42	--
Other service industries	24,982	8,976	1,880	203	4,635	1,423	804	216	538	--	6,308	--
Public administration	5,225	1,060	565	7	1,868	339	45	52	204	--	1,084	--

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	
	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978	Aug. 1977	Aug. 1978
Total	11,033	11,051	10,863	10,870	6,107	5,994	4,053	4,167
Vacation	8,689	8,748	8,588	8,635	5,463	5,323	2,716	2,866
Illness	1,302	1,344	1,277	1,318	502	513	673	705
Bad weather	50	40	37	28	--	--	--	--
Industrial dispute	213	105	213	105	--	--	--	--
All other reasons	779	814	748	783	142	158	664	596
Males	5,526	5,444	5,376	5,277	3,538	3,439	1,444	1,456
Vacation	4,168	4,148	4,083	4,047	3,132	3,044	723	773
Illness	791	796	771	770	338	304	372	400
All other reasons ³	567	501	521	461	67	91	349	283
Females	5,507	5,608	5,487	5,593	2,568	2,555	2,610	2,710
Vacation	4,521	4,601	4,505	4,589	2,331	2,279	1,993	2,093
Illness	511	548	506	548	162	209	301	304
All other reasons ³	475	459	477	455	75	67	316	313

¹ Excludes private household.

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

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

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

Hours of work	August 1978					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
Total at work	85,065	81,391	3,674	100.0	100.0	100.0
1-34 hours	18,078	17,039	1,038	21.3	20.9	28.3
1-4 hours	640	590	50	.8	.7	1.4
5-14 hours	2,966	2,724	241	3.5	3.3	6.6
15-29 hours	8,982	8,485	497	10.6	10.4	13.5
30-34 hours	5,490	5,240	250	6.5	6.4	6.8
35 hours and over	66,987	64,351	2,635	78.7	79.1	71.7
35-39 hours	6,187	6,013	174	7.3	7.4	4.7
40 hours	36,936	36,334	602	43.4	44.6	16.4
41 hours and over	23,864	22,004	1,859	28.1	27.0	50.6
41 to 48 hours	9,073	8,839	234	10.7	10.9	6.4
49 to 59 hours	7,999	7,513	486	9.4	9.2	13.2
60 hours and over	6,792	5,652	1,139	8.0	6.9	31.0
Average hours, total at work	39.9	39.6	46.5	--	--	--
Average hours, workers on full-time schedules	43.5	43.0	54.7	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	August 1978					
	All industries			Nonegricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total	18,078	6,460	11,618	17,039	6,102	10,937
Economic reasons	4,069	1,559	2,510	3,754	1,398	2,356
Slack work	1,583	1,030	553	1,369	891	478
Material shortages or repairs to plant and equipment	127	127	--	123	123	--
New job started during week	257	257	--	246	246	--
Job terminated during week	147	147	--	139	139	--
Could find only part-time work	1,957	--	1,957	1,878	--	1,878
Other reasons	14,010	4,902	9,108	13,285	4,703	8,582
Does not want, or unavailable for, full-time work	7,117	--	7,117	6,720	--	6,720
Vacation	1,558	1,558	--	1,515	1,515	--
Illness	1,503	1,332	171	1,456	1,309	147
Bad weather	348	348	--	282	282	--
Industrial dispute	38	38	--	38	38	--
Legal or religious holiday	36	36	--	36	36	--
Full time for this job	1,276	--	1,276	1,223	--	1,223
All other reasons	2,130	1,587	543	2,014	1,523	491
Average hours:						
Economic reasons	21.3	23.6	19.9	21.5	23.9	20.1
Other reasons	21.8	25.6	19.8	21.9	25.7	19.8
Worked 30 to 34 hours:						
Economic reasons	1,159	607	552	1,101	573	528
Other reasons	4,331	2,452	1,879	4,139	2,361	1,778

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

[Numbers in thousands]

Industry	August 1978								
	Total at work	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules
		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 ¹	81,391	3,754	8,582	69,055	47,051	8,839	13,165	39.6	43.0
Wage and salary workers	75,246	3,435	7,636	64,175	44,950	8,324	10,901	39.3	42.5
Construction	5,209	322	216	4,671	3,356	470	845	40.0	42.2
Manufacturing	19,188	496	463	18,229	12,481	2,929	2,819	41.4	42.4
Durable goods	11,318	185	174	10,959	7,422	1,820	1,717	41.9	42.5
Nondurable goods	7,870	311	288	7,271	5,059	1,109	1,103	40.6	42.2
Transportation and public utilities	5,221	127	189	4,905	3,335	591	979	42.2	43.6
Wholesale and retail trade	16,366	1,150	2,979	12,237	7,729	1,897	2,611	37.9	43.5
Finance, insurance, and real estate	4,688	92	368	4,228	3,178	453	597	39.3	41.5
Service industries	19,087	1,152	3,188	14,747	11,043	1,436	2,268	36.8	41.9
Private households	1,294	259	584	451	332	33	86	24.3	43.2
All other industries	17,793	893	2,604	14,296	10,711	1,403	2,182	37.7	41.9
Public administration	4,765	78	222	4,465	3,438	450	577	40.4	41.7
Self-employed workers	5,699	291	804	4,604	1,961	489	2,154	43.4	49.6
Unpaid family workers	446	27	142	277	140	26	111	38.6	48.3

¹Includes 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	August 1978							
	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	81,391	3,754	8,582	69,055	47,051	22,004	39.6	43.0
16 to 21 years	13,887	1,622	2,621	9,644	7,377	2,267	35.0	41.2
16 to 19 years	8,609	1,243	2,081	5,285	4,098	1,187	33.0	40.9
16 to 17 years	3,614	674	1,346	1,594	1,247	347	28.8	40.4
18 to 19 years	4,995	569	735	3,691	2,851	840	36.1	41.1
20 years and over	72,782	2,510	6,501	63,771	42,955	20,816	40.3	43.2
20 to 24 years	12,749	732	1,053	10,964	7,955	3,009	39.2	42.0
25 years and over	60,033	1,778	5,448	52,807	34,998	17,809	40.6	43.4
25 to 44 years	35,548	1,027	2,571	31,950	20,909	11,041	41.2	43.5
45 to 64 years	22,342	667	1,885	19,790	13,390	6,400	40.6	43.2
65 years and over	2,144	84	992	1,068	700	368	29.9	43.0
Males, 16 years and over	48,883	1,754	2,437	44,692	27,342	17,350	42.4	44.4
16 to 21 years	7,444	769	1,084	5,591	3,926	1,665	36.9	42.2
16 to 19 years	4,585	609	889	3,087	2,219	868	34.9	41.9
16 to 17 years	1,924	352	608	964	714	250	30.3	40.9
18 to 19 years	2,661	257	281	2,123	1,505	618	38.2	42.3
20 years and over	44,297	1,147	1,548	41,602	25,118	16,484	43.1	44.6
20 to 24 years	6,990	345	320	6,325	4,135	2,190	41.2	43.3
25 years and over	37,307	802	1,227	35,278	20,986	14,292	43.5	44.9
25 to 44 years	22,111	493	329	21,289	12,378	8,911	44.3	45.1
45 to 64 years	13,865	265	337	13,263	8,160	5,103	43.4	44.4
65 years and over	1,333	43	561	729	450	279	31.6	43.9
Females, 16 years and over	32,508	2,000	6,145	24,363	19,709	4,654	35.3	40.4
16 to 21 years	6,444	853	1,537	4,054	3,452	602	32.8	39.8
16 to 19 years	4,023	635	1,192	2,196	1,875	321	30.9	39.5
16 to 17 years	1,689	323	738	628	529	99	27.1	39.5
18 to 19 years	2,334	312	454	1,568	1,346	222	33.6	39.5
20 years and over	28,485	1,365	4,953	22,167	17,833	4,334	36.0	40.4
20 to 24 years	5,758	387	733	4,638	3,819	819	36.6	40.2
25 years and over	22,726	977	4,220	17,529	14,015	3,514	35.8	40.5
25 to 44 years	13,438	535	2,242	10,661	8,531	2,130	36.2	40.4
45 to 64 years	8,477	401	1,548	6,528	5,230	1,298	36.0	40.7
65 years and over	811	40	431	340	252	88	27.0	41.1
RACE								
White	72,099	3,068	7,693	61,338	40,855	20,483	39.8	43.2
Males	43,905	1,469	2,134	40,302	24,011	16,291	42.7	44.7
Females	28,194	1,599	5,560	21,035	16,842	4,193	35.3	40.4
Black and other	9,291	686	889	7,716	6,195	1,521	37.8	41.3
Males	4,978	286	303	4,389	3,329	1,060	39.6	42.2
Females	4,314	400	585	3,329	2,868	461	35.7	40.1
MARITAL STATUS								
Males:								
Married, spouse present	32,824	624	956	31,244	18,185	13,059	43.8	45.0
Widowed, divorced, or separated	3,792	121	160	3,511	2,137	1,374	42.8	44.7
Single (never married)	12,267	1,010	1,321	9,936	7,019	2,917	38.4	42.6
Females:								
Married, spouse present	16,804	701	3,626	12,477	10,161	2,316	35.0	40.2
Widowed, divorced, or separated	6,331	349	871	5,111	3,918	1,193	37.0	41.0
Single (never married)	9,373	950	1,648	6,775	5,630	1,145	34.8	40.1

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

(Numbers in thousands.)

Occupational group and sex	August 1978								
	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									
White-collar workers	40,429	1,112	4,439	34,878	23,532	3,962	7,384	40.1	43.3
Professional and technical	10,479	222	896	9,361	6,332	1,081	1,948	40.7	43.3
Managers and administrators, except farm	9,321	95	351	8,875	4,271	1,112	3,492	46.3	47.6
Sales workers	5,408	276	1,086	4,046	2,442	519	1,085	37.9	44.1
Clerical workers	15,222	520	2,106	12,596	10,488	1,250	858	36.7	40.0
Blue-collar workers	29,778	1,559	1,471	26,748	17,913	4,017	4,818	40.7	43.0
Craft and kindred workers	11,772	427	323	11,022	7,124	1,656	2,242	42.0	43.4
Operatives, except transport	9,887	485	400	9,002	6,381	1,494	1,127	40.2	41.9
Transport equipment operatives	3,045	138	136	2,771	1,446	428	897	44.2	46.5
Nonfarm laborers	5,074	509	611	3,954	2,963	439	552	36.7	41.6
Service workers	11,785	1,133	2,761	7,891	5,863	922	1,106	34.8	42.0
Private household	1,022	182	462	378	284	29	65	25.6	42.8
Other service workers	10,763	952	2,299	7,512	5,578	893	1,041	35.7	41.9
Males									
White-collar workers	20,142	311	876	18,955	10,581	2,369	6,005	44.3	45.8
Professional and technical	6,796	101	299	6,396	4,020	715	1,661	43.1	44.6
Managers and administrators, except farm	7,161	57	128	6,976	3,069	875	3,032	47.8	48.6
Sales workers	3,035	87	241	2,707	1,419	369	919	42.6	45.5
Clerical workers	3,150	64	208	2,878	2,076	410	392	40.1	41.9
Blue-collar workers	24,609	1,162	1,013	22,434	14,422	3,479	4,533	41.5	43.5
Craft and kindred workers	11,107	402	242	10,463	6,692	1,588	2,183	42.2	43.5
Operatives, except transport	6,016	189	173	5,654	3,648	1,066	940	41.9	43.2
Transport equipment operatives	2,940	132	104	2,704	1,401	420	883	44.5	46.6
Nonfarm laborers	4,546	440	493	3,613	2,680	405	528	37.1	41.8
Service workers	4,576	319	594	3,663	2,526	466	671	38.8	43.2
Private household	25	7	6	12	8	--	4	30.3	46.2
Other service workers	4,552	312	588	3,652	2,518	466	668	38.9	43.2
Females									
White-collar workers	20,288	801	3,564	15,923	12,951	1,593	1,379	36.0	40.3
Professional and technical	3,683	121	597	2,965	2,311	366	288	36.3	40.5
Managers and administrators, except farm	2,160	36	223	1,901	1,204	237	460	41.3	44.3
Sales workers	2,373	188	845	1,340	1,024	150	166	31.8	41.1
Clerical workers	12,073	456	1,898	9,719	8,414	840	465	35.8	39.4
Blue-collar workers	5,169	395	458	4,316	3,493	538	285	37.0	40.1
Craft and kindred workers	664	25	81	558	431	68	59	37.6	41.0
Operatives, except transport	3,871	297	227	3,347	2,731	428	188	37.5	39.8
Transport equipment operatives	105	6	32	67	46	8	13	35.1	44.1
Nonfarm laborers	528	69	118	341	283	34	24	33.0	40.2
Service workers	7,208	814	2,167	4,227	3,335	457	435	32.2	40.9
Private household	997	175	456	366	275	29	62	25.4	42.7
Other service workers	6,211	639	1,711	3,861	3,060	428	373	33.3	40.7

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

[Numbers in thousands]

Employment status	August 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,139	4,144	3,994	6,823	3,483	3,340	1,316	662	654
Civilian labor force	2,481	1,419	1,062	2,178	1,251	927	303	168	135
Employed	2,157	1,231	925	1,942	1,109	834	214	123	92
Agriculture	377	282	95	335	255	80	42	28	15
Nonagricultural industries	1,780	949	831	1,607	854	754	172	95	77
Unemployed	324	188	137	236	142	94	88	46	43
Unemployment rate	13.1	13.3	12.9	10.8	11.4	10.1	29.0	27.4	31.9
Not in labor force	5,658	2,725	2,932	4,645	2,232	2,413	1,013	494	520
Keeping house	352	25	327	276	23	253	76	3	74
Going to school	192	121	70	150	102	48	42	19	22
Unable to work	13	8	5	10	8	3	3	--	3
All other reasons	5,101	2,571	2,530	4,208	2,099	2,109	892	472	421

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

Characteristics	August 1978					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	2,157	1,231	925	100.0	100.0	100.0
Nonagricultural industries	1,780	949	831	82.5	77.0	89.8
Wage and salary workers	1,656	865	791	76.8	70.2	85.5
Private household workers	611	217	393	28.3	17.6	42.5
Government workers	188	99	89	8.7	8.0	9.6
Other wage and salary workers	857	549	309	39.7	44.5	33.4
Self-employed workers	101	71	31	4.7	5.8	3.4
Unpaid family workers	22	14	8	1.0	1.1	.9
Agriculture	377	282	95	17.5	22.9	10.3
Wage and salary workers	238	161	77	11.0	13.1	8.3
Self-employed workers	54	49	5	2.5	4.0	.5
Unpaid family workers	86	73	13	4.0	5.9	1.4
OCCUPATION						
Total	2,157	1,231	925	100.0	100.0	100.0
White-collar workers	371	217	155	17.2	17.6	16.8
Professional and technical	23	7	16	1.1	.6	1.7
Managers and administrators, except farm	6	3	3	.3	.2	.3
Sales workers	240	177	63	11.1	14.4	6.8
Clerical workers	102	30	73	4.7	2.4	7.9
Blue-collar workers	603	531	72	28.0	43.1	7.8
Craft and kindred workers	45	42	4	2.1	3.4	.4
Operatives, except transport	68	48	20	3.2	3.9	2.2
Transport equipment operatives	9	9	--	.4	.7	--
Nonfarm laborers	480	432	48	22.3	35.0	5.2
Service workers	873	260	613	40.5	21.1	66.3
Private household workers	417	36	381	19.3	2.9	41.2
Other service workers	456	225	231	21.2	18.2	25.0
Farm workers	310	224	86	14.4	18.2	9.3
Farmers and farm managers	8	4	4	.4	.3	.4
Farm laborers and supervisors	302	220	82	14.0	17.8	8.9

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

Employment status	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
TOTAL													
Total noninstitutional population ¹	158,899	159,114	159,334	159,522	159,736	159,937	160,128	160,313	160,504	160,713	160,928	161,148	161,348
Armed Forces ¹	2,137	2,131	2,134	2,132	2,129	2,121	2,124	2,122	2,118	2,113	2,098	2,116	2,122
Civilian noninstitutional population ¹	156,761	156,982	157,201	157,389	157,608	157,816	158,004	158,190	158,386	158,601	158,830	159,032	159,226
Civilian labor force	97,614	97,756	98,071	98,877	98,919	99,107	99,093	99,414	99,784	100,261	100,573	100,618	100,549
Percent of civilian population	62.3	62.3	62.4	62.8	62.8	62.8	62.7	62.8	63.0	63.2	63.3	63.3	63.1
Employed	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	93,801	94,112	94,819	94,425	94,581
Percent of total population	57.1	57.2	57.4	57.8	58.0	58.1	58.1	58.2	58.4	58.6	58.9	58.6	58.6
Agriculture	3,224	3,199	3,243	3,357	3,323	3,354	3,242	3,310	3,275	3,235	3,473	3,387	3,360
Nonagricultural industries	87,569	87,889	88,140	88,857	89,286	89,527	89,761	89,956	90,526	90,877	91,346	91,038	91,221
Unemployed	6,821	6,668	6,688	6,663	6,310	6,226	6,090	6,148	5,983	6,149	5,754	6,193	5,968
Unemployment rate	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	6.0	6.1	5.7	6.2	5.9
Not in labor force	59,147	59,226	59,130	58,512	58,689	58,709	58,911	58,776	58,602	58,340	58,257	58,414	58,677
Males, 20 years and over													
Total noninstitutional population ¹	67,642	67,745	67,852	67,948	68,052	68,148	68,240	68,327	68,419	68,519	68,623	68,729	68,827
Civilian noninstitutional population ¹	65,947	66,056	66,161	66,257	66,364	66,467	66,556	66,645	66,740	66,845	66,947	67,039	67,127
Civilian labor force	52,445	52,366	52,739	52,971	53,122	53,153	53,142	53,242	53,263	53,414	53,522	53,391	53,306
Percent of civilian population	79.5	79.3	79.7	79.9	80.0	80.0	79.8	79.9	79.8	79.9	79.9	79.6	79.4
Employed	49,787	49,888	50,118	50,459	50,688	50,673	50,759	50,833	51,038	51,182	51,433	51,213	51,135
Percent of total population	73.6	73.6	73.9	74.3	74.5	74.4	74.4	74.4	74.6	74.7	75.0	74.5	74.3
Agriculture	2,327	2,320	2,326	2,330	2,346	2,394	2,283	2,289	2,295	2,328	2,437	2,420	2,358
Nonagricultural industries	47,460	47,568	47,792	48,129	48,342	48,279	48,476	48,544	48,743	48,854	48,996	48,793	48,777
Unemployed	2,658	2,478	2,621	2,512	2,434	2,480	2,383	2,409	2,225	2,232	2,089	2,178	2,171
Unemployment rate	5.1	4.7	5.0	4.7	4.6	4.7	4.5	4.5	4.2	4.2	3.9	4.1	4.1
Not in labor force	13,502	13,690	13,422	13,286	13,242	13,314	13,414	13,403	13,477	13,431	13,425	13,648	13,821
Females, 20 years and over													
Total noninstitutional population ¹	74,429	74,543	74,660	74,768	74,883	74,991	75,095	75,196	75,300	75,412	75,527	75,643	75,753
Civilian noninstitutional population ¹	74,332	74,444	74,561	74,669	74,783	74,892	74,996	75,093	75,198	75,310	75,422	75,537	75,645
Civilian labor force	35,686	36,203	35,984	36,451	36,418	36,595	36,654	36,849	37,117	37,264	37,439	37,542	37,461
Percent of civilian population	48.0	48.6	48.3	48.8	48.7	48.9	48.9	49.1	49.4	49.5	49.6	49.7	49.5
Employed	33,163	33,690	33,537	33,923	34,009	34,348	34,569	34,722	34,948	34,931	35,137	35,110	35,192
Percent of total population	44.6	45.2	44.9	45.4	45.4	45.8	46.0	46.2	46.4	46.3	46.5	46.4	46.5
Agriculture	511	496	525	589	543	517	604	628	623	527	623	587	579
Nonagricultural industries	32,652	33,194	33,012	33,334	33,466	33,831	33,965	34,094	34,325	34,404	34,514	34,523	34,613
Unemployed	2,523	2,513	2,447	2,528	2,409	2,247	2,085	2,127	2,169	2,333	2,302	2,432	2,269
Unemployment rate	7.1	6.9	6.8	6.9	6.6	6.1	5.7	5.8	5.8	6.3	6.1	6.5	6.1
Not in labor force	38,646	38,241	38,577	38,218	38,365	38,297	38,342	38,244	38,081	38,046	37,983	37,995	38,184
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,828	16,825	16,822	16,806	16,802	16,798	16,794	16,790	16,785	16,782	16,779	16,776	16,768
Civilian noninstitutional population ¹	16,483	16,483	16,480	16,463	16,460	16,457	16,453	16,452	16,449	16,446	16,461	16,455	16,455
Civilian labor force	9,483	9,187	9,348	9,455	9,379	9,359	9,297	9,323	9,404	9,583	9,612	9,685	9,782
Percent of civilian population	57.5	55.7	56.7	57.4	57.0	56.9	56.5	56.7	57.2	58.3	58.4	58.9	59.4
Employed	7,843	7,510	7,728	7,832	7,912	7,860	7,675	7,711	7,815	7,999	8,249	8,102	8,254
Percent of total population	46.6	44.6	45.9	46.6	47.1	46.8	45.7	45.9	46.6	47.7	49.2	48.3	49.2
Agriculture	386	383	392	438	434	443	355	393	357	380	413	380	423
Nonagricultural industries	7,457	7,127	7,336	7,394	7,478	7,417	7,320	7,318	7,458	7,619	7,836	7,722	7,831
Unemployed	1,640	1,677	1,620	1,623	1,467	1,499	1,622	1,612	1,589	1,584	1,363	1,583	1,528
Unemployment rate	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	16.9	16.5	14.2	16.3	15.6
Not in labor force	7,000	7,296	7,132	7,008	7,081	7,098	7,156	7,129	7,045	6,863	6,849	6,770	6,673

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-43 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

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

(Numbers in thousands)

Full- and part-time employment status	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	83,324	83,229	83,534	83,908	83,996	84,375	84,449	84,537	84,819	84,972	86,062	86,020	86,012
Employed	77,789	77,893	78,147	78,693	79,058	79,484	79,658	79,818	80,261	80,222	81,551	81,113	81,287
Unemployed	5,535	5,336	5,387	5,215	4,938	4,891	4,791	4,719	4,558	4,750	4,511	4,907	4,725
Unemployment rate	6.6	6.4	6.4	6.2	5.9	5.8	5.7	5.6	5.4	5.6	5.2	5.7	5.5
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,432	14,512	14,665	14,900	14,870	14,762	14,705	14,824	14,974	15,153	14,397	14,650	14,637
Employed	13,126	13,105	13,253	13,470	13,541	13,443	13,446	13,402	13,536	13,755	13,130	13,362	13,382
Unemployed	1,306	1,407	1,412	1,430	1,329	1,319	1,259	1,422	1,438	1,398	1,267	1,288	1,255
Unemployment rate	9.0	9.7	9.6	9.6	8.9	8.9	8.6	9.6	9.6	9.2	8.8	8.8	8.6

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Characteristics	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
WHITE													
Total, 16 years and over:													
Civilian labor force	86,298	86,407	86,812	87,292	87,193	87,425	87,360	87,532	87,945	88,209	88,623	88,521	88,672
Employed	81,032	81,203	81,614	82,181	82,391	82,650	82,697	82,880	83,386	83,590	84,270	83,862	84,042
Unemployed	5,266	5,204	5,198	5,111	4,802	4,775	4,663	4,652	4,559	4,619	4,353	4,659	4,630
Unemployment rate	6.1	6.0	6.0	5.9	5.5	5.5	5.3	5.3	5.2	5.2	4.9	5.3	5.2
Males, 20 years and over:													
Civilian labor force	47,003	47,008	47,278	47,417	47,507	47,440	47,441	47,528	47,555	47,670	47,818	47,727	47,711
Employed	44,925	45,033	45,220	45,452	45,592	45,546	45,599	45,643	45,859	45,942	46,175	46,009	45,994
Unemployed	2,078	1,975	2,058	1,965	1,915	1,894	1,842	1,885	1,696	1,728	1,643	1,718	1,717
Unemployment rate	4.4	4.2	4.4	4.1	4.0	4.0	3.9	4.0	3.6	3.6	3.4	3.6	3.6
Females, 20 years and over:													
Civilian labor force	30,844	31,171	31,162	31,445	31,381	31,612	31,615	31,701	31,985	32,027	32,260	32,348	32,205
Employed	28,895	29,244	29,268	29,536	29,545	29,875	30,021	30,149	30,345	30,307	30,540	30,536	30,486
Unemployed	1,949	1,927	1,894	1,909	1,836	1,737	1,594	1,552	1,640	1,720	1,720	1,812	1,719
Unemployment rate	6.3	6.2	6.1	6.1	5.9	5.5	5.0	4.9	5.1	5.4	5.3	5.6	5.3
Both sexes, 16 to 19 years:													
Civilian labor force	8,451	8,228	8,372	8,430	8,305	8,373	8,304	8,303	8,405	8,512	8,545	8,446	8,756
Employed	7,212	6,926	7,126	7,193	7,254	7,229	7,077	7,088	7,182	7,341	7,555	7,317	7,562
Unemployed	1,239	1,302	1,246	1,237	1,051	1,144	1,227	1,215	1,223	1,171	990	1,129	1,194
Unemployment rate	14.7	15.8	14.9	14.7	12.7	13.7	14.8	14.6	14.6	13.8	11.6	13.4	13.6
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	11,375	11,344	11,398	11,551	11,761	11,725	11,785	11,871	11,816	11,934	11,980	11,997	11,975
Employed	9,752	9,854	9,842	9,966	10,271	10,238	10,391	10,402	10,418	10,467	10,553	10,496	10,578
Unemployed	1,623	1,490	1,556	1,585	1,490	1,487	1,394	1,469	1,398	1,467	1,427	1,501	1,397
Unemployment rate	14.3	13.1	13.7	13.7	12.7	12.7	11.8	12.4	11.8	12.3	11.9	12.5	11.7
Males, 20 years and over:													
Civilian labor force	5,500	5,405	5,522	5,541	5,649	5,678	5,662	5,699	5,673	5,743	5,731	5,684	5,670
Employed	4,856	4,837	4,898	4,985	5,137	5,124	5,173	5,216	5,172	5,238	5,283	5,206	5,161
Unemployed	644	568	624	556	512	554	489	483	501	505	448	478	509
Unemployment rate	11.7	10.5	11.3	10.0	9.1	9.8	8.6	8.5	8.8	8.8	7.8	8.4	9.0
Females, 20 years and over:													
Civilian labor force	4,839	4,966	4,883	4,988	5,065	5,051	5,088	5,145	5,128	5,138	5,187	5,164	5,256
Employed	4,268	4,408	4,328	4,358	4,485	4,503	4,576	4,560	4,589	4,580	4,602	4,566	4,708
Unemployed	571	558	555	630	580	548	512	585	539	558	585	598	548
Unemployment rate	11.8	11.2	11.4	12.6	11.5	10.8	10.1	11.4	10.5	10.9	11.3	11.6	10.4
Both sexes, 16 to 19 years:													
Civilian labor force	1,036	973	993	1,022	1,047	996	1,035	1,027	1,015	1,053	1,062	1,149	1,049
Employed	628	609	616	623	649	611	642	626	657	649	668	724	709
Unemployed	408	364	377	399	398	385	393	401	358	404	394	425	340
Unemployment rate	39.4	37.4	38.0	39.0	38.0	38.7	38.0	39.0	35.3	38.4	37.1	37.0	32.4

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

(Unemployment rates)

Selected categories	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
CHARACTERISTICS													
Total (all civilian workers)	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	6.0	6.1	5.7	6.2	5.9
Males, 20 years and over	5.1	4.7	5.0	4.7	4.6	4.7	4.5	4.5	4.2	4.2	3.9	4.1	4.1
Females, 20 years and over	7.1	6.9	6.8	6.9	6.6	6.1	5.7	5.8	5.8	6.3	6.1	6.5	6.1
Both sexes, 16-19 years	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	16.9	16.5	14.2	16.3	15.6
White	6.1	6.0	6.0	5.9	5.5	5.5	5.3	5.3	5.2	5.2	4.9	5.3	5.2
Black and other	14.3	13.1	13.7	13.7	12.7	12.7	11.8	12.4	11.8	12.3	11.9	12.5	11.7
Married men, spouse present	3.5	3.3	3.6	3.3	3.2	2.9	2.9	3.0	2.8	2.9	2.7	2.7	2.8
Married women, spouse present	6.5	6.4	6.3	6.5	6.2	5.6	5.2	5.1	5.0	5.9	5.6	5.6	5.8
Women who head families	10.0	10.0	9.3	9.3	8.1	7.9	7.6	8.6	10.1	9.3	8.8	10.1	8.2
Full-time workers	6.6	6.4	6.4	6.2	5.9	5.8	5.7	5.6	5.4	5.6	5.2	5.7	5.5
Part-time workers	9.0	9.7	9.6	9.6	8.9	8.9	8.6	9.6	9.6	9.2	8.8	8.8	8.6
Unemployed 15 weeks and over ¹	1.8	1.9	1.9	1.8	1.8	1.7	1.6	1.5	1.4	1.4	1.2	1.3	1.2
Labor force time lost ²	7.6	7.4	7.4	7.3	7.0	6.8	6.6	6.6	6.3	6.6	6.4	6.8	6.6
OCCUPATION													
White-collar workers	4.2	4.2	4.1	4.2	4.0	3.6	3.5	3.4	3.5	3.6	3.5	3.8	3.5
Professional and technical	3.0	3.0	3.0	2.9	2.8	2.7	2.5	2.6	2.5	2.4	2.4	2.5	2.6
Managers and administrators, except farm	2.5	2.5	2.6	3.0	2.5	2.5	1.9	2.3	2.0	2.0	1.8	2.2	1.8
Sales workers	5.2	5.1	5.0	4.9	4.7	3.9	4.3	4.3	4.3	4.4	4.4	4.4	4.2
Clerical workers	5.8	6.0	5.7	5.7	5.5	5.0	5.0	4.5	5.1	5.3	5.0	5.4	5.0
Blue-collar workers	8.3	7.8	8.0	7.6	7.2	7.1	7.1	7.1	6.5	6.6	6.5	6.9	7.0
Craft and kindred workers	5.5	5.1	5.4	5.2	5.2	5.4	5.0	5.1	4.3	4.3	4.2	4.0	4.4
Operatives, except transport	9.8	9.9	9.8	9.3	8.5	7.9	8.1	8.0	7.6	8.4	7.9	8.5	9.0
Transport equipment operatives	7.5	5.7	6.1	5.3	5.6	5.4	5.0	5.2	5.2	5.9	4.6	6.1	5.9
Nonfarm laborers	12.4	11.3	11.8	11.9	10.6	11.0	11.5	11.9	10.0	8.7	9.9	10.6	9.5
Service workers	8.3	7.9	8.1	7.8	7.8	7.6	7.1	7.7	7.7	7.6	7.2	7.5	7.1
Farm workers	4.0	4.7	4.4	4.1	3.9	3.9	4.7	4.7	3.1	3.6	3.0	3.8	3.3
INDUSTRY													
Nonagricultural private wage and salary workers ³	7.0	6.8	6.9	6.7	6.3	6.2	6.1	6.0	5.9	5.9	5.6	6.0	5.9
Construction	11.4	10.4	12.1	11.2	10.8	11.7	11.5	11.3	9.5	9.2	9.3	9.5	9.1
Manufacturing	6.9	7.0	6.8	6.5	5.7	5.6	5.7	5.4	5.3	5.6	5.6	5.6	5.7
Durable goods	6.3	6.4	6.1	6.0	5.6	5.2	5.0	4.8	4.4	5.0	4.8	5.1	5.5
Nondurable goods	7.7	7.9	7.8	7.2	5.9	6.1	6.5	6.2	6.5	6.4	6.7	6.4	5.9
Transportation	4.8	4.8	4.8	4.7	4.9	4.3	3.2	3.7	3.7	3.8	3.7	4.1	3.8
Wholesale and retail trade	8.1	7.6	7.9	7.4	7.3	7.1	7.1	7.3	7.2	6.8	6.3	6.8	6.6
Finance and service industries	5.7	5.7	5.7	6.0	5.5	5.3	5.1	5.1	5.2	5.3	4.7	5.4	5.2
Government workers	4.3	4.1	4.1	4.3	4.3	4.2	3.5	3.7	3.8	4.1	4.0	4.1	3.6
Agricultural wage and salary workers	9.8	10.4	10.3	9.3	9.6	9.0	10.1	10.0	7.7	7.7	8.0	10.1	8.3

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	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Duration													
Less than 5 weeks	2,865	2,784	2,804	2,851	2,628	2,700	2,586	2,820	2,790	2,932	2,727	3,025	2,822
5 to 14 weeks	2,237	2,152	2,117	2,037	1,937	1,861	1,820	1,877	1,784	1,803	1,916	1,854	1,988
15 weeks and over	1,800	1,834	1,848	1,829	1,797	1,688	1,568	1,463	1,384	1,358	1,231	1,292	1,215
15 to 26 weeks	933	908	920	936	941	864	897	766	716	680	651	665	631
27 weeks and over	867	926	928	893	856	824	671	697	668	678	580	627	584
Average (mean) duration, in weeks	13.7	14.0	13.8	13.7	13.8	13.1	12.5	12.3	12.3	12.1	12.0	11.8	11.2
Median duration, in weeks	7.2	6.9	7.1	7.0	7.1	6.6	7.0	6.2	5.8	5.2	5.8	5.9	6.0
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	41.5	41.1	41.4	42.4	41.3	43.2	43.3	45.8	46.8	48.1	46.4	49.0	46.8
5 to 14 weeks	32.4	31.8	31.3	30.3	30.4	29.8	30.5	30.5	29.9	29.6	32.6	30.0	33.0
15 weeks and over	26.1	27.1	27.3	27.2	28.2	27.0	26.2	23.8	23.2	22.3	21.0	20.9	20.2
15 to 26 weeks	13.5	13.4	13.6	13.9	14.8	13.8	15.0	12.4	12.0	11.2	11.1	10.8	10.5
27 weeks and over	12.6	13.7	13.7	13.3	13.5	13.2	11.2	11.3	11.2	11.1	9.9	10.2	9.7

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total, 16 years and over	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	6.0	6.1	5.7	6.2	5.9
16 to 19 years	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	16.9	16.5	14.2	16.3	15.6
16 to 17 years	20.1	19.8	18.8	19.0	17.8	18.2	20.8	20.4	19.9	19.3	16.7	20.1	18.9
18 to 19 years	15.5	16.7	16.2	15.9	13.7	14.5	15.0	15.2	14.4	14.5	12.9	13.6	13.3
20 to 24 years	11.2	10.7	10.4	10.4	10.2	10.5	10.1	10.3	10.0	9.0	9.2	9.9	9.0
25 years and over	4.9	4.7	4.9	4.7	4.4	4.2	3.9	4.0	3.9	4.2	3.9	4.2	4.2
25 to 54 years	5.2	4.8	5.1	4.8	4.6	4.3	4.1	4.2	4.1	4.5	4.1	4.4	4.4
55 years and over	3.9	4.1	4.2	4.1	4.0	3.5	3.3	3.1	3.2	3.2	3.1	3.2	3.0
Males, 16 years and over	6.1	5.9	6.0	5.8	5.5	5.6	5.6	5.6	5.2	5.1	4.7	5.1	5.0
16 to 19 years	17.4	17.7	16.7	16.4	15.3	14.9	17.2	17.1	16.6	15.3	12.6	15.4	14.7
16 to 17 years	20.8	19.2	18.6	18.2	16.7	17.2	21.1	21.0	19.9	18.4	16.1	18.8	17.7
18 to 19 years	14.9	15.8	15.1	15.0	13.9	13.4	14.3	14.3	13.4	12.9	11.3	13.0	12.4
20 to 24 years	11.4	10.4	9.9	9.8	9.8	10.5	10.3	10.1	9.1	7.9	8.1	8.9	8.7
25 years and over	4.1	3.9	4.3	3.8	3.6	3.5	3.4	3.5	3.3	3.5	3.1	3.3	3.4
25 to 54 years	4.3	3.8	4.3	3.9	3.6	3.6	3.4	3.5	3.3	3.6	3.2	3.3	3.5
55 years and over	3.5	3.9	4.1	3.7	3.7	3.2	3.2	3.2	3.3	3.3	3.0	3.4	2.9
Females, 16 years and over	8.2	8.2	8.0	8.1	7.6	7.3	6.9	7.0	7.0	7.5	7.2	7.7	7.2
16 to 19 years	17.2	18.9	18.0	18.1	16.1	17.4	17.7	17.5	17.2	17.9	16.0	17.4	16.7
16 to 17 years	19.3	20.6	19.1	20.1	19.2	19.5	20.4	19.6	19.9	20.3	17.4	21.6	20.3
18 to 19 years	16.2	17.7	17.4	16.8	13.5	15.8	15.7	16.1	15.6	16.1	14.8	14.4	14.4
20 to 24 years	11.0	11.0	11.0	11.1	10.8	10.5	9.8	10.4	11.0	10.3	10.4	11.0	9.2
25 years and over	6.2	6.0	5.8	6.0	5.7	5.2	4.7	4.7	4.8	5.3	5.2	5.6	5.3
25 to 54 years	6.5	6.4	6.2	6.3	6.0	5.5	5.1	5.2	5.2	5.8	5.6	6.0	5.8
55 years and over	4.5	4.5	4.5	4.8	4.4	3.8	3.3	3.0	3.0	3.1	3.1	2.9	3.3

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

[Numbers in thousands]

Reason for unemployment	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
NUMBER OF UNEMPLOYED													
Job losers	3,197	3,055	3,035	2,969	2,748	2,698	2,540	2,493	2,475	2,577	2,340	2,552	2,553
On layoff	963	847	840	780	687	768	709	660	593	683	606	714	770
Other job losers	2,234	2,208	2,195	2,189	2,061	1,930	1,831	1,833	1,882	1,894	1,734	1,838	1,783
Job leavers	891	869	876	881	877	856	898	862	872	819	849	869	841
Reentrants	1,872	1,879	1,906	1,891	1,886	1,821	1,796	1,911	1,734	1,772	1,760	1,883	1,733
New entrants	947	935	857	901	820	914	868	923	925	901	810	880	893
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	46.3	45.3	45.5	44.7	43.4	42.9	41.6	40.3	41.2	42.5	40.6	41.3	42.4
On layoff	13.9	12.6	12.6	11.7	10.9	12.2	11.6	10.7	9.9	11.3	10.5	11.5	12.8
Other job losers	32.3	32.8	32.9	33.0	32.6	30.7	30.0	29.6	31.3	31.2	30.1	29.7	29.6
Job leavers	12.9	12.9	13.1	13.3	13.9	13.6	14.7	13.9	14.5	13.5	14.7	14.1	14.0
Reentrants	27.1	27.9	28.6	28.5	29.8	29.0	29.4	30.9	28.9	29.2	30.6	30.4	28.8
New entrants	13.7	13.9	12.8	13.6	13.0	14.5	14.2	14.9	15.4	14.8	14.1	14.2	14.8
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.3	3.1	3.1	3.0	2.8	2.7	2.6	2.5	2.5	2.6	2.3	2.5	2.5
Job leavers .....	.9	.9	.9	.9	.9	.9	.9	.9	.9	.8	.8	.9	.8
Reentrants	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.7	1.8	1.7	1.9	1.7
New entrants	1.0	1.0	.9	.9	.8	.9	.9	.9	.9	.9	.8	.9	.9

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[In thousands]

Sex and age	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total, 16 years and over	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	93,801	94,112	94,819	94,425	94,581
16 to 19 years	7,843	7,510	7,728	7,832	7,912	7,860	7,675	7,711	7,815	7,999	8,249	8,102	8,254
16 to 17 years	3,146	3,119	3,170	3,215	3,237	3,213	3,133	3,126	3,213	3,313	3,380	3,277	3,405
18 to 19 years	4,666	4,445	4,563	4,610	4,664	4,657	4,585	4,575	4,636	4,678	4,832	4,749	4,839
20 to 24 years	12,866	13,023	13,018	13,055	13,139	13,183	13,201	13,220	13,403	13,473	13,596	13,485	13,597
25 years and over	70,006	70,559	70,691	71,309	71,551	71,914	72,176	72,315	72,561	72,580	72,954	72,855	72,637
25 to 54 years	56,465	56,770	56,831	57,255	57,530	57,910	58,222	58,325	58,477	58,388	58,723	58,742	58,648
55 years and over	13,620	13,759	13,905	14,006	14,039	14,003	13,984	13,984	14,108	14,099	14,268	14,116	14,068
Males, 16 years and over	53,942	53,964	54,341	54,745	55,012	54,975	54,897	55,013	55,208	55,446	55,869	55,534	55,529
16 to 19 years	4,155	4,076	4,223	4,286	4,324	4,302	4,138	4,180	4,170	4,264	4,436	4,321	4,394
16 to 17 years	1,728	1,721	1,767	1,809	1,825	1,788	1,709	1,746	1,727	1,800	1,820	1,753	1,834
18 to 19 years	2,421	2,392	2,455	2,473	2,492	2,514	2,461	2,436	2,483	2,447	2,580	2,519	2,567
20 to 24 years	7,037	7,057	7,139	7,142	7,172	7,135	7,139	7,207	7,324	7,381	7,406	7,304	7,355
25 years and over	42,687	42,843	43,004	43,320	43,530	43,557	43,649	43,611	43,708	43,781	44,024	43,881	43,718
25 to 54 years	34,184	34,336	34,394	34,617	34,828	34,931	34,996	34,982	35,060	35,051	35,162	35,159	35,011
55 years and over	8,515	8,500	8,633	8,698	8,734	8,649	8,637	8,653	8,663	8,702	8,835	8,724	8,709
Females, 16 years and over	36,851	37,124	37,042	37,469	37,597	37,906	38,106	38,253	38,593	38,666	38,950	38,891	39,052
16 to 19 years	3,688	3,434	3,505	3,546	3,588	3,558	3,537	3,531	3,645	3,735	3,813	3,781	3,860
16 to 17 years	1,418	1,398	1,403	1,406	1,412	1,425	1,424	1,380	1,486	1,513	1,560	1,524	1,571
18 to 19 years	2,245	2,053	2,108	2,137	2,172	2,143	2,124	2,139	2,153	2,231	2,252	2,230	2,272
20 to 24 years	5,829	5,966	5,879	5,913	5,967	6,048	6,062	6,013	6,079	6,092	6,190	6,181	6,242
25 years and over	27,319	27,716	27,687	27,989	28,021	28,357	28,527	28,704	28,853	28,799	28,930	28,974	28,919
25 to 54 years	22,281	22,434	22,437	22,638	22,702	22,979	23,226	23,343	23,417	23,337	23,561	23,583	23,637
55 years and over	5,105	5,259	5,272	5,308	5,305	5,354	5,347	5,331	5,445	5,397	5,433	5,392	5,359

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

[In thousands]

Sex and age	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Total, 16 years and over	6,821	6,668	6,688	6,663	6,310	6,226	6,090	6,148	5,983	6,149	5,754	6,193	5,968
16 to 19 years	1,640	1,677	1,620	1,623	1,467	1,499	1,622	1,612	1,589	1,584	1,363	1,583	1,528
16 to 17 years	792	771	736	756	701	717	821	799	798	792	678	826	795
18 to 19 years	858	892	879	871	740	791	806	817	782	793	718	750	744
20 to 24 years	1,620	1,553	1,515	1,519	1,499	1,547	1,477	1,513	1,488	1,332	1,373	1,477	1,338
25 years and over	3,621	3,502	3,641	3,493	3,319	3,155	2,941	2,987	2,933	3,195	2,997	3,201	3,156
25 to 54 years	3,074	2,887	3,037	2,909	2,772	2,632	2,476	2,561	2,490	2,745	2,538	2,692	2,723
55 years and over	555	588	615	605	585	503	470	449	463	467	449	467	441
Males, 16 years and over	3,533	3,354	3,469	3,352	3,213	3,232	3,245	3,271	3,056	3,001	2,728	2,965	2,926
16 to 19 years	875	876	848	840	779	752	862	862	831	769	787	787	755
16 to 17 years	453	408	404	403	365	371	457	463	429	406	350	406	395
18 to 19 years	424	450	435	438	401	389	410	408	384	364	328	376	362
20 to 24 years	902	819	788	777	775	840	816	812	736	632	657	715	705
25 years and over	1,829	1,724	1,929	1,714	1,640	1,601	1,519	1,562	1,491	1,589	1,424	1,492	1,529
25 to 54 years	1,518	1,360	1,556	1,392	1,315	1,297	1,238	1,283	1,196	1,297	1,144	1,189	1,278
55 years and over	312	342	369	337	339	289	285	284	297	295	275	306	256
Females, 16 years and over	3,288	3,314	3,219	3,311	3,097	2,994	2,845	2,877	2,927	3,148	3,026	3,228	3,042
16 to 19 years	765	801	772	783	688	747	760	750	758	815	724	796	773
16 to 17 years	339	363	332	353	336	346	364	336	369	386	328	420	400
18 to 19 years	434	442	444	433	339	402	396	409	398	429	390	374	382
20 to 24 years	718	734	727	742	724	707	661	701	752	700	716	762	633
25 years and over	1,792	1,778	1,712	1,779	1,679	1,554	1,422	1,425	1,442	1,606	1,573	1,709	1,627
25 to 54 years	1,556	1,527	1,481	1,517	1,457	1,335	1,238	1,278	1,294	1,448	1,394	1,503	1,445
55 years and over	243	246	246	268	246	214	185	165	166	172	174	161	185

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
CHARACTERISTICS													
Total, 16 years and over	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	93,801	94,112	94,819	94,425	94,581
Married men, spouse present	38,292	38,338	38,425	38,531	38,682	38,645	38,666	38,465	38,628	38,626	38,711	38,642	38,467
Married women, spouse present	20,810	21,185	21,119	21,278	21,416	21,638	21,738	21,674	21,847	21,694	21,718	21,766	21,667
OCCUPATION													
White-collar workers	45,198	45,493	46,083	46,251	46,316	46,547	46,555	46,835	46,789	46,895	47,209	47,192	47,236
Professional and technical	13,706	13,778	14,042	13,918	13,981	14,057	14,016	14,060	14,158	14,399	14,365	14,239	14,255
Managers and administrators, except farm	9,699	9,747	9,911	9,894	9,939	10,067	10,134	10,169	10,212	9,933	10,107	10,182	10,174
Sales workers	5,726	5,741	5,718	5,804	5,796	5,913	5,811	5,985	5,861	5,911	5,931	6,017	5,872
Clerical workers	16,067	16,227	16,412	16,635	16,600	16,510	16,594	16,621	16,558	16,652	16,806	16,754	16,935
Blue-collar workers	30,229	30,324	30,247	30,603	30,807	30,942	31,198	31,039	31,655	31,544	31,683	31,225	31,482
Craft and kindred workers	11,903	11,992	11,860	12,116	12,153	12,111	12,220	12,169	12,302	12,218	12,467	12,229	12,559
Operatives, except transport equipment	10,295	10,239	10,320	10,423	10,424	10,755	10,738	10,766	10,974	10,846	11,006	10,841	10,702
operatives	3,453	3,533	3,457	3,525	3,555	3,432	3,643	3,541	3,560	3,534	3,512	3,452	3,404
Nonfarm laborers	4,578	4,560	4,610	4,539	4,675	4,644	4,597	4,563	4,819	4,946	4,698	4,703	4,817
Service workers	12,520	12,556	12,473	12,590	12,617	12,704	12,703	12,572	12,830	12,883	12,993	12,838	12,884
Farm workers	2,741	2,695	2,755	2,809	2,805	2,872	2,769	2,788	2,687	2,698	2,895	2,802	2,809
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,314	1,339	1,387	1,405	1,405	1,387	1,345	1,389	1,408	1,434	1,482	1,364	1,423
Self-employed workers	1,578	1,572	1,577	1,590	1,605	1,604	1,587	1,527	1,539	1,573	1,669	1,652	1,617
Unpaid family workers	318	272	305	368	346	342	314	389	283	255	336	348	317
Nonagricultural industries:													
Wage and salary workers	80,918	81,363	81,727	82,281	82,692	82,915	83,078	83,124	83,648	84,049	84,513	84,016	84,406
Government	15,210	15,304	15,463	15,415	15,422	15,267	15,237	15,154	15,305	15,203	15,224	15,129	15,282
Private industries	65,708	66,059	66,264	66,866	67,270	67,648	67,841	67,970	68,343	68,846	69,289	68,887	69,124
Private households	1,388	1,403	1,358	1,403	1,436	1,421	1,383	1,293	1,388	1,393	1,368	1,394	1,369
Other industries	64,320	64,656	64,906	65,463	65,834	66,227	66,458	66,677	66,955	67,453	67,921	67,493	67,755
Self-employed workers	6,140	6,084	6,080	6,082	6,182	6,259	6,268	6,427	6,467	6,288	6,198	6,206	6,221
Unpaid family workers	483	505	460	467	442	439	488	500	506	520	468	496	440
PERSONS AT WORK¹													
Nonagricultural industries	82,642	82,783	82,788	83,347	83,662	83,304	84,054	84,285	86,043	85,528	86,051	86,205	86,469
Full-time schedules	67,839	67,817	67,827	68,240	68,574	68,812	69,215	69,417	70,550	70,157	70,861	71,095	71,338
Part-time for economic reasons	3,253	3,306	3,263	3,285	3,220	2,986	3,193	3,164	3,327	3,243	3,458	3,330	3,294
Usually work full time	1,220	1,244	1,237	1,255	1,247	1,043	1,128	1,226	1,224	1,211	1,433	1,385	1,391
Usually work part time	2,033	2,062	2,026	2,030	1,973	1,943	2,065	1,938	2,103	2,032	2,025	1,945	1,903
Part time for noneconomic reasons	11,550	11,660	11,698	11,822	11,868	11,506	11,646	11,704	12,166	12,128	11,732	11,780	11,837

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

HOUSEHOLD DATA

A-43. Employment status of male Vietnam-Era veterans and nonveterans 20 to 39 years of age

[Numbers in thousands]

Employment status	Not seasonally adjusted			Seasonally adjusted					
	Aug. 1977	July 1978	Aug. 1978	Aug. 1977	April 1978	May 1978	June 1978	July 1978	Aug. 1978
VETERANS¹									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	6,813	6,482	6,461	6,813	6,551	6,528	6,505	6,482	6,461
Civilian labor force	6,560	6,177	6,202	6,540	6,247	6,160	6,191	6,148	6,175
Employed	6,121	5,883	5,868	6,034	5,968	5,912	5,923	5,834	5,786
Unemployed	439	294	334	506	279	248	268	314	389
Unemployment rate	6.7	4.8	5.4	7.7	4.5	4.0	4.3	5.1	6.3
20 to 24 years:									
Civilian noninstitutional population ²	1,040	751	736	1,040	800	784	768	751	736
Civilian labor force	963	697	684	948	723	681	684	686	671
Employed	808	629	598	780	646	634	620	608	578
Unemployed	155	68	86	168	77	47	64	78	93
Unemployment rate	16.1	9.8	12.6	17.7	10.7	6.9	9.4	11.4	13.9
25 to 29 years:									
Civilian noninstitutional population ²	2,994	2,337	2,297	2,994	2,458	2,417	2,377	2,337	2,297
Civilian labor force	2,887	2,197	2,177	2,879	2,332	2,281	2,262	2,185	2,172
Employed	2,717	2,057	2,034	2,691	2,228	2,155	2,143	2,045	2,014
Unemployed	170	140	143	188	104	126	119	140	158
Unemployment rate	5.9	6.4	6.6	6.5	4.5	5.5	5.3	6.4	7.3
30 to 34 years:									
Civilian noninstitutional population ²	2,779	3,394	3,428	2,779	3,293	3,327	3,360	3,394	3,428
Civilian labor force	2,710	3,283	3,341	2,713	3,192	3,198	3,245	3,277	3,332
Employed	2,596	3,197	3,236	2,563	3,094	3,123	3,160	3,181	3,194
Unemployed	114	86	105	150	98	75	85	96	138
Unemployment rate	4.2	2.6	3.1	5.5	3.1	2.3	2.6	2.9	4.1
35 to 39 years:									
Civilian noninstitutional population ²	663	1,135	1,167	663	1,041	1,081	1,104	1,135	1,167
Civilian labor force	638	1,095	1,117	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	624	1,063	1,086	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	14	32	31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	2.2	2.9	2.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NONVETERANS									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	17,712	18,518	18,583	17,712	18,308	18,387	18,459	18,518	18,583
Civilian labor force	16,468	17,305	17,293	15,988	16,655	16,687	16,714	16,753	16,771
Employed	15,290	16,343	16,383	14,744	15,569	15,710	15,789	15,772	15,806
Unemployed	1,178	962	910	1,244	1,086	977	925	981	965
Unemployment rate	7.2	5.6	5.3	7.8	6.5	5.9	5.5	5.9	5.8
20 to 24 years:									
Civilian noninstitutional population ²	8,183	8,413	8,417	8,183	8,356	8,381	8,398	8,413	8,417
Civilian labor force	7,394	7,647	7,617	6,981	7,182	7,148	7,176	7,111	7,168
Employed	6,715	7,039	7,073	6,255	6,550	6,596	6,611	6,512	6,586
Unemployed	679	608	544	726	632	552	565	599	582
Unemployment rate	9.2	8.0	7.1	10.4	8.8	7.7	7.9	8.4	8.1
25 to 29 years:									
Civilian noninstitutional population ²	5,354	6,116	6,172	5,354	5,962	6,015	6,069	6,116	6,172
Civilian labor force	5,083	5,848	5,888	5,050	5,642	5,679	5,729	5,834	5,845
Employed	4,777	5,612	5,626	4,723	5,298	5,404	5,511	5,579	5,565
Unemployed	306	236	262	327	344	275	218	255	280
Unemployment rate	6.0	4.0	4.4	6.5	6.1	4.8	3.8	4.4	4.8
30 to 34 years:									
Civilian noninstitutional population ²	4,175	3,989	3,994	4,175	3,990	3,991	3,992	3,989	3,994
Civilian labor force	3,991	3,810	3,788	3,957	3,831	3,860	3,809	3,808	3,758
Employed	3,798	3,692	3,684	3,766	3,721	3,710	3,667	3,681	3,655
Unemployed	193	118	104	191	110	150	142	127	103
Unemployment rate	4.8	3.1	2.7	4.8	2.9	3.9	3.7	3.3	2.7
35 to 39 years:									
Civilian noninstitutional population ²	3,500	3,623	3,635	3,500	3,566	3,559	3,605	3,623	3,635
Civilian labor force	3,343	3,474	3,483	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	3,243	3,378	3,386	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	100	96	97	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	3.0	2.8	2.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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

appear in the unadjusted and seasonally adjusted columns.

² Since seasonal variations are not present in the population figures, identical numbers

N.A. = not available.

**ESTABLISHMENT DATA
HISTORICAL EMPLOYMENT**

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

[In thousands]

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Contract construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1919.....	27,088	12,813	1,133	1,021	10,659	14,275	3,711	4,514	-	-	1,111	2,263	2,676	-	-
1920.....	27,350	12,745	1,239	848	10,658	14,605	3,998	4,467	-	-	1,175	2,362	2,603	-	-
1925.....	28,778	12,474	1,089	1,446	9,939	16,304	3,826	5,576	-	-	1,233	2,869	2,800	-	-
1926.....	29,819	12,896	1,185	1,555	10,156	16,923	3,942	5,784	-	-	1,305	3,046	2,846	-	-
1927.....	29,976	12,723	1,114	1,608	10,001	17,253	3,895	5,908	-	-	1,367	3,168	2,915	-	-
1928.....	30,000	12,603	1,050	1,606	9,947	17,397	3,828	5,874	-	-	1,435	3,265	2,995	-	-
1929.....	31,339	13,286	1,087	1,497	10,702	18,053	3,916	6,123	-	-	1,509	3,440	3,065	533	2,532
1930.....	29,424	11,943	1,009	1,372	9,562	17,481	3,685	5,797	-	-	1,475	3,376	3,148	526	2,622
1931.....	26,649	10,257	873	1,214	8,170	16,392	3,254	5,284	-	-	1,407	3,183	3,264	560	2,704
1932.....	23,628	8,632	731	970	6,931	14,996	2,816	4,683	-	-	1,341	2,931	3,225	559	2,666
1933.....	23,711	8,950	744	809	7,397	14,761	2,672	4,755	-	-	1,295	2,873	3,166	565	2,601
1934.....	25,953	10,246	883	862	8,501	15,707	2,750	5,281	-	-	1,319	3,058	3,299	652	2,647
1935.....	27,053	10,878	897	912	9,069	16,175	2,786	5,431	-	-	1,335	3,142	3,481	753	2,728
1936.....	29,082	11,918	946	1,145	9,827	17,164	2,973	5,809	-	-	1,388	3,326	3,668	826	2,842
1937.....	31,026	12,921	1,015	1,112	10,794	18,105	3,134	6,265	-	-	1,432	3,518	3,756	833	2,923
1938.....	29,209	11,386	891	1,055	9,440	17,823	2,863	6,179	-	-	1,425	3,473	3,883	829	3,054
1939.....	30,618	12,282	854	1,150	10,278	18,336	2,936	6,426	1,684	4,742	1,462	3,517	3,995	905	3,090
1940.....	32,376	13,204	925	1,294	10,985	19,173	3,038	6,750	1,754	4,996	1,502	3,681	4,202	996	3,206
1941.....	36,554	15,939	957	1,790	13,192	20,614	3,274	7,210	1,873	5,338	1,549	3,921	4,660	1,340	3,320
1942.....	40,125	18,442	992	2,170	15,280	21,683	3,460	7,118	1,821	5,297	1,538	4,084	5,483	2,213	3,270
1943.....	42,452	20,094	925	1,567	17,602	22,359	3,647	6,982	1,741	5,241	1,502	4,148	6,080	2,905	3,174
1944.....	41,883	19,314	892	1,094	17,328	22,569	3,829	7,058	1,762	5,296	1,476	4,163	6,043	2,928	3,116
1945.....	40,394	17,492	836	1,132	15,524	22,902	3,906	7,314	1,862	5,452	1,497	4,241	5,944	2,808	3,137
1946.....	41,674	17,226	862	1,661	14,703	24,448	4,061	8,376	2,190	6,186	1,697	4,719	5,595	2,254	3,341
1947.....	43,881	18,482	955	1,982	15,545	25,399	4,166	8,955	2,361	6,595	1,754	5,050	5,474	1,892	3,582
1948.....	44,891	18,745	994	2,169	15,582	26,146	4,189	9,272	2,489	6,783	1,829	5,206	5,650	1,863	3,787
1949.....	43,778	17,536	930	2,165	14,441	26,242	4,001	9,264	2,487	6,778	1,857	5,264	5,856	1,908	3,948
1950.....	45,222	18,475	901	2,333	15,241	26,747	4,034	9,386	2,518	6,868	1,919	5,382	6,026	1,928	4,098
1951.....	47,849	19,925	929	2,603	16,393	27,924	4,226	9,742	2,606	7,136	1,991	5,576	6,389	2,302	4,087
1952.....	48,825	20,164	898	2,634	16,632	28,660	4,248	10,004	2,687	7,317	2,069	5,730	6,609	2,420	4,188
1953.....	50,232	21,038	866	2,623	17,549	29,195	4,290	10,247	2,727	7,520	2,146	5,867	6,645	2,305	4,340
1954.....	49,022	19,717	791	2,612	16,314	29,306	4,084	10,235	2,739	7,496	2,234	6,002	6,751	2,188	4,563
1955.....	50,675	20,476	792	2,802	16,882	30,199	4,141	10,535	2,796	7,740	2,335	6,274	6,914	2,187	4,727
1956.....	52,408	21,064	822	2,999	17,243	31,344	4,244	10,858	2,884	7,974	2,429	6,536	7,277	2,209	5,069
1957.....	52,894	20,925	828	2,923	17,174	31,969	4,241	10,886	2,893	7,992	2,477	6,749	7,616	2,217	5,399
1958.....	51,363	19,474	751	2,778	15,945	31,890	3,976	10,750	2,848	7,902	2,519	6,806	7,839	2,191	5,648
1959.....	53,313	20,367	732	2,960	16,675	32,945	4,011	11,127	2,946	8,182	2,594	7,130	8,083	2,233	5,850
1960.....	54,234	20,393	712	2,885	16,796	33,840	4,004	11,391	3,004	8,388	2,669	7,423	8,353	2,270	6,083
1961.....	54,042	19,814	672	2,816	16,326	34,229	3,903	11,337	2,993	8,344	2,731	7,664	8,594	2,279	6,315
1962.....	55,596	20,405	650	2,902	16,853	35,190	3,906	11,566	3,056	8,511	2,800	8,028	8,890	2,340	6,550
1963.....	56,702	20,593	635	2,963	16,995	36,108	3,903	11,778	3,104	8,675	2,877	8,325	9,225	2,358	6,868
1964.....	58,331	20,958	634	3,050	17,274	37,373	3,951	12,160	3,189	8,971	2,957	8,709	9,596	2,348	7,248
1965.....	60,815	21,880	632	3,186	18,062	38,936	4,036	12,716	3,312	9,404	3,023	9,087	10,074	2,378	7,696
1966.....	63,955	23,116	627	3,275	19,214	40,839	4,151	13,245	3,437	9,808	3,100	9,551	10,792	2,564	8,227
1967.....	65,857	23,268	613	3,208	19,447	42,589	4,261	13,606	3,525	10,081	3,225	10,099	11,398	2,719	8,679
1968.....	67,951	23,693	606	3,306	19,781	44,258	4,311	14,099	3,611	10,488	3,381	10,622	11,845	2,737	9,109
1969.....	70,442	24,311	619	3,525	20,167	46,130	4,435	14,704	3,733	10,971	3,562	11,228	12,202	2,758	9,444
1970.....	70,920	23,507	623	3,536	19,349	47,412	4,504	15,040	3,816	11,225	3,687	11,621	12,561	2,731	9,830
1971.....	71,222	22,820	609	3,639	18,572	48,401	4,457	15,352	3,823	11,529	3,802	11,903	12,887	2,696	10,192
1972.....	73,714	23,546	625	3,831	19,090	50,167	4,517	15,975	3,943	12,032	3,943	12,392	13,340	2,684	10,656
1973.....	76,896	24,727	644	4,015	20,068	52,169	4,644	16,674	4,107	12,568	4,091	13,021	13,739	2,663	11,075
1974.....	78,413	24,697	694	3,957	20,046	53,715	4,696	17,017	4,223	12,794	4,208	13,617	14,177	2,724	11,453
1975.....	77,051	22,603	745	3,512	18,347	54,448	4,498	17,000	4,177	12,824	4,223	14,006	14,720	2,748	11,973
1976.....	79,443	23,332	783	3,594	18,956	56,111	4,509	17,694	4,263	13,431	4,316	14,644	14,948	2,733	12,215
1977.....	82,142	24,229	831	3,844	19,554	57,912	4,589	18,292	4,389	13,903	4,508	15,333	15,190	2,727	12,463
Aug.....	82,397	24,800	833	4,204	19,763	57,597	4,604	18,352	4,429	13,923	4,578	15,587	14,476	2,757	11,719
Sept.....	83,146	24,960	862	4,157	19,941	58,186	4,653	18,463	4,428	14,035	4,554	15,513	15,003	2,717	12,286
Oct.....	83,672	24,907	863	4,161	19,883	58,765	4,638	18,533	4,450	14,083	4,567	15,580	15,447	2,714	12,733
Nov.....	84,092	24,840	865	4,096	19,879	59,252	4,657	18,796	4,469	14,327	4,583	15,608	15,608	2,716	12,892
Dec.....	84,181	24,472	707	3,884	19,881	59,709	4,657	19,269	4,482	14,787	4,597	15,585	15,601	2,724	12,877
1978:															
Jan.....	82,554	23,972	695	3,528	19,749	58,582	4,582	18,532	4,455	14,077	4,588	15,411	15,469	2,711	12,758
Feb.....	82,852	23,992	697	3,505	19,790	58,860	4,591	18,343	4,465	13,878	4,605	15,602	15,719	2,720	12,999
Mar.....	83,734	24,361	716	3,721	19,924	59,373	4,630	18,518	4,495	14,023	4,637	15,748	15,840	2,725	13,115
Apr.....	84,918	25,001	889	4,072	20,040	59,917	4,671	18,735	4,514	14,221	4,669	15,962	15,880	2,739	13,141
May.....	85,673	25,332	902	4,268	20,162	60,341	4,705	18,940	4,541	14,399	4,707	16,066	15,923	2,756	13,167
June.....	86,642	25,906	928	4,534	20,444	60,736	4,771	19,145	4,604	14,541	4,780	16,239	15,801	2,802	12,999
July.....	85,796	25,795	936	4,642	20,217	60,001	4,729	19,109	4,602	14,507	4,816	16,331	15,016	2,815	12,201
Aug ^p	86,095	26,112	939	4,704	20,469	59,983	4,754	19,179	4,621	14,558	4,831	16,358	14,861	2,794	12,067

p = preliminary.

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

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls, by industry

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
-	TOTAL	82,167	82,397	86,642	85,796	86,095	-	-	-	-	-
	PRIVATE SECTOR	67,567	67,921	70,841	70,780	71,234	55,428	55,718	58,089	57,978	58,384
-	MINING	848	833	928	936	939	635	620	703	709	710
10	METAL MINING	88.3	79.6	97.6	96.9	-	65.0	57.3	75.3	74.4	-
101	Iron ores	26.1	11.1	26.4	26.1	-	20.8	5.8	21.1	20.6	-
102	Copper ores	26.6	33.5	35.2	34.9	-	18.1	25.4	27.1	26.8	-
11,12	COAL MINING	220.0	209.5	241.4	241.7	-	180.9	170.7	202.4	203.5	-
12	Bituminous coal and lignite mining	215.8	205.4	237.6	238.0	-	177.2	167.0	199.2	200.3	-
13	OIL AND GAS EXTRACTION	414.6	417.6	458.1	466.1	-	288.8	291.5	320.9	325.9	-
131,2	Crude petroleum and natural gas fields	179.9	180.5	191.9	194.9	-	89.7	90.2	94.9	95.3	-
138	Oil and gas field services	234.7	237.4	266.2	271.2	-	199.1	201.3	226.0	230.6	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	125.3	125.8	130.4	131.4	-	100.0	100.3	104.4	105.2	-
142	Crushed and broken stone	44.1	44.0	47.3	47.7	-	37.1	36.8	39.8	40.2	-
144	Sand and gravel	39.6	39.9	41.1	41.7	-	-	-	-	-	-
-	CONTRACT CONSTRUCTION	4,148	4,204	4,534	4,642	4,704	3,337	3,394	3,685	3,795	3,850
15	GENERAL BUILDING CONTRACTORS	1,231.6	1,247.1	1,321.2	1,356.4	-	983.6	996.5	1,048.2	1,085.7	-
16	HEAVY CONSTRUCTION CONTRACTORS	882.5	892.0	981.9	1,004.3	-	728.2	742.1	838.0	860.6	-
161	Highway and street construction	410.0	415.5	457.7	471.7	-	348.7	355.2	295.5	408.6	-
162	Heavy construction, nec	472.5	476.5	524.2	532.6	-	379.5	386.9	442.5	452.0	-
17	SPECIAL TRADE CONTRACTORS	2,033.6	2,065.3	2,231.1	2,281.6	-	1,624.9	1,655.3	1,799.0	1,848.9	-
171	Plumbing, heating, air conditioning	468.1	476.6	492.2	506.7	-	355.3	362.1	374.6	388.3	-
172	Painting, paper hanging, decorating	166.4	169.6	183.2	189.4	-	138.9	142.6	156.2	162.7	-
173	Electrical work	340.4	346.9	357.2	365.9	-	266.9	272.9	281.5	289.2	-
174	Masonry, stonework, and plastering	238.8	242.0	285.2	289.1	-	206.8	210.4	249.7	253.8	-
176	Roofing and sheet metal work	146.5	147.1	173.4	179.5	-	118.9	119.7	143.2	148.5	-
-	MANUFACTURING	19,555	19,763	20,444	20,217	20,469	14,024	14,217	14,751	14,498	14,734
19,24,25,32-39,20-23,26-31	DURABLE GOODS	11,485	11,522	12,168	12,056	12,139	8,202	8,230	8,758	8,620	8,696
	NONDURABLE GOODS	8,070	8,241	8,276	8,161	8,330	5,822	5,987	5,993	5,878	6,038
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	156.3	155.9	158.6	159.8	161.3	72.1	71.1	73.3	73.4	74.3
192	Ammunition, except for small arms	99.5	99.7	99.2	100.1	100.7	35.9	35.8	35.6	35.5	35.9
1925	Complete guided missiles	80.8	81.2	80.2	81.0	-	22.2	22.3	22.1	21.9	-
1929	Ammunition, exc. for small arms, nec	18.7	18.5	19.0	19.1	-	13.7	13.5	13.5	13.6	-
24	LUMBER AND WOOD PRODUCTS	659.2	666.7	692.8	689.7	696.6	562.8	570.5	592.4	589.8	594.3
241	Logging camps and logging contractors	76.7	78.3	79.8	81.4	80.9	-	-	-	-	-
242	Sawmills and planing mills	221.1	221.3	225.0	223.0	223.9	196.9	197.8	201.6	199.8	199.6
2421	Sawmills and planing mills, general	188.2	187.8	190.7	189.9	-	167.6	168.0	171.2	170.5	-
243	Millwork, plywood and related products	234.7	239.6	257.3	257.2	(*)	196.7	200.7	214.2	214.1	(*)
2431	Millwork	105.1	108.0	116.4	116.6	-	86.8	89.4	96.0	96.1	-
2432	Veneer and plywood	78.9	79.7	84.2	83.6	-	70.3	70.8	74.1	73.5	-
244	Wooden containers	22.1	22.0	21.9	21.5	21.1	19.5	19.3	19.3	18.9	18.6
2441,2	Wooden boxes, shooks, and crates	17.9	17.7	17.4	17.0	-	15.9	15.6	15.5	15.1	-
249	Miscellaneous wood products	104.6	105.5	108.8	106.6	(*)	86.4	88.0	92.0	89.9	(*)

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		July 1977	Aug. 1977	June 1978	July 1978 ^p	Aug. 1978 ^p	July 1977	Aug. 1977	June 1978	July ^p 1978	Aug. ^p 1978
DURABLE GOODS—Continued											
25	FURNITURE AND FIXTURES	501.1	513.2	536.5	523.3	541.4	410.3	421.7	442.3	428.6	446.3
251	Household furniture	360.6	370.6	387.3	373.9	(*)	303.2	312.7	327.9	314.2	(*)
2511	Wood household furniture	186.0	191.3	198.6	191.0	—	161.9	167.2	173.9	166.2	—
2512	Upholstered household furniture	104.5	107.9	113.6	109.2	—	85.7	88.9	93.7	89.3	—
2515	Mattresses and bedsprings	33.0	33.9	35.4	35.1	—	25.4	26.3	27.7	27.4	—
252	Office furniture	42.1	42.6	44.2	44.8	—	34.3	34.6	36.1	36.4	—
254	Partitions and fixtures	54.7	55.3	58.7	58.8	—	40.8	41.5	44.3	44.3	—
263,9	Other furniture and fixtures	43.7	44.7	46.3	45.8	(*)	32.0	32.9	34.0	33.7	(*)
32	STONE, CLAY, AND GLASS PRODUCTS ...	672.0	673.5	704.2	703.2	701.4	538.8	539.4	561.3	559.8	558.0
321	Flat glass	16.9	17.2	17.4	17.4	—	13.8	14.0	14.1	14.0	—
322	Glass and glassware, pressed or blown	138.4	137.0	139.1	138.0	139.6	120.1	118.7	119.5	118.2	119.6
3221	Glass containers	81.3	80.4	80.5	80.0	—	72.4	71.7	71.0	70.5	—
3229	Pressed and blown glass, nec	57.1	56.6	58.6	58.0	—	47.7	47.0	48.5	47.7	—
324	Cement, hydraulic	31.0	30.9	31.9	31.6	31.6	24.8	24.6	25.5	25.5	25.4
325	Structural clay products	52.4	52.9	53.8	53.6	53.3	42.4	42.7	42.7	42.5	42.3
3251	Brick and structural clay tile	23.9	24.0	24.7	24.8	—	20.0	20.1	20.6	20.7	—
326	Pottery and related products	41.3	42.0	42.2	41.6	—	34.8	35.4	35.4	35.1	—
327	Concrete, gypsum, and plaster products	212.5	213.6	230.9	232.4	233.6	167.3	168.1	182.6	183.8	184.8
328,9	Other stone and nonmetallic mineral products	139.3	139.0	144.6	145.0	(*)	105.7	105.6	109.7	110.2	(*)
3291	Abrasive products	24.3	24.6	26.6	27.0	—	17.1	17.5	18.5	18.9	—
33	PRIMARY METAL INDUSTRIES	1,211.3	1,206.3	1,238.5	1,229.8	1,229.7	945.0	939.9	975.2	965.3	965.4
331	Blast furnaces and basic steel products	563.1	554.8	552.4	555.4	(*)	439.9	432.1	436.2	438.4	(*)
3312	Blast furnaces and steel mills	489.5	481.4	479.2	483.2	—	384.0	376.5	379.6	383.0	—
332	Iron and steel foundries	220.1	215.0	226.6	224.6	(*)	179.9	174.5	185.8	183.0	(*)
3321	Gray iron foundries	141.9	137.8	146.0	143.2	—	117.7	113.1	121.9	119.0	—
3322	Malleable iron foundries	20.6	20.8	21.0	20.7	—	16.7	17.0	17.0	16.7	—
3323	Steel foundries	57.6	56.4	59.6	60.7	—	45.5	44.4	46.9	47.3	—
333,4	Nonferrous metals	75.8	81.4	88.6	88.5	89.2	55.5	61.2	67.8	67.7	68.5
3334	Primary aluminum	35.2	34.9	36.9	37.3	—	28.2	27.9	29.7	30.0	—
335	Nonferrous rolling and drawing	197.0	197.6	207.3	201.1	205.1	144.1	144.2	152.5	146.7	150.0
3351	Copper rolling and drawing	36.2	37.3	39.8	39.0	—	27.3	28.3	30.9	29.9	—
3352	Aluminum rolling and drawing	63.7	63.2	67.9	64.6	—	45.7	45.2	49.0	46.3	—
3357	Nonferrous wire drawing and insulating	77.0	76.8	78.5	76.6	—	57.1	56.8	58.1	56.3	—
336	Nonferrous foundries	81.0	83.8	87.1	84.3	(*)	66.6	69.4	72.2	69.5	(*)
3361	Aluminum castings	45.5	46.9	48.9	46.8	—	38.1	39.5	41.0	39.0	—
3362,9	Other nonferrous castings	35.5	36.9	38.2	37.5	—	28.5	29.9	31.2	30.5	—
339	Miscellaneous primary metal products	74.3	73.7	76.5	75.9	(*)	59.0	58.5	60.7	60.0	(*)
3391	Iron and steel forgings	46.8	46.3	47.6	47.4	—	37.3	37.0	38.0	37.7	—
34	FABRICATED METAL PRODUCTS	1,444.8	1,464.0	1,536.3	1,513.7	1,523.3	1,091.1	1,108.3	1,170.9	1,146.2	1,153.9
341	Metal cans	62.6	63.7	62.2	62.8	62.4	53.3	54.3	52.9	53.3	53.8
342	Cutlery, hand tools, and hardware	173.2	176.6	188.4	183.9	(*)	133.8	137.2	148.5	143.8	(*)
3421,3,5	Cutlery and hand tools, including saws	69.9	71.2	76.9	75.8	—	53.4	54.8	60.1	58.8	—
3429	Hardware, nec	103.3	105.4	111.5	108.1	—	80.4	82.4	88.4	85.0	—
343	Plumbing and heating, except electric	73.8	75.4	78.7	75.8	77.2	54.5	55.8	58.4	55.7	57.4
3431,2	Sanitary ware and plumbers' brass goods	34.3	34.3	35.5	33.4	—	26.6	26.5	27.4	25.7	—
3433	Heating equipment, except electric	39.5	41.1	43.2	42.4	—	27.9	29.3	31.0	30.0	—
344	Fabricated structural metal products	427.6	480.3	499.7	502.1	508.8	332.4	338.5	352.9	354.4	359.6
3441	Fabricated structural steel	97.6	98.3	99.1	100.2	—	69.3	70.0	70.7	71.6	—
3442	Metal doors, sash, and trim	80.3	82.8	85.7	85.6	—	60.9	62.8	64.6	64.4	—
3443	Fabricated plate work (boiler shops)	137.2	138.7	142.8	142.6	—	88.7	89.9	92.9	92.3	—
3444	Sheet metal work	95.2	96.9	103.7	104.4	—	70.3	71.5	76.2	76.7	—
3446,9	Architectural and miscellaneous metal work	62.3	63.6	68.4	69.3	—	43.2	44.3	48.5	49.4	—
345	Screw machine products, bolts, etc	104.6	105.4	113.8	112.2	113.5	82.3	82.7	89.7	87.9	88.1
3451	Screw machine products	50.4	51.2	56.6	55.7	—	41.5	42.1	46.8	46.1	—
3452	Bolts, nuts, rivets, and washers	54.2	54.2	57.2	56.5	—	40.8	40.6	42.9	41.8	—
346	Metal stampings	229.0	231.0	243.5	233.0	(*)	185.3	187.1	198.8	188.2	(*)
347	Metal services, nec	94.9	96.0	103.9	102.0	(*)	77.7	78.8	86.0	84.0	(*)
348	Miscellaneous fabricated wire products	60.1	60.4	63.4	61.6	62.4	45.8	47.1	49.9	47.9	48.5
349	Miscellaneous fabricated metal products	174.0	175.2	182.7	180.3	179.2	126.0	126.0	133.8	131.0	130.4
3494,8	Valves, pipe, and pipe fittings	114.8	117.0	120.1	118.3	—	79.0	80.0	83.9	81.9	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
DURABLE GOODS—Continued											
35	MACHINERY, EXCEPT ELECTRICAL	2,182.0	2,192.7	2,346.8	2,340.6	2,354.6	1,412.4	1,420.3	1,540.4	1,527.7	1,538.3
351	Engines and turbines	114.1	114.7	119.9	121.0	121.1	71.9	72.7	77.2	78.1	78.8
3511	Steam engines and turbines	42.5	42.4	42.0	42.9	—	22.2	22.2	21.7	22.5	—
3519	Internal combustion engines, nec.	71.6	72.3	77.9	78.1	—	49.7	50.5	55.5	55.6	—
352	Farm machinery	144.9	142.1	140.6	135.8	—	99.6	96.1	98.3	93.1	—
353	Construction and related machinery	348.7	354.1	386.3	386.9	(*)	227.2	232.3	257.7	258.2	(*)
3531.2	Construction and mining machinery	179.7	183.2	196.1	196.1	—	116.8	120.1	131.1	131.1	—
3533	Oil field machinery	72.4	73.0	83.2	83.2	—	50.8	51.4	58.5	58.8	—
3535.6	Conveyors, hoists, cranes, monorails	50.2	50.6	53.7	54.0	—	29.8	30.2	32.6	32.6	—
3537	Industrial trucks and tractors	34.0	34.6	40.1	40.2	—	22.8	23.4	27.9	28.0	—
354	Metal working machinery	327.0	327.6	351.5	350.1	349.1	239.3	239.9	258.5	256.7	254.7
3541	Machine tools, metal cutting types	62.4	62.5	68.6	69.2	—	40.3	40.3	45.4	45.7	—
3544	Special dies, tools, jigs, and fixtures	131.8	132.0	141.1	139.8	—	106.2	106.2	113.9	112.6	—
3545	Machine tool accessories	57.6	57.9	62.3	62.0	—	40.5	40.9	44.2	44.0	—
3542.8	Miscellaneous metal working machinery	75.2	75.2	79.5	79.1	—	52.3	52.5	55.0	54.4	—
355	Special industry machinery	177.9	179.5	185.6	182.5	185.2	113.4	114.6	118.5	115.6	119.2
3551	Food products machinery	42.3	42.4	43.5	43.1	—	27.2	27.3	27.6	27.2	—
3552	Textile machinery	29.6	30.4	30.7	29.2	—	21.3	22.0	22.3	20.8	—
3555	Printing trades machinery	26.7	27.1	29.6	29.3	—	15.9	16.1	17.9	17.7	—
356	General industrial machinery	297.6	298.9	314.9	312.2	313.2	193.7	194.2	208.9	205.6	204.8
3561	Pumps and compressors	86.1	86.5	89.2	88.3	—	51.7	52.0	53.5	52.6	—
3562	Ball and roller bearings	56.8	57.3	60.3	59.1	—	42.0	42.5	45.9	44.7	—
3564	Blowers and fans	34.8	34.8	37.0	36.7	—	22.1	22.0	23.9	23.5	—
3566	Power transmission equipment	47.3	47.7	49.5	49.1	—	33.2	33.1	35.3	34.8	—
357	Office and computing machines	324.9	326.4	362.4	367.4	369.3	135.8	136.1	155.6	156.7	158.0
3573	Electronic computing equipment	250.4	253.4	283.4	287.5	—	92.6	94.8	108.5	109.4	—
358	Service industry machines	172.5	173.8	190.0	189.3	189.7	120.7	122.1	135.5	133.7	133.5
3585	Refrigeration machinery	120.8	120.9	133.6	133.2	—	86.2	86.5	96.8	96.3	—
359	Miscellaneous machinery, except electrical ..	274.4	275.6	295.6	295.4	296.3	210.8	212.3	230.2	230.0	—
36	ELECTRICAL EQUIPMENT AND SUPPLIES ..	1,931.2	1,947.2	2,064.0	2,054.3	2,084.9	1,276.8	1,291.0	1,370.6	1,353.2	1,381.6
361	Electric test and distributing equipment ..	207.1	207.5	222.9	222.7	(*)	139.5	140.4	152.2	151.8	(*)
3611	Electric measuring instruments	79.4	79.5	90.0	91.8	—	47.6	47.7	56.1	57.3	—
3612	Transformers	50.2	50.3	53.0	51.6	—	36.8	37.0	38.5	37.1	—
3613	Switchgear and switchboard apparatus ..	77.5	77.7	79.9	79.3	—	55.1	55.7	57.6	57.4	—
362	Electrical industrial apparatus	222.8	223.4	235.9	236.4	236.1	159.0	158.5	168.2	164.6	165.0
3621	Motors and generators	107.7	108.4	114.1	114.3	—	81.5	81.5	86.3	83.0	—
3622	Industrial controls	71.2	71.8	76.7	76.8	—	46.1	46.3	49.8	49.8	—
363	Household appliances	179.2	179.6	191.7	187.8	188.1	140.2	140.8	152.6	148.5	148.6
3632	Household refrigerators and freezers	39.3	36.6	45.9	44.2	—	30.6	28.3	36.8	35.2	—
3633	Household laundry equipment	28.2	27.9	28.2	28.9	—	22.3	22.0	22.2	22.8	—
3634	Electric housewares and fans	52.9	56.0	55.0	53.3	—	41.5	44.3	44.7	42.9	—
364	Electric lighting and wiring equipment	205.5	207.5	216.8	212.7	218.1	157.7	159.0	165.0	160.4	166.3
3641	Electric lamps	37.6	37.9	37.4	37.2	—	33.4	33.7	33.1	32.7	—
3642	Lighting fixtures	64.8	66.9	70.3	67.4	—	49.4	51.2	54.2	51.3	—
3643.4	Wiring devices	103.1	102.7	109.1	108.1	—	74.9	74.1	77.7	76.4	—
365	Radio and TV receiving equipment	131.1	136.3	138.4	136.0	139.7	94.7	100.0	101.2	99.5	102.8
366	Communication equipment	440.6	441.8	466.4	468.2	(*)	218.7	219.4	233.5	233.5	(*)
3661	Telephone and telegraph apparatus	146.0	146.2	149.0	147.5	—	97.7	98.0	102.4	102.7	—
3662	Radio and TV communication equipment	294.6	295.6	317.4	320.7	—	121.0	121.4	131.1	130.8	—
367	Electronic components and accessories	390.2	395.7	424.0	421.8	(*)	248.0	253.4	269.3	266.6	(*)
3671-3	Electron tubes	43.4	43.0	44.6	44.7	—	27.9	27.6	29.7	29.6	—
3674.9	Other electronic components	346.8	352.7	379.4	377.1	—	220.1	225.8	239.6	237.0	—
369	Miscellaneous electrical equipment and supplies	154.7	155.4	167.9	168.7	170.0	119.0	119.5	128.6	128.3	129.4
3694	Engine electrical equipment	79.8	79.9	86.2	86.1	—	63.8	63.8	68.5	68.3	—
37	TRANSPORTATION EQUIPMENT	1,794.3	1,749.4	1,901.1	1,874.8	1,863.0	1,263.7	1,221.8	1,357.7	1,326.2	1,320.0
371	Motor vehicles and equipment	875.7	840.4	919.5	899.2	(*)	675.1	637.9	714.9	691.9	(*)
3711	Motor vehicles	365.6	330.6	370.9	359.4	—	271.4	235.3	273.7	260.5	—
3712	Passenger car bodies	37.3	37.4	45.6	44.4	—	26.2	26.1	35.0	33.4	—
3713	Truck and bus bodies	42.5	42.5	47.6	47.9	—	33.0	32.9	37.9	38.3	—
3714	Motor vehicle parts and accessories	405.0	403.5	424.2	417.7	—	325.0	323.4	343.6	336.2	—
3715	Truck trailers	25.3	26.4	31.2	29.8	—	19.5	20.2	24.7	23.5	—
372	Aircraft and parts	486.6	479.2	522.8	526.7	(*)	248.5	246.0	275.6	276.3	(*)
3721	Aircraft	260.5	257.8	278.4	281.4	—	122.3	122.5	134.4	135.8	—
3722	Aircraft engines and engine parts	132.7	129.8	144.4	144.9	—	70.2	68.6	80.1	79.2	—
3723.9	Other aircraft parts and equipment	93.4	91.6	100.0	100.4	—	56.0	54.9	61.1	61.3	—
373	Ship and boat building and repairing	227.2	220.6	225.7	221.8	(*)	180.3	172.9	180.7	178.2	(*)
3731	Ship building and repairing	177.7	172.7	174.4	171.3	—	139.5	133.7	138.7	136.6	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
DURABLE GOODS—Continued											
TRANSPORTATION EQUIPMENT—Continued											
3732	Boat building and repairing	49.5	47.9	51.3	50.5	—	40.8	39.2	42.0	41.6	—
374	Railroad equipment	49.2	49.2	49.8	(*)	—	36.6	36.3	37.2	(*)	—
375,9	Other transportation equipment	155.6	159.9	183.3	177.7	—	123.2	128.5	149.3	143.3	—
38	INSTRUMENTS AND RELATED PRODUCTS	525.3	527.6	558.5	554.7	554.8	320.1	321.1	343.3	337.8	336.8
381	Engineering and scientific instruments	58.4	59.7	64.1	63.4	—	27.2	27.9	30.6	29.5	—
382	Mechanical measuring and control devices	122.5	122.9	129.4	128.2	128.7	79.1	79.3	84.2	83.1	83.3
3821	Mechanical measuring devices	80.9	81.1	85.7	85.1	—	49.4	49.4	53.1	52.4	—
3822	Automatic temperature controls	41.6	41.8	43.7	43.1	—	29.7	29.9	31.1	30.7	—
383,5	Optical and ophthalmic goods	69.7	70.4	74.5	73.9	(*)	47.1	47.7	49.8	49.0	(*)
385	Ophthalmic goods	44.9	45.5	46.7	45.9	—	32.6	33.3	33.9	33.1	—
384	Medical instruments and supplies	115.9	116.0	126.2	125.5	(*)	77.6	77.5	84.5	83.0	(*)
386	Photographic equipment and supplies	129.5	129.5	134.3	134.7	(*)	66.3	66.1	71.1	71.1	(*)
387	Watches, clocks, and watchcases	29.3	29.1	30.0	29.0	—	22.8	22.6	23.1	22.1	—
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	407.8	425.8	430.4	411.8	428.2	308.6	325.1	330.1	312.4	327.4
391	Games, toys, dolls, and play vehicles	51.8	55.2	58.3	53.2	56.7	37.1	40.5	43.2	38.3	42.1
394	Toys and sporting goods	117.4	123.9	115.9	112.8	—	89.2	95.1	88.4	85.7	—
3941-3	Games, toys, dolls, and play vehicles	63.2	70.4	60.8	59.1	—	47.1	53.5	45.3	43.8	—
3949	Sporting and athletic goods, nec	54.2	53.5	55.1	53.7	—	42.1	41.6	43.1	41.9	—
395	Pens, pencils, office, and art supplies	33.6	34.2	33.8	32.9	—	24.0	24.6	25.1	24.1	—
396	Costume jewelry and notions	46.8	49.7	52.3	46.2	—	37.4	40.1	42.5	36.8	—
393,9	Other manufacturing industries	158.2	162.8	170.1	166.7	172.6	120.9	124.8	130.9	127.5	132.7
393	Musical instruments and parts	22.1	23.4	25.3	23.8	—	17.7	18.9	20.8	19.3	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,757.2	1,830.0	1,724.8	1,752.6	1,822.6	1,195.0	1,268.9	1,162.3	1,189.5	1,260.7
201	Meat products	365.3	364.5	372.0	372.2	373.9	300.9	300.4	307.8	307.5	310.1
2011	Meat packing plants	170.6	170.2	170.0	171.5	—	136.2	135.7	135.9	136.9	—
2013	Sausages and other prepared meats	68.7	68.5	68.9	69.0	—	50.0	50.0	50.7	50.6	—
2015	Poultry dressing plants	126.0	125.8	133.1	131.7	—	114.7	114.7	121.2	120.0	—
202	Dairy products	198.4	198.4	199.6	199.5	199.7	104.6	104.3	105.6	105.9	105.8
2024	Ice cream and frozen desserts	24.7	24.6	26.0	26.0	—	14.1	14.0	14.9	15.0	—
2026	Fluid milk	126.4	126.7	126.1	126.3	—	54.5	54.7	54.9	55.2	—
203	Canned, cured, and frozen foods	315.5	383.7	266.4	295.1	—	261.6	330.8	214.2	243.8	—
2031,6	Canned, cured, and frozen sea foods	46.5	43.8	46.7	46.4	—	41.2	38.4	41.5	41.1	—
2032,3	Canned food, except sea foods	160.6	225.6	116.7	143.7	—	131.4	197.4	87.7	115.6	—
2037	Frozen fruits and vegetables	58.9	63.9	60.0	56.5	—	50.6	55.5	52.0	48.8	—
204	Grain mill products	147.6	147.9	148.7	147.7	148.7	102.8	103.3	101.9	101.0	101.9
2041	Flour and other grain mill products	28.5	28.7	29.7	29.8	—	19.5	19.7	19.4	19.5	—
2042	Prepared feeds for animals and fowls	73.9	73.5	73.9	73.5	—	49.4	49.1	48.8	48.6	—
205	Bakery products	240.9	242.5	238.6	238.1	237.6	139.3	141.1	139.1	138.7	139.3
2051	Bread, cake, and related products	201.7	202.9	199.8	199.4	—	108.0	109.3	107.9	107.7	—
2052	Cookies and crackers	39.2	39.6	38.8	38.7	—	31.3	31.8	31.2	31.0	—
206	Sugar	25.8	25.5	26.9	25.8	—	18.4	18.2	18.9	17.7	—
207	Confectionery and related products	75.2	77.0	74.5	74.1	78.3	57.2	59.2	57.1	56.7	60.8
2071	Confectionery products	53.2	55.0	53.9	52.9	—	41.5	43.4	42.4	41.5	—
208	Beverages	240.0	242.5	245.5	246.7	245.1	115.1	116.6	118.1	117.9	116.4
2082	Malt liquors	53.3	53.1	51.2	52.3	—	38.7	38.4	35.8	36.5	—
2086	Bottled and canned soft drinks	143.0	144.4	147.7	149.2	—	52.9	53.3	54.7	54.9	—
209	Miscellaneous foods and kindred products	148.5	148.0	152.6	153.4	156.2	95.1	95.0	99.6	100.3	102.2
21	TOBACCO MANUFACTURES	65.8	73.7	62.5	62.7	67.9	51.7	60.1	48.6	48.7	53.3
211	Cigarettes	44.1	44.1	43.9	44.4	—	34.9	34.7	33.9	34.3	—
212	Cigars	8.9	9.3	9.1	8.7	—	7.2	8.1	7.9	7.5	—
22	TEXTILE MILL PRODUCTS	972.8	990.0	1,003.5	979.5	1,000.4	847.3	862.9	875.9	851.5	871.5
221	Weaving mills, cotton	170.5	169.7	162.4	159.9	161.6	154.0	153.2	145.6	143.2	145.1
222	Weaving mills, synthetics	120.8	120.4	118.7	116.3	118.5	108.3	107.8	106.3	103.9	105.9
223	Weaving and finishing mills, wool	21.9	22.6	23.2	22.0	22.8	18.4	19.0	19.4	18.2	19.0
224	Narrow fabric mills	24.3	26.4	28.0	26.8	27.6	21.1	22.9	24.6	23.5	24.2
225	Knitting mills	268.5	276.9	291.7	284.4	292.4	231.1	239.1	253.5	245.8	253.7
2251	Women's hosiery, except socks	37.5	38.3	40.8	39.7	—	33.2	34.0	36.4	35.3	—
2252	Hosiery, nec	36.2	36.9	39.5	38.8	—	32.4	33.1	35.9	35.2	—
2253	Knit outerwear mills	80.1	85.6	89.1	86.4	—	68.3	73.4	76.8	74.3	—
2254	Knit underwear mills	41.4	41.6	46.1	45.5	—	35.6	35.9	39.4	38.7	—

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
NONDURABLE GOODS—Continued											
TEXTILE MILL PRODUCTS—Continued											
226	Textile finishing, except wool	81.1	82.0	82.7	80.3	81.6	68.6	69.6	70.2	68.0	69.0
227	Floor covering mills	63.1	64.6	66.4	65.5	—	49.9	51.2	53.2	51.8	—
228	Yarn and thread mills	156.8	159.4	162.6	158.1	159.7	143.3	145.5	148.5	144.0	145.4
229	Miscellaneous textile goods	65.8	68.0	67.8	66.2	68.1	52.6	54.6	54.6	53.1	54.9
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,248.9	1,295.2	1,314.6	1,240.6	1,289.3	1,065.0	1,109.3	1,131.9	1,060.7	1,107.0
231	Men's and boys' suits and coats	84.1	88.1	87.9	84.7	88.4	72.3	76.4	77.4	74.3	78.2
232	Men's and boys' furnishings	371.1	389.5	386.7	364.2	379.1	316.7	334.4	334.3	313.2	326.8
2321	Men's and boys' shirts and nightwear	110.2	115.9	112.7	106.1	—	94.8	100.2	98.1	92.0	—
2327	Men's and boys' separate trousers	84.2	87.4	85.6	81.8	—	73.8	76.9	75.1	71.2	—
2328	Men's and boys' work clothing	93.9	100.2	97.6	89.5	—	76.5	82.8	82.2	74.7	—
233	Women's and misses' outerwear	363.2	374.9	376.0	352.0	367.4	315.6	326.4	327.6	304.4	319.2
2331	Women's and misses' blouses and waists	45.8	48.0	49.6	46.5	—	40.0	41.8	43.5	40.4	—
2335	Women's and misses' dresses	158.5	162.2	160.7	148.0	—	140.0	144.1	142.8	130.6	—
2337	Women's and misses' suits and coats	53.5	56.3	52.7	50.9	—	44.7	47.3	44.4	42.2	—
2339	Women's and misses' outerwear, nec	105.4	108.4	113.0	106.6	—	90.9	93.2	96.9	91.2	—
234	Women's and children's undergarments	98.3	102.0	101.4	96.2	99.1	82.8	86.5	86.4	81.4	83.3
2341	Women's and children's underwear	74.8	78.2	78.7	74.2	—	64.1	67.5	68.1	63.8	—
2342	Corsets and allied garments	23.5	23.8	22.7	22.0	—	18.7	19.0	18.3	17.6	—
235	Hats, caps, and millinery	15.8	16.0	17.1	16.2	—	13.9	14.2	15.3	14.4	—
236	Children's outerwear	76.2	74.7	81.1	78.0	78.6	65.1	63.6	69.3	66.3	67.4
2361	Children's dresses and blouses	30.4	28.5	29.7	29.0	—	27.4	25.6	26.9	26.3	—
237,8	Fur goods and miscellaneous apparel	65.1	68.4	72.5	67.7	—	54.8	58.5	61.9	56.8	—
239	Miscellaneous fabricated textile products	175.1	181.6	191.9	181.6	190.2	143.8	149.3	159.7	149.9	157.9
2391,2	Housefurnishings	75.0	78.1	81.6	77.3	—	62.4	65.5	69.2	65.3	—
26	PAPER AND ALLIED PRODUCTS	703.8	711.0	730.0	724.0	722.4	527.9	533.8	551.6	546.1	543.7
261,2,6	Paper and pulp mills	206.1	207.6	206.4	206.3	201.3	158.3	159.6	157.8	157.1	152.2
263	Paperboard mills	72.2	72.4	71.4	71.9	70.8	56.7	57.0	56.7	56.5	55.4
264	Miscellaneous converted paper products	208.0	211.0	222.2	219.7	222.2	144.5	147.2	158.2	157.4	159.1
2643	Bags, except textile bags	44.3	45.5	48.3	47.7	—	34.8	35.9	38.1	37.6	—
265	Paperboard containers and boxes	217.5	220.0	230.3	226.1	228.1	168.4	170.0	178.9	175.1	177.0
2651,2	Folding and setup paperboard boxes	58.7	59.9	61.6	60.2	—	46.9	48.1	49.6	48.1	—
2653	Corrugated and solid fiber boxes	105.8	106.9	112.5	111.1	—	77.8	78.5	83.5	82.3	—
2654	Sanitary food containers	35.1	35.3	37.0	36.3	—	29.4	29.2	30.8	30.1	—
27	PRINTING AND PUBLISHING	1,109.2	1,112.0	1,150.1	1,145.2	1,152.5	636.1	637.2	654.5	650.4	655.3
271	Newspapers	394.3	394.4	406.0	405.7	406.5	164.3	163.3	162.1	161.1	160.7
272	Periodicals	72.5	72.5	75.5	75.5	—	19.9	19.7	20.5	20.1	—
273	Books	89.4	88.6	91.3	91.1	—	47.1	46.2	48.3	48.2	—
275	Commercial printing	363.9	366.6	379.3	375.0	377.2	271.5	274.4	283.2	280.2	282.4
2751	Commercial printing, except lithographic	204.6	206.3	213.0	209.7	—	154.4	156.8	160.5	158.5	—
2752	Commercial printing, lithographic	149.2	150.2	155.6	154.9	—	109.1	109.5	114.0	113.4	—
278	Blankbooks and bookbinding	52.5	52.8	54.4	55.1	55.9	42.8	43.3	44.9	45.2	46.3
274,6,7,9	Other publishing and printing ind	136.8	137.1	143.6	142.8	(*)	90.5	90.3	95.5	95.6	(*)
28	CHEMICALS AND ALLIED PRODUCTS	1,069.4	1,070.6	1,085.1	1,084.4	1,086.7	612.5	615.2	628.9	626.0	626.0
281	Industrial chemicals	350.6	351.3	352.8	355.0	356.7	189.2	190.9	192.6	192.5	192.6
2812	Alkalies and chlorine	21.1	21.5	21.3	21.0	—	15.4	15.7	15.1	14.8	—
2818	Industrial organic chemicals, nec	144.8	144.6	144.4	144.6	—	67.9	68.5	70.3	69.7	—
2819	Industrial inorganic chemicals, nec	116.8	116.9	118.2	120.8	—	63.5	63.6	64.8	66.2	—
282	Plastics materials and synthetics	207.3	206.0	204.0	204.0	204.2	139.1	139.3	139.5	139.7	139.4
2821	Plastics materials and resins	90.7	91.0	90.5	90.3	—	56.7	56.9	57.0	56.9	—
2823,4	Synthetic fibers	102.8	101.2	99.6	99.9	—	72.0	72.0	72.1	72.4	—
283	Drugs	176.0	176.8	181.0	180.8	180.7	87.8	87.3	88.6	87.8	87.4
2834	Pharmaceutical preparations	140.0	141.2	144.6	144.4	—	67.3	67.3	67.9	67.3	—
284	Soap, cleaners, and toilet goods	125.3	126.9	130.7	130.8	133.4	74.6	76.7	80.5	81.1	84.1
2841	Soap and other detergents	40.7	41.1	41.2	40.9	—	26.1	26.8	27.1	26.9	—
2844	Toilet preparations	50.3	51.2	53.8	54.4	—	30.2	31.4	33.7	34.6	—
285	Paints and allied products	72.4	72.3	73.7	73.8	73.6	39.0	38.9	39.3	39.2	38.8
287	Agricultural chemicals	56.6	55.9	59.2	56.9	55.7	34.4	33.9	37.5	35.3	34.5
2871,2	Fertilizers, complete and mixing only	33.7	33.3	35.3	33.1	—	22.3	21.9	23.8	21.8	—
286,9	Other chemical products	81.2	81.4	83.7	83.1	82.4	48.4	48.2	50.9	50.4	49.2
2892	Explosives	14.1	14.1	14.2	14.2	—	9.6	9.5	10.0	10.1	—
29	PETROLEUM AND COAL PRODUCTS	215.8	215.0	219.2	220.0	220.4	142.9	142.1	143.6	144.4	145.1
291	Petroleum refining	164.4	163.4	164.8	165.1	164.6	104.6	103.6	103.2	103.8	103.5
295,9	Other petroleum and coal products	51.4	51.6	54.4	54.9	55.8	38.3	38.5	40.4	40.6	41.6

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
NONDURABLE GOODS—Continued											
30	RUBBER AND PLASTICS PRODUCTS, NEC...	675.2	678.3	714.4	702.2	705.2	528.6	529.6	562.4	548.6	551.4
301	Tires and inner tubes	123.8	123.2	119.7	117.5	118.2	91.9	91.1	87.7	85.2	85.8
302,3,6	Other rubber products	171.5	172.8	175.0	171.2	172.7	134.5	134.8	138.5	134.2	135.2
302	Rubber footwear	19.9	19.7	19.5	17.9	—	17.2	16.6	17.1	15.6	—
307	Miscellaneous plastics products	379.9	382.3	419.7	413.5	(*)	302.2	303.7	336.2	329.2	(*)
31	LEATHER AND LEATHER PRODUCTS	251.7	265.6	272.0	249.3	262.8	215.3	227.8	232.9	212.1	224.3
311	Leather tanning and finishing	22.2	23.2	23.9	22.3	23.1	19.0	19.9	20.6	19.0	19.7
314	Footwear, except rubber	155.5	162.9	170.0	155.7	166.6	136.3	142.5	148.7	136.0	145.7
312,3,5-7,9	Other leather products	74.0	79.5	78.1	71.3	73.1	60.0	65.4	63.6	57.1	58.9
316	Luggage	17.8	18.4	18.2	16.7	—	13.7	14.3	14.1	12.6	—
317	Handbags and personal leather goods	33.9	36.5	34.5	31.7	—	27.8	30.4	28.6	25.9	—
TRANSPORTATION AND PUBLIC UTILITIES											
		4,604	4,604	4,771	4,729	4,754	3,916	3,913	4,011	3,965	3,987
40	RAILROAD TRANSPORTATION	547.2	545.5	542.4	523.1	—	—	—	—	—	—
4011	Class I railroads ²	509.2	507.5	498.4	479.8	—	—	—	—	—	—
LOCAL AND INTERURBAN PASSENGER TRANSIT											
41		226.9	223.9	259.0	225.7	—	—	—	—	—	—
411	Local and suburban transportation	66.9	66.6	67.8	68.1	—	61.7	61.5	61.8	62.1	—
412	Taxicabs	70.2	69.3	67.2	66.7	—	—	—	—	—	—
413	Inter-city highway transportation	41.2	41.1	39.1	39.7	—	37.7	37.6	35.9	36.5	—
42	TRUCKING AND WAREHOUSING	1,138.5	1,145.9	1,190.8	1,184.1	—	1,008.2	1,015.3	1,054.3	1,048.4	—
421,3	Trucking and trucking terminals	1,048.0	1,053.9	1,093.9	1,087.6	—	931.1	936.5	970.5	964.7	—
422	Public warehousing	90.5	92.0	96.9	96.5	—	77.1	78.8	83.8	83.7	—
45	TRANSPORTATION BY AIR	384.5	384.8	392.3	396.4	—	—	—	—	—	—
451,2	Air transportation	347.9	347.8	353.5	357.8	—	—	—	—	—	—
46	PIPELINE TRANSPORTATION	17.1	17.1	16.8	16.9	—	12.4	12.5	12.3	12.4	—
44,47	OTHER TRANSPORTATION AND SERVICES	361.4	359.4	382.9	380.0	—	—	—	—	—	—
44	WATER TRANSPORTATION	200.6	198.5	213.0	210.3	—	—	—	—	—	—
47	TRANSPORTATION SERVICES	160.8	160.9	169.9	169.7	—	—	—	—	—	—
48	COMMUNICATION	1,172.0	1,172.0	1,209.3	1,220.9	—	896.8	895.3	913.7	923.7	—
481	Telephone communication	955.7	954.6	983.1	992.4	—	722.7	720.6	732.1	739.4	—
482	Telegraph communication ³	18.1	18.3	(*)	(*)	—	14.7	14.7	(*)	(*)	—
483	Radio and television broadcasting	162.0	162.7	168.8	168.4	—	127.6	128.2	132.2	132.4	—
49	ELECTRIC, GAS, AND SANITARY SERVICES	756.4	755.2	777.9	781.6	—	625.3	624.1	636.2	639.1	—
491	Electric companies and systems	324.0	324.4	336.7	336.7	—	265.4	266.0	273.2	273.1	—
492	Gas companies and systems	160.7	160.3	163.8	164.9	—	132.7	132.2	134.5	135.6	—
493	Combination companies and systems	197.8	197.3	200.3	201.7	—	163.7	162.9	163.1	163.8	—
494-7	Water, steam, and sanitary systems	73.9	73.2	77.1	78.3	—	63.5	63.0	65.4	66.6	—
WHOLESALE AND RETAIL TRADE											
50	WHOLESALE TRADE	18,306	18,352	19,145	19,109	19,179	16,140	16,174	16,840	16,803	16,862
501	Motor vehicles and automotive equipment	4,420	4,429	4,604	4,602	4,621	3,652	3,658	3,789	3,787	3,802
502	Drugs, chemicals, and allied products	399.3	398.2	416.8	417.5	—	327.5	326.0	341.8	342.0	—
503	Dry goods and apparel	247.5	248.5	257.7	256.6	—	195.7	196.4	205.7	204.6	—
504	Groceries and related products	157.3	160.4	162.2	160.6	—	121.0	124.3	125.8	124.7	—
506	Electrical goods	630.1	629.9	648.8	645.3	—	547.1	547.7	564.2	560.8	—
507	Hardware, plumbing and heating equipment	330.4	329.8	352.2	351.3	—	275.7	274.0	290.3	288.9	—
508	Machinery, equipment, and supplies	198.1	197.3	204.5	205.2	—	164.5	164.0	169.3	170.1	—
509	Miscellaneous wholesalers	938.4	941.0	991.5	994.9	—	777.9	779.7	814.4	818.1	—
509	Miscellaneous wholesalers	1,410.2	1,415.3	1,454.1	1,456.8	—	1,155.5	1,159.7	1,184.0	1,186.3	—
52-59	RETAIL TRADE	13,886	13,923	14,541	14,507	14,558	12,488	12,516	13,051	13,016	13,060
53	Retail General Merchandise	2,462.9	2,459.3	2,587.7	2,577.1	—	2,263.7	2,260.2	2,390.0	2,381.8	—
531	Department stores	1,694.0	1,683.4	1,791.6	1,787.5	—	1,570.5	1,559.9	1,672.9	1,670.7	—
532	Mail order houses	104.4	107.2	109.5	109.1	—	99.1	102.0	104.1	103.8	—
533	Variety stores	295.0	295.4	302.8	301.2	—	274.5	274.8	282.5	279.7	—
54	FOOD STORES	2,102.1	2,098.3	2,202.1	2,185.7	—	1,939.6	1,937.2	2,033.6	2,019.9	—
541-3	Grocery, meat, and vegetable stores	1,909.6	1,904.6	2,002.2	1,988.1	—	1,762.0	1,758.4	1,850.9	1,839.6	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
-	WHOLESALE AND RETAIL TRADE—Continued										
56	APPAREL AND ACCESSORY STORES	790.9	797.2	810.4	801.9	-	684.1	689.4	698.9	691.5	-
561	Men's and boys' clothing and furnishings	139.9	139.2	141.5	141.8	-	120.5	120.0	121.1	121.2	-
562	Women's ready-to-wear stores	284.2	286.4	289.6	282.9	-	247.7	249.5	251.6	246.0	-
565	Family clothing stores	126.2	127.2	128.5	128.4	-	112.2	113.0	113.6	113.3	-
566	Shoe stores	165.4	169.7	176.2	174.5	-	137.3	140.7	146.1	144.6	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	549.7	550.3	567.9	566.1	-	462.3	462.9	475.0	473.1	-
571	Furniture and home furnishings	329.6	329.2	337.7	337.7	-	279.5	279.1	285.0	285.4	-
58	EATING AND DRINKING PLACES	3,949.5	3,985.6	4,210.2	4,223.7	-	3,676.9	3,705.9	3,884.7	3,891.9	-
52,55,59	OTHER RETAIL TRADE	4,030.9	4,031.9	4,162.9	4,152.9	-	3,461.0	3,460.4	3,569.0	3,558.1	-
52	Building materials and farm equipment	676.6	674.8	700.8	704.3	-	579.5	577.5	599.1	601.9	-
55	Automotive dealers and service stations	1,792.3	1,791.9	1,832.6	1,837.6	-	-	-	-	-	-
551,2	Motor vehicle dealers	811.6	814.6	838.5	838.9	-	675.0	678.4	696.7	697.3	-
553,9	Other automotive and accessory dealers	355.0	351.6	365.3	366.5	-	301.4	299.1	310.3	311.1	-
564	Gasoline service stations	625.7	625.7	628.8	632.2	-	-	-	-	-	-
59	Miscellaneous retail stores	1,562.0	1,565.2	1,629.5	1,611.0	-	-	-	-	-	-
591	Drug stores and proprietary stores	481.5	484.3	502.3	498.9	-	427.5	429.8	447.0	443.8	-
594	Book and stationery stores	79.1	81.2	79.7	77.2	-	66.6	68.4	67.2	64.5	-
596	Farm and garden supply stores	144.2	139.9	156.6	151.7	-	-	-	-	-	-
598	Fuel and ice dealers	95.0	95.1	94.9	94.5	-	79.6	80.0	80.3	79.7	-
-	FINANCE, INSURANCE, AND REAL ESTATE⁴	4,565	4,578	4,780	4,816	4,831	3,492	3,494	3,648	3,678	3,690
60	Banking	1,356.6	1,360.7	1,409.3	1,419.6	-	1,060.8	1,059.8	1,096.1	1,102.7	-
61	Credit agencies other than banks	504.0	506.6	543.7	547.7	-	390.0	392.0	419.5	424.4	-
612	Savings and loan associations	209.6	210.4	227.7	230.1	-	167.4	167.9	180.7	182.8	-
614	Personal credit institutions	205.2	206.1	219.1	219.6	-	-	-	-	-	-
62	Security, commodity brokers and services	181.2	181.9	183.6	185.2	-	148.0	148.2	149.2	149.5	-
63	Insurance carriers	1,155.1	1,157.5	1,191.8	1,198.9	-	785.9	785.5	812.2	818.6	-
631	Life insurance	520.8	520.7	521.6	523.6	-	296.1	295.5	297.9	299.3	-
632	Accident and health insurance	124.6	124.6	126.6	126.7	-	102.6	101.8	101.5	101.6	-
633	Fire, marine, and casualty insurance	440.9	443.3	469.8	474.3	-	330.3	331.3	352.3	356.7	-
64	Insurance agents, brokers, and service	367.3	370.1	390.6	393.0	-	-	-	-	-	-
65	Real estate	884.4	884.4	938.6	947.4	-	-	-	-	-	-
655	Subdividers and developers	128.6	126.9	131.2	132.3	-	-	-	-	-	-
656	Operative builders	68.1	67.2	75.1	76.4	-	-	-	-	-	-
66,67	Other finance, insurance, and real estate	116.3	117.1	122.8	123.7	-	-	-	-	-	-
-	SERVICES	15,541	15,587	16,239	16,331	16,358	13,884	13,906	14,451	14,530	14,551
70	Hotels and other lodging places	1,213.4	1,231.8	1,120.0	1,201.2	-	-	-	-	-	-
701	Hotels, tourist courts, and motels	921.6	936.5	933.7	947.9	-	851.9	867.5	860.0	873.4	-
72	Personal services	804.0	799.0	796.1	792.1	-	-	-	-	-	-
721	Laundries and dry cleaning plants	352.1	350.9	349.8	349.9	-	314.9	313.9	313.3	313.3	-
722	Photographic studios	38.2	39.2	38.8	38.5	-	34.0	35.1	34.9	34.6	-
73	Miscellaneous business services	2,265.3	2,285.4	2,414.4	2,432.3	-	-	-	-	-	-
731	Advertising	135.2	135.7	143.8	146.4	-	-	-	-	-	-
732	Credit reporting and collection	88.8	88.4	93.4	93.8	-	-	-	-	-	-
734	Services to buildings	427.3	429.6	458.9	459.1	-	-	-	-	-	-
76	Miscellaneous repair services	232.2	233.2	242.1	239.0	-	-	-	-	-	-
78	Motion pictures	219.8	229.4	201.2	210.2	-	-	-	-	-	-
781	Motion picture filming and distributing	70.2	75.4	60.5	66.3	-	58.9	63.5	50.2	55.3	-
782,3	Motion picture theaters and services	149.6	154.0	140.7	143.9	-	-	-	-	-	-
80	Medical and other health services	4,775.5	4,792.4	5,052.9	5,079.2	-	-	-	-	-	-
806	Hospitals	2,517.1	2,520.2	2,617.4	2,629.2	-	2,259.0	2,254.0	2,312.4	2,332.6	-
81	Legal services	424.1	420.7	456.8	460.5	-	-	-	-	-	-
82	Educational services	1,127.2	1,113.6	1,264.8	1,160.1	-	-	-	-	-	-
821	Elementary and secondary schools	380.7	374.5	441.4	387.2	-	-	-	-	-	-
822	Colleges and universities	566.6	555.9	609.5	558.6	-	-	-	-	-	-
89	Miscellaneous services	982.3	987.9	1,067.5	1,080.5	-	-	-	-	-	-
891	Engineering and architectural services	453.7	453.3	490.1	494.1	-	-	-	-	-	-
892	Nonprofit research agencies	167.5	168.7	180.6	184.2	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers ¹				
		July 1977	Aug. 1977	June 1978	July ^p 1978	Aug. ^p 1978	July 1977	Aug. 1977	June 1978	July ^p 1978	Aug. ^p 1978
—	GOVERNMENT	14,600	14,476	15,801	15,016	14,861	—	—	—	—	—
91	FEDERAL GOVERNMENT⁵	2,773	2,757	2,802	2,815	2,794	—	—	—	—	—
	Executive	2,720.5	2,704.7	2,747.5	2,760.3	—	—	—	—	—	
	Department of Defense	931.6	922.0	924.8	927.1	—	—	—	—	—	
	Postal Service	657.5	656.8	648.3	647.5	—	—	—	—	—	
	Other agencies	1,131.4	1,125.9	1,174.4	1,185.7	—	—	—	—	—	
	Legislative	40.5	39.9	41.4	41.4	—	—	—	—	—	
	Judicial	12.3	12.4	12.9	13.0	—	—	—	—	—	
92,93	STATE AND LOCAL GOVERNMENT	11,827	11,719	12,999	12,201	12,067	—	—	—	—	
92	State government	3,151.9	3,132.8	3,293.5	3,217.7	—	—	—	—	—	
	State education	1,187.1	1,150.7	1,255.6	1,163.6	—	—	—	—	—	
	Other State government	1,964.8	1,982.1	2,037.9	2,054.1	—	—	—	—	—	
93	Local government	8,675.2	8,585.7	9,705.9	8,983.3	—	—	—	—	—	
	Local education	4,363.7	4,262.5	5,362.3	4,491.7	—	—	—	—	—	
	Other local government	4,311.5	4,323.2	4,343.6	4,491.6	—	—	—	—	—	

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

² Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 or more.

³ Data for nonsupervisory workers exclude messengers.

⁴ Data for nonoffice sales agents excluded from nonsupervisory count for all series in this division.

⁵ Prepared by the U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

^p Not available.
^p preliminary.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	May 1977	June 1977	Apr. 1978	May 1978	June 1978
	TOTAL	32,958	33,163	34,525	34,817	35,024
	PRIVATE SECTOR	25,841	26,126	27,052	27,318	27,659
	MINING	63	66	72	74	77
10	METAL MINING	5,6	6,2	6,3	6,5	7,3
11,12	COAL MINING	5,3	5,5	6,0	6,4	6,5
13	OIL AND GAS EXTRACTION	45,0	46,8	51,8	52,6	54,6
131,2	Crude petroleum and natural gas fields	29,4	30,8	34,1	34,7	36,4
138	Oil and gas field services	15,6	16,0	17,7	17,9	18,2
	NONMETALLIC MINERALS, EXCEPT FUELS	7,5	7,6	7,9	8,0	8,5
142	Crushed and broken stone	2,2	2,3	2,5	2,6	2,7
144	Sand and gravel	2,4	2,4	2,5	2,5	2,8
	CONTRACT CONSTRUCTION	262	269	288	294	302
	GENERAL BUILDING CONTRACTORS	81,4	83,9	91,2	92,2	94,4
	HEAVY CONSTRUCTION CONTRACTORS	46,2	47,8	47,3	49,5	52,5
161	Highway and street construction	17,5	19,1	18,6	20,2	22,6
162	Heavy construction, nec	28,7	28,7	28,7	29,3	29,9
	SPECIAL TRADE CONTRACTORS	134,5	137,7	149,9	151,8	154,8
171	Plumbing, heating, air conditioning	38,3	39,1	41,8	41,9	42,9
172	Painting, paper hanging, decorating	9,5	10,0	11,5	11,8	12,0
173	Electrical work	22,5	22,8	25,2	25,2	25,7
174	Masonry, stonework, and plastering	11,1	11,3	12,7	13,1	13,4
176	Roofing and sheet metal work	9,5	9,7	11,6	11,5	11,9
	MANUFACTURING	5,778	5,868	6,021	6,074	6,180
19,24,25,32-39	DURABLE GOODS	2,595	2,629	2,772	2,802	2,851
20-23,26-31	NONDURABLE GOODS	3,183	3,239	3,249	3,272	3,329
	DURABLE GOODS					
	ORDNANCE AND ACCESSORIES	35,0	35,2	35,5	35,5	35,9
192	Ammunition, except for small arms	23,0	23,0	22,9	22,8	22,9
1925	Complete guided missiles	17,0	16,8	16,5	16,5	16,6
1929	Ammunition, except for small arms, nec	6,0	6,2	6,4	6,3	6,3
	LUMBER AND WOOD PRODUCTS	83,7	85,7	91,4	92,8	95,5
241	Logging camps, and logging contractors	3,6	3,6	4,0	4,3	4,6
242	Sawmills and planing mills	18,0	18,5	18,9	19,3	19,8
2421	Sawmills and planing mills, general	13,4	13,6	13,5	13,9	14,3
243	Millwork, plywood and related products	32,6	33,9	38,4	39,4	40,6
2431	Millwork	18,0	18,5	21,3	22,0	22,7
2432	Veneer and plywood	10,5	11,0	11,9	12,2	12,6
244	Wooden containers	4,8	4,9	4,3	4,4	4,5
2441,2	Wooden boxes, shooks, and crates	3,8	3,9	3,4	3,5	3,5
249	Miscellaneous wood products	24,7	24,8	25,8	25,4	26,0
	FURNITURE AND FIXTURES	143,6	144,2	154,2	155,4	154,7
251	Household furniture	114,8	114,9	123,1	124,1	123,0
2511	Wood household furniture	55,5	56,2	60,0	60,7	61,2
2512	Upholstered household furniture	36,4	36,9	40,0	40,3	40,3
2515	Mattresses and bedsprings	9,3	9,2	9,8	9,9	9,9
252	Office furniture	8,5	8,6	9,3	9,3	9,5
254	Partitions and fixtures	8,1	8,2	9,3	9,4	9,6
253,9	Other furniture and fixtures	12,2	12,5	12,5	12,6	12,6
	STONE, CLAY, AND GLASS PRODUCTS	116,9	119,3	120,2	121,9	123,1
321	Flat glass	1,4	1,5	1,6	1,7	1,8
322	Glass and glassware, pressed or blown	46,4	47,2	45,4	45,7	45,9
3221	Glass containers	28,2	28,8	26,7	27,2	27,2
3229	Pressed and blown glass nec	18,2	18,4	18,7	18,5	18,7
324	Cement, hydraulic	1,3	1,4	1,5	1,5	1,6
325	Structural clay products	6,2	6,3	6,5	6,5	6,6
3251	Brick and structural clay tile	1,3	1,4	1,4	1,4	1,5
326	Pottery and related products	13,8	14,2	13,5	13,8	13,9
327	Concrete, gypsum, and plaster products	13,0	13,6	14,6	15,0	15,3
328,9	Other stone and nonmetallic mineral products	24,0	24,3	26,3	26,5	26,5
3291	Abrasive products	5,4	5,5	5,8	5,9	5,9

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	May 1977	June 1977	Apr. 1978	May 1978	June 1978
DURABLE GOODS—Continued						
33	PRIMARY METAL INDUSTRIES	108.9	111.3	114.2	116.7	119.5
331	Blast furnaces and basic steel products	32.1	33.3	34.3	35.9	38.0
3312	Blast furnaces and steel mills	25.8	26.9	27.6	29.1	31.1
332	Iron and steel foundries	14.8	15.4	16.2	16.7	17.2
3321	Gray iron foundries	7.9	8.3	8.6	8.9	9.3
3322	Malleable iron foundries	1.3	1.4	1.4	1.4	1.4
3323	Steel foundries	5.6	5.7	6.2	6.4	6.5
333,4	Nonferrous metals	5.0	5.3	5.1	5.2	5.5
3334	Primary aluminum	1.4	1.5	1.6	1.7	1.8
335	Nonferrous rolling and drawing	37.8	37.7	37.9	37.9	37.8
3351	Copper rolling and drawing	3.7	3.8	3.8	3.9	4.1
3352	Aluminum rolling and drawing	7.8	7.9	9.1	9.2	9.3
3357	Nonferrous wire drawing and insulating	22.8	22.6	22.2	22.0	21.6
336	Nonferrous foundries	12.7	13.0	13.6	13.6	13.7
3361	Aluminum castings	6.1	6.3	6.7	6.6	6.8
3362,9	Other nonferrous castings	6.6	6.7	6.9	7.0	6.9
339	Miscellaneous primary metal products	6.5	6.6	7.1	7.4	7.3
3391	Iron and steel forgings	3.2	3.3	3.5	3.8	3.7
34	FABRICATED METAL PRODUCTS	291.6	295.3	309.6	312.6	317.6
341	Metal cans	10.4	10.9	10.7	10.9	11.2
342	Cutlery, hand tools, and hardware	59.2	60.1	63.0	63.3	64.5
3421,3,5	Cutlery and hand tools, including saws	22.0	22.3	23.6	23.9	24.0
3429	Hardware, nec	37.2	37.8	37.8	39.4	40.5
343	Plumbing and heating, except electric	15.2	15.3	17.6	17.7	17.7
3431,2	Sanitary ware and plumbers' brass goods	7.4	7.5	8.3	8.3	8.2
3433	Heating equipment, except electric	7.8	7.8	9.3	9.4	9.5
344	Fabricated structural metal products	63.5	64.0	67.4	68.5	70.2
3441	Fabricated structural steel	6.6	6.7	6.7	6.8	7.0
3442	Metal doors, sash, and trim	22.8	23.3	22.6	23.1	23.9
3443	Fabricated plate work (boiler shops)	13.4	13.4	14.4	14.5	14.6
3444	Sheet metal work	13.3	12.9	15.2	15.4	15.6
3446,9	Architectural and miscellaneous metal work	7.4	7.7	8.5	8.7	9.1
345	Screw machine products, bolts, etc.	22.5	22.8	24.2	24.3	24.7
3451	Screw machine products	12.2	12.3	13.3	13.4	13.5
3452	Bolts, nuts, rivets, and washers	10.3	10.5	10.9	10.9	11.2
346	Metal stampings	49.3	49.5	50.5	51.0	51.2
347	Metal services, n e c	21.1	21.1	23.2	23.1	23.8
348	Misc. fabricated wire products	15.4	15.6	16.5	16.8	16.8
349	Misc. fabricated metal products	35.0	36.0	36.5	37.0	37.5
3494,8	Valves, pipe, and pipe fittings	21.9	22.7	23.1	23.5	23.8
35	MACHINERY, EXCEPT ELECTRICAL	371.3	375.4	416.4	419.2	427.6
351	Engines and turbines	17.9	16.8	20.3	19.9	20.2
3511	Steam engines and turbines	5.4	5.5	5.8	5.8	5.8
3519	Internal combustion engines, nec	12.5	11.3	14.5	14.1	14.4
352	Farm machinery	18.9	19.0	19.9	19.3	19.3
353	Construction and related machinery	35.3	35.4	38.6	38.9	39.8
3531,2	Construction and mining machinery	15.7	15.5	16.0	15.9	16.2
3533	Oil field machinery	7.9	8.1	9.2	9.4	9.8
3535,6	Conveyors, hoists, cranes, monorails	5.7	5.8	6.2	6.2	6.3
3537	Industrial trucks and tractors	3.9	3.9	5.0	5.1	5.1
354	Metal working machinery	46.6	47.2	51.4	51.6	52.4
3541	Machine tools, metal cutting types	6.7	6.8	7.8	7.8	8.1
3544	Special dies, tools, jigs and fixtures	13.0	13.2	14.1	14.1	14.3
3545	Machine tool accessories	11.0	11.2	12.2	12.3	12.5
3542,8	Miscellaneous metal working machinery	15.9	16.0	17.3	17.4	17.5
355	Special industry machinery	24.5	24.8	26.6	26.7	26.9
3551	Food products machinery	5.0	5.2	5.5	5.5	5.6
3552	Textile machinery	5.6	5.6	5.9	5.9	5.8
3555	Printing trades machinery	3.9	4.0	4.9	5.0	5.1
356	General industrial machinery	53.5	54.0	57.7	58.1	58.8
3561	Pumps and compressors	13.4	13.6	13.9	14.0	14.2
3562	Ball and roller bearings	13.2	13.2	14.1	14.1	14.3
3564	Blowers and fans	6.9	7.1	8.1	8.3	8.2
3566	Power transmission equipment	7.4	7.5	8.2	8.2	8.3
357	Office and computing machines	95.2	99.3	116.0	117.9	121.4
3573	Electronic computing equipment	70.9	74.5	88.4	89.6	92.5
358	Service industry machines	33.1	32.9	35.9	36.2	37.6
3585	Refrigeration machinery	22.2	22.0	24.8	25.0	25.6
359	Miscellaneous machinery, except electrical	46.3	46.0	50.0	50.6	51.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	May 1977	June 1977	Apr. 1978	May 1978	June 1978
DURABLE GOODS — CONTINUED						
36	ELECTRICAL EQUIPMENT AND SUPPLIES	799.4	808.5	854.2	860.8	875.7
381	Electrical test and distributing equipment	76.3	77.4	83.9	85.3	86.2
3611	Electric measuring instruments	33.9	34.5	40.0	40.8	41.6
3612	Transformers	16.2	16.4	16.5	16.7	16.6
3613	Switchgear and switchboard apparatus	26.2	26.5	27.4	27.8	28.0
362	Electrical industrial apparatus	85.0	85.6	90.6	90.6	91.5
3621	Motors and generators	41.0	41.4	44.6	44.5	44.5
3622	Industrial controls	32.0	32.1	32.8	33.0	33.9
363	Household appliances	60.0	60.9	65.2	65.1	67.9
3632	Household refrigerators and freezers	9.5	9.9	12.6	12.8	12.9
3633	Household laundry equipment	6.2	6.2	6.2	6.2	6.4
3634	Electric housewares and fans	28.8	28.8	28.4	28.2	30.6
364	Electric lighting and wiring equipment	92.9	93.4	98.3	98.5	100.2
3641	Electric lamps	24.1	24.3	24.4	24.2	24.1
3642	Lighting fixtures	24.2	24.1	25.8	25.5	26.0
3643,4	Wiring devices	44.6	45.0	48.1	48.4	50.1
365	Radio and TV receiving equipment	70.5	71.7	69.3	69.7	71.6
366	Communication equipment	156.6	157.9	167.8	169.1	170.8
3661	Telephone and telegraph apparatus	66.4	67.4	70.8	70.9	71.0
3662	Radio and TV communication equipment	90.2	90.5	97.0	98.2	99.8
367	Electronic components and accessories	205.6	208.6	219.6	221.4	226.5
3671-3	Electron tubes	16.3	16.5	16.9	17.0	17.2
3674,9	Other electronic components	189.3	192.1	202.7	204.4	209.3
369	Miscellaneous electrical equipment and supplies	52.5	53.0	59.5	61.1	61.0
3694	Engine electrical equipment	28.0	27.9	31.5	32.3	32.1
37	TRANSPORTATION EQUIPMENT	239.1	244.5	259.7	266.9	270.9
371	Motor vehicles and equipment	106.4	109.7	117.0	119.0	120.8
3711	Motor vehicles	35.8	37.3	41.9	42.9	42.1
3712	Passenger car bodies	5.6	5.6	5.8	5.9	6.0
3713	Truck and bus bodies	4.7	4.6	5.0	5.1	5.4
3714	Motor vehicle parts and accessories	58.5	60.5	62.4	63.1	65.2
3715	Truck trailers	1.8	1.7	1.9	2.0	2.1
372	Aircraft and parts	77.4	78.9	83.7	87.5	90.1
3721	Aircraft	43.2	44.0	45.3	48.4	50.2
3722	Aircraft engines and engine parts	18.7	19.1	21.1	21.5	22.1
3723,9	Other aircraft parts and equipment	15.5	15.8	17.2	17.6	17.8
373	Ship and boat building and repairing	22.2	23.0	22.1	22.3	22.2
3731	Ship building and repairing	14.0	14.7	14.2	14.1	14.0
3732	Boat building and repairing	8.2	8.3	7.9	8.2	8.2
374	Railroad equipment	4.8	4.7	4.6	4.6	4.6
375,9	Other transportation equipment	28.3	28.2	32.3	33.5	33.2
38	INSTRUMENTS AND RELATED PRODUCTS	212.2	213.9	223.6	225.2	230.9
381	Engineering and scientific instruments	17.2	16.6	18.6	18.4	18.9
382	Mechanical measuring and control devices	48.8	49.4	52.3	52.0	53.2
3821	Mechanical measuring devices	28.3	28.7	30.2	30.2	31.4
3822	Automatic temperature controls	20.5	20.7	22.1	21.8	21.8
383,5	Optical and ophthalmic goods	31.4	32.1	33.6	34.1	35.0
385	Ophthalmic goods	23.2	23.7	24.5	24.9	25.5
384	Medical instruments and supplies	60.0	60.5	64.5	65.0	65.8
386	Photographic equipment and supplies	35.4	35.8	35.9	36.8	38.5
387	Watches, clocks, and watchcases	19.4	19.5	18.7	18.9	19.5
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	193.2	195.3	193.4	195.4	199.2
391	Jewelry, silverware, and plated ware	24.0	25.0	26.1	26.4	26.7
394	Toys and sporting goods	64.3	64.7	59.0	60.3	60.7
3941-3	Games, toys, dolls, and play vehicles	35.3	37.2	32.4	33.4	35.0
3949	Sporting and athletic goods, n e c	29.0	27.5	26.6	26.9	25.7
395	Pens, pencils, office and art supplies	19.4	19.1	19.0	19.1	19.4
396	Costume jewelry and notions	27.2	26.9	28.6	28.7	29.3
393,9	Other manufacturing industries	58.3	59.6	60.7	60.9	63.1
393	Musical instruments and parts	9.7	9.5	10.6	11.0	11.4
NONDURABLE GOODS						
20	FOOD AND KINDRED PRODUCTS	451.8	470.1	453.3	457.0	479.0
201	Meat products	108.4	111.7	110.8	113.2	116.7
2011	Meat packing plants	25.7	26.0	26.4	26.4	26.9
2013	Sausages and other prepared meats	19.1	19.4	19.2	19.7	19.9
2015	Poultry dressing plants	63.6	66.3	65.2	66.5	69.9
202	Dairy products	37.4	39.1	37.7	38.9	40.3
2024	Ice cream and frozen desserts	5.8	6.6	6.2	6.5	7.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	May 1977	June 1977	Apr. 1978	May 1978	June 1978
NONDURABLE GOODS — CONTINUED						
FOOD AND KINDRED PRODUCTS — Continued						
2026	Fluid milk	20.2	20.7	20.1	20.7	21.0
203	Canned, cured, and frozen foods	106.1	119.2	99.2	100.1	113.4
2031,8	Canned, cured, and frozen sea foods	23.6	24.6	23.2	23.9	27.6
2032,3	Canned food, except sea foods	35.3	42.7	34.3	34.8	39.1
2037	Frozen fruits and vegetables	31.2	32.3	27.0	26.7	29.7
204	Grain mill products	25.7	25.9	26.8	27.0	27.7
2041	Flour and other grain mill products	4.5	4.5	4.9	4.9	5.0
2042	Prepared feeds for animals and fowls	11.9	12.0	12.5	12.5	12.6
205	Bakery products	61.4	61.0	63.5	62.8	63.3
2051	Bread, cake, and related products	42.9	43.0	44.2	44.5	44.5
2052	Cookies and crackers	18.5	18.0	19.3	18.3	18.8
206	Sugar	3.1	3.3	3.4	3.2	3.3
207	Confectionery and related products	33.4	33.4	33.8	33.4	34.1
2071	Confectionery products	25.6	25.3	26.5	25.9	26.4
208	Beverages	34.7	35.2	36.2	36.3	37.3
2082	Malt liquors	5.3	5.4	5.4	5.3	5.5
2086	Bottled and canned soft drinks	15.4	15.6	16.7	17.0	17.4
209	Miscellaneous foods and kindred products	41.6	41.3	41.9	42.1	42.9
21	TOBACCO MANUFACTURES	22.5	23.2	22.4	22.1	22.3
211	Cigarettes	13.2	13.8	13.5	13.5	13.5
212	Cigars	6.5	6.4	6.3	6.2	6.3
22	TEXTILE MILL PRODUCTS	462.2	467.9	470.9	473.6	479.8
221	Weaving mills, cotton	73.1	73.4	70.5	69.3	69.0
222	Weaving mills, synthetics	48.7	49.1	47.4	47.2	48.1
223	Weaving and finishing mills, wool	9.2	9.2	8.8	8.9	8.9
224	Narrow fabric mills	15.2	15.0	16.3	16.3	16.5
225	Knitting mills	172.3	176.1	181.3	185.0	188.6
2251	Women's hosiery, except socks	28.8	28.9	30.1	31.0	31.4
2252	Hosiery, n e c	25.6	26.1	28.0	28.1	28.7
2253	Knit outerwear mills	59.1	61.4	62.4	63.3	65.1
2254	Knit underwear mills	29.3	29.8	31.9	33.0	33.5
226	Textile finishing, except wool	24.1	24.4	23.4	24.0	24.3
227	Floor covering mills	23.6	23.6	25.7	25.5	25.8
228	Yarn and thread mills	76.1	77.0	77.9	77.6	78.5
229	Miscellaneous textile goods	19.9	20.1	19.7	19.8	20.1
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,047.0	1,061.5	1,051.1	1,053.3	1,062.6
231	Men's and boys' suits and coats	68.3	69.0	67.4	69.0	69.2
232	Men's and boys' furnishings	323.5	327.8	321.7	322.8	326.3
2321	Men's and boys' shirts and nightwear	101.8	103.6	95.5	96.8	98.7
2327	Men's and boys' separate trousers	70.6	71.8	70.2	69.8	70.3
2328	Men's and boys' work clothing	80.4	81.4	82.5	81.8	82.1
233	Women's and misses' outerwear	323.0	326.7	322.2	319.6	323.1
2331	Women's and misses' blouses and waists	43.0	43.5	42.5	42.5	43.7
2335	Women's and misses' dresses	143.8	144.4	142.1	138.9	139.5
2337	Women's and misses' suits and coats	40.4	44.0	39.5	40.7	43.2
2339	Women's and misses' outerwear, n e c	95.8	94.8	98.1	97.5	96.7
234	Women's and children's undergarments	86.9	87.6	87.6	87.3	87.3
2341	Women's and children's underwear	67.4	68.0	68.5	68.3	68.9
2342	Corsets and allied garments	19.5	19.6	19.1	19.0	18.4
235	Hats, caps, and millinery	12.3	12.5	12.7	12.7	12.9
236	Children's outerwear	66.5	68.5	65.8	67.7	69.4
2361	Children's dresses and blouses	27.9	28.6	26.0	26.0	26.5
237,8	Fur goods and miscellaneous apparel	51.8	53.0	53.3	53.9	54.5
239	Miscellaneous fabricated textile products	114.7	116.4	120.4	120.3	119.9
2391,2	Housefurnishings	52.6	54.3	56.6	56.4	56.8
26	PAPER AND ALLIED PRODUCTS	148.9	152.8	158.1	161.1	164.2
261,2,6	Paper and pulp mills	23.9	24.6	24.6	25.2	26.3
263	Paperboard mills	5.6	5.7	5.8	5.9	6.3
264	Miscellaneous converted paper products	68.8	70.4	74.2	76.0	76.8
2643	Bags, except textile bags	14.7	14.9	15.9	15.9	16.1
265	Paperboard containers and boxes	50.6	52.1	53.5	54.0	54.8
2651,2	Folding and setup paperboard boxes	18.2	18.4	18.3	18.3	18.6
2653	Corrugated and solid fiber boxes	15.6	15.9	17.3	17.4	17.6
2654	Sanitary food containers	11.3	12.3	12.7	12.8	12.9

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	May 1977	June 1977	Apr. 1978	May 1978	June 1978
NONDURABLE GOODS — CONTINUED						
27	PRINTING AND PUBLISHING	398.1	401.5	420.4	422.6	425.4
271	Newspapers	128.3	130.7	135.2	136.6	138.6
272	Periodicals	37.1	37.5	41.2	41.1	41.6
273	Books	47.5	46.8	49.9	49.0	47.6
275	Commercial printing	108.5	108.6	113.5	114.3	114.8
2751	Commercial printing, ex. lithographic	61.6	61.7	64.9	65.5	66.4
2752	Commercial printing, lithographic	43.3	43.3	44.3	44.7	44.6
278	Blankbooks and bookbinding	26.5	26.7	27.6	27.8	28.2
274,6,7,9	Other publishing and printing ind.	50.2	51.2	53.0	53.8	54.6
28	CHEMICALS AND ALLIED PRODUCTS	236.1	239.8	244.9	248.0	252.5
281	Industrial chemicals	47.5	48.8	50.4	50.8	51.7
2812	Alkalies and chlorines	1.9	2.0	2.0	2.1	2.2
2818	Industrial organic chemicals, n e c	21.6	22.0	22.6	22.0	23.4
2819	Industrial inorganic chemicals, n e c	16.3	16.7	17.4	17.4	17.5
282	Plastics materials and synthetics	38.9	39.5	38.5	39.3	40.1
2821	Plastics materials and resins	10.1	10.6	10.8	11.1	11.6
2823,4	Synthetic fibers	27.7	27.7	26.4	26.9	27.2
283	Drugs	70.9	71.4	70.7	71.6	72.8
2834	Pharmaceutical preparations	59.3	59.8	59.3	60.0	61.0
284	Soap, cleaners, and toilet goods	45.5	46.3	50.4	50.9	51.5
2841	Soap and other detergents	8.2	8.4	8.7	8.9	8.9
2844	Toilet preparations	27.4	27.9	30.8	31.2	31.4
285	Paints and allied products	11.4	11.8	12.4	12.6	13.1
287	Agricultural chemicals	7.2	6.9	7.4	7.4	7.3
2871,2	Fertilizers, complete and mixing only	3.4	3.3	3.5	3.5	3.4
286,9	Other chemical products	14.7	15.1	15.1	15.4	16.0
2892	Explosives	2.3	2.3	2.3	2.4	2.5
29	PETROLEUM AND COAL PRODUCTS	23.6	24.4	25.5	25.9	26.3
291	Petroleum refining	18.1	18.8	19.6	19.9	20.2
295,9	Other petroleum and coal products	5.5	5.6	5.9	6.0	6.1
30	RUBBER AND PLASTICS PRODUCTS, NEC	230.6	233.8	244.0	247.0	252.2
301	Tires and inner tubes	11.3	11.5	10.9	11.0	11.2
302,3,6	Other rubber products	63.4	63.8	62.9	62.6	63.6
302	Rubber footwear	13.3	12.9	12.2	11.5	11.7
307	Miscellaneous plastics products	155.9	158.5	170.2	173.4	177.4
31	LEATHER AND LEATHER PRODUCTS	162.5	163.9	158.7	161.1	164.6
311	Leather tanning and finishing	3.4	3.4	3.3	3.3	3.5
314	Footwear, except rubber	110.3	110.3	108.3	110.5	112.6
312,3,5-7,9	Other leather products	48.8	50.2	47.1	47.3	48.5
316	Luggage	10.5	10.6	9.5	9.7	9.9
317	Handbags and personal leather goods	24.4	25.5	24.0	23.7	24.6
-	TRANSPORTATION AND PUBLIC UTILITIES	1,035	1,047	1,069	1,075	1,089
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	55.4	52.1	56.3	55.7	54.0
411	Local and suburban transportation	7.8	7.8	8.9	8.6	9.0
412	Taxicabs	6.1	5.9	6.9	6.8	6.6
413	Intercity highway transportation	4.3	4.5	4.2	4.3	4.5
42	TRUCKING AND WAREHOUSING	118.0	120.1	124.5	126.3	129.3
421,3	Trucking and trucking terminals	102.2	104.4	107.7	109.5	112.3
422	Public warehousing	15.8	15.7	16.8	16.8	17.0
45	TRANSPORTATION BY AIR	111.1	113.3	119.7	119.5	121.5
451,2	Air transportation	105.7	107.7	113.7	113.4	115.2
46	PIPE LINE TRANSPORTATION	1.5	1.6	1.5	1.5	1.5
44	WATER TRANSPORTATION	18.8	19.1	19.1	19.2	19.4
47	TRANSPORTATION SERVICES	46.7	48.2	55.9	56.4	57.6
48	COMMUNICATION	523.2	526.6	543.4	546.9	552.1
481	Telephone communication	462.9	465.9	480.4	483.3	488.4
483	Radio and television broadcasting	47.0	47.6	50.1	50.4	50.8
49	ELECTRIC, GAS, AND SANITARY SERVICES	123.7	126.5	130.2	130.9	134.0
491	Electric companies and systems	51.7	52.8	54.7	55.1	56.1
492	Gas companies and systems	30.6	31.4	31.5	31.5	32.5

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	May 1977	June 1977	Apr. 1978	May 1978	June 1978
NONDURABLE GOODS — CONTINUED						
ELECTRIC, GAS, AND SANITARY SERVICES — Cont'd						
493	Combination companies and systems	31.4	32.1	32.6	32.9	33.7
494-7	Water, steam, and sanitary systems	10.0	10.2	11.4	11.4	11.7
—	WHOLESALE AND RETAIL TRADE	7,592	7,654	7,862	7,976	8,070
50	WHOLESALE TRADE	1,065	1,079	1,130	1,139	1,153
501	Motor vehicles and automotive equipment	84.6	86.1	88.5	89.6	90.5
502	Drugs, chemicals, and allied products	84.0	84.9	88.3	89.3	90.4
503	Dry goods and apparel	77.4	78.2	80.2	80.3	80.9
504	Groceries and related products	137.1	144.4	139.1	141.3	148.0
506	Electrical goods	89.1	90.0	95.7	96.4	98.0
507	Hardware; plumbing and heating equipment	50.2	50.8	53.6	54.3	54.6
508	Machinery, equipment, and supplies	196.6	197.9	216.2	218.1	221.4
509	Miscellaneous wholesalers	319.8	321.4	339.6	341.2	342.0
52-59	RETAIL TRADE	6,527	6,575	6,732	6,837	6,917
53	Retail general merchandise	1,647.9	1,654.2	1,678.5	1,692.9	1,707.9
531	Department stores	1,130.4	1,133.9	1,158.3	1,168.0	1,177.3
532	Mail order houses	64.4	63.4	64.2	63.0	63.2
533	Variety stores	225.1	225.4	225.3	229.3	230.3
54	Food stores	842.3	848.7	876.3	885.8	891.5
541-3	Grocery, meat, and vegetable stores	724.6	730.8	763.2	770.3	774.6
56	Apparel and accessory stores	537.4	534.1	539.9	542.8	542.0
561	Men's and boys' clothing and furnishings	59.9	60.8	60.3	60.8	61.2
562	Women's ready-to-wear stores	256.6	253.2	255.8	256.9	253.9
565	Family clothing stores	92.9	93.1	93.4	95.3	96.4
566	Shoe stores	66.8	65.6	70.4	69.7	70.7
57	Furniture and home furnishings stores	166.2	166.4	173.6	174.8	176.2
571	Furniture and home furnishings	107.9	108.9	112.6	113.5	114.2
58	Eating and drinking places	2,203.5	2,237.0	2,283.3	2,342.1	2,400.1
52,55,59	Other retail trade	1,129.9	1,134.6	1,180.1	1,199.0	1,199.5
52	Building materials and farm equipment	126.7	128.3	133.4	136.3	139.6
55	Automotive dealers and service stations	262.7	266.8	275.0	276.0	281.4
551.2	Motor vehicle dealers	103.6	104.0	109.4	110.1	111.6
553,9	Other automotive and accessory dealers	55.1	56.4	59.1	58.4	60.9
59	Miscellaneous retail stores	740.5	739.5	771.7	786.7	778.5
591	Drug stores and proprietary stores	289.3	293.1	303.4	303.6	309.3
594	Book and stationery stores	40.0	39.4	40.4	40.4	41.0
596	Farm and garden supply stores	33.5	32.1	38.4	37.2	35.1
598	Fuel and ice dealers	19.9	19.4	21.4	20.7	20.4
—	FINANCE, INSURANCE, AND REAL ESTATE	2,492	2,528	2,646	2,667	2,708
60	Banking	906.9	921.8	957.7	964.6	980.2
61	Credit agencies other than banks	307.4	311.7	340.6	344.5	349.7
612	Savings and loan associations	145.0	147.7	161.3	162.6	165.1
614	Personal credit institutions	108.8	109.6	120.3	122.6	124.0
62	Security, commodity brokers and services	64.7	64.9	67.5	68.2	69.4
63	Insurance carriers	641.2	648.5	673.2	676.9	685.6
631	Life insurance	246.4	248.2	249.9	251.2	253.6
632	Accident and health insurance	89.1	89.7	90.7	90.7	91.4
633	Fire, marine, and casualty insurance	261.5	265.5	284.1	285.9	290.3
64	Insurance agents, brokers, and service	208.7	211.0	224.7	226.7	228.6
65	Real estate	304.5	311.0	321.3	325.6	333.0
655	Subdividers and developers	31.3	31.8	32.2	32.4	33.1
656	Operative builders	12.9	13.4	14.7	14.7	15.3
66,67	Other finance, insurance, and real estate	58.9	59.5	60.5	60.8	61.7
—	SERVICES	8,619	8,694	9,094	9,158	9,233
Hotels and other lodging places:						
701	Hotels, tourist courts, and motels	466.0	489.1	473.5	487.2	511.5
72	Personal services	508.9	510.9	505.8	507.4	506.0
721	Laundries and dry cleaning plants	216.5	218.8	213.5	214.8	217.8
722	Photographic studios	23.0	22.3	22.3	22.3	21.8
73	Miscellaneous business services	836.6	849.9	905.9	914.4	930.8
731	Advertising	60.6	61.5	67.3	67.9	68.6
732	Credit reporting and collection	61.0	61.4	64.8	65.2	65.8
734	Services to buildings	165.6	165.4	168.8	170.9	175.6
76	Miscellaneous repair services	40.0	39.9	44.0	44.3	45.2
78	Motion pictures	76.3	78.7	72.0	72.1	75.2
781	Motion picture filming and distributing	23.4	24.9	21.4	21.2	21.5
782,3	Motion picture theaters and services	52.9	53.8	50.6	50.9	53.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

SIC Code	Industry	May 1977	June 1977	Apr. 1978	May 1978	June 1978
	SERVICES -- Continued					
80	Medical and other health services	3,788.4	3,847.8	4,028.9	4,052.5	4,111.0
808	Hospitals	1,983.1	2,006.0	2,076.9	2,082.2	2,106.1
81	Legal services	256.7	266.4	280.4	282.4	293.5
82	Educational services	702.1	640.1	778.5	762.8	675.4
821	Elementary and secondary schools	278.9	266.0	300.5	301.5	279.2
822	Colleges and universities	325.1	277.0	359.7	343.3	279.6
88	Miscellaneous services	274.6	280.2	327.5	323.9	330.8
891	Engineering and architectural services	80.4	83.5	92.7	93.8	97.1
892	Nonprofit research agencies	58.8	59.8	68.1	68.8	70.3
-	GOVERNMENT	7,117	7,037	7,473	7,499	7,365
91	FEDERAL GOVERNMENT	849	880	868	878	888
92,93	STATE AND LOCAL GOVERNMENT	6,268	6,157	6,605	6,621	6,477
92	State government	1,515.5	1,464.5	1,549.2	1,525.3	1,455.1
	State education	640.1	583.8	648.9	627.8	548.6
	Other State government	875.4	880.7	900.3	897.5	906.5
93	Local government	4,752.4	4,692.3	5,055.5	5,095.9	5,021.5
	Local education	3,327.1	3,222.0	3,493.9	3,521.3	3,385.9
	Other local government	1,425.3	1,470.3	1,561.6	1,574.6	1,635.6

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	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^P	Aug. ^P
TOTAL	82,474	82,763	82,902	83,245	83,429	83,719	84,046	84,555 ^c	85,223	85,466	85,820	86,003	86,116
GOODS-PRODUCING	24,305	24,360	24,436	24,528	24,526	24,593	24,733	24,945	25,351	25,429	25,554	25,614	25,548
MINING	818	856	859	863	711	705	711	728	898	903	912	919	922
CONTRACT CONSTRUCTION	3,893	3,892	3,911	3,950	3,947	3,916	3,947	4,053	4,237	4,268	4,355	4,379	4,356
MANUFACTURING	19,594	19,612	19,666	19,715	19,868	19,972	20,075	20,164	20,216	20,258	20,287	20,316	20,270
DURABLE GOODS	11,527	11,545	11,604	11,625	11,748	11,828	11,909	11,965	11,992	12,029	12,049	12,110	12,115
Ordnance and accessories	156	155	150	152	155	156	157	157	157	158	159	160	161
Lumber and wood products	642	648	653	662	666	667	664	670	669	672	670	670	671
Furniture and fixtures	508	510	517	521	530	532	537	540	538	537	535	538	536
Stone, clay, and glass products	656	658	657	667	671	675	676	680	687	689	690	689	683
Primary metal industries	1,202	1,211	1,208	1,206	1,204	1,212	1,217	1,215	1,216	1,224	1,223	1,222	1,225
Fabricated metal products	1,460	1,456	1,473	1,479	1,492	1,499	1,515	1,515	1,520	1,524	1,524	1,529	1,519
Machinery, except electrical	2,210	2,217	2,243	2,237	2,257	2,265	2,279	2,295	2,311	2,319	2,335	2,362	2,374
Electrical equipment and supplies	1,951	1,944	1,961	1,974	1,987	1,998	2,017	2,035	2,041	2,045	2,056	2,083	2,089
Transportation equipment	1,802	1,809	1,801	1,782	1,830	1,862	1,879	1,885	1,876	1,882	1,875	1,883	1,887
Instruments and related products	526	528	530	532	536	539	541	545	548	551	555	556	553
Miscellaneous manufacturing	414	409	411	413	420	423	427	428	429	428	427	418	417
NONDURABLE GOODS	8,067	8,067	8,062	8,090	8,120	8,144	8,166	8,199	8,224	8,229	8,238	8,206	8,155
Food and kindred products	1,710	1,711	1,696	1,703	1,714	1,728	1,729	1,739	1,740	1,731	1,733	1,723	1,703
Tobacco manufactures	68	67	67	66	69	69	69	70	68	69	70	69	62
Textile mill products	982	985	987	993	990	991	995	995	991	995	994	998	992
Apparel and other textile products	1,286	1,285	1,285	1,291	1,291	1,289	1,283	1,292	1,303	1,299	1,299	1,283	1,280
Paper and allied products	704	702	702	700	705	707	710	714	718	722	723	725	715
Printing and publishing	1,114	1,116	1,117	1,120	1,123	1,125	1,129	1,133	1,137	1,141	1,150	1,150	1,155
Chemicals and allied products	1,061	1,058	1,058	1,059	1,064	1,066	1,070	1,071	1,074	1,080	1,079	1,079	1,077
Petroleum and coal products	210	210	211	212	212	214	217	217	216	215	215	214	215
Rubber and plastics products, nec	671	671	673	681	689	693	701	705	713	712	710	710	698
Leather and leather products	261	262	266	265	263	262	263	263	264	265	265	255	258
SERVICE-PRODUCING	58,169	58,403	58,466	58,717	58,903	59,126	59,313	59,610	59,872	60,037	60,266	60,389	60,568
TRANSPORTATION AND PUBLIC UTILITIES	4,581	4,616	4,610	4,634	4,652	4,628	4,651	4,672	4,709	4,714	4,728	4,696	4,730
WHOLESALE AND RETAIL TRADE ..	18,377	18,431	18,414	18,512	18,610	18,744	18,744	18,849	18,891	18,967	19,064	19,126	19,205
WHOLESALE TRADE	4,398	4,410	4,415	4,438	4,460	4,482	4,510	4,540	4,555	4,568	4,581	4,575	4,589
RETAIL TRADE	13,979	14,021	13,999	14,074	14,150	14,262	14,234	14,309	14,336	14,399	14,483	14,551	14,616
FINANCE, INSURANCE, AND REAL ESTATE	4,524	4,545	4,572	4,597	4,611	4,630	4,647	4,670	4,683	4,712	4,737	4,754	4,774
SERVICES	15,448	15,482	15,533	15,608	15,663	15,693	15,791	15,875	15,962	15,970	16,031	16,153	16,212
Hotels and other lodging places	1,081	1,073	1,074	1,077	1,058	1,053	1,059	1,076	1,081	1,072	1,065	1,071	-
Personal services	803	801	799	800	799	801	801	802	799	795	789	791	-
Medical and other health services	4,778	4,801	4,827	4,850	4,877	4,898	4,925	4,942	4,966	4,984	5,028	5,049	-
Educational services	1,327	1,356	1,342	1,346	1,338	1,342	1,345	1,343	1,359	1,356	1,329	1,352	-
GOVERNMENT	15,239	15,329	15,337	15,366	15,367	15,431	15,480	15,544	15,627	15,674	15,706	15,660	15,647
FEDERAL	2,732	2,728	2,730	2,727	2,718	2,736	2,736	2,736	2,744	2,753	2,772	2,763	2,769
STATE AND LOCAL	12,507	12,601	12,607	12,639	12,649	12,695	12,744	12,808	12,883	12,921	12,934	12,897	12,878

p = preliminary.

c=corrected.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT**

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

[In thousands]

Industry division and group	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
TOTAL	33,003	33,162	33,261	33,360	33,414	33,552	33,707	33,931	34,034	34,248	34,462	34,663	34,855
GOODS-PRODUCING	6,176	6,187	6,165	6,182	6,203	6,239	6,289	6,332	6,365	6,411	6,457	6,488	6,529
MINING	65	66	66	68	68	69	66	66	68	69	73	75	76
CONTRACT CONSTRUCTION	267	270	275	274	276	277	277	281	287	289	291	295	300
MANUFACTURING	5,844	5,851	5,824	5,840	5,859	5,893	5,946	5,985	6,010	6,053	6,093	6,118	6,153
DURABLE GOODS	2,618	2,629	2,622	2,635	2,652	2,666	2,709	2,733	2,751	2,774	2,795	2,811	2,839
Ordnance and accessories ¹	35	35	35	35	34	34	35	35	35	35	36	36	36
Lumber and wood products	84	84	85	85	86	88	89	91	90	91	92	92	93
Furniture and fixtures	145	146	145	146	148	148	152	154	155	156	155	156	155
Stone, clay, and glass products	118	118	117	118	118	120	121	122	123	122	122	122	122
Primary metal industries ¹	111	111	109	111	111	111	112	112	112	113	114	117	120
Fabricated metal products	293	293	294	296	296	299	303	307	310	310	312	313	315
Machinery, except electrical	375	381	385	385	391	393	400	404	406	412	418	420	427
Electrical equipment and supplies	807	815	812	808	818	823	837	842	853	859	863	867	874
Transportation equipment ¹	245	242	238	250	248	247	250	252	249	256	260	267	271
Instruments and related products	213	214	213	214	214	215	217	220	222	223	225	225	230
Miscellaneous manufacturing	192	190	189	187	188	188	193	194	196	197	198	196	196
NONDURABLE GOODS	3,226	3,222	3,202	3,205	3,207	3,227	3,237	3,252	3,259	3,279	3,298	3,307	3,314
Food and kindred products	482	479	471	472	467	472	476	484	485	487	488	486	491
Tobacco manufactures	27	27	25	25	25	25	27	26	26	27	26	26	26
Textile mill products	463	466	463	464	467	471	468	470	471	473	472	475	475
Apparel and other textile products	1,047	1,043	1,038	1,038	1,037	1,039	1,041	1,039	1,036	1,042	1,052	1,049	1,048
Paper and allied products	151	151	151	151	152	153	154	155	156	157	160	163	162
Printing and publishing	402	404	404	406	407	408	409	412	414	419	420	423	425
Chemicals and allied products	238	238	238	239	238	240	241	243	244	247	248	249	250
Petroleum and coal products ¹	24	25	25	25	24	25	25	25	25	25	26	26	26
Rubber and plastics products, nec	233	234	229	227	230	234	239	241	243	244	247	250	251
Leather and leather products	159	155	158	158	160	160	157	157	159	158	159	160	160
SERVICE-PRODUCING	26,827	26,975	27,096	27,178	27,211	27,313	27,418	27,599	27,669	27,837	28,005	28,175	28,326
TRANSPORTATION AND PUBLIC UTILITIES	1,039	1,038	1,042	1,048	1,034	1,041	1,053	1,049	1,059	1,068	1,073	1,072	1,080
WHOLESALE AND RETAIL TRADE ..	7,667	7,689	7,719	7,734	7,760	7,778	7,823	7,908	7,885	7,929	7,957	8,022	8,084
WHOLESALE TRADE	1,079	1,080	1,084	1,088	1,083	1,094	1,098	1,108	1,121	1,135	1,143	1,151	1,153
RETAIL TRADE	6,588	6,609	6,635	6,646	6,677	6,684	6,725	6,800	6,764	6,794	6,814	6,871	6,931
FINANCE, INSURANCE, AND REAL ESTATE	2,515	2,532	2,543	2,557	2,568	2,582	2,596	2,614	2,625	2,640	2,654	2,675	2,695
SERVICES	8,625	8,698	8,744	8,763	8,788	8,827	8,856	8,903	8,971	9,019	9,085	9,112	9,160
GOVERNMENT	6,981	7,018	7,048	7,076	7,061	7,085	7,090	7,125	7,129	7,181	7,236	7,294	7,307
FEDERAL	867	870	870	872	857	856	840	854	852	855	867	891	875
STATE AND LOCAL	6,114	6,148	6,178	6,204	6,204	6,229	6,250	6,271	6,277	6,326	6,369	6,403	6,432

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.

r=revised.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOMENT**

**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	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^P	Aug. ^P
TOTAL	55,117	55,267	55,337	55,644	55,790	55,928	56,132	56,515	57,017	57,191	57,420	57,610	57,685
GOODS-PRODUCING	17,784	17,829	17,890	17,985	17,970	18,002	18,118	18,318	18,677	18,737	18,828	18,854	18,770
MINING	609	643	645	649	518	512	516	532	679	685	689	696	697
CONTRACT CONSTRUCTION	3,097	3,095	3,113	3,152	3,146	3,087	3,114	3,230	3,410	3,438	3,523	3,547	3,513
MANUFACTURING	14,078	14,091	14,132	14,184	14,306	14,403	14,488	14,556	14,588	14,614	14,616	14,611	14,560
DURABLE GOODS	8,252	8,266	8,313	8,337	8,438	8,512	8,575	8,614	8,632	8,653	8,654	8,682	8,682
Ordnance and accessories	71	70	68	69	71	72	73	73	73	73	74	74	75
Lumber and wood products	548	553	556	567	570	570	566	572	570	571	571	570	570
Furniture and fixtures	416	418	424	429	436	439	443	446	445	443	441	442	441
Stone, clay, and glass products	523	524	522	531	535	538	536	540	547	549	549	548	541
Primary metal industries	937	948	946	944	943	951	957	954	955	963	961	963	963
Fabricated metal products	1,104	1,102	1,117	1,124	1,134	1,142	1,156	1,155	1,158	1,161	1,160	1,161	1,149
Machinery, except electrical	1,443	1,444	1,464	1,459	1,474	1,482	1,495	1,506	1,518	1,522	1,533	1,556	1,563
Electrical equipment and supplies	1,296	1,289	1,303	1,314	1,324	1,331	1,346	1,360	1,359	1,362	1,365	1,377	1,387
Transportation equipment	1,279	1,285	1,278	1,261	1,300	1,332	1,345	1,347	1,342	1,342	1,332	1,333	1,341
Instruments and related products	321	324	324	326	329	331	331	333	336	337	341	340	336
Miscellaneous manufacturing	314	309	311	313	322	324	327	328	329	327	327	318	316
NONDURABLE GOODS	5,826	5,825	5,819	5,847	5,868	5,891	5,913	5,942	5,956	5,961	5,962	5,929	5,878
Food and kindred products	1,156	1,157	1,141	1,149	1,157	1,172	1,177	1,185	1,184	1,175	1,175	1,165	1,148
Tobacco manufactures	54	54	54	53	55	55	55	56	54	55	55	54	48
Textile mill products	855	857	860	866	863	863	866	867	864	867	866	870	864
Apparel and other textile products	1,102	1,100	1,099	1,105	1,107	1,107	1,103	1,109	1,120	1,118	1,117	1,100	1,099
Paper and allied products	528	526	527	525	529	530	532	535	538	543	545	547	538
Printing and publishing	640	639	641	642	642	642	645	649	650	652	655	656	658
Chemicals and allied products	609	608	607	608	611	614	617	617	618	625	625	625	620
Petroleum and coal products	137	138	139	141	140	142	144	143	142	140	140	139	140
Rubber and plastics products, nec	522	522	524	532	540	542	550	556	560	560	558	556	543
Leather and leather products	223	224	227	226	224	224	224	225	226	226	226	217	220
SERVICE-PRODUCING	37,333	37,438	37,447	37,659	37,820	37,926	38,014	38,197	38,340	38,454	38,592	38,756	38,915
TRANSPORTATION AND PUBLIC UTILITIES	3,890	3,918	3,899	3,992	3,951	3,909	3,922	3,937	3,962	5,962	3,971	3,934	3,963
WHOLESALE AND RETAIL TRADE ..	16,208	16,234	16,202	16,293	16,383	16,511	16,490	16,582	16,603	16,689	16,765	16,816	16,884
WHOLESALE TRADE	3,629	3,639	3,637	3,659	3,673	3,692	3,714	3,738	3,748	3,760	3,766	3,761	3,772
RETAIL TRADE	12,579	12,595	12,565	12,634	12,710	12,819	12,776	12,844	12,855	12,929	12,999	13,055	13,112
FINANCE, INSURANCE, AND REAL ESTATE	3,439	3,459	3,476	3,496	3,505	3,527	3,539	3,551	3,566	3,583	3,605	3,620	3,632
SERVICES	13,796	13,827	13,870	13,948	13,981	13,979	14,063	14,127	14,209	14,220	14,251	14,386	14,436

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
1975				
January.....	15.1	12.8	12.8	16.6
February.....	15.7	12.8	11.9	17.4
March.....	25.6	18.6	17.7	17.7
April.....	39.0	32.3	28.2	20.6
May.....	51.2	43.9	41.6	27.0
June.....	40.7	52.3	56.7	40.7
July.....	58.1	57.0	67.2	50.6
August.....	73.0	76.2	70.1	63.1
September.....	80.8	81.7	75.3	72.4
October.....	66.9	74.1	82.3	77.3
November.....	62.2	72.4	83.4	80.2
December.....	74.1	74.7	81.7	82.6
1976				
January.....	78.5	82.0	83.1	86.0
February.....	77.9	84.3	81.7	84.6
March.....	74.1	85.2	79.9	81.1
April.....	79.4	77.9	79.4	74.4
May.....	66.6	71.5	70.9	79.7
June.....	54.1	61.0	68.6	79.1
July.....	57.3	52.9	57.0	74.1
August.....	47.1	62.5	57.3	74.7
September.....	69.8	56.7	63.7	78.5
October.....	42.4	62.8	69.8	76.5
November.....	69.5	58.7	73.5	75.0
December.....	73.0	79.9	78.5	74.7
1977				
January.....	75.0	79.7	89.0	75.9
February.....	73.5	86.0	86.6	75.6
March.....	82.3	85.8	83.1	78.2
April.....	77.6	84.0	80.5	78.2
May.....	68.6	73.3	71.5	79.1
June.....	63.7	70.1	68.0	77.6
July.....	65.7	56.1	68.3	78.8
August.....	50.0	62.5	68.3	78.8
September.....	61.3	57.0	72.1	75.6
October.....	59.9	73.3	75.0	77.9
November.....	75.9	76.2	80.5	75.6
December.....	73.8	77.9	83.7	77.3
1978				
January.....	66.9	80.5	85.2	80.5p
February.....	70.1	81.7	84.0	79.4p
March.....	74.4	77.6	77.6	
April.....	68.9	74.4	74.1p	
May.....	62.8	63.1	66.3p	
June.....	63.1	65.7p		
July.....	59.6p	59.9p		
August.....	56.4p			
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		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
1 ALABAMA	1,279.0	1,304.7	1,307.5	15.0	16.1	16.1	81.6	81.5	82.2	355.5	359.3	357.1
2 Birmingham	334.7	342.0	343.1	9.4	9.4	9.5	23.2	24.9	25.2	66.9	67.0	66.8
3 Huntsville	109.7	112.1	113.2	(1)	(1)	(1)	4.4	4.2	4.3	30.8	33.5	34.2
4 Mobile	140.0	144.3	144.2	(1)	(1)	(1)	11.8	11.9	12.0	29.1	30.1	30.0
5 Montgomery	95.3	99.9	99.7	(1)	(1)	(1)	6.8	6.7	6.7	15.0	15.6	15.6
6 Tuscaloosa	48.0	47.3	46.4	.9	1.0	1.0	3.7	3.8	3.8	10.0	8.9	8.4
7 ALASKA	172.5	164.0	168.4	4.9	5.2	5.3	22.4	16.8	17.5	14.7	12.6	15.9
8 ARIZONA	778.6	832.5	831.5	18.8	20.0	19.7	49.6	62.7	64.0	110.9	119.2	119.6
9 Phoenix	475.2	510.9	510.3	.6	.6	.6	29.7	38.6	39.3	83.7	88.5	88.9
10 Tucson	147.3	153.6	153.2	7.0	5.9	5.9	9.4	11.6	11.8	13.1	14.1	14.2
11 ARKANSAS	695.8	731.9	726.0	4.7	5.1	5.2	39.6	43.1	43.5	212.3	221.1	217.2
12 Fayetteville-Springdale	53.9	57.2	57.8	(1)	(1)	(1)	2.8	3.3	3.4	17.8	17.9	18.2
13 Fort Smith	63.7	65.8	66.1	.7	.8	.8	3.0	2.9	3.2	24.4	25.2	25.3
14 Little Rock-North Little Rock	164.4	171.0	170.2	(1)	(1)	(1)	9.2	10.1	10.4	30.9	31.5	31.1
15 Pine Bluff	27.5	28.6	28.4	(1)	(1)	(1)	1.1	1.1	1.2	6.2	6.3	6.0
16 CALIFORNIA	8,527.7	9,051.8	9,015.1	35.5	36.2	36.4	371.1	403.5	416.7	1,724.6	1,792.4	1,811.9
17 Anaheim-Santa Ana-Garden Grove	671.2	728.8	718.1	2.1	2.4	2.4	41.0	44.6	44.8	174.6	186.0	187.8
18 Bakersfield	114.2	117.9	118.5	9.3	9.8	9.9	5.3	5.7	6.0	8.8	9.2	9.4
19 Fresno	166.3	172.6	169.5	.8	.8	.8	8.9	9.9	10.1	23.0	22.7	24.0
20 Los Angeles-Long Beach	3,212.9	3,354.7	3,356.9	11.4	11.6	11.7	100.1	105.6	106.7	819.8	847.2	850.6
21 Modesto	76.9	81.3	81.7	.1	.1	.1	5.3	5.9	5.9	18.1	17.3	19.2
22 Oxnard-Simi Valley-Ventura	124.0	130.8	127.5	2.2	2.3	2.3	5.9	5.5	5.7	19.4	19.7	19.6
23 Riverside-San Bernardino-Ontario	365.1	390.7	382.5	2.4	2.5	2.4	18.0	19.8	20.4	57.3	60.4	61.4
24 Sacramento	352.4	371.0	369.0	.4	.4	.4	18.4	21.2	21.4	24.2	25.4	25.0
25 Salinas-Seaside-Monterey	81.1	85.0	82.2	.7	.7	.7	3.3	3.5	3.5	9.4	10.2	10.0
26 San Diego	540.7	571.3	564.3	.8	.8	.8	33.4	35.7	36.3	77.6	84.0	84.5
27 San Francisco-Oakland	1,399.3	1,436.9	1,428.7	1.9	1.8	1.8	62.2	63.3	64.6	191.0	191.9	194.4
28 San Jose	531.5	567.5	571.1	.1	.1	.1	22.0	23.4	23.9	176.6	185.2	193.1
29 Santa Barbara-Santa Maria-Lompoc	105.4	107.3	105.4	1.0	1.1	1.1	4.1	4.3	4.3	14.3	14.1	14.1
30 Santa Rosa	75.3	79.0	78.4	.3	.3	.3	4.5	4.5	4.6	10.6	11.5	11.7
31 Stockton	106.1	111.6	110.1	.1	.1	.1	4.7	5.2	5.1	19.3	19.2	20.2
32 Vallejo-Fairfield-Napa	90.5	95.2	94.4	.2	.2	.2	4.0	4.2	4.3	9.4	9.9	9.9
33 COLORADO ²	(*)	1,035.0	1,034.8	(*)	24.3	24.6	(*)	67.0	68.5	(*)	150.0	150.1
34 Denver-Boulder ²	(*)	652.9	655.6	(*)	10.9	11.1	(*)	43.6	44.3	(*)	102.8	102.3
35 CONNECTICUT	1,292.4	1,335.9	1,326.2	(3)	(3)	(3)	47.6	46.5	48.1	405.5	417.7	413.1
36 Bridgeport	153.2	157.4	156.4	(3)	(3)	(3)	4.7	4.8	5.1	61.6	63.3	62.4
37 Hartford	348.2	363.3	362.7	(3)	(3)	(3)	11.5	10.5	11.0	83.8	87.4	87.7
38 New Britain	55.5	57.8	57.1	(3)	(3)	(3)	2.0	1.8	1.9	27.2	28.5	28.3
39 New Haven-West Haven	176.9	179.9	178.2	(3)	(3)	(3)	6.4	6.1	6.4	43.8	45.3	44.7
40 Stamford	98.8	103.2	102.2	(3)	(3)	(3)	4.6	4.7	4.8	29.2	29.9	29.4
41 Waterbury	84.1	86.7	85.5	(3)	(3)	(3)	3.1	2.8	2.9	33.3	33.0	32.5
42 DELAWARE	238.1	243.3	243.4	(1)	(1)	(1)	15.5	15.5	15.9	69.6	69.5	69.3
43 Wilmington	209.8	216.4	214.9	(1)	(1)	(1)	14.2	14.7	15.0	65.7	66.3	65.6
44 DISTRICT OF COLUMBIA	588.8	581.9	590.8	(1)	(1)	(1)	14.9	15.0	15.4	14.7	15.0	15.0
45 Washington SMSA	1,406.4	1,433.5	1,438.7	(1)	(1)	(1)	76.8	77.0	79.3	49.4	51.3	51.5
46 FLORIDA	2,825.6	3,011.6	2,970.3	8.7	8.9	8.9	175.1	199.5	204.1	369.1	402.8	396.3
47 Fort Lauderdale-Hollywood	251.1	265.5	263.5	(1)	(1)	(1)	20.1	19.7	20.3	29.6	33.2	33.0
48 Jacksonville	258.7	269.3	263.5	(1)	(1)	(1)	15.5	14.9	15.0	32.3	33.6	33.9
49 Miami	607.8	630.3	630.5	(1)	(1)	(1)	28.0	30.7	31.0	86.2	93.3	92.0
50 Orlando	221.2	234.8	232.0	(1)	(1)	(1)	12.6	13.5	13.5	26.4	30.3	29.6
51 Pensacola	88.7	92.0	92.1	(1)	(1)	(1)	6.5	6.7	6.8	13.6	13.0	12.8
52 Tampa-St. Petersburg	427.4	458.0	452.4	(1)	(1)	(1)	26.6	31.3	31.9	59.7	63.8	63.4
53 West Palm Beach-Boca Raton	148.3	157.7	155.2	(1)	(1)	(1)	10.9	12.1	12.2	20.2	21.5	21.6
54 GEORGIA	1,882.9	1,949.8	1,935.8	7.1	7.4	7.4	90.8	99.7	99.7	485.4	503.6	497.2
55 Albany	37.9	38.4	38.8	(1)	(1)	(1)	2.7	3.2	3.2	9.6	9.8	9.9
56 Atlanta	786.0	801.7	796.5	(1)	(1)	(1)	33.7	34.9	34.7	126.9	132.8	129.6
57 Augusta	112.8	116.1	116.8	(1)	(1)	(1)	7.5	6.7	6.8	35.8	35.9	35.9
58 Columbus	80.3	80.8	80.0	(1)	(1)	(1)	5.3	5.1	5.2	20.4	20.5	20.4
59 Macon	94.1	95.1	94.2	(1)	(1)	(1)	4.6	4.2	4.3	16.7	15.8	16.0
60 Savannah	77.4	79.6	79.8	(1)	(1)	(1)	5.3	4.8	4.8	16.3	16.8	16.6

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			
JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	
65.5	68.7	69.6	259.7	263.8	264.3	57.0	57.8	58.1	178.3	181.7	182.1	266.4	275.8	278.0	1
25.0	26.4	26.6	81.0	82.1	82.3	22.6	23.6	23.6	58.2	59.0	58.9	48.4	49.6	50.2	2
2.6	2.5	2.6	20.9	21.3	21.5	3.1	3.2	3.2	16.7	16.7	16.8	31.2	30.7	30.6	3
10.4	10.8	11.2	34.7	35.2	35.3	6.5	6.6	6.6	26.0	26.5	26.5	21.5	23.2	22.6	4
4.5	4.8	4.8	22.5	24.5	24.3	5.6	5.7	5.7	17.1	17.8	17.8	23.8	24.8	24.8	5
1.8	1.8	1.8	9.3	9.3	9.2	1.6	1.7	1.7	5.4	5.1	5.1	15.3	15.7	15.4	6
16.1	16.1	16.2	29.8	28.5	28.7	8.1	8.2	8.2	27.8	25.3	25.9	48.7	51.3	50.7	7
40.9	44.3	44.4	190.8	203.3	202.6	45.2	47.3	47.6	151.4	155.6	157.4	171.0	180.1	176.2	8
24.8	27.0	27.2	124.5	132.8	132.0	34.6	36.1	36.3	91.2	95.9	96.1	86.1	91.4	89.9	9
7.7	7.9	7.9	33.9	35.6	35.6	6.7	7.0	7.1	29.9	31.5	31.5	39.6	40.0	39.2	10
38.5	40.3	40.3	151.1	158.1	159.1	29.7	30.9	31.1	99.4	102.8	103.8	120.5	130.5	125.8	11
2.9	3.0	3.0	13.2	14.1	14.2	2.0	2.1	2.1	6.9	7.4	7.4	8.3	9.4	9.5	12
3.0	3.2	3.2	13.3	14.0	13.9	2.2	2.3	2.3	10.6	10.8	10.8	6.5	6.6	6.6	13
11.3	11.5	11.5	38.3	39.6	39.4	11.9	12.3	12.3	29.9	30.9	31.0	32.9	35.1	34.5	14
3.6	3.5	3.5	5.8	5.8	5.8	1.2	1.3	1.3	4.6	4.8	4.8	5.0	5.8	5.8	15
483.0	495.7	498.7	1,976.5	2,120.1	2,126.9	503.4	523.9	527.9	1,750.1	1,858.7	1,872.1	1,683.5	1,821.3	1,724.5	16
20.8	22.3	22.3	164.1	177.7	178.7	39.4	43.0	43.5	136.2	145.2	147.5	93.0	107.6	91.1	17
6.8	7.1	7.2	29.4	30.4	30.5	4.1	4.2	4.3	18.2	18.9	19.1	32.3	32.6	32.1	18
9.2	9.3	9.5	45.6	46.7	47.8	8.8	9.3	9.3	32.6	31.3	31.1	37.4	42.6	36.9	19
179.6	185.3	183.6	740.7	775.4	777.3	198.4	202.5	204.3	689.2	719.6	722.8	473.7	507.5	499.9	20
3.4	3.4	3.5	19.1	20.0	20.2	2.6	2.7	2.7	14.1	15.0	15.1	14.2	16.9	15.0	21
5.2	5.4	5.3	29.7	32.5	32.6	5.1	5.1	5.1	21.9	22.2	22.4	34.6	38.1	34.5	22
20.2	21.0	21.1	88.1	93.6	93.1	14.6	15.2	15.3	73.8	78.6	77.3	90.7	99.6	91.5	23
18.8	19.2	19.5	78.4	82.1	82.8	16.9	18.1	18.3	60.5	64.2	64.4	134.8	140.4	137.2	24
4.9	4.9	5.0	21.3	22.1	22.3	3.6	3.7	3.8	16.1	16.7	17.1	21.8	23.2	19.8	25
24.6	25.5	25.7	124.1	132.4	133.7	30.3	32.0	32.2	119.5	118.9	124.1	130.4	142.0	127.0	26
122.0	121.8	123.0	318.1	329.9	330.9	122.1	125.8	126.5	292.4	302.9	303.9	289.6	299.5	283.6	27
18.5	19.2	19.2	101.2	109.4	109.2	21.6	22.2	22.4	116.9	123.0	124.4	74.6	85.0	78.8	28
3.8	3.8	3.8	25.7	26.4	26.3	4.6	4.5	4.5	26.7	27.0	27.4	25.2	26.7	23.9	29
3.9	4.2	4.2	17.8	18.9	18.9	4.2	4.3	4.4	14.7	15.2	15.3	19.3	20.1	19.0	30
7.7	7.7	7.7	24.2	26.0	25.7	4.5	4.6	4.6	19.6	20.5	20.5	26.0	28.3	26.2	31
3.9	4.0	4.0	17.4	19.2	19.4	2.9	3.1	3.1	15.9	16.3	16.9	36.8	38.3	36.6	32
(*)	67.5	68.5	(*)	241.8	243.2	(*)	62.7	63.1	(*)	199.2	200.6	(*)	222.5	216.3	33
(*)	45.4	46.2	(*)	159.0	158.3	(*)	46.6	46.9	(*)	125.8	126.8	(*)	118.9	119.7	34
53.5	57.5	54.2	268.5	280.0	277.4	91.8	94.7	95.5	248.9	260.1	262.4	176.6	179.4	175.6	35
5.4	5.7	5.4	31.4	32.0	32.1	6.5	6.5	6.5	28.2	28.3	28.4	15.4	16.8	16.5	36
13.9	15.1	14.3	72.6	75.0	73.5	52.8	55.0	55.6	65.3	67.9	68.4	48.3	52.4	52.2	37
1.3	1.4	1.3	9.4	9.8	9.6	1.5	1.6	1.6	8.4	8.6	8.7	5.8	6.1	5.8	38
14.1	14.4	14.0	37.0	37.5	37.3	9.7	10.0	10.0	43.1	42.9	43.1	22.7	23.8	23.0	39
3.5	3.5	3.5	22.7	23.6	23.4	6.7	6.9	7.0	22.6	23.7	23.9	9.4	10.8	10.2	40
2.9	3.1	2.9	15.2	15.9	15.7	2.9	3.1	3.1	16.4	17.1	17.7	10.3	11.7	10.6	41
12.3	12.4	12.3	51.4	52.5	52.1	11.2	11.4	11.3	39.8	41.0	41.2	38.3	41.0	41.3	42
11.3	11.5	11.5	42.2	42.9	42.6	10.0	10.1	10.1	35.2	36.4	36.4	31.2	34.5	33.7	43
25.6	25.8	25.9	64.4	65.4	65.8	33.3	33.1	33.0	149.5	151.1	149.7	286.4	276.5	286.0	44
64.0	65.0	65.0	267.7	275.6	276.7	82.3	83.4	83.5	333.9	342.6	341.1	532.3	538.6	541.6	45
183.5	182.6	181.6	736.4	765.0	761.1	201.1	208.8	210.6	616.6	654.6	653.9	535.1	589.4	553.8	46
13.0	13.6	13.5	70.4	74.8	74.1	21.3	22.4	22.7	61.2	60.2	62.4	35.5	41.6	37.5	47
21.5	21.7	21.8	69.0	69.2	69.2	27.8	28.2	28.7	48.1	49.0	48.9	44.5	52.7	46.0	48
58.8	60.8	61.6	158.1	157.8	157.2	45.1	45.8	46.1	139.5	146.7	145.3	92.1	95.2	97.3	49
11.4	11.4	11.5	61.9	63.2	63.1	15.4	16.2	16.4	58.4	61.7	62.4	35.1	38.5	35.5	50
4.3	4.4	4.5	20.9	20.6	20.8	3.7	3.7	3.6	16.3	17.5	17.7	23.4	26.1	25.9	51
25.9	26.1	26.0	123.3	125.7	126.1	32.0	34.1	34.4	94.6	97.6	97.4	65.3	79.4	73.2	52
6.8	6.8	6.8	39.0	40.6	40.1	11.8	12.9	12.9	35.0	37.0	36.0	24.6	26.8	25.6	53
119.6	124.6	125.2	432.7	443.7	443.5	99.9	101.5	101.5	285.8	287.5	289.4	361.7	381.8	372.0	54
1.8	1.9	1.9	8.6	8.5	8.9	1.8	1.8	1.8	5.0	4.9	4.8	8.5	8.4	8.3	55
71.3	73.8	74.1	221.8	224.8	224.4	56.9	57.2	57.2	147.1	147.2	147.6	128.4	131.0	128.8	56
3.8	3.8	3.9	19.3	21.4	21.8	4.2	4.2	4.3	14.3	14.9	15.0	27.8	29.2	29.1	57
3.1	3.2	3.2	16.5	17.3	17.4	4.7	5.0	5.0	11.1	11.2	11.2	19.1	18.5	17.6	58
4.4	4.4	4.4	18.6	19.2	18.9	5.5	5.7	5.7	14.9	15.5	15.5	29.4	30.3	29.4	59
7.9	7.6	7.9	18.0	18.5	18.5	3.8	3.9	3.9	13.0	12.8	12.9	13.1	15.1	15.0	60

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
1 HAWAII	365.4	369.3	370.8	(1)	(1)	(1)	21.1	20.2	20.1	27.5	27.2	27.6
2 Honolulu	303.5	307.1	307.7	(1)	(1)	(1)	17.7	17.2	17.1	21.0	20.5	21.0
3 IDAHO	312.0	318.3	321.5	3.4	4.1	4.1	22.3	22.3	23.7	54.9	56.1	56.5
4 Boise City	70.5	75.8	76.2	(1)	(1)	(1)	6.0	7.3	7.5	7.4	8.2	8.4
5 ILLINOIS	4,646.6	4,734.9	4,748.5	28.4	26.8	26.8	190.6	191.0	198.3	1,238.5	1,247.7	1,239.9
6 Bloomington—Normal	47.7	48.0	48.2	(3)	(3)	(3)	1.7	1.4	1.5	7.6	8.2	8.2
7 Champaign—Urbana—Rantoul	63.4	64.1	64.4	(3)	(3)	(3)	2.9	3.2	3.3	6.4	6.5	6.5
8 Chicago—Gary	(*)	3,454.8	(*)	(*)	4.5	(*)	(*)	151.6	(*)	(*)	958.5	(*)
9 Chicago SMSA *	3,139.7	3,203.4	3,209.8	4.6	4.4	4.4	124.2	137.0	139.9	842.4	855.0	852.1
10 Davenport—Rock Island—Moline	154.6	157.8	157.4	(3)	(3)	(3)	7.1	7.2	7.4	47.6	47.4	47.2
11 Decatur	53.7	56.3	56.2	(3)	(3)	(3)	3.9	4.0	4.3	17.9	18.8	18.8
12 Peoria	146.4	152.8	153.2	(3)	(3)	(3)	9.1	9.4	9.8	50.4	52.9	52.7
13 Rockford	115.9	121.0	121.1	(3)	(3)	(3)	4.1	3.9	4.0	52.2	55.3	55.3
14 Springfield	84.1	86.3	86.0	(3)	(3)	(3)	4.9	5.0	5.1	9.4	9.2	8.9
15 INDIANA	2,112.5	2,187.3	2,195.4	9.1	9.4	9.4	97.5	100.3	104.4	711.1	736.1	731.8
16 Anderson	51.4	53.2	52.2	(1)	(1)	(1)	1.2	1.3	1.3	25.0	25.7	24.7
17 Evansville	119.3	122.7	121.0	2.4	2.5	2.5	6.9	6.9	7.0	37.4	40.3	38.2
18 Fort Wayne	164.4	168.5	168.7	(1)	(1)	(1)	6.9	7.2	7.6	60.1	60.7	61.1
19 Gary—Hammond—East Chicago *	255.7	253.9	258.9	(1)	(1)	(1)	15.6	14.6	16.6	101.9	102.8	102.6
20 Indianapolis	487.2	497.6	499.0	(1)	(1)	(1)	20.3	20.8	21.0	125.1	127.3	127.2
21 Lafayette—West Lafayette	51.5	52.5	53.6	(1)	(1)	(1)	2.3	2.1	2.3	11.7	13.0	13.0
22 Muncie	49.1	48.2	48.2	(1)	(1)	(1)	2.3	2.2	2.3	15.2	13.5	13.5
23 South Bend	105.2	107.4	108.1	(1)	(1)	(1)	4.4	4.7	4.8	32.7	32.8	33.4
24 Terre Haute	59.1	61.6	60.9	1.2	1.3	1.3	2.6	2.5	2.2	16.2	16.7	16.8
25 IOWA	1,050.4	1,096.4	1,079.5	2.5	2.5	2.5	60.6	59.3	62.1	241.9	244.4	243.7
26 Cedar Rapids	78.2	81.5	81.1	(1)	(1)	(1)	3.8	4.0	4.0	26.5	28.5	28.8
27 Des Moines	168.4	172.6	171.3	(1)	(1)	(1)	8.2	7.8	7.9	24.9	23.9	23.9
28 Dubuque	42.6	43.7	43.2	(1)	(1)	(1)	1.8	2.0	2.1	16.8	16.5	16.4
29 Sioux City	52.7	52.5	51.3	(1)	(1)	(1)	4.4	4.1	4.3	11.5	10.5	9.7
30 Waterloo—Cedar Falls	62.3	62.2	62.3	(1)	(1)	(1)	3.1	2.7	2.8	22.1	21.2	21.6
31 KANSAS	862.3	901.2	891.7	12.2	13.0	13.1	48.9	47.2	48.3	172.0	184.6	184.3
32 Topeka	81.7	85.6	84.3	.2	.2	.2	3.8	3.8	4.0	11.5	12.1	11.7
33 Wichita	179.2	188.6	187.7	1.8	2.2	2.2	10.2	10.2	10.1	51.6	58.4	58.8
34 KENTUCKY	1,156.2	1,233.3	1,220.9	42.1	59.4	59.3	66.7	76.9	78.5	286.1	293.5	290.4
35 Lexington—Fayette	128.4	140.0	137.7	(1)	(1)	(1)	7.4	8.9	8.8	29.1	31.3	30.8
36 Louisville	380.4	396.3	394.0	(1)	(1)	(1)	19.7	21.3	22.0	108.6	109.0	105.1
37 Owensboro	28.3	30.0	29.9	.6	.8	.7	1.9	2.3	2.3	7.4	6.9	7.0
38 LOUISIANA	1,328.2	1,353.4	1,357.8	66.2	68.3	68.6	105.1	103.9	106.4	203.0	203.7	203.9
39 Alexandria	45.8	46.6	47.0	(1)	(1)	(1)	3.2	3.3	3.4	5.8	6.0	6.0
40 Baton Rouge	169.4	179.4	180.6	1.0	.8	.8	23.6	23.1	23.7	23.9	24.3	24.4
41 Lafayette	57.1	58.1	58.3	9.2	9.6	9.7	5.1	5.3	5.5	3.1	3.3	3.5
42 Lake Charles	53.6	53.2	54.8	1.5	1.5	1.5	6.1	4.4	5.8	11.8	12.0	12.3
43 Monroe	45.6	47.7	48.3	.4	.3	.3	5.3	5.7	5.8	7.9	8.1	8.0
44 New Orleans	447.3	459.0	456.5	14.8	14.5	14.5	26.9	26.5	27.0	51.7	52.4	52.4
45 Shreveport	133.3	138.3	137.8	4.8	4.6	4.8	8.3	9.3	9.6	28.2	28.5	28.3
46 MAINE	397.4	414.8	410.6	(1)	(1)	(1)	24.1	21.5	23.3	103.2	113.9	106.7
47 Lewiston—Auburn	31.4	34.2	32.6	(1)	(1)	(1)	1.4	1.5	1.6	11.2	12.5	10.9
48 Portland	82.9	87.7	88.0	(1)	(1)	(1)	4.6	4.4	4.4	14.9	17.1	16.2
49 MARYLAND	1,544.9	1,591.3	1,586.9	1.6	1.6	1.6	98.9	95.9	98.1	237.4	243.0	241.1
50 Baltimore	872.1	900.6	902.1	(1)	(1)	(1)	46.8	45.7	47.7	162.0	166.4	164.9
51 MASSACHUSETTS	(*)	2,516.5	(*)	(*)	(1)	(*)	(*)	78.9	(*)	(*)	651.7	(*)
52 Boston	1,268.9	1,316.6	(*)	(1)	(1)	(*)	43.2	42.9	(*)	256.8	269.4	(*)
53 Brockton	51.1	53.6	(*)	-	-	(*)	1.6	1.6	(*)	11.6	12.5	(*)
54 Fall River	52.2	54.4	(*)	(1)	(1)	(*)	1.4	1.3	(*)	20.3	21.1	(*)
55 Lawrence—Haverhill	96.0	105.0	(*)	(1)	(1)	(*)	2.7	2.8	(*)	37.0	40.3	(*)
56 Lowell	62.8	65.5	(*)	(1)	(1)	(*)	2.6	2.5	(*)	21.6	23.1	(*)
57 New Bedford	60.9	63.9	(*)	(1)	(1)	(*)	1.6	1.7	(*)	23.8	25.9	(*)
58 Springfield—Chicopee—Holyoke	214.2	217.9	(*)	(1)	(1)	(*)	5.5	5.7	(*)	64.1	66.6	(*)
59 Worcester	147.5	153.7	(*)	(1)	(1)	(*)	3.9	3.6	(*)	44.6	46.3	(*)
60 MICHIGAN	3,392.3	3,552.3	(*)	14.2	13.9	(*)	137.0	146.8	(*)	1,080.6	1,143.6	(*)
61 Ann Arbor	120.8	127.4	125.6	(1)	(1)	(1)	3.0	3.2	3.4	40.2	43.3	42.6
62 Battle Creek	64.9	67.0	66.6	(1)	(1)	(1)	1.8	1.8	1.9	23.3	24.2	24.2

**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			
JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	
28.7	28.9	29.2	91.7	92.8	92.2	24.6	25.2	25.3	84.7	87.5	87.4	87.1	87.5	89.0	1
23.8	23.9	24.1	76.7	77.3	76.8	21.9	22.5	22.6	69.0	71.3	71.1	73.4	74.4	75.0	2
18.1	19.1	19.2	76.4	77.1	80.6	16.3	16.8	16.8	53.3	55.3	55.2	67.3	67.6	65.3	3
4.3	4.6	4.6	18.8	20.1	20.0	5.8	6.2	6.2	12.0	13.2	13.2	16.2	16.2	16.3	4
274.3	281.4	281.4	1,055.9	1,074.0	1,069.4	273.0	278.5	280.7	865.2	878.3	893.4	720.6	757.1	758.7	5
2.8	3.0	3.0	11.1	11.7	11.8	7.2	7.4	7.5	7.6	8.0	7.9	9.7	8.4	8.3	6
2.3	2.5	2.5	14.5	14.6	14.5	2.2	2.3	2.3	9.9	9.9	9.9	25.2	25.1	25.3	7
(*)	207.5	(*)	(*)	775.5	(*)	(*)	215.2	(*)	(*)	659.9	(*)	(*)	482.3	(*)	8
192.1	196.2	196.0	722.2	725.5	720.8	204.8	209.3	210.8	623.2	628.7	637.0	426.3	447.3	448.9	9
7.7	7.8	7.7	38.7	39.6	39.7	6.5	6.7	6.7	22.9	23.6	23.6	24.1	25.6	25.2	10
4.3	4.7	4.4	11.4	12.0	11.9	2.4	2.5	2.5	9.4	9.7	9.9	4.5	4.5	4.5	11
6.9	8.1	8.1	34.3	35.0	35.0	6.9	7.1	7.2	25.6	27.4	27.9	13.2	12.8	12.5	12
4.5	4.6	4.6	23.8	24.6	24.5	3.7	3.9	3.9	16.6	16.6	16.6	11.0	12.2	12.3	13
5.2	5.0	5.0	16.5	18.3	18.3	6.6	6.9	6.9	16.4	16.8	16.8	25.0	25.1	25.1	14
105.9	108.7	109.0	457.1	477.3	477.1	94.1	96.0	96.3	296.7	305.5	303.4	341.1	354.0	363.9	15
1.4	1.6	1.5	9.8	10.5	10.5	1.6	1.6	1.7	6.4	6.5	6.6	6.0	6.0	5.9	16
6.3	6.4	6.4	27.9	28.6	28.6	4.0	4.1	4.1	22.0	21.7	22.0	12.4	12.2	12.2	17
10.4	10.4	10.6	37.7	39.1	38.7	9.2	9.5	9.6	24.8	25.8	25.6	15.3	15.8	15.5	18
14.9	14.8	14.8	48.1	49.3	49.4	8.7	8.8	8.8	32.2	33.1	33.2	34.3	30.5	33.5	19
29.8	29.9	30.1	118.4	120.5	120.6	34.3	34.9	35.0	75.5	78.4	78.3	83.8	85.8	86.8	20
1.5	1.5	1.5	10.3	10.6	10.6	2.6	2.8	2.8	7.9	8.1	8.2	15.2	14.4	15.2	21
2.0	2.0	2.0	11.3	11.8	11.7	1.5	1.5	1.5	6.9	7.4	7.4	9.9	9.8	9.8	22
5.1	5.1	5.2	25.1	25.7	25.8	5.0	5.0	5.0	21.2	21.8	21.9	11.7	12.3	12.0	23
3.9	3.8	3.9	14.5	15.1	15.2	1.9	2.0	2.0	8.5	8.9	8.9	10.3	11.3	10.6	24
55.7	55.1	55.1	269.8	277.0	276.1	52.6	53.3	53.8	182.1	190.4	189.0	165.3	214.4	197.3	25
3.8	3.8	3.8	17.2	17.1	17.1	3.9	4.0	4.1	14.1	14.0	14.0	9.0	10.0	9.3	26
10.8	10.8	10.7	45.0	46.3	46.2	18.7	19.2	19.3	33.9	36.2	35.8	26.8	28.5	27.5	27
1.7	1.7	1.7	9.1	9.5	9.5	1.2	1.2	1.2	8.4	8.8	8.5	3.6	4.0	3.8	28
3.6	3.7	3.7	13.8	13.7	13.7	2.7	2.7	2.7	10.6	10.8	10.7	6.1	7.0	6.5	29
2.6	2.6	2.6	13.5	13.5	13.6	1.9	1.9	1.9	10.3	10.3	10.2	8.9	10.0	9.6	30
58.6	60.9	60.6	209.8	216.8	216.9	43.1	44.6	44.8	151.9	157.9	158.1	165.8	176.2	155.6	31
7.4	7.6	7.7	18.0	18.4	18.4	5.7	5.7	5.7	15.0	15.6	15.7	20.3	22.2	20.9	32
10.1	10.2	10.2	40.9	41.2	41.3	9.0	9.2	9.2	34.5	34.4	34.4	21.3	22.8	21.6	33
64.8	68.3	67.8	248.8	264.9	267.7	47.3	51.2	51.6	185.2	189.6	187.0	215.2	229.5	218.6	34
6.4	6.8	6.8	29.8	31.8	32.1	6.2	6.5	6.6	22.0	23.9	23.6	27.5	30.8	29.0	35
23.6	25.2	25.1	83.1	86.6	87.2	21.2	22.3	22.4	69.4	73.5	72.9	54.7	58.3	59.2	36
2.0	2.1	2.1	6.6	7.4	7.4	1.2	1.3	1.3	4.8	5.2	5.1	3.8	4.0	4.0	37
102.9	105.7	106.7	321.3	324.7	325.6	65.0	67.5	68.0	218.6	228.3	230.3	246.1	251.3	248.3	38
2.3	2.3	2.4	10.9	10.7	10.8	2.7	2.6	2.7	8.9	9.1	9.2	12.0	12.6	12.5	39
8.3	9.0	9.1	37.0	37.4	37.4	10.2	10.4	10.5	25.9	25.8	26.0	39.5	48.6	48.7	40
4.2	4.1	4.0	15.1	15.5	15.8	1.8	2.0	2.0	10.2	9.5	9.6	8.4	8.8	8.2	41
2.9	3.0	3.1	12.3	12.5	12.5	2.2	2.3	2.3	8.3	8.3	8.0	8.5	9.2	9.3	42
2.2	2.2	2.3	12.1	11.9	11.9	3.1	3.2	3.2	6.9	7.1	7.1	7.7	9.2	9.7	43
46.3	47.2	47.9	116.3	119.4	119.4	27.3	27.5	27.6	95.7	98.5	97.9	68.3	73.0	69.8	44
9.5	9.5	9.6	34.0	35.2	35.3	6.1	6.1	6.1	21.9	23.2	23.1	20.5	21.9	21.0	45
18.5	18.5	18.3	89.2	92.0	94.0	15.5	15.5	15.8	76.1	71.7	77.0	70.8	81.6	75.5	46
1.0	1.1	1.0	7.6	8.1	8.0	1.4	1.4	1.4	6.4	6.5	6.8	2.4	3.1	2.9	47
5.0	5.1	5.1	22.2	22.8	23.9	6.5	6.8	6.9	17.9	18.2	18.8	11.8	13.3	12.7	48
78.8	81.8	79.0	369.9	376.3	377.2	84.0	84.5	85.4	298.6	312.2	313.0	375.7	396.0	391.5	49
54.2	56.0	55.1	197.6	203.1	203.6	51.6	51.9	52.1	163.5	172.1	172.5	196.4	205.4	206.2	50
(*)	118.0	(*)	(*)	559.8	(*)	(*)	143.7	(*)	(*)	569.5	(*)	(*)	394.9	(*)	51
66.2	67.3	(*)	293.1	303.2	(*)	95.1	97.8	(*)	323.6	339.2	(*)	190.9	196.8	(*)	52
3.9	4.0	(*)	14.2	14.5	(*)	1.9	1.9	(*)	8.6	8.8	(*)	9.3	10.3	(*)	53
1.9	1.9	(*)	11.2	11.6	(*)	2.4	2.3	(*)	9.0	9.2	(*)	6.0	7.0	(*)	54
3.3	3.6	(*)	19.5	21.1	(*)	3.5	3.8	(*)	14.2	15.7	(*)	15.8	17.7	(*)	55
2.8	3.2	(*)	13.6	13.9	(*)	1.9	1.9	(*)	10.0	10.3	(*)	10.3	10.6	(*)	56
2.7	2.6	(*)	12.1	12.2	(*)	1.8	1.8	(*)	10.8	11.5	(*)	8.1	8.2	(*)	57
8.3	8.7	(*)	44.0	44.7	(*)	11.0	11.3	(*)	39.4	40.5	(*)	41.9	40.4	(*)	58
6.5	6.5	(*)	32.1	33.1	(*)	8.2	8.3	(*)	27.6	29.7	(*)	24.6	26.2	(*)	59
148.8	148.6	(*)	698.1	717.5	(*)	141.6	145.9	(*)	577.7	596.1	(*)	594.5	639.9	(*)	60
2.2	2.2	2.2	17.1	18.3	18.6	3.7	3.9	3.9	17.8	17.8	17.6	36.8	38.7	37.4	61
2.1	2.1	2.2	10.7	11.2	11.1	3.5	3.6	3.6	11.2	11.3	11.3	12.3	12.8	12.3	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		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
MICHIGAN—Continued												
1 Bay City	35.3	37.2	36.7	(1)	(1)	(1)	1.8	1.9	1.9	10.6	11.4	11.6
2 Detroit	1,682.4	1,750.9	1,725.8	1.3	1.2	1.2	66.2	70.1	77.6	561.9	583.7	562.4
3 Flint	187.9	203.0	200.9	(1)	(1)	(1)	7.1	8.0	8.3	76.4	87.3	85.4
4 Grand Rapids	234.8	249.9	244.8	(1)	(1)	(1)	10.6	12.0	12.2	81.3	88.5	86.8
5 Jackson	50.8	52.7	51.8	(1)	(1)	(1)	1.8	1.4	1.4	15.8	16.8	16.3
6 Kalamazoo-Portage	102.2	105.7	104.3	(1)	(1)	(1)	4.3	4.7	4.7	35.0	36.3	36.0
7 Lansing—East Lansing	168.2	187.2	180.7	(1)	(1)	(1)	5.8	5.7	6.1	35.1	42.8	42.7
8 Muskegon-Norton Shores-Musk. Hgts	59.8	60.1	61.3	(1)	(1)	(1)	2.9	3.1	3.3	21.8	21.6	22.0
9 Saginaw	86.4	92.1	93.0	(1)	(1)	(1)	2.9	2.9	3.0	35.6	38.1	37.7
10 MINNESOTA	1,619.6	1,706.3	1,692.2	15.6	18.2	18.6	81.1	88.0	90.7	349.4	362.8	363.6
11 Duluth-Superior	59.1	60.4	60.8	(1)	(1)	(1)	2.7	2.2	2.5	7.7	8.3	8.1
12 Minneapolis-St. Paul	965.7	1,019.9	1,006.5	(1)	(1)	(1)	42.5	48.0	48.8	223.2	234.9	234.3
13 MISSISSIPPI	765.5	799.6	795.6	7.9	7.9	8.1	42.6	43.5	44.3	232.5	234.7	231.6
14 Jackson	127.4	133.2	132.1	1.0	1.1	1.1	7.1	7.6	7.8	18.7	18.7	18.6
15 MISSOURI	1,850.7	1,898.9	1,886.1	8.3	7.0	7.1	86.2	84.3	87.5	438.0	449.7	445.1
16 Kansas City	(*)	607.1	601.9	(*)	.5	.6	(*)	27.9	27.8	(*)	124.6	122.7
17 St. Joseph	(*)	36.1	36.0	(*)	(3)	(3)	(*)	2.2	2.4	(*)	9.6	9.5
18 St. Louis	(*)	952.5	944.2	(*)	2.7	2.7	(*)	39.2	40.6	(*)	255.3	253.5
19 Springfield	(*)	78.2	77.2	(*)	(3)	(3)	(*)	4.0	4.0	(*)	17.7	17.8
20 MONTANA	269.5	277.0	279.0	4.9	7.2	7.2	17.7	17.3	17.5	24.1	24.3	24.6
21 Billings	43.4	44.0	44.9	(1)	(1)	(1)	3.0	3.1	3.3	3.6	3.4	3.6
22 Great Falls	29.6	30.8	30.2	(1)	(1)	(1)	2.2	2.0	2.1	1.3	1.7	1.7
23 NEBRASKA	(*)	607.4	601.2	(*)	1.8	1.7	(*)	35.9	36.4	(*)	94.1	93.8
24 Lincoln	(*)	94.9	94.6	(*)	-	-	(*)	4.9	4.9	(*)	14.1	14.1
25 Omaha	(*)	260.9	259.5	(*)	(3)	(3)	(*)	13.2	13.6	(*)	35.5	35.4
26 NEVADA	313.6	341.2	(*)	4.0	3.8	(*)	20.1	25.3	(*)	15.0	16.6	(*)
27 Las Vegas	170.1	182.5	(*)	.2	.2	(*)	10.0	13.1	(*)	5.7	6.1	(*)
28 Reno	90.8	103.0	(*)	.6	.6	(*)	7.4	9.2	(*)	6.7	7.6	(*)
29 NEW HAMPSHIRE	347.2	366.6	371.2	.5	.4	.4	20.1	22.9	23.5	100.5	107.0	104.7
30 Manchester	64.0	71.9	70.5	(3)	(3)	(3)	3.4	3.4	3.5	18.0	19.7	18.4
31 Nashua	49.6	53.3	53.0	(3)	(3)	(3)	2.5	2.5	2.6	22.4	23.5	23.2
32 NEW JERSEY	2,899.8	2,991.6	2,988.4	3.1	2.8	3.0	106.5	116.4	116.5	766.4	787.7	774.6
33 Atlantic City	75.9	77.6	80.8	-	-	-	3.8	4.4	4.1	8.4	8.1	7.9
34 Camden	305.7	319.8	318.2	.1	.1	.1	13.0	12.6	12.4	65.8	69.8	69.5
35 Hackensack	369.1	388.1	382.0	(1)	(1)	(1)	13.4	16.6	16.1	107.5	113.5	110.9
36 Jersey City	235.2	232.3	235.2	-	-	-	3.9	5.0	4.4	71.4	72.6	70.6
37 Long Branch-Asbury Park	153.4	156.2	156.6	(1)	(1)	(1)	5.9	7.2	7.2	23.5	23.8	23.7
38 New Bruns.-Perth Amboy-Sayreville	259.1	269.1	269.1	(1)	(1)	(1)	8.9	8.0	8.6	84.6	89.2	89.1
39 Newark	906.3	922.5	925.4	.9	1.0	.9	31.1	34.7	35.1	246.8	248.0	244.6
40 Paterson-Clifton-Passaic	181.4	192.6	191.6	(1)	(1)	(1)	5.5	5.9	5.9	64.3	68.6	67.4
41 Trenton	155.4	160.8	158.3	(1)	(1)	(1)	3.3	3.1	3.2	37.4	37.3	36.8
42 Vineland-Millville-Bridgeton	55.3	57.3	57.8	(1)	(1)	(1)	1.8	2.0	2.0	19.6	19.0	18.8
43 NEW MEXICO	420.6	451.3	451.6	23.4	24.5	24.6	32.7	35.6	35.8	32.2	33.9	34.0
44 Albuquerque	166.1	178.5	179.1	(1)	(1)	(1)	13.1	15.4	15.4	16.4	17.9	17.9
45 NEW YORK	6,908.5	7,016.5	(*)	7.4	7.3	(*)	205.3	219.8	(*)	1,458.4	1,493.2	(*)
46 Albany-Schenectady-Troy	322.0	327.6	(*)	(1)	(1)	(*)	11.4	11.8	(*)	63.8	62.9	(*)
47 Binghamton	110.6	115.1	(*)	(1)	(1)	(*)	4.8	4.5	(*)	39.5	42.0	(*)
48 Buffalo	506.6	507.3	(*)	(1)	(1)	(*)	19.8	19.1	(*)	146.0	144.5	(*)
49 Elmira	36.9	37.1	(*)	(1)	(1)	(*)	1.6	1.7	(*)	11.8	11.1	(*)
50 Monroe County	319.0	327.5	(*)	(1)	(1)	(*)	10.4	9.9	(*)	129.1	131.2	(*)
51 Nassau-Suffolk	835.0	869.3	(*)	(1)	(1)	(*)	34.4	36.2	(*)	149.6	156.3	(*)
52 New York-Northeastern New Jersey	6,397.7	6,482.0	(*)	3.4	3.6	(*)	179.4	191.4	(*)	1,342.2	1,375.8	(*)
53 New York and Nassau-Suffolk	4,446.6	4,488.4	(*)	1.8	1.9	(*)	116.7	121.8	(*)	767.6	789.2	(*)
54 New York SMSA	3,611.6	3,619.0	(*)	1.6	1.7	(*)	82.3	85.6	(*)	618.1	632.9	(*)
55 New York City	3,205.3	3,202.0	(*)	1.5	1.5	(*)	67.2	69.9	(*)	535.7	547.6	(*)
56 Poughkeepsie	87.5	91.4	(*)	(1)	(1)	(*)	3.0	2.9	(*)	28.4	31.1	(*)
57 Rochester	392.9	403.1	(*)	(1)	(1)	(*)	12.7	12.4	(*)	149.7	151.1	(*)
58 Rockland County	76.5	77.4	(*)	(1)	(1)	(*)	2.4	2.5	(*)	14.9	15.4	(*)
59 Syracuse	246.8	255.3	(*)	(1)	(1)	(*)	11.7	11.7	(*)	58.0	60.6	(*)
60 Utica-Rome	113.1	115.9	(*)	(1)	(1)	(*)	3.2	3.2	(*)	29.9	31.6	(*)
61 Westchester County	318.4	327.9	(*)	(1)	(1)	(*)	11.8	12.5	(*)	66.2	68.7	(*)

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			(In thousands)	
															JULY 1977	JUNE 1978	JULY 1978P
2.1	2.1	2.0	8.5	9.2	9.0	1.1	1.1	1.2	6.1	6.3	6.4	5.1	5.2	4.6	1	
81.3	82.8	82.4	331.8	345.3	341.8	82.5	84.1	84.6	311.1	322.6	322.3	246.3	261.0	253.5	2	
6.1	6.0	6.1	37.1	40.1	40.6	5.6	5.8	5.8	26.0	29.0	28.0	27.6	26.8	26.7	3	
9.5	9.7	9.7	54.1	56.9	55.0	8.6	8.8	8.8	42.2	43.1	42.9	28.5	30.9	29.4	4	
4.4	4.4	4.5	9.9	10.3	10.4	1.5	1.6	1.6	9.0	9.4	9.5	8.4	8.8	8.0	5	
3.4	3.3	3.5	20.1	19.9	20.0	3.4	3.8	3.8	17.9	18.1	18.1	18.1	19.6	18.2	6	
4.4	4.4	4.5	32.6	33.9	33.1	8.4	8.8	8.9	24.0	24.9	24.9	57.9	66.7	60.5	7	
3.1	2.3	3.1	11.4	11.8	11.9	1.7	1.8	1.8	8.8	8.9	8.9	10.1	10.6	10.3	8	
4.0	3.9	3.9	17.2	18.4	18.2	3.8	3.9	3.9	11.9	13.3	13.2	11.0	11.6	13.1	9	
93.3	92.0	91.5	408.5	429.9	427.0	83.7	87.9	88.5	313.7	331.3	331.2	274.3	296.2	281.2	10	
6.8	7.2	7.3	16.2	16.6	16.8	2.1	2.2	2.1	11.9	12.4	12.3	11.9	11.5	11.7	11	
60.2	58.1	58.0	239.7	251.9	248.5	61.9	64.5	65.1	198.8	209.0	209.4	139.5	153.6	142.4	12	
36.2	37.9	38.1	151.3	156.4	157.1	30.3	31.4	31.5	107.2	114.2	114.2	157.5	173.7	170.7	13	
8.0	8.2	8.2	30.8	33.5	33.4	10.0	10.3	10.3	24.0	24.4	24.4	27.7	29.5	28.3	14	
129.1	135.0	134.3	447.2	455.5	456.3	97.6	98.6	98.8	342.9	349.7	349.0	301.4	319.1	308.0	15	
(*)	53.2	51.6	(*)	153.2	153.0	(*)	39.9	40.1	(*)	119.2	120.1	(*)	88.6	86.0	16	
(*)	2.5	2.5	(*)	8.5	8.4	(*)	1.9	1.9	(*)	6.2	6.3	(*)	5.2	5.0	17	
(*)	69.1	67.9	(*)	210.4	209.8	(*)	51.2	51.4	(*)	188.6	188.4	(*)	136.0	129.9	18	
(*)	5.8	5.8	(*)	22.3	22.3	(*)	3.1	3.1	(*)	15.3	15.2	(*)	10.0	9.0	19	
20.7	21.9	21.9	68.8	70.2	71.8	11.5	12.0	12.0	51.3	48.6	48.7	70.5	75.5	75.3	20	
3.8	3.8	3.8	14.0	14.7	14.9	2.0	2.2	2.2	8.4	8.6	8.9	8.6	8.2	8.2	21	
1.8	2.0	1.9	10.1	10.3	10.3	1.9	1.9	1.9	6.5	6.5	6.4	5.8	6.4	5.9	22	
(*)	44.2	44.4	(*)	156.0	155.8	(*)	39.4	39.4	(*)	105.2	104.9	(*)	130.8	124.8	23	
(*)	6.9	6.9	(*)	20.8	20.6	(*)	6.9	6.9	(*)	14.8	14.7	(*)	26.4	26.4	24	
(*)	22.8	22.9	(*)	65.3	65.3	(*)	22.9	22.9	(*)	53.7	53.7	(*)	47.5	45.7	25	
19.0	19.8	(*)	62.2	67.1	(*)	12.9	14.0	(*)	132.5	143.2	(*)	47.9	51.4	(*)	26	
10.5	11.0	(*)	34.2	37.3	(*)	6.8	7.4	(*)	80.8	84.4	(*)	21.9	23.0	(*)	27	
6.0	6.2	(*)	19.1	20.7	(*)	4.8	5.1	(*)	33.1	39.4	(*)	13.1	14.2	(*)	28	
12.2	13.0	12.7	77.4	81.8	84.2	16.4	17.8	17.9	70.2	69.0	74.9	49.9	54.7	52.9	29	
3.9	4.1	4.2	15.5	18.5	18.5	4.7	5.4	5.3	11.4	12.3	12.8	7.1	8.5	7.8	30	
1.5	1.8	1.7	9.6	10.5	10.6	1.7	1.8	1.8	7.5	8.0	8.2	4.4	5.2	4.9	31	
180.4	190.5	189.0	650.2	665.7	663.3	146.7	152.5	153.0	536.6	555.2	558.8	515.9	520.8	530.2	32	
3.3	3.6	3.6	21.7	21.0	22.9	4.3	4.4	4.4	19.2	21.5	22.3	15.2	14.6	15.6	33	
14.4	15.2	15.0	79.2	83.2	82.7	15.3	15.8	15.8	61.2	62.3	62.6	56.7	60.8	60.1	34	
18.1	18.5	18.1	107.5	112.1	111.5	14.5	14.6	14.6	66.1	68.9	68.6	42.1	43.9	42.2	35	
28.2	28.4	28.9	43.9	45.7	44.5	8.9	9.0	9.0	29.3	28.3	28.1	49.7	43.3	49.7	36	
5.7	6.4	6.0	39.3	41.1	41.3	6.8	7.1	7.1	39.1	36.7	38.2	33.1	33.9	33.1	37	
17.3	17.9	18.3	57.4	60.7	59.2	8.5	8.6	8.6	35.9	36.6	38.1	46.5	48.1	47.2	38	
68.9	68.7	69.0	170.9	174.1	172.7	61.5	63.6	64.0	171.8	180.4	181.6	154.5	152.0	157.5	39	
6.8	6.5	6.8	40.9	43.0	41.6	9.3	9.6	9.6	28.2	29.3	29.4	26.4	29.7	30.7	40	
5.2	5.5	5.3	23.3	24.2	23.7	6.4	6.6	6.7	36.8	37.3	36.8	43.0	46.8	45.8	41	
3.0	2.8	2.8	8.4	9.1	9.2	3.1	3.2	3.2	8.1	8.4	8.4	11.3	12.8	13.4	42	
24.2	25.9	26.0	96.7	105.0	105.0	18.5	19.8	19.8	84.7	90.9	92.3	108.2	115.7	114.1	43	
8.9	9.9	10.0	42.8	46.2	46.3	9.4	9.9	9.9	37.9	39.8	39.8	37.6	39.4	39.8	44	
423.6	427.2	(*)	1,429.4	1,458.0	(*)	583.9	585.5	(*)	1,506.4	1,512.3	(*)	1,294.1	1,313.3	(*)	45	
15.4	14.8	(*)	63.9	66.0	(*)	14.7	14.8	(*)	62.7	63.1	(*)	90.2	94.2	(*)	46	
4.7	4.7	(*)	20.8	21.7	(*)	3.6	3.7	(*)	15.7	15.7	(*)	21.4	22.7	(*)	47	
27.4	28.0	(*)	111.4	112.6	(*)	21.5	22.2	(*)	90.2	92.0	(*)	90.3	88.8	(*)	48	
1.5	1.4	(*)	8.2	8.5	(*)	1.0	1.0	(*)	6.2	6.3	(*)	6.7	7.0	(*)	49	
10.1	10.1	(*)	59.7	61.6	(*)	14.5	14.7	(*)	59.8	59.8	(*)	35.4	40.2	(*)	50	
34.0	36.1	(*)	222.0	229.5	(*)	45.9	46.5	(*)	181.6	180.4	(*)	167.4	194.4	(*)	51	
452.4	453.1	(*)	1,360.8	1,380.4	(*)	585.2	588.8	(*)	1,380.3	1,403.9	(*)	1,094.0	1,085.0	(*)	52	
313.1	313.6	(*)	930.9	945.6	(*)	482.5	483.4	(*)	1,049.6	1,063.7	(*)	784.2	769.2	(*)	53	
279.1	277.6	(*)	708.9	716.1	(*)	436.6	436.8	(*)	868.2	883.5	(*)	616.8	584.8	(*)	54	
257.7	255.6	(*)	615.7	618.8	(*)	417.1	417.2	(*)	769.3	784.6	(*)	541.1	506.8	(*)	55	
2.9	2.8	(*)	14.8	15.2	(*)	2.6	2.5	(*)	15.2	15.0	(*)	20.7	22.0	(*)	56	
13.1	12.9	(*)	76.3	78.7	(*)	16.0	16.4	(*)	70.8	70.3	(*)	54.3	61.3	(*)	57	
3.5	3.6	(*)	16.0	16.6	(*)	2.3	2.3	(*)	16.9	16.6	(*)	20.4	20.6	(*)	58	
14.2	14.1	(*)	55.8	57.3	(*)	15.0	15.1	(*)	45.6	46.6	(*)	46.4	49.9	(*)	59	
3.9	3.9	(*)	21.2	21.9	(*)	5.5	5.6	(*)	19.6	20.0	(*)	29.7	29.7	(*)	60	
17.3	17.8	(*)	74.1	77.6	(*)	16.8	17.0	(*)	79.5	80.1	(*)	52.7	54.3	(*)	61	

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
1 NORTH CAROLINA	2,105.4	2,206.7	2,177.1	4.9	5.1	5.1	106.7	112.2	113.7	781.7	795.7	790.1
2 Asheville	66.2	68.6	69.4	(1)	(1)	(1)	3.4	3.4	3.5	21.4	21.6	21.9
3 Charlotte—Gastonia	289.3	301.2	298.2	(1)	(1)	(1)	14.9	14.9	15.1	84.4	85.5	85.0
4 Greensboro—Winston-Salem—High Pt	350.0	362.5	358.2	(1)	(1)	(1)	16.1	15.7	15.9	142.6	144.4	144.2
5 Raleigh—Durham	223.6	235.5	233.7	(1)	(1)	(1)	11.4	12.1	12.3	36.5	37.9	37.7
6 NORTH DAKOTA	(*)	231.5	230.7	(*)	3.6	3.8	(*)	19.7	20.4	(*)	14.9	15.4
7 Fargo—Moorhead	(*)	60.2	60.2	(*)	(3)	(3)	(*)	5.1	5.3	(*)	4.4	4.9
8 OHIO	4,254.4	4,402.9	4,364.4	30.6	30.9	31.3	178.8	184.1	191.8	1,354.8	1,367.5	1,359.8
9 Akron	260.5	267.1	263.6	.4	.4	.4	8.5	8.6	9.0	85.8	83.8	83.0
10 Canton	151.0	154.4	154.5	.9	1.0	1.0	6.5	6.6	7.0	56.3	56.2	56.2
11 Cincinnati	567.0	590.1	586.9	.5	.5	.5	26.6	27.3	28.0	162.1	167.5	167.4
12 Cleveland	890.5	916.6	907.7	1.5	1.6	1.6	31.7	32.9	34.1	271.7	276.1	273.8
13 Columbus	473.4	489.4	484.8	.8	.9	.9	20.6	21.2	22.3	100.0	101.0	100.9
14 Dayton	340.8	357.4	350.6	.4	.4	.4	14.1	15.1	15.6	109.6	109.7	109.0
15 Toledo	292.2	309.0	303.1	.6	.7	.7	12.1	12.3	13.0	88.7	90.3	91.5
16 Youngstown—Warren	209.7	213.0	211.8	.3	.3	.3	8.5	8.6	9.1	81.2	78.7	78.8
17 OKLAHOMA	972.8	1,032.3	1,026.4	50.1	54.0	54.5	52.8	58.5	58.6	163.7	170.5	170.1
18 Oklahoma City	331.1	365.4	365.4	11.5	13.5	13.5	18.1	23.9	24.2	43.4	47.4	47.6
19 Tulsa	256.0	265.1	266.4	16.0	16.7	16.8	14.2	15.6	15.7	54.2	55.4	55.6
20 OREGON	932.2	1,007.0	986.4	1.9	2.0	2.0	44.8	49.0	52.1	211.1	224.9	225.2
21 Eugene—Springfield	94.7	101.0	98.3	(1)	(1)	(1)	5.3	5.2	5.6	21.0	20.4	20.7
22 Jackson County	-	-	-	-	-	-	-	-	-	7.7	8.0	7.8
23 Portland	485.8	527.2	518.4	(1)	(1)	(1)	23.6	26.6	28.1	101.5	110.3	111.0
24 Salem	80.6	85.1	83.1	(1)	(1)	(1)	4.9	5.3	5.5	14.5	13.9	14.5
25 PENNSYLVANIA	4,575.5	4,694.9	4,707.7	50.3	48.1	47.9	202.4	200.3	207.1	1,353.5	1,372.3	1,362.3
26 Allentown—Bethlehem—Easton	262.1	265.3	262.0	(1)	(1)	(1)	10.1	9.6	9.9	107.4	108.5	107.0
27 Altoona	52.7	52.8	53.0	(1)	(1)	(1)	2.4	2.7	2.7	13.4	12.6	12.7
28 Delaware Valley ¹¹	1,520.8	1,549.5	1,544.6	(1)	(1)	(1)	57.9	55.5	57.6	383.3	385.1	381.7
29 Erie	111.5	113.8	115.4	(1)	(1)	(1)	3.9	4.0	4.3	43.3	43.2	43.9
30 Harrisburg	209.0	212.6	211.1	(1)	(1)	(1)	10.2	9.9	10.2	59.6	40.6	40.3
31 Johnstown	91.4	87.3	86.7	9.4	9.2	9.0	3.2	2.7	2.8	22.9	19.2	19.0
32 Lancaster	139.4	144.8	144.7	(1)	(1)	(1)	7.5	7.8	8.1	56.8	59.0	59.4
33 Northeast Pennsylvania	233.4	232.2	231.6	1.5	1.4	1.4	12.6	10.2	10.3	69.3	70.5	68.3
34 Philadelphia SMSA	1,822.2	1,869.5	1,862.8	(1)	(1)	(1)	69.9	68.1	70.1	448.1	454.8	451.1
35 Philadelphia City ¹²	791.6	804.1	803.8	(1)	(1)	(1)	17.6	17.4	17.8	154.3	157.4	155.9
36 Pittsburgh	913.8	936.2	941.4	12.1	11.6	11.6	48.7	51.6	52.5	253.2	252.1	253.3
37 Reading	131.4	136.6	133.5	(1)	(1)	(1)	5.3	5.3	5.6	51.1	52.9	51.8
38 Scranton ¹³	83.6	81.6	81.9	(1)	(1)	(1)	2.9	2.1	2.1	25.3	26.5	25.5
39 Wilkes-Barre—Hazleton ¹⁴	122.6	123.5	122.5	1.3	1.2	1.2	8.3	7.0	7.0	39.2	39.3	38.3
40 Williamsport	45.3	47.5	47.5	(1)	(1)	(1)	1.7	2.1	2.2	17.7	18.4	18.4
41 York	140.3	148.1	146.5	(1)	(1)	(1)	6.7	6.5	6.7	58.6	62.2	62.4
42 RHODE ISLAND	371.3	398.6	398.2	(1)	(1)	(1)	13.5	13.7	14.5	119.9	136.2	134.2
43 Providence—Warwick—Pawtucket	380.0	411.3	410.7	(1)	(1)	(1)	13.7	13.9	14.7	134.8	153.2	150.9
44 SOUTH CAROLINA	1,078.1	1,131.9	1,114.1	1.9	1.9	1.9	69.3	75.3	74.3	376.3	387.0	383.0
45 Charleston—North Charleston	132.0	135.3	134.7	(1)	(1)	(1)	10.8	10.4	10.2	18.2	18.7	18.6
46 Columbia	157.4	165.4	165.9	(1)	(1)	(1)	8.3	8.5	8.5	24.3	24.0	25.3
47 Greenville—Spartanburg	239.5	249.4	245.7	(1)	(1)	(1)	15.8	16.8	17.2	99.2	102.4	99.4
48 SOUTH DAKOTA	232.6	242.1	240.0	2.8	2.9	2.8	14.7	15.6	15.7	23.5	24.6	24.6
49 Rapid City	27.3	28.5	28.8	(3)	(3)	(3)	2.7	2.9	2.8	2.6	2.7	2.8
50 Sioux Falls	49.7	53.2	53.3	(3)	(3)	(3)	3.3	4.0	4.0	6.9	7.6	7.7
51 TENNESSEE	1,622.5	1,700.6	1,673.8	9.4	9.0	8.8	80.6	90.4	90.0	503.0	530.4	515.0
52 Chattanooga	162.3	164.1	163.8	1.1	1.2	1.2	5.7	6.1	6.2	55.8	55.0	54.6
53 Knoxville	185.1	188.2	184.5	1.6	1.6	1.7	11.9	11.5	11.5	51.9	52.7	49.1
54 Memphis	334.8	345.4	342.4	.2	.2	.2	14.2	14.2	13.9	60.0	64.1	63.2
55 Nashville—Davidson	325.9	338.9	338.5	(1)	(1)	(1)	17.8	20.1	20.2	80.0	83.2	82.8
56 TEXAS	4,873.0	5,109.9	5,125.5	58.4	71.5	74.4	352.4	364.8	368.3	903.0	949.2	948.9
57 Amarillo	68.4	71.4	72.2	(1)	(1)	(1)	4.9	5.7	5.6	8.2	8.4	8.9
58 Austin	198.4	210.5	211.6	(1)	(1)	(1)	11.4	12.9	13.1	22.8	25.3	25.7
59 Beaumont—Port Arthur—Orange	143.6	143.0	142.3	(1)	(1)	(1)	16.7	14.7	14.2	40.9	41.5	41.4
60 Corpus Christi	102.2	106.2	106.2	4.0	4.3	4.3	9.2	10.7	10.8	12.5	13.4	13.3
61 Dallas-Fort Worth	1,186.0	1,245.2	1,241.7	14.1	15.6	15.9	58.3	60.2	61.1	268.0	281.4	283.3
62 El Paso	138.6	141.7	142.5	(1)	(1)	(1)	8.3	8.6	8.8	28.6	28.4	28.2
63 Galveston—Texas City	70.2	73.1	73.9	(1)	(1)	(1)	4.8	5.4	5.7	11.9	12.0	12.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government		
JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
102.9	108.0	108.2	412.2	422.1	425.2	84.7	85.2	85.6	301.9	310.8	319.2	313.4	367.6	330.0
3.4	3.4	3.4	13.2	13.6	13.7	2.4	2.4	2.4	12.1	12.4	12.7	10.3	11.8	11.8
26.9	27.7	27.7	69.2	70.7	70.7	18.7	18.7	18.9	44.9	46.7	47.1	30.3	37.0	33.7
19.9	20.8	20.8	69.9	71.6	71.9	16.4	16.4	16.6	50.1	51.6	52.2	35.0	42.0	36.6
10.7	11.4	11.5	45.3	46.5	46.8	13.8	14.0	14.0	48.0	49.1	50.3	57.9	64.5	61.1
(*)	14.8	14.9	(*)	65.5	65.7	(*)	10.5	10.6	(*)	44.9	44.2	(*)	57.6	55.7
(*)	3.8	3.8	(*)	19.5	19.6	(*)	3.6	3.6	(*)	12.1	12.1	(*)	11.7	10.9
219.6	228.6	228.9	927.7	955.4	956.3	187.5	193.2	194.3	741.5	775.2	769.9	613.5	667.9	632.2
14.1	14.6	14.6	57.9	60.5	60.7	9.2	9.6	9.4	46.8	48.4	48.7	37.9	41.3	37.9
7.0	7.7	7.7	32.7	33.6	33.8	5.6	5.9	5.9	25.1	26.2	25.9	16.9	17.3	17.0
32.1	33.6	33.8	131.3	134.4	134.2	30.1	30.5	30.3	108.3	113.3	113.0	76.2	82.9	79.9
45.9	48.1	48.4	203.5	207.5	207.5	45.7	46.4	46.6	167.2	176.2	175.0	123.2	128.0	120.7
23.4	24.3	24.4	111.4	114.9	114.5	32.3	33.3	33.6	90.6	93.8	93.8	94.3	100.1	94.4
12.3	13.2	13.2	71.7	73.9	73.6	12.1	12.7	12.6	61.6	66.2	64.3	58.9	66.2	61.9
20.0	21.0	20.9	67.1	69.9	69.1	10.0	10.7	10.7	53.9	57.4	57.3	39.8	46.6	40.0
9.8	10.6	10.5	44.9	46.3	46.5	6.9	7.1	7.0	34.9	36.2	36.1	23.2	25.3	23.5
60.3	61.5	61.4	232.7	243.0	242.9	50.0	51.9	52.1	160.6	173.5	174.1	202.6	219.4	212.7
20.4	21.1	21.2	81.8	87.7	87.6	21.6	23.1	23.2	56.6	62.6	62.7	77.7	86.1	85.4
19.8	20.0	20.0	63.1	63.7	64.2	13.4	13.7	13.8	49.8	53.0	53.3	25.5	27.0	27.0
54.6	57.4	57.4	225.3	236.4	233.2	58.7	62.6	63.1	163.4	174.2	174.0	172.4	200.5	179.4
4.8	5.1	5.2	23.6	24.6	24.3	4.8	4.8	4.9	16.4	17.9	17.6	18.8	23.0	20.0
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32.6	34.1	34.5	123.6	132.9	129.6	37.8	40.0	40.4	95.0	102.6	101.2	71.7	80.7	73.6
2.9	3.3	3.1	16.7	17.4	17.5	4.9	5.2	5.1	12.3	12.3	12.3	24.4	27.7	25.1
259.0	260.6	254.2	920.4	938.3	932.2	220.3	227.8	228.7	866.3	895.8	886.7	703.3	751.7	788.6
12.5	13.2	13.3	46.2	46.2	46.2	8.0	8.1	8.1	39.7	40.8	40.5	38.3	38.9	37.0
8.3	8.3	8.3	11.3	11.3	11.6	1.4	1.4	1.4	8.1	8.2	8.3	7.8	8.3	8.0
81.6	82.3	80.5	316.4	322.3	318.4	100.0	101.7	101.4	345.8	357.0	356.1	235.8	245.6	248.9
5.2	5.4	5.3	21.4	21.8	21.9	4.5	4.6	4.7	19.7	20.1	19.9	13.5	14.7	15.4
15.1	15.0	15.1	40.7	41.3	41.1	11.6	11.9	12.0	37.0	37.2	37.1	54.8	56.7	55.3
5.4	5.7	5.4	17.2	16.1	16.1	3.5	3.8	3.9	15.3	15.4	15.3	14.5	15.2	15.2
6.2	6.6	6.6	30.8	30.6	30.4	4.3	4.5	4.6	21.6	22.1	22.2	12.2	14.2	13.4
12.4	12.7	12.8	47.8	47.8	47.9	9.1	9.1	9.1	47.0	41.1	41.1	39.7	39.4	40.7
96.6	97.5	95.5	395.6	405.6	401.1	114.8	117.4	117.2	404.6	419.4	418.7	292.6	306.7	309.1
55.8	55.3	54.7	151.0	154.9	153.1	66.0	67.4	67.5	194.1	201.9	199.7	152.8	149.8	155.1
57.0	56.6	56.0	197.4	204.0	205.4	42.4	43.1	43.3	185.5	187.1	186.3	117.5	130.1	133.0
6.2	6.3	5.9	24.9	25.4	25.1	5.2	5.6	5.7	21.9	22.2	21.9	16.8	18.9	17.5
4.5	4.4	4.5	18.5	17.6	17.8	3.3	3.4	3.4	16.1	16.3	16.3	13.0	11.3	12.3
6.3	6.4	6.5	24.7	25.4	25.3	4.9	4.8	4.9	17.3	17.7	17.3	20.6	21.7	22.0
2.3	2.4	2.4	8.7	9.4	9.5	1.8	1.9	2.0	7.6	7.5	7.5	5.5	5.8	5.5
6.6	6.7	6.7	29.7	31.3	31.2	3.6	3.9	3.9	19.1	19.5	19.3	16.0	18.0	16.3
13.3	13.5	13.4	75.7	80.2	80.4	19.4	20.4	20.1	71.6	73.8	75.2	57.9	60.8	60.4
13.1	13.4	13.3	75.8	80.9	81.2	19.4	20.7	20.4	68.6	71.5	72.9	54.6	57.7	57.3
46.2	48.9	49.2	203.0	208.7	210.1	41.9	44.0	44.6	138.8	143.5	142.6	200.7	222.6	208.4
8.1	8.6	8.8	28.3	28.2	28.3	5.6	5.9	6.0	19.8	20.7	20.5	41.2	42.8	42.3
8.4	8.9	8.9	33.1	35.2	35.2	12.1	13.1	13.1	24.1	25.0	24.8	47.1	50.7	46.1
9.6	9.7	9.8	45.5	46.1	46.5	8.7	8.9	9.0	30.9	32.9	32.7	29.8	32.6	31.1
12.5	12.0	12.1	63.9	64.9	65.6	10.3	10.5	10.7	49.0	51.5	50.9	55.9	60.1	57.6
1.8	1.8	1.8	8.1	8.0	8.1	1.3	1.3	1.3	6.0	6.2	6.4	4.8	5.6	5.6
4.0	3.9	3.9	16.1	16.0	16.2	2.8	2.9	2.9	10.6	11.1	11.2	6.0	7.7	7.4
77.5	81.3	81.4	351.7	362.8	363.6	71.4	72.3	72.9	251.8	254.3	254.6	277.1	300.1	287.5
6.4	6.4	6.4	29.7	30.2	30.3	8.6	8.5	8.6	26.0	26.0	25.7	29.0	30.7	30.8
7.5	7.6	7.6	37.7	37.8	37.9	7.0	6.9	7.0	27.7	27.7	27.7	39.8	42.4	42.0
23.6	24.8	24.9	89.8	90.6	90.1	19.0	18.9	19.1	66.6	67.2	67.6	61.4	65.4	63.4
17.4	18.6	18.6	74.9	75.5	76.0	19.8	19.7	19.8	59.8	61.0	60.9	56.2	60.8	60.2
313.4	326.6	326.9	1,202.4	1,248.6	1,252.8	277.0	290.2	291.5	841.6	879.7	883.9	824.8	879.3	878.8
6.7	7.0	7.0	20.9	21.3	21.5	3.5	3.6	3.6	13.4	13.4	13.5	10.8	12.0	12.1
6.2	6.8	6.8	41.0	43.7	43.4	11.7	12.6	12.7	33.1	35.2	34.8	72.2	74.0	75.1
11.3	11.6	11.6	29.8	29.5	29.7	5.0	5.4	5.4	22.3	21.9	21.9	17.6	18.4	18.1
6.1	6.0	6.1	25.6	25.9	25.9	5.3	5.6	5.6	17.4	17.3	17.3	22.1	23.0	22.9
78.9	83.0	83.4	318.8	331.3	331.5	90.5	95.0	95.3	207.8	217.9	218.4	149.6	160.8	152.8
9.8	9.4	9.4	35.7	35.9	35.9	6.8	7.1	7.2	23.0	24.7	24.8	26.4	27.6	28.2
7.3	7.2	7.2	12.7	13.6	13.8	4.7	4.9	5.0	10.7	11.2	11.4	18.1	18.8	18.8

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
TEXAS—Continued												
1 Houston	1,172.1	1,239.5	1,245.2	51.1	53.4	53.6	130.7	139.0	141.9	193.9	203.8	204.3
2 Lubbock	80.4	82.4	83.0	(1)	(1)	(1)	5.3	5.3	5.5	12.7	13.2	13.2
3 San Antonio	342.1	356.3	356.5	1.7	1.8	1.8	21.8	25.2	25.1	41.8	45.6	45.8
4 Waco	64.1	65.0	65.8	(1)	(1)	(1)	3.4	3.9	4.0	15.7	15.9	16.2
5 Wichita Falls	47.6	49.2	48.9	2.5	2.5	2.6	2.5	2.6	2.6	8.2	9.2	9.1
UTAH												
6	477.5	517.2	518.3	10.6	16.7	16.9	31.4	36.9	37.8	74.3	79.5	79.8
7 Salt Lake City—Ogden	345.6	370.1	371.6	2.9	7.4	7.3	24.1	25.4	26.1	48.9	53.3	53.4
VERMONT												
8	177.5	183.6	184.9	.7	.7	.7	9.9	9.6	9.8	43.0	47.7	47.3
9 Burlington ¹⁵	45.9	48.9	49.5	-	-	-	-	-	-	10.7	12.3	12.6
10 Springfield ¹⁵	13.2	13.9	13.9	-	-	-	-	-	-	5.5	6.0	5.9
VIRGINIA												
11	1,930.1	2,022.5	2,011.7	23.0	22.5	22.9	122.0	127.3	130.0	400.6	407.9	406.4
12 Bristol	23.6	25.7	25.5	(1)	(1)	(1)	1.1	1.2	1.3	8.2	8.7	8.4
13 Lynchburg	62.5	65.9	65.7	(1)	(1)	(1)	3.1	3.7	3.8	27.3	28.7	28.7
14 Newport News—Hampton	136.8	144.3	142.9	(1)	(1)	(1)	5.9	6.8	6.9	35.0	34.8	33.9
15 Norfolk—Virginia Beach—Portsmouth	265.3	270.5	267.9	(1)	(1)	(1)	17.5	17.7	18.3	28.5	28.3	28.7
16 Northern Virginia ¹⁶	381.9	398.6	399.4	.4	.4	.4	27.7	28.3	29.0	14.3	14.8	15.1
17 Petersburg-Colonial Heights-Hopewell	44.6	45.2	44.5	(1)	(1)	(1)	2.3	2.1	2.2	12.3	12.4	12.1
18 Richmond	299.0	311.0	310.9	.3	.4	.4	18.1	18.9	19.1	51.6	53.3	53.6
19 Roanoke	99.2	103.7	99.7	.2	.2	.3	5.9	5.9	6.0	21.2	21.6	21.5
WASHINGTON												
20	1,344.6	1,471.3	(*)	2.2	2.4	(*)	77.5	88.4	(*)	268.6	294.4	(*)
21 Seattle—Everett	631.8	690.7	(*)	(1)	(1)	(*)	32.9	39.3	(*)	132.1	145.1	(*)
22 Spokane	110.0	119.7	(*)	(1)	(1)	(*)	6.0	8.2	(*)	15.9	16.5	(*)
23 Tacoma	122.3	131.4	(*)	(1)	(1)	(*)	7.0	7.3	(*)	20.7	21.8	(*)
WEST VIRGINIA												
24	621.1	627.6	629.1	71.5	75.0	75.0	40.4	38.5	39.0	124.9	125.2	123.5
25 Charleston	110.0	107.4	109.1	6.6	6.6	6.6	8.2	6.4	7.4	19.8	19.4	19.4
26 Huntington—Ashland	100.6	99.8	100.8	1.0	1.0	1.0	6.7	6.1	6.2	28.5	28.7	28.5
27 Parkersburg—Marietta	53.2	53.0	54.4	.5	.5	.5	3.1	2.8	3.0	16.6	16.4	16.8
28 Wheeling	65.2	63.7	65.0	7.4	7.1	7.2	3.7	2.9	3.6	13.8	13.6	14.0
WISCONSIN												
29	1,789.5	1,890.9	1,892.5	2.7	2.7	2.7	82.6	91.8	97.4	541.7	557.1	560.8
30 Appleton—Oshkosh	112.2	116.1	116.3	(1)	(1)	(1)	5.9	5.2	5.5	43.9	46.5	47.1
31 Eau Claire	40.0	41.6	41.2	(1)	(1)	(1)	1.7	1.7	1.8	8.9	8.8	8.7
32 Green Bay	70.1	72.5	72.6	(1)	(1)	(1)	3.9	3.8	3.9	21.2	20.9	21.3
33 Kenosha	41.1	41.0	40.8	(1)	(1)	(1)	1.3	1.3	1.4	17.4	16.3	16.2
34 La Crosse	38.7	40.4	40.0	(1)	(1)	(1)	2.1	2.0	1.9	10.2	10.5	10.5
35 Madison	140.1	153.4	153.7	(1)	(1)	(1)	7.6	7.8	7.9	18.5	18.8	19.0
36 Milwaukee	607.4	637.2	635.3	(1)	(1)	(1)	23.2	24.0	25.1	198.3	206.5	207.1
37 Racine	65.7	70.2	69.3	(1)	(1)	(1)	2.5	2.9	3.0	27.8	29.9	29.3
WYOMING												
38	175.8	188.8	187.7	25.6	29.4	29.7	18.9	19.8	20.2	9.3	9.3	9.4
39 Casper	30.8	35.1	35.4	6.0	7.2	7.2	3.1	3.6	3.9	1.8	1.9	1.8
40 Cheyenne	24.2	26.3	25.7	(1)	(1)	(1)	1.8	2.0	2.0	1.6	1.6	1.5

¹ Combined with services.

² Based on the 1967 Standard Industrial Classification Manual.

³ Combined with construction.

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

⁵ Revised to 1977 benchmark; not strictly comparable with previously published data.

⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Burlington, Camden, and Gloucester Counties, New Jersey.

⁷ Subarea of New York—Northeastern New Jersey.

⁸ Subarea of Rochester Standard Metropolitan Statistical Area.

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

¹⁰ Subarea of New York Standard Metropolitan Statistical Area.

¹¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

¹² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

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

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

¹⁵ Total includes data for industry divisions not shown separately.

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

p=preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	
86.6	91.5	92.0	286.1	304.5	304.8	69.7	75.1	76.3	226.8	238.9	240.9	127.2	133.3	131.4	1
4.7	4.9	4.8	25.4	25.9	26.1	4.0	4.1	4.2	13.4	13.6	13.8	14.9	15.4	15.4	2
15.2	15.8	16.0	88.3	87.8	87.7	23.4	24.5	24.9	64.1	66.2	66.4	85.8	89.4	88.8	3
3.2	3.2	3.2	14.8	14.9	15.0	3.6	3.8	3.8	12.2	12.2	12.3	11.2	11.1	11.3	4
2.5	2.5	2.5	12.3	12.4	12.4	2.2	2.3	2.3	7.4	7.4	7.5	10.0	10.3	9.9	5
29.7	31.3	31.8	118.6	124.9	126.1	22.3	24.3	24.3	80.5	88.2	88.6	110.1	115.2	113.0	6
23.9	24.7	25.1	88.3	92.7	93.4	18.9	19.9	19.9	57.6	62.2	62.5	81.0	84.4	84.0	7
8.4	8.7	8.6	37.7	38.5	39.4	7.2	7.5	7.5	40.7	39.8	41.6	30.1	31.2	30.0	8
2.2	2.2	2.2	9.8	10.1	10.3	-	-	-	9.9	10.4	10.6	-	-	-	9
.7	.8	.7	2.2	2.3	2.3	-	-	-	2.5	2.5	2.6	-	-	-	10
107.9	110.1	104.8	401.8	414.7	416.3	92.0	94.3	94.8	332.9	346.1	348.5	449.9	499.6	488.0	11
.9	.9	.9	6.0	6.0	6.0	.8	.9	.9	2.9	3.0	3.0	3.7	5.0	5.0	12
2.7	2.4	2.4	10.4	10.6	10.7	2.9	2.9	2.9	8.3	8.7	8.6	7.8	8.9	8.6	13
4.4	5.0	4.9	24.5	25.7	25.7	4.3	4.6	4.6	25.6	27.9	28.0	37.1	39.5	38.9	14
18.6	17.7	16.8	64.0	65.2	65.7	12.9	13.1	13.3	46.9	47.6	47.5	76.9	80.9	77.6	15
27.3	28.0	28.1	89.3	94.4	94.4	24.7	25.6	25.8	88.9	94.1	94.2	109.3	113.0	112.4	16
1.3	1.3	1.5	8.1	8.1	8.2	1.1	1.1	1.2	5.1	5.3	5.2	14.4	14.9	14.1	17
18.1	18.4	18.6	68.0	69.7	70.0	23.3	23.3	23.3	52.5	52.5	52.9	67.1	74.5	73.0	18
10.1	10.3	7.1	23.6	24.4	24.1	5.4	5.7	5.8	17.8	18.0	17.9	15.0	17.6	17.0	19
79.5	82.1	(*)	330.2	359.2	(*)	76.1	82.2	(*)	251.7	270.0	(*)	258.8	292.6	(*)	20
45.3	45.6	(*)	156.4	168.1	(*)	44.8	47.8	(*)	119.3	130.8	(*)	101.0	114.0	(*)	21
7.6	7.9	(*)	31.8	32.7	(*)	7.3	8.0	(*)	24.3	25.6	(*)	17.1	20.8	(*)	22
6.2	6.4	(*)	29.5	31.2	(*)	6.2	6.4	(*)	25.2	27.0	(*)	27.5	31.3	(*)	23
41.4	41.7	39.5	122.7	123.9	123.8	19.7	20.2	20.3	87.0	88.6	87.7	113.6	114.5	120.3	24
9.0	9.1	9.2	24.1	24.1	24.1	4.6	4.7	4.7	18.1	18.4	18.2	19.5	18.8	19.4	25
9.5	9.3	9.2	20.4	20.6	20.8	3.6	3.6	3.6	14.1	13.9	13.9	16.8	16.6	17.7	26
2.5	2.4	2.4	11.3	11.6	11.7	1.9	1.9	1.9	7.8	7.9	8.2	9.7	9.5	9.9	27
3.7	3.7	3.7	14.1	14.4	14.4	2.4	2.4	2.4	12.3	12.2	12.1	7.9	7.4	7.5	28
83.2	88.7	85.4	408.5	430.2	433.0	80.7	84.7	85.3	327.5	338.6	343.9	262.6	297.1	284.1	29
3.9	4.0	3.9	22.2	22.6	23.0	4.3	4.5	4.5	17.8	18.3	18.4	14.1	14.8	13.9	30
2.3	2.3	2.3	10.1	10.6	10.7	1.4	1.4	1.4	8.0	8.4	8.2	7.6	8.4	8.2	31
4.4	4.5	4.3	16.9	17.3	17.2	2.3	2.6	2.7	12.6	12.9	12.7	8.8	10.5	10.4	32
1.4	1.5	1.5	7.8	8.0	8.0	.8	.8	.9	6.9	7.1	7.1	5.5	6.0	5.7	33
2.1	2.2	2.2	9.8	10.3	10.3	.9	.9	.9	8.2	8.5	8.6	5.5	5.9	5.6	34
5.2	5.2	5.2	31.8	33.9	34.1	10.2	11.5	11.4	24.8	24.9	25.2	42.0	51.4	50.8	35
30.7	32.9	31.6	133.4	138.3	138.3	32.6	33.3	33.5	120.7	126.1	125.9	68.6	76.1	73.7	36
2.7	2.6	2.5	12.0	12.7	12.4	2.0	2.3	2.3	10.3	10.5	10.7	8.4	9.3	9.0	37
13.7	14.0	14.1	40.2	41.9	43.0	5.6	6.1	6.1	27.4	28.0	28.4	35.1	40.3	36.8	38
2.2	2.3	2.3	7.9	9.2	9.3	1.3	1.3	1.3	4.4	4.9	4.8	4.1	4.7	4.8	39
3.3	3.6	3.6	5.8	6.2	6.5	1.4	1.4	1.4	4.0	4.8	4.6	6.3	6.7	6.1	40

ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1977	Aug. 1977	June 1978	July 1978P	Aug. 1978P	July 1977	Aug. 1977	June 1978	July 1978P	Aug. 1978P
-	TOTAL PRIVATE	\$191.63	\$191.99	\$205.82	\$208.42	\$208.21	\$5.25	\$5.26	\$5.67	\$5.71	\$5.72
-	MINING	309.81	303.21	335.16	332.98	332.98	6.90	6.86	7.60	7.69	7.69
10	METAL MINING	301.49	296.79	332.44	342.79	-	7.30	7.31	8.03	8.28	-
101	Iron ores	317.41	325.46	367.00	371.36	-	7.63	7.38	8.36	8.44	-
102	Copper ores	288.75	283.50	322.38	338.45	-	7.50	7.52	8.10	8.59	-
11,12	COAL MINING	373.59	352.77	396.48	381.18	-	8.51	8.48	9.60	9.65	-
12	Bituminous coal and lignite mining	375.76	354.43	397.72	383.33	-	8.54	8.52	9.63	9.68	-
13	OIL AND GAS EXTRACTION	286.28	287.20	311.44	313.24	-	6.21	6.23	6.80	6.93	-
131,2	Crude petroleum and natural gas fields	301.60	295.53	334.78	345.10	-	7.13	7.07	7.99	8.12	-
138	Oil and gas field services	279.15	283.68	300.99	299.56	-	5.84	5.91	6.35	6.47	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	268.45	268.04	294.98	298.07	-	5.90	5.93	6.33	6.41	-
142	Crushed and broken stone	266.23	266.23	296.30	301.11	-	5.75	5.75	6.16	6.26	-
-	CONTRACT CONSTRUCTION	302.40	301.44	321.39	328.23	-	8.00	8.06	8.48	8.57	-
15	GENERAL BUILDING CONTRACTORS	289.34	290.72	302.78	308.48	-	7.82	7.90	8.25	8.36	-
16	HEAVY CONSTRUCTION CONTRACTORS	305.34	299.63	331.75	338.24	-	7.34	7.38	7.88	7.94	-
161	Highway and street construction	308.88	301.18	334.74	342.55	-	7.20	7.24	7.66	7.75	-
162	Heavy construction, nec	320.94	298.54	327.65	334.96	-	7.48	7.52	8.09	8.13	-
17	SPECIAL TRADE CONTRACTORS	309.27	308.19	328.62	335.01	-	8.45	8.49	9.23	9.03	-
171	Plumbing, heating, air conditioning	332.26	331.68	347.92	353.02	-	8.63	8.66	9.18	9.29	-
'72	Painting, paper hanging, decorating	278.60	281.64	281.99	290.04	-	7.96	8.07	8.08	8.17	-
173	Electrical work	357.40	355.32	382.23	388.22	-	9.48	9.45	9.98	10.11	-
174	Masonry, stonework, and plastering	281.71	282.74	299.62	303.98	-	8.31	8.39	8.71	8.71	-
176	Roofing and sheetmetal work	250.47	248.06	262.19	273.03	-	7.59	7.68	7.78	7.96	-
-	MANUFACTURING	226.57	227.70	247.05	246.43	247.04	5.65	5.65	6.07	6.13	6.13
19,24,25,32-39	DURABLE GOODS	244.82	246.02	267.86	266.02	266.02	6.03	6.03	6.47	6.52	6.52
20-23,26-31	NONDURABLE GOODS	200.43	201.85	216.37	218.83	219.38	5.10	5.11	5.45	5.54	5.54
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	249.60	250.74	276.19	271.08	278.92	6.24	6.30	6.72	6.76	6.87
192	Ammunition, except for small arms	250.26	255.58	276.58	266.04	(*)	6.45	6.52	6.88	6.91	(*)
1925	Complete guided missiles	278.64	286.63	306.82	296.01	-	7.09	7.22	7.52	7.59	-
1929	Ammunition, exc. for small arms, nec.	204.60	204.14	226.00	217.91	-	5.37	5.33	5.78	5.78	-
24	LUMBER AND WOOD PRODUCTS	203.81	205.71	228.89	226.40	226.73	5.07	5.13	5.61	5.66	5.64
242	Sawmills and planing mills	202.05	206.32	230.04	227.77	228.33	4.94	5.02	5.57	5.61	5.61
2421	Sawmills and planing mills, general	210.74	216.41	242.94	239.09	-	5.14	5.24	5.84	5.86	-
243	Millwork, plywood and related products	211.05	212.53	235.50	232.00	(*)	5.25	5.30	5.73	5.80	(*)
2431	Millwork	199.25	202.75	216.51	217.88	-	5.07	5.12	5.44	5.53	-
2432	Veneer and plywood	232.37	234.11	277.01	264.13	-	5.64	5.71	6.31	6.38	-
244	Wooden containers	144.77	146.30	164.55	168.56	166.49	3.77	3.80	4.23	4.30	4.28
2441,2	Wooden boxes, shook, and crates	141.72	141.72	161.38	163.31	-	3.71	3.71	4.17	4.22	-
249	Miscellaneous wood products	169.97	170.43	183.20	183.88	(*)	4.26	4.25	4.58	4.62	(*)
25	FURNITURE AND FIXTURES	165.17	171.83	184.21	181.74	186.84	4.29	4.35	4.64	4.66	4.73
251	Household furniture	154.31	160.70	174.20	170.23	(*)	4.05	4.11	4.41	4.41	(*)
2511	Wood household furniture	147.44	152.43	166.00	163.41	-	3.80	3.83	4.15	4.19	-
2512	Upholstered household furniture	159.53	167.52	180.95	175.01	-	4.30	4.42	4.70	4.63	-
2515	Mattresses and bedsprings	175.41	184.86	199.60	192.73	-	4.69	4.74	4.99	4.98	-
252	Office furniture	199.89	213.90	208.90	206.68	-	4.84	4.94	5.12	5.18	-
254	Partitions and fixtures	204.88	209.09	225.22	222.56	-	5.24	5.28	5.52	5.55	-
263,9	Other furniture and fixtures	183.44	190.48	205.02	208.28	(*)	4.74	4.81	5.23	5.22	(*)
32	STONE, CLAY, AND GLASS PRODUCTS	242.52	244.11	265.64	266.49	264.81	5.83	5.84	6.28	6.33	6.32
321	Flat glass	299.21	299.01	338.48	343.90	-	7.28	7.24	8.04	8.13	-
322	Glass and glassware, pressed or blown	244.42	247.86	265.68	268.92	270.03	6.08	6.09	6.56	6.64	6.57
3221	Glass containers	259.49	263.49	278.66	282.46	-	6.36	6.38	6.83	6.94	-
3229	Pressed and blown glass, nec	222.61	224.64	247.02	249.46	-	5.65	5.63	6.16	6.19	-
324	Cement, hydraulic	348.35	343.40	354.85	365.85	(*)	8.12	8.08	8.53	8.69	(*)
325	Structural clay products	190.24	191.06	214.71	210.12	210.12	4.64	4.66	5.10	5.10	5.10
3251	Brick and structural clay tile	173.47	174.72	191.48	193.16	-	4.16	4.19	4.57	4.61	-
326	Pottery and related products	193.03	194.78	215.72	206.66	-	5.04	5.02	5.42	5.41	-
327	Concrete, gypsum, and plaster products	253.58	254.18	276.25	278.30	276.13	5.75	5.79	6.18	6.24	6.29
328,9	Other stone and nonmetallic mineral products	229.86	232.37	257.23	255.42	(*)	5.62	5.64	6.11	6.14	(*)
3281	Abrasive products	221.13	224.62	246.33	243.41	-	5.57	5.56	5.95	6.04	-

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1977	Aug. 1977	June 1978	July 1978 ^p	Aug. 1978 ^p	July 1977	Aug. 1977	June 1978	July 1978 ^p	Aug. 1978 ^p
—	TOTAL PRIVATE	36.5	36.5	36.3	36.5	36.4	—	—	—	—	—
—	MINING	44.9	44.2	44.1	43.3	43.3	—	—	—	—	—
10	METAL MINING	41.3	40.6	41.4	41.4	—	—	—	—	—	—
101	Iron ores	41.6	44.1	43.9	44.0	—	—	—	—	—	—
102	Copper ores	38.5	37.7	39.8	39.4	—	—	—	—	—	—
11,12	COAL MINING	43.9	41.6	41.3	39.5	—	—	—	—	—	—
12	Bituminous coal and lignite mining	44.0	41.6	41.3	39.6	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION	46.1	46.1	45.8	45.2	—	—	—	—	—	—
131,2	Crude petroleum and natural gas fields	42.3	41.8	41.9	42.5	—	—	—	—	—	—
138	Oil and gas field services	47.8	48.0	47.4	46.3	—	—	—	—	—	—
14	NONMETALLIC MINERALS, EXCEPT FUELS	45.5	45.2	46.6	46.5	—	—	—	—	—	—
142	Crushed and broken stone	46.3	46.3	48.1	48.1	—	—	—	—	—	—
—	CONTRACT CONSTRUCTION	37.8	37.4	37.9	38.3	—	—	—	—	—	—
15	GENERAL BUILDING CONTRACTORS	37.0	36.8	36.7	36.9	—	—	—	—	—	—
16	HEAVY CONSTRUCTION CONTRACTORS	41.6	40.6	42.1	42.6	—	—	—	—	—	—
161	Highway and street construction	42.9	41.6	43.7	44.2	—	—	—	—	—	—
162	Heavy construction, nec	40.5	39.7	40.5	41.2	—	—	—	—	—	—
17	SPECIAL TRADE CONTRACTORS	36.6	36.3	36.8	37.1	—	—	—	—	—	—
171	Plumbing, heating, air conditioning	38.5	38.3	37.9	38.0	—	—	—	—	—	—
172	Painting, paper hanging, decorating	35.0	34.9	34.9	35.5	—	—	—	—	—	—
173	Electrical work	37.7	37.6	38.3	38.4	—	—	—	—	—	—
174	Masonry, stonework, and plastering	33.9	33.7	34.4	34.9	—	—	—	—	—	—
176	Roofing and sheet metal work	33.0	32.3	33.7	34.3	—	—	—	—	—	—
—	MANUFACTURING	40.1	40.3	40.7	40.2	40.3	3.3	3.5	3.5	3.5	3.6
19,24,25, 32-39	DURABLE GOODS	40.6	40.8	41.4	40.8	40.8	3.5	3.6	3.8	3.7	3.8
20-23,26-31	NONDURABLE GOODS	39.3	39.5	39.7	39.5	39.6	3.1	3.3	3.2	3.2	3.4
	DURABLE GOODS										
19	ORDNANCE AND ACCESSORIES	40.0	39.8	41.1	40.1	40.6	2.7	2.6	3.2	2.8	—
192	Ammunition, except for small arms	38.8	39.2	40.2	38.5	(*)	2.4	2.5	2.5	2.4	—
1925	Complete guided missiles	39.3	39.7	40.8	39.0	—	—	—	—	—	—
1929	Ammunition, exc. for small arms, nec.	38.1	38.3	39.1	37.7	—	—	—	—	—	—
24	LUMBER AND WOOD PRODUCTS	40.2	40.1	40.8	40.0	40.2	3.9	4.2	3.9	3.8	—
242	Sawmills and planing mills	40.9	41.1	41.3	40.6	40.7	4.4	4.7	4.5	4.5	—
2421	Sawmills and planing mills, general	41.0	41.3	41.6	40.8	—	—	—	—	—	—
243	Millwork, plywood and related products	40.2	40.1	41.1	40.0	(*)	3.9	4.0	3.5	3.4	—
2431	Millwork	39.3	39.6	39.8	39.4	—	—	—	—	—	—
2432	Veneer and plywood	41.2	41.0	43.9	41.4	—	—	—	—	—	—
244	Wooden containers	38.4	38.5	38.9	39.2	38.9	2.6	3.0	3.1	3.2	—
2441,2	Wooden boxes, shooK, and crates	38.2	38.2	38.7	38.7	—	—	—	—	—	—
249	Miscellaneous wood products	39.9	40.1	40.0	39.8	(*)	3.4	3.6	3.4	3.3	—
25	FURNITURE AND FIXTURES	38.5	39.5	39.7	39.0	39.5	2.1	2.7	2.7	2.4	—
251	Household furniture	38.1	39.1	39.5	38.6	(*)	1.9	2.6	2.6	2.3	—
2511	Wood household furniture	38.8	39.8	40.0	39.0	—	2.3	3.1	3.0	2.7	—
2512	Upholstered household furniture	37.1	37.9	38.5	37.8	—	—	—	—	—	—
2515	Mattresses and bedspings	37.4	39.0	40.0	38.7	—	—	—	—	—	—
252	Office furniture	41.3	43.3	40.8	39.9	—	3.4	3.9	3.5	2.8	—
254	Partitions and fixtures	39.1	39.6	40.8	40.1	—	2.6	2.7	3.3	3.5	—
253,9	Other furniture and fixtures	38.7	39.6	39.2	39.9	(*)	1.5	2.0	2.2	1.4	—
32	STONE, CLAY, AND GLASS PRODUCTS	41.6	41.8	42.3	42.1	41.9	4.9	5.0	5.3	5.3	—
321	Flat glass	41.1	41.3	42.1	42.3	—	6.9	6.8	6.2	6.7	—
322	Glass and glassware, pressed or blown	40.2	40.7	40.5	40.5	41.1	4.2	4.3	4.0	4.1	—
3221	Glass containers	40.8	41.3	40.8	40.7	—	—	—	—	—	—
3229	Pressed and blown glass, nec	39.4	39.9	40.1	40.3	—	3.1	3.3	3.0	3.1	—
324	Cement, hydraulic	42.9	42.5	41.6	42.1	(*)	4.3	4.1	4.0	4.2	—
325	Structural clay products	41.0	41.0	42.1	41.2	41.2	4.3	4.5	4.5	4.5	—
3251	Brick and structural clay tile	41.7	41.7	41.9	41.9	—	—	—	—	—	—
326	Pottery and related products	38.3	38.8	39.8	38.2	—	2.0	2.3	2.5	2.2	—
327	Concrete, gypsum and plaster products	44.1	43.9	44.7	44.6	43.9	7.1	7.0	7.7	7.7	—
328,9	Other stone and nonmetallic mineral products	40.9	41.2	42.1	41.6	(*)	3.8	3.9	4.1	4.0	—
3291	Abrasive products	39.7	40.4	41.4	40.3	—	—	—	—	—	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
	DURABLE GOODS—Continued										
33	PRIMARY METAL INDUSTRIES	\$308.32	\$310.08	\$341.04	\$343.58	\$342.38	\$7.52	\$7.60	\$8.12	\$8.20	\$8.25
331	Blast furnace and basic steel products	348.84	350.47	385.73	391.95	(*)	8.55	8.74	9.25	9.31	(*)
3312	Blast furnaces and steel mills	356.94	358.70	395.20	402.06	—	8.77	8.99	9.50	9.55	—
332	Iron and steel foundries	277.28	275.63	306.98	301.71	(*)	6.73	6.69	7.24	7.27	(*)
3321	Gray iron foundries	289.95	289.49	312.60	312.99	—	6.92	6.86	7.39	7.47	—
3322	Malleable iron foundries	272.84	284.09	313.75	285.29	—	7.05	7.12	7.69	7.41	—
3323	Steel foundries	244.42	238.55	289.39	278.05	—	6.08	6.07	6.73	6.70	—
333,4	Nonferrous metals	307.52	302.50	343.09	346.88	348.89	7.41	7.36	8.13	8.22	8.19
3334	Primary aluminum	351.54	346.94	393.13	388.03	—	8.35	8.32	9.25	9.13	—
335	Nonferrous rolling and drawing	276.54	279.12	308.16	306.25	306.25	6.60	6.63	7.20	7.24	7.24
3351	Copper rolling and drawing	266.28	279.91	298.32	285.44	—	6.31	6.42	6.78	6.78	—
3352	Aluminum rolling and drawing	304.45	304.43	346.63	344.59	—	7.13	7.18	8.08	8.07	—
3357	Nonferrous wire drawing and insulating	263.30	260.80	282.49	283.98	—	6.36	6.33	6.71	6.81	—
336	Nonferrous foundries	227.05	232.72	251.13	249.08	(*)	5.62	5.69	6.14	6.15	(*)
3361	Aluminum castings	234.67	239.78	261.58	259.84	—	5.78	5.82	6.38	6.40	—
3362,9	Other nonferrous castings	216.14	223.16	236.87	234.95	—	5.39	5.51	5.82	5.83	—
339	Miscellaneous primary metal products	277.09	289.87	310.90	312.57	(*)	6.91	7.07	7.42	7.55	(*)
3391	Iron and steel forgings	290.43	312.98	332.48	336.42	—	7.39	7.56	7.86	8.01	—
34	FABRICATED METAL PRODUCTS	237.10	240.67	257.51	253.13	257.26	5.84	5.87	6.22	6.25	6.29
341	Metal cans	353.57	347.59	367.13	379.23	372.61	7.62	7.69	8.25	8.39	8.43
342	Cutlery, hand tools, and hardware	220.25	228.17	242.79	236.22	(*)	5.52	5.62	5.98	5.95	(*)
3421,3,5	Cutlery and hand tools, incl. saws	205.93	205.77	223.01	215.36	—	5.11	5.17	5.52	5.48	—
3429	Hardware, nec	229.28	242.90	256.00	250.80	—	5.79	5.91	6.29	6.27	—
343	Plumbing and heating, except electric	200.72	204.10	223.36	221.43	(*)	5.20	5.22	5.57	5.62	(*)
3431,2	Sanitary ware and plumbers' brass goods	193.36	201.84	226.80	223.51	—	5.17	5.27	5.67	5.63	—
3433	Heating equipment, except electric	208.15	206.68	220.70	219.74	—	5.23	5.18	5.49	5.62	—
344	Fabricated structural metal products	227.53	233.54	245.21	241.79	244.40	5.66	5.71	6.01	6.06	6.11
3441	Fabricated structural steel	247.25	252.95	263.49	253.20	—	6.06	6.11	6.38	6.41	—
3442	Metal doors, sash, and trim	173.82	182.11	191.35	192.96	—	4.48	4.53	4.82	4.91	—
3443	Fabricated plate work (boiler shops)	242.53	251.69	266.18	261.09	—	6.14	6.23	6.54	6.56	—
3444	Sheet metal work	233.74	238.10	251.53	251.77	—	5.80	5.85	6.18	6.31	—
3446,9	Architectural and misc. metal work	227.34	239.32	239.67	236.24	—	5.40	5.46	5.72	5.72	—
345	Screw machine products, bolts, etc	232.96	240.41	257.66	253.08	(*)	5.60	5.67	6.02	6.04	(*)
3451	Screw machine products	221.73	228.65	243.10	241.60	—	5.33	5.38	5.72	5.78	—
3452	Bolts, nuts, rivets, and washers	245.20	253.13	274.32	266.49	—	5.88	5.97	6.35	6.33	—
346	Metal stampings	278.80	278.62	303.96	298.29	(*)	6.80	6.73	7.22	7.24	(*)
347	Metal services, nec	186.52	189.85	200.24	196.81	(*)	4.71	4.77	4.92	4.97	(*)
348	Miscellaneous fabricated wire products	198.50	203.52	219.76	219.24	223.97	5.00	5.05	5.36	5.40	5.41
349	Miscellaneous fabricated metal products	233.11	235.65	258.13	252.13	256.25	5.77	5.79	6.22	6.21	6.25
3494,8	Valves, pipe, and pipe fittings	237.92	242.26	262.50	253.31	—	5.86	5.88	6.28	6.27	—
35	MACHINERY, EXCEPT ELECTRICAL	253.59	257.72	280.63	274.39	278.72	6.17	6.21	6.65	6.66	6.70
351	Engines and turbines	301.91	316.20	317.52	320.74	321.60	7.24	7.44	7.84	7.90	8.00
3511	Steam engines and turbines	268.88	275.77	266.32	275.71	—	6.79	6.86	6.99	7.18	—
3519	Internal combustion engines, nec	316.52	333.65	337.00	339.06	—	7.43	7.67	8.14	8.17	—
352	Farm machinery	264.55	266.74	293.64	227.38	—	6.50	6.49	7.11	7.04	—
353	Construction and related machinery	268.46	277.31	303.84	291.82	(*)	6.58	6.65	7.20	7.17	(*)
3531,2	Construction and mining machinery	287.83	297.46	328.64	312.44	—	7.16	7.22	7.90	7.87	—
3533	Oil field machinery	261.94	272.18	282.09	272.85	—	6.12	6.20	6.47	6.42	—
3535,6	Conveyors, hoists, cranes, monorails	242.72	249.23	276.22	275.22	—	5.92	6.02	6.53	6.60	—
3537	Industrial trucks and tractors	226.76	230.40	268.09	261.14	—	5.77	5.76	6.46	6.48	—
354	Metal working machinery	272.00	274.56	301.78	296.70	299.38	6.40	6.43	6.89	6.90	6.93
3541	Machine tools, metal cutting types	282.96	288.64	322.08	310.27	—	6.55	6.56	7.11	7.10	—
3544	Special dies, tools, jigs and fixtures	293.19	295.85	321.18	319.44	—	6.74	6.77	7.25	7.26	—
3545	Machine tool accessories	248.95	250.80	274.68	268.82	—	5.97	6.00	6.30	6.34	—
3542,8	Miscellaneous metal working machinery	237.74	240.17	267.10	261.76	—	5.87	5.93	6.39	6.40	—
355	Special industry machinery	235.71	238.50	261.46	256.19	257.86	5.82	5.86	6.27	6.31	6.32
3551	Food products machinery	247.23	249.67	272.41	272.65	—	6.15	6.18	6.58	6.65	—
3552	Textile machinery	191.84	197.96	212.79	201.33	—	4.82	4.84	5.19	5.11	—
3555	Printing trades machinery	244.59	245.57	271.58	256.80	—	6.13	6.17	6.39	6.42	—
356	General industrial machinery	251.53	257.09	275.31	270.54	274.44	6.18	6.24	6.65	6.68	6.71
3561	Pumps and compressors	248.06	256.89	280.43	275.00	—	6.14	6.22	6.79	6.79	—
3562	Ball and roller bearings	260.00	263.55	277.64	272.80	—	6.25	6.29	6.69	6.67	—
3564	Blowers and fans	233.51	242.86	251.31	249.67	—	5.78	5.81	6.19	6.18	—
3566	Power transmission equipment	252.14	258.52	282.74	281.52	—	6.18	6.29	6.70	6.80	—
357	Office and computing machines	222.09	221.40	238.85	234.06	(*)	5.43	5.40	5.66	5.64	(*)
3573	Electronic computing equipment	228.53	229.22	240.83	235.31	—	5.52	5.51	5.68	5.67	—
358	Service industry machines	219.85	224.64	250.20	250.88	246.63	5.58	5.63	6.00	6.06	6.03
3585	Refrigeration machinery	217.67	224.93	254.75	257.49	—	5.61	5.68	6.08	6.16	—
359	Miscellaneous machinery, except electrical	244.85	245.50	272.21	267.03	270.03	5.90	5.93	6.42	6.45	6.46

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
DURABLE GOODS—Continued											
33	PRIMARY METAL INDUSTRIES	41.0	40.8	42.0	41.9	41.5	3.7	3.6	4.2	4.3	—
331	Blast furnance and basic steel products	40.8	40.1	41.7	42.1	(*)	3.0	2.7	3.3	3.7	—
3312	Blast furnaces and steel mills	40.7	39.9	41.6	42.1	—	3.0	2.6	3.2	3.7	—
332	Iron and steel foundries	41.2	41.2	42.4	41.5	(*)	4.5	4.7	5.1	4.9	—
3321	Gray iron foundries	41.9	42.2	42.3	41.9	—	5.2	5.4	5.4	5.7	—
3322	Malleable iron foundries	38.7	39.9	40.8	38.5	—	—	—	—	—	—
3323	Steel foundries	40.2	39.3	43.0	41.5	—	3.2	3.4	4.6	3.6	—
333,4	Nonferrous metals	41.5	41.1	42.2	42.2	42.6	3.9	3.6	4.1	4.2	—
3334	Primary aluminum	42.1	41.7	42.5	42.5	—	—	—	—	—	—
335	Nonferrous rolling and drawing	41.9	42.1	42.8	42.3	42.3	4.9	4.9	5.7	5.4	—
3351	Copper rolling and drawing	42.2	43.6	44.0	42.1	—	—	—	—	—	—
3352	Aluminum rolling and drawing	42.7	42.4	42.9	42.7	—	6.6	6.2	6.2	6.4	—
3357	Nonferrous wire drawing and insulating ..	41.4	41.2	42.1	41.7	—	4.2	4.1	4.8	4.6	—
336	Nonferrous foundries	40.4	40.9	40.9	40.5	(*)	3.3	3.7	3.6	3.5	—
3361	Aluminum castings	40.6	41.2	41.0	40.6	—	—	—	—	—	—
3362,9	Other nonferrous castings	40.1	40.5	40.7	40.3	—	—	—	—	—	—
339	Miscellaneous primary metal products	40.1	41.0	41.9	41.4	(*)	3.7	4.3	5.0	5.2	—
3391	Iron and steel forgings	39.3	44.4	42.3	42.0	—	—	—	—	—	—
34	FABRICATED METAL PRODUCTS	40.6	41.0	41.4	40.5	40.9	3.6	3.8	3.7	3.6	—
341	Metal cans	46.4	45.2	44.5	45.2	44.2	5.3	5.1	4.5	5.2	—
342	Cutlery, hand tools, and hardware	39.9	40.6	40.6	39.7	(*)	2.7	3.4	3.2	2.9	—
3421,3,5	Cutlery and hand tools, incl. saws	40.3	39.8	40.4	39.3	—	—	—	—	—	—
3429	Hardware, nec	39.6	41.1	40.7	40.0	—	—	—	—	—	—
343	Plumbing and heating, except electric	38.6	39.1	40.1	39.4	(*)	2.5	2.5	2.9	2.5	—
3431,2	Sanitary ware and plumbers' brass goods ..	37.4	38.3	40.0	39.7	—	—	—	—	—	—
3433	Heating equipment, except electric	39.8	39.9	40.2	39.1	—	—	—	—	—	—
344	Fabricated structural metal products	40.2	40.9	40.8	39.9	40.0	3.4	3.6	3.3	3.3	—
3441	Fabricated structural steel	40.8	41.4	41.3	39.5	—	3.3	3.5	3.4	3.3	—
3442	Metal doors, sash, and trim	38.8	40.2	39.7	39.3	—	—	—	—	—	—
3443	Fabricated plate work (boiler shops)	39.5	40.4	40.7	39.8	—	3.1	3.4	3.2	2.8	—
3444	Sheet metal work	40.3	40.7	40.7	39.9	—	—	—	—	—	—
3446,9	Architectural and misc. metal work	42.1	42.0	41.9	41.3	—	—	—	—	—	—
345	Screw machine products, bolts, etc	41.6	42.4	42.8	41.9	(*)	4.1	4.8	5.2	4.9	—
3451	Screw machine products	41.6	42.5	42.5	41.8	—	—	—	—	—	—
3452	Bolts, nuts, rivets, and washers	41.7	42.4	43.2	42.1	—	—	—	—	—	—
346	Metal stampings	41.0	41.4	42.1	41.2	(*)	5.0	4.4	4.6	4.3	—
347	Metal services, nec	39.6	39.8	40.7	39.6	(*)	3.1	3.4	3.6	3.2	—
348	Miscellaneous fabricated wire products	39.7	40.3	41.0	40.6	41.4	2.5	2.9	3.0	3.1	—
349	Miscellaneous fabricated metal products	40.4	40.7	41.5	40.6	41.0	3.3	3.4	3.6	3.3	—
3494,8	Valves, pipe, and pipe fittings	40.6	41.2	41.8	40.4	—	—	—	—	—	—
35	MACHINERY, EXCEPT ELECTRICAL	41.1	41.5	42.2	41.2	41.6	3.6	3.9	4.0	3.8	—
351	Engines and turbines	41.7	42.5	40.5	40.6	40.2	3.8	4.0	3.3	3.9	—
3511	Steam engines and turbines	39.6	40.2	38.1	38.4	—	—	—	—	—	—
3519	Internal combustion engines, nec	42.6	43.5	41.4	41.5	—	—	—	—	—	—
352	Farm machinery	40.7	41.1	41.3	39.4	—	3.6	3.9	3.2	2.7	—
353	Construction and related machinery	40.8	41.7	42.2	40.7	(*)	2.9	3.4	3.7	3.6	—
3531,2	Construction and mining machinery	40.2	41.2	41.6	39.7	—	2.3	2.6	2.9	2.8	—
3533	Oil field machinery	42.8	43.9	43.6	42.5	—	—	—	—	—	—
3535,6	Conveyors, hoists, cranes, monorails	41.0	41.4	42.3	41.7	—	—	—	—	—	—
3537	Industrial trucks and tractors	39.3	40.0	41.5	40.3	—	—	—	—	—	—
354	Metal working machinery	42.5	42.7	43.8	43.0	43.2	4.9	5.2	5.5	5.1	—
3541	Machine tools, metal cutting types	43.2	44.0	45.3	43.7	—	4.9	5.4	6.4	5.4	—
3544	Special dies, tools, jig and fixtures	43.5	43.7	44.3	44.0	—	—	—	—	—	—
3545	Machine tool accessories	41.7	41.8	43.6	42.4	—	4.1	4.0	4.4	4.2	—
3542,8	Miscellaneous metal working machinery ..	40.5	40.5	41.8	40.9	—	—	—	—	—	—
355	Special industry machinery	40.5	40.7	41.7	40.6	40.8	3.1	3.5	3.9	3.5	—
3551	Food products machinery	40.2	40.4	41.4	41.0	—	—	—	—	—	—
3552	Textile machinery	39.8	40.9	41.0	39.4	—	—	—	—	—	—
3555	Printing trades machinery	39.9	39.8	42.5	40.0	—	—	—	—	—	—
356	General industrial machinery	40.7	41.2	41.4	40.5	40.9	3.5	3.8	3.9	3.7	—
3561	Pumps and compressors	40.4	41.3	41.3	40.5	—	3.8	4.3	3.9	3.6	—
3562	Ball and roller bearings	41.6	41.9	41.5	40.9	—	4.1	4.1	4.7	4.6	—
3564	Blowers and fans	40.4	41.8	40.6	40.4	—	—	—	—	—	—
3566	Power transmission equipment	40.8	41.1	42.2	41.4	—	3.5	4.0	4.1	4.1	—
357	Office and computing machines	40.9	41.0	42.2	41.5	(*)	2.7	2.8	3.2	2.7	—
3573	Electronic computing equipment	41.4	41.6	42.4	41.5	—	—	—	—	—	—
358	Service industry machines	39.4	39.9	41.7	41.4	40.9	2.7	2.9	3.0	2.9	—
3585	Refrigeration machinery	38.8	39.6	41.9	41.8	—	2.6	2.9	3.1	3.1	—
359	Miscellaneous machinery, except electrical ..	41.5	41.4	42.4	41.4	41.8	4.1	4.2	4.5	4.3	—

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers ¹
on private nonagricultural payrolls, by industry—Continued**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
DURABLE GOODS—Continued											
36	ELECTRICAL EQUIPMENT AND SUPPLIES	\$211.46	\$217.08	\$231.09	\$231.42	\$232.80	\$5.34	\$5.40	\$5.72	\$5.80	\$5.82
361	Electric test and distributing equipment	219.35	218.95	235.17	234.04	(*)	5.47	5.46	5.85	5.91	(*)
3611	Electric measuring instruments	210.01	214.12	229.96	226.33	—	5.29	5.38	5.65	5.63	—
3612	Transformers	213.27	212.79	234.27	238.21	—	5.24	5.19	5.70	5.81	—
3613	Switchgear and switchboard apparatus	231.38	228.05	239.85	239.27	—	5.77	5.73	6.15	6.28	—
362	Electrical industrial apparatus	217.20	218.55	236.29	239.36	237.79	5.43	5.45	5.82	5.91	5.93
3621	Motors and generators	226.80	226.80	239.98	247.25	—	5.60	5.60	5.94	6.06	—
3622	Industrial controls	192.65	196.33	217.40	219.13	—	5.03	5.06	5.49	5.59	—
363	Household appliances	207.23	215.20	228.17	228.89	230.98	5.30	5.38	5.69	5.78	5.76
3632	Household refrigerators and freezers	233.50	246.53	249.08	247.16	—	5.64	5.72	6.09	6.21	—
3633	Household laundry equipment	230.14	237.63	261.86	277.02	—	6.22	6.32	6.68	6.84	—
3634	Electric housewares and fans	169.34	178.30	193.52	190.61	—	4.48	4.56	4.85	4.85	—
364	Electric lighting and wiring equipment	198.86	203.66	223.86	220.25	(*)	5.06	5.13	5.46	5.52	(*)
3641	Electric lamps	212.51	220.59	238.45	240.60	—	5.38	5.42	5.83	6.03	—
3642	Lighting fixtures	200.60	205.41	223.02	222.69	—	5.17	5.24	5.70	5.71	—
3643,4	Wiring devices	191.58	194.34	215.37	209.79	—	4.85	4.92	5.14	5.18	—
365	Radio and TV receiving equipment	181.74	194.72	205.74	213.62	212.78	4.77	4.98	5.33	5.52	5.47
366	Communication equipment	245.43	251.71	261.63	260.25	(*)	6.06	6.08	6.46	6.49	(*)
3661	Telephone and telegraph apparatus	251.33	257.71	260.29	255.19	—	6.13	6.18	6.54	6.51	—
3662	Radio and TV communication equipment	240.60	246.60	263.04	264.38	—	6.00	6.00	6.40	6.48	—
367	Electronic components and accessories	174.09	178.42	194.81	194.71	(*)	4.51	5.54	4.81	4.88	(*)
3671-3	Electron tubes	231.74	241.26	256.85	254.82	—	5.68	5.69	6.13	6.17	—
3674,8	Other electronic components	166.61	170.38	186.99	186.99	—	4.35	4.38	4.64	4.71	—
369	Miscellaneous electrical equip. and supplies	257.29	269.86	268.62	271.89	(*)	6.26	6.41	6.60	6.73	(*)
3694	Engine electrical equipment	284.96	304.99	296.93	301.51	—	6.85	7.06	7.26	7.39	—
37	TRANSPORTATION EQUIPMENT	301.73	294.35	322.91	321.51	312.07	7.15	7.11	7.67	7.71	7.63
371	Motor vehicles and equipment	349.53	334.77	368.86	367.60	(*)	7.89	7.84	8.46	8.47	(*)
3711	Motor vehicles	370.92	349.32	396.94	388.51	—	8.17	8.20	8.90	8.87	—
3712	Passenger car bodies	374.11	343.66	366.37	370.89	—	8.95	9.14	9.37	9.51	—
3713	Truck and bus bodies	253.79	246.44	271.34	269.74	—	6.19	6.10	6.57	6.71	—
3714	Motor vehicle parts and accessories	347.85	339.74	368.36	372.20	—	7.87	7.81	8.41	8.44	—
3715	Truck trailers	210.54	213.06	227.86	220.57	—	5.33	5.30	5.64	5.57	—
372	Aircraft and parts	285.80	286.34	310.80	312.66	(*)	6.92	6.95	7.40	7.48	(*)
3721	Aircraft	295.65	297.02	315.09	318.86	—	7.09	7.14	7.52	7.61	—
3722	Aircraft engines and engine parts	283.91	280.10	316.30	320.02	—	7.01	7.02	7.64	7.73	—
3723,9	Other aircraft parts and equipment	267.49	270.26	293.18	288.96	—	6.43	6.45	6.85	6.88	—
373	Ship and boat building and repairing	230.23	229.36	(*)	(*)	(*)	5.98	6.02	(*)	(*)	(*)
3731	Ship building and repairing	244.22	243.08	(*)	(*)	(*)	6.36	6.38	(*)	(*)	(*)
3732	Boat building and repairing	182.36	182.69	(*)	(*)	(*)	4.70	4.77	(*)	(*)	(*)
374	Railroad equipment	296.87	300.92	323.95	(*)	(*)	7.33	7.43	7.94	(*)	(*)
375,9	Other transportation equipment	179.88	190.56	202.01	197.40	—	4.66	4.80	5.22	5.25	—
38	INSTRUMENTS AND RELATED PRODUCTS	207.48	208.92	226.44	225.12	222.56	5.20	5.21	5.55	5.60	5.55
381	Engineering and scientific instruments	218.90	226.03	248.39	243.17	—	5.50	5.54	5.90	5.96	—
382	Mechanical measuring and control devices	203.71	204.97	224.11	222.56	(*)	5.08	5.15	5.52	5.55	(*)
3821	Mechanical measuring devices	211.01	211.17	233.23	231.34	—	5.21	5.24	5.62	5.67	—
3822	Automatic temperature controls	191.39	195.50	208.54	208.26	—	4.87	5.00	5.32	5.34	—
383,5	Optical and ophthalmic goods	185.07	186.06	201.29	205.44	(*)	4.65	4.64	4.97	5.06	(*)
385	Ophthalmic goods	166.02	165.36	177.51	178.48	—	4.29	4.24	4.54	4.60	—
384	Medical instruments and supplies	177.10	181.70	194.49	193.26	(*)	4.60	4.60	4.85	4.93	(*)
386	Photographic equipment and supplies	271.58	272.00	290.93	287.45	(*)	6.56	6.57	6.96	6.96	(*)
387	Watches, clocks, and watchcases	169.55	162.21	174.24	171.65	—	4.26	4.17	4.40	4.39	—
39	MISC. MANUFACTURING INDUSTRIES	165.84	168.00	181.42	179.33	181.81	4.33	4.33	4.64	4.67	4.71
391	Jewelry, silverware, and plated ware	172.54	174.99	184.00	180.40	(*)	4.47	4.51	4.73	4.76	(*)
394	Toys and sporting goods	151.93	152.83	166.66	165.19	—	4.03	3.98	4.34	4.37	—
3941-3	Games, toys, dolls and play vehicles	143.46	144.38	158.46	154.84	—	3.84	3.76	4.17	4.14	—
3949	Sporting and athletic goods, nec	162.39	164.44	175.38	175.72	—	4.24	4.26	4.52	4.60	—
395	Pens, pencils, office and art supplies	168.44	175.20	200.16	201.28	—	4.33	4.38	4.80	4.85	—
396	Costume jewelry and notions	142.88	143.99	155.07	150.02	—	3.81	3.85	4.07	4.11	—
393,9	Other manufacturing industries	180.81	183.14	195.13	193.33	(*)	4.66	4.66	4.94	4.97	(*)
393	Musical instruments and parts	167.51	173.32	181.20	179.66	—	4.23	4.29	4.53	4.56	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	213.33	216.01	227.48	231.60	232.58	5.32	5.36	5.73	5.79	5.80
201	Meat products	213.19	214.12	222.09	231.82	231.82	5.37	5.38	5.68	5.81	5.81
2011	Meat packing plants	264.68	264.68	275.77	292.45	—	6.44	6.44	6.86	7.03	—
2013	Sausages and other prepared meats	256.96	257.11	268.40	275.81	—	6.44	6.46	6.66	6.81	—
2015	Poultry dressing plants	132.65	135.23	141.74	145.15	—	3.50	3.54	3.80	3.84	—

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1977	Aug. 1977	June 1978	July 1978 ^p	Aug. 1978 ^p	July 1977	Aug. 1977	June 1978	July 1978 ^p	Aug. 1978 ^p
DURABLE GOODS—Continued											
36	ELECTRICAL EQUIPMENT AND SUPPLIES	39.6	40.2	40.4	39.9	40.0	2.3	2.7	2.7	2.6	—
361	Electric test and distributing equipment	40.1	40.1	40.2	39.6	(*)	2.6	2.2	2.3	2.4	—
3611	Electric measuring instruments	39.7	39.8	40.7	40.2	—	2.1	2.0	2.0	1.6	—
3612	Transformers	40.7	41.0	41.1	41.0	—	—	—	—	—	—
3613	Switchgear and switchboard apparatus	40.1	39.8	39.0	38.1	40.1	—	—	—	—	—
362	Electrical industrial apparatus	40.0	40.1	40.6	40.5	—	2.7	2.8	2.8	2.8	—
3621	Motors and generators	40.5	40.5	40.4	40.8	—	3.3	3.1	2.9	3.2	—
3622	Industrial controls	38.3	38.8	39.6	39.2	—	1.6	1.8	2.1	1.8	—
363	Household appliances	39.1	40.0	40.1	39.6	40.1	1.7	2.6	2.4	2.0	—
3632	Household refrigerators and freezers	41.4	43.1	40.9	39.8	—	—	—	—	—	—
3633	Household laundry equipment	37.0	37.6	39.2	40.5	—	—	—	—	—	—
3634	Electric housewares and fans	37.8	39.1	39.9	39.3	—	1.2	2.6	2.7	1.9	—
364	Electric lighting and wiring equipment	39.3	39.7	41.0	39.9	(*)	2.0	2.3	2.9	2.5	—
3641	Electric lamps	39.5	40.7	40.9	39.9	—	1.5	2.0	2.2	1.7	—
3642	Lighting fixtures	38.8	39.2	39.6	39.0	—	2.0	2.4	2.8	2.6	—
3643,4	Wiring devices	39.5	39.5	41.9	40.5	—	2.1	2.3	3.3	2.8	—
365	Radio and TV receiving equipment	38.1	39.1	38.6	38.7	38.9	1.5	2.0	2.0	2.0	—
366	Communication equipment	40.5	41.4	40.5	40.1	(*)	2.2	2.7	2.9	2.8	—
3661	Telephone and telegraph apparatus	41.0	41.7	39.8	39.2	—	—	—	—	—	—
3662	Radio and TV communication equipment	40.1	41.1	41.1	40.8	—	2.5	2.6	2.7	3.0	—
367	Electronic components and accessories	38.6	39.3	40.5	39.9	(*)	2.2	2.3	2.6	2.4	—
3671-3	Electron tubes	40.8	42.4	41.9	41.3	—	2.2	2.2	3.1	2.3	—
3674,9	Other electronic components	38.3	38.9	40.3	39.7	—	2.2	2.3	2.6	2.4	—
369	Miscellaneous electrical equip. and supplies	41.1	42.1	40.7	40.4	(*)	3.6	5.2	3.4	3.5	—
3694	Engine electrical equipment	41.6	43.2	40.9	40.8	—	—	—	—	—	—
37	TRANSPORTATION EQUIPMENT	42.2	41.4	42.1	41.7	40.9	5.0	4.6	4.8	4.8	—
371	Motor vehicles and equipment	44.3	42.7	43.6	43.4	(*)	6.7	6.0	6.2	6.0	—
3711	Motor vehicles	45.4	42.6	44.6	43.8	—	6.9	6.1	6.6	6.0	—
3712	Passenger car bodies	41.8	37.6	39.1	39.0	—	—	—	—	—	—
3713	Truck and bus bodies	41.0	40.4	41.3	40.2	—	—	—	—	—	—
3714	Motor vehicle parts and accessories	44.2	43.5	43.8	44.1	—	7.0	6.3	6.3	6.5	—
3715	Truck trailers	39.5	40.2	40.4	39.6	—	—	—	—	—	—
372	Aircraft and parts	41.3	41.2	42.0	41.8	(*)	3.3	3.4	3.9	4.1	—
3721	Aircraft	41.7	41.6	41.9	41.9	—	2.6	2.8	3.2	3.3	—
3722	Aircraft engines and engine parts	40.5	39.9	41.4	41.4	—	3.8	3.8	4.4	4.8	—
3723,9	Other aircraft parts and equipment	41.6	41.9	42.8	42.0	—	4.2	4.3	4.9	4.8	—
373	Ship and boat building and repairing	38.5	38.1	(*)	(*)	(*)	2.8	2.7	(*)	(*)	—
3731	Ship building and repairing	38.4	38.1	(*)	(*)	—	—	—	—	—	—
3732	Boat building and repairing	38.8	38.3	(*)	(*)	—	—	—	—	—	—
374	Railroad equipment	40.5	40.5	40.8	(*)	—	3.2	3.2	3.4	(*)	—
375,9	Other transportation equipment	38.6	39.7	38.7	37.6	—	2.5	2.9	2.7	2.2	—
38	INSTRUMENTS AND RELATED PRODUCTS	39.9	40.1	40.8	40.2	40.1	2.0	2.2	2.5	2.3	—
381	Engineering and scientific instruments	39.8	40.8	42.1	40.8	—	2.5	2.8	2.9	2.9	—
382	Mechanical measuring and control devices	40.1	39.8	40.6	40.1	(*)	2.3	2.5	2.5	2.3	—
3821	Mechanical measuring devices	40.5	40.3	41.5	40.8	—	2.7	2.5	3.0	2.8	—
3822	Automatic temperature controls	39.3	39.1	39.2	39.0	—	1.8	2.4	1.6	1.6	—
383,5	Optical and ophthalmic goods	39.8	40.1	40.5	40.6	(*)	1.4	1.8	2.3	2.0	—
385	Ophthalmic goods	38.7	39.0	39.1	38.8	—	1.2	1.4	1.7	1.4	—
384	Medical instruments and supplies	38.5	39.5	40.1	39.2	(*)	1.7	2.1	2.1	2.0	—
386	Photographic equipment and supplies	41.4	41.4	41.8	41.3	(*)	2.4	2.4	3.2	2.7	—
387	Watches, clocks, and watch cases	39.8	38.9	39.6	39.1	—	1.5	1.5	1.8	1.3	—
39	MISC. MANUFACTURING INDUSTRIES	38.3	38.8	39.1	38.4	38.6	1.5	2.0	2.1	1.8	—
391	Jewelry, silverware, and plated ware	38.6	38.8	38.9	37.9	(*)	1.4	2.1	2.2	1.2	—
394	Toys and sporting goods	37.7	38.4	38.4	37.8	—	1.0	1.6	1.4	1.3	—
3941-3	Games, toys, dolls and play vehicles	37.1	38.4	38.0	37.4	—	—	—	—	—	—
3949	Sporting and athletic goods, nec	38.3	38.6	38.8	38.2	—	—	—	—	—	—
395	Pens, pencils, office and art supplies	38.9	40.0	41.7	41.5	—	2.2	3.0	3.0	3.1	—
396	Costume jewelry and notions	37.5	37.4	38.1	36.5	—	1.0	1.5	2.3	1.4	—
393,9	Other manufacturing industries	38.8	39.3	39.5	38.9	(*)	2.0	2.3	2.4	2.0	—
393	Musical instruments and parts	39.6	40.4	40.0	39.4	—	1.1	2.0	2.2	1.2	—
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	40.1	40.3	39.7	40.0	40.1	4.0	4.4	3.7	4.1	—
201	Meat products	39.7	39.8	39.1	39.9	39.9	3.8	3.8	3.2	3.9	—
2011	Meat packing plants	41.1	41.1	40.2	41.6	—	4.3	4.2	3.6	4.7	—
2013	Sausages and other prepared meats	39.9	39.8	40.3	40.5	—	—	—	—	—	—
2015	Poultry dressing plants	37.9	38.2	37.3	37.8	—	—	—	—	—	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—Continued										
202	Dairy products	\$227.76	\$225.35	\$238.98	\$243.34	\$238.14	\$5.26	\$5.29	\$5.69	\$5.78	\$5.78
2024	Ice cream and frozen desserts	224.30	219.42	242.78	247.95	—	5.29	5.30	5.62	5.70	—
2026	Fluid milk	239.15	237.70	245.70	252.45	—	5.35	5.39	5.85	5.94	—
203	Canned, cured, and frozen foods	172.67	190.21	183.52	186.50	—	4.58	4.84	4.96	5.00	—
2031,6	Canned, cured, and frozen sea foods	143.38	150.23	155.01	153.11	—	4.12	4.15	4.48	4.49	—
2032,3	Canned food, except sea foods	184.30	204.97	197.32	196.94	—	4.75	5.15	5.29	5.28	—
2037	Frozen fruits and vegetables	157.16	169.34	174.46	181.50	—	4.39	4.32	4.64	4.84	—
204	Grain mill products	250.97	250.85	266.36	275.44	278.65	5.73	5.78	6.18	6.26	6.29
2041	Flour and other grain mill products	272.78	277.84	289.08	303.52	—	5.93	6.04	6.57	6.73	—
2042	Prepared feeds for animals and fowls	206.97	203.89	223.82	231.32	—	4.78	4.82	5.11	5.21	—
205	Bakery products	218.44	218.12	231.27	232.83	(*)	5.53	5.55	5.93	5.97	(*)
2051	Bread, cake, and related products	218.44	217.56	232.05	234.78	—	5.53	5.55	5.95	6.02	—
2052	Cookies and crackers	219.94	221.84	230.30	228.14	—	5.54	5.56	5.89	5.82	—
206	Sugar	251.69	257.22	276.34	281.79	—	6.23	2.32	6.74	6.79	—
207	Confectionery and related products	188.86	195.91	202.01	208.15	(*)	4.88	4.91	5.22	5.31	(*)
2071	Confectionery products	179.33	184.71	187.23	199.36	—	4.67	4.70	4.94	5.06	—
208	Beverages	264.55	261.94	278.94	280.44	275.93	6.39	6.42	6.82	6.84	6.83
2082	Malt liquors	373.67	260.40	393.12	398.27	—	8.59	8.52	9.36	9.46	—
2086	Bottled and canned soft drinks	198.17	196.83	213.20	215.17	—	4.81	4.86	5.20	5.16	—
209	Miscellaneous foods and kindred products	210.01	210.53	227.01	229.07	225.28	5.16	5.16	5.51	5.56	5.59
21	TOBACCO MANUFACTURES	205.62	206.88	266.99	237.90	229.28	5.68	5.43	6.56	6.50	6.18
211	Cigarettes	236.38	260.16	315.42	273.02	—	6.64	6.74	7.51	7.48	—
212	Cigars	130.03	136.00	131.63	129.50	—	3.36	3.40	3.51	3.50	—
22	TEXTILE MILL PRODUCTS	161.20	163.62	170.94	172.00	176.11	4.02	4.05	4.20	4.30	4.37
221	Weaving mills, cotton	171.28	172.06	175.03	181.35	(*)	4.25	4.28	4.29	4.50	(*)
222	Weaving mills, synthetics	176.34	175.44	183.10	191.44	194.92	4.28	4.30	4.37	4.58	4.63
223	Weaving and finishing mills, wool	161.20	166.04	180.09	176.58	174.90	4.04	4.11	4.35	4.36	4.34
224	Narrow fabric mills	147.20	148.23	157.59	158.80	157.99	3.68	3.66	3.93	3.99	4.01
225	Knitting mills	142.45	146.23	155.23	152.40	157.55	3.70	3.74	3.97	4.00	4.05
2251	Women's hosiery, except socks	126.88	132.06	143.86	148.90	—	3.42	3.43	3.67	3.76	—
2252	Hosiery, nec	131.75	136.46	141.34	138.38	—	3.44	3.49	3.70	3.72	—
2253	Knit outerwear mills	137.26	141.78	147.77	145.76	—	3.67	3.73	3.93	3.95	—
2254	Knit underwear mills	128.71	131.17	145.86	138.38	—	3.46	3.47	3.74	3.70	—
226	Textile finishing, except wool	169.03	177.96	188.10	188.33	(*)	4.29	4.33	4.50	4.56	(*)
227	Floor covering mills	175.13	182.71	186.04	181.52	—	4.15	4.21	4.44	4.46	—
228	Yarn and thread mills	155.80	157.41	163.56	166.05	167.66	3.80	3.83	3.97	4.09	4.15
229	Miscellaneous textile goods	178.27	179.52	192.05	189.45	197.69	4.38	4.40	4.65	4.76	4.81
23	APPAREL AND OTHER TEXTILE PRODUCTS	127.09	129.60	141.51	140.73	141.81	3.59	3.62	3.92	3.92	3.95
231	Men's and boys' suits and coats	160.38	161.64	172.43	177.18	(*)	4.48	4.49	4.83	4.75	(*)
232	Men's and boys' furnishings	116.60	117.98	129.58	128.16	128.88	3.23	3.25	3.56	3.57	3.57
2321	Men's and boys' shirts and nightwear	113.49	113.17	127.94	126.64	—	3.17	3.17	3.43	3.46	—
2327	Men's and boys' separate trousers	116.93	117.72	130.68	128.47	—	3.23	3.27	3.64	3.66	—
2328	Men's and boys' work clothing	115.71	118.99	123.90	123.55	—	3.17	3.19	3.51	3.50	—
233	Women's and misses' outerwear	123.28	126.04	135.83	136.17	136.46	3.68	3.74	3.96	3.97	3.99
2331	Women's and misses' blouses and waists	118.34	119.67	133.84	128.45	—	3.45	3.53	3.77	3.67	—
2336	Women's and misses' dresses	121.88	124.86	134.31	136.70	—	3.75	3.83	4.07	4.13	—
2337	Women's and misses' suits and coats	140.58	144.57	152.51	153.56	—	4.26	4.29	4.37	4.40	—
2339	Women's and misses' outerwear, nec	118.99	121.43	130.96	130.26	—	3.39	3.44	3.71	3.69	—
234	Women's and children's undergarments	116.71	123.13	133.92	128.88	131.77	3.26	3.31	3.60	3.59	3.64
2341	Women's and children's underwear	114.08	120.11	128.10	125.30	—	3.16	3.22	3.50	3.50	—
2342	Corsets and allied garments	125.27	133.59	155.23	141.18	—	3.61	3.64	3.97	3.90	—
235	Hats, caps, and millinery	113.76	123.09	126.67	127.35	—	3.16	3.30	3.48	3.47	—
236	Children's outerwear	115.78	116.51	131.36	128.16	125.67	3.28	3.31	3.56	3.55	3.56
2361	Children's dresses and blouses	117.15	112.22	128.51	127.45	—	3.30	3.32	3.55	3.55	—
237,8	Fur goods and miscellaneous apparel	131.04	133.59	149.60	149.57	—	3.65	3.66	4.00	4.01	—
239	Miscellaneous fabricated textile products	154.57	156.67	170.24	170.17	173.12	4.10	4.08	4.48	4.49	4.58
2391,2	Housefurnishings	126.20	130.44	139.45	142.88	—	3.42	3.46	3.66	3.78	—
26	PAPER AND ALLIED PRODUCTS	254.92	256.20	279.07	281.62	282.94	5.97	6.00	6.46	6.58	6.58
261,2,6	Paper and pulp mills	304.19	301.44	329.30	342.92	(*)	6.79	6.82	7.40	7.57	(*)
263	Paperboard mills	312.26	312.90	339.60	343.49	342.40	6.97	7.00	7.53	7.65	7.66
264	Miscellaneous converted paper products	216.77	218.94	239.10	236.98	(*)	5.30	5.34	5.72	5.78	(*)
2643	Bags, except textile bags	216.11	215.07	226.87	227.84	—	5.17	5.17	5.48	5.53	—
265	Paperboard containers and boxes	222.56	227.34	249.48	247.34	255.00	5.35	5.40	5.87	5.96	6.00
2651,2	Folding and setup paperboard boxes	207.83	212.79	240.96	242.44	—	5.17	5.19	5.71	5.80	—
2653	Corrugated and solid fiber boxes	236.74	243.24	260.40	257.92	—	5.61	5.67	6.07	6.20	—
2654	Sanitary food containers	213.70	218.36	232.41	225.62	—	5.04	5.09	5.56	5.53	—

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
	NONDURABLE GOODS—Continued										
	FOOD AND KINDRED PRODUCTS—Continued										
202	Dairy products	43.3	42.6	42.0	42.1	41.2	5.1	4.8	4.7	4.6	—
2024	Ice cream and frozen desserts	42.4	41.4	43.2	43.5	—	—	—	—	—	—
2026	Fluid milk	44.7	44.1	42.0	42.5	—	—	—	—	—	—
203	Canned, cured, and frozen foods	37.7	39.3	37.0	37.3	—	3.5	5.1	2.8	3.7	—
2031,6	Canned, cured, and frozen sea foods	34.8	36.2	34.6	34.1	—	—	—	—	—	—
2032,3	Canned food, except sea foods	38.8	39.8	37.3	37.3	—	—	—	—	—	—
2037	Frozen fruits and vegetables	35.8	39.2	37.6	37.5	—	—	—	—	—	—
204	Grain mill products	43.8	43.4	43.1	44.0	44.3	5.9	5.9	5.6	6.3	—
2041	Flour and other grain mill products	46.0	46.0	44.0	45.1	—	—	—	—	—	—
2042	Prepared feeds for animals and fowls	43.3	42.3	43.8	44.4	—	—	—	—	—	—
206	Bakery products	39.5	39.3	39.0	39.0	(*)	3.7	3.5	3.6	3.6	—
2061	Bread, cake, and related products	39.5	39.2	39.0	39.0	—	—	—	—	—	—
2062	Cookies and crackers	39.7	39.9	39.1	39.2	—	—	—	—	—	—
206	Sugar	40.4	40.7	41.0	41.5	—	3.5	3.8	3.5	4.2	—
207	Confectionery and related products	38.7	39.9	38.7	39.2	(*)	2.1	2.9	2.3	2.2	—
2071	Confectionery products	38.4	39.3	37.9	39.4	—	—	—	—	—	—
208	Beverages	41.4	40.8	40.9	41.0	40.4	5.0	4.7	4.7	5.0	—
2082	Malt liquors	43.5	42.3	42.0	42.1	—	—	—	—	—	—
2088	Bottled and canned soft drinks	41.2	40.5	41.0	41.7	—	—	—	—	—	—
209	Miscellaneous foods and kindred products	40.7	40.8	41.2	41.2	40.3	3.8	3.9	4.3	4.4	—
21	TOBACCO MANUFACTURES	36.2	38.1	40.7	36.6	37.1	1.1	2.0	2.9	2.0	—
211	Cigarettes	35.6	38.6	42.0	36.5	—	1.2	2.5	3.5	2.3	—
212	Cigars	38.7	40.0	37.5	37.0	—	.4	.8	.9	.7	—
22	TEXTILE MILL PRODUCTS	40.1	40.4	40.7	40.0	40.3	3.3	3.5	3.7	3.3	—
221	Weaving mills, cotton	40.3	40.2	40.8	40.3	(*)	3.5	3.8	3.7	3.5	—
222	Weaving mills, synthetics	41.2	40.8	41.9	41.8	42.1	3.2	3.2	3.8	3.8	—
223	Weaving and finishing mills, wool	39.9	40.4	41.4	40.5	40.3	2.9	3.3	3.9	3.3	—
224	Narrow fabric mills	40.0	40.5	40.1	39.8	39.4	2.3	2.8	3.0	2.3	—
225	Knitting mills	38.5	39.1	39.1	38.1	38.9	2.8	2.9	3.1	2.7	—
2251	Women's hosiery, except socks	37.1	38.5	39.2	39.6	—	—	—	—	—	—
2252	Hosiery, nec	38.3	39.1	38.2	37.2	—	—	—	—	—	—
2253	Knit outerwear mills	37.4	38.0	37.6	36.9	—	—	—	—	—	—
2254	Knit underwear mills	37.2	37.8	39.0	37.4	—	—	—	—	—	—
226	Textile finishing, except wool	39.4	41.1	41.8	41.3	(*)	3.1	4.0	4.4	3.4	—
227	Floor covering mills	42.2	43.4	41.9	40.7	—	4.4	5.4	4.8	3.7	—
228	Yarn and thread mills	41.0	41.1	41.2	40.6	40.4	3.6	3.7	3.9	3.7	—
229	Miscellaneous textile goods	40.7	40.8	41.3	39.8	41.1	3.6	3.9	3.8	3.3	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.4	35.8	36.1	35.9	35.9	1.0	1.3	1.3	1.0	—
231	Men's and boys' suits and coats	35.8	36.0	35.7	37.3	(*)	.4	.5	.8	.6	—
232	Men's and boys' furnishings	36.1	36.3	36.4	35.9	36.1	.8	1.1	1.0	.7	—
2321	Men's and boys' shirts and nightwear	35.8	35.7	37.3	36.6	—	.6	1.0	1.1	.6	—
2327	Men's and boys' separate trousers	36.2	36.0	35.9	35.1	—	.9	1.0	1.1	.7	—
2328	Men's and boys' work clothing	36.5	37.3	35.3	35.3	—	1.0	1.3	.7	.5	—
233	Women's and misses' outerwear	33.5	33.7	34.3	34.3	34.2	.9	1.1	1.2	1.1	—
2331	Women's and misses' blouses and waists	34.3	33.9	35.5	35.0	—	—	—	—	—	—
2336	Women's and misses' dresses	32.5	32.6	33.0	33.1	—	.8	1.0	1.1	1.1	—
2337	Women's and misses' suits and coats	33.0	33.7	34.9	34.9	—	1.1	1.4	1.4	1.4	—
2339	Women's and misses' outerwear, nec	35.1	35.3	35.3	35.3	—	1.1	1.3	1.2	.9	—
234	Women's and children's undergarments	35.8	37.2	37.2	35.9	36.2	1.0	1.4	1.3	1.0	—
2341	Women's and children's underwear	36.1	37.3	36.6	35.8	—	—	—	—	—	—
2342	Corsets and allied garments	34.7	36.7	39.1	36.2	—	—	—	—	—	—
235	Hats, caps, and millinery	36.0	37.3	36.4	36.7	—	.8	1.3	1.2	1.1	—
236	Children's outerwear	35.3	35.2	36.9	36.1	35.3	1.4	1.8	1.9	1.4	—
2361	Children's dresses and blouses	35.5	33.8	36.2	35.9	—	—	—	—	—	—
237,8	Fur goods and miscellaneous apparel	35.9	36.5	37.4	37.3	—	.7	1.0	1.4	.9	—
239	Miscellaneous fabricated textile products	37.7	38.4	38.0	37.9	37.8	1.9	2.0	2.1	1.8	—
2391,2	Housefurnishings	36.9	37.7	38.1	37.8	—	—	—	—	—	—
26	PAPER AND ALLIED PRODUCTS	42.7	42.7	43.2	42.8	43.0	4.8	4.9	5.0	5.1	—
261,2,6	Paper and pulp mills	44.8	44.2	44.5	45.3	(*)	6.4	6.1	6.1	6.9	—
263	Paperboard mills	44.8	44.7	45.1	44.9	44.7	7.4	7.2	7.5	7.6	—
264	Miscellaneous converted paper products	40.9	41.0	41.8	41.0	(*)	3.4	3.7	3.7	3.7	—
2643	Bags, except textile bags	41.8	41.6	41.4	41.2	—	—	—	—	—	—
265	Paperboard containers and boxes	41.6	42.1	42.5	41.5	42.5	3.7	4.1	4.3	4.1	—
2651,2	Folding and setup paperboard boxes	40.2	41.0	42.2	41.8	—	—	—	—	—	—
2653	Corrugated and solid fiber boxes	42.2	42.9	42.9	41.6	—	4.2	4.5	4.6	4.2	—
2654	Sanitary food containers	42.4	42.9	41.8	40.8	—	—	—	—	—	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
NONDURABLE GOODS—Continued											
27	PRINTING AND PUBLISHING	\$229.59	\$233.09	\$241.50	\$243.65	\$248.14	\$6.09	\$6.15	\$6.44	\$6.48	\$6.53
271	Newspapers	228.46	229.14	240.75	244.24	248.82	6.68	6.70	7.06	7.10	7.15
272	Periodicals	240.90	243.92	241.13	243.10	—	6.39	6.47	6.43	6.50	—
273	Books	210.00	213.73	216.45	224.80	—	5.33	5.33	5.55	5.62	—
275	Commercial printing	236.84	242.58	251.41	253.44	259.46	6.12	6.22	6.53	6.60	6.67
2751	Commercial printing, except lithographic	230.47	232.97	241.94	243.58	—	5.94	6.02	6.35	6.41	—
2752	Commercial printing, lithographic	247.17	257.28	265.00	267.72	—	6.42	6.53	6.83	6.90	—
278	Blankbooks and bookbinding	183.06	185.89	193.95	191.00	194.43	4.67	4.73	4.91	4.91	4.96
274,8,7,9	Other publishing and printing ind	238.12	239.12	249.10	249.99	(*)	6.09	6.10	6.42	6.41	(*)
28	CHEMICALS AND ALLIED PRODUCTS	267.90	268.32	291.06	292.03	291.75	6.44	6.45	6.93	7.02	7.03
281	Industrial chemicals	309.87	306.68	336.11	340.43	340.00	7.24	7.25	7.89	8.01	8.00
2812	Alkalies and chlorine	333.87	325.80	355.59	352.46	—	7.64	7.63	8.10	8.14	—
2818	Industrial organic chemicals, nec	335.91	329.87	367.65	376.68	—	7.83	7.78	8.61	8.76	—
2819	Industrial inorganic chemicals, nec	295.10	296.52	313.32	322.49	—	6.96	7.06	7.46	7.66	—
282	Plastics materials and synthetics	264.39	263.54	291.64	288.27	287.18	6.31	6.32	6.83	6.88	6.92
2821	Plastics materials and resins	284.26	284.26	313.11	310.03	—	6.58	6.58	7.10	7.21	—
2823,4	Synthetic fibers	241.08	239.72	263.33	262.03	—	5.88	5.89	6.33	6.36	—
283	Drugs	233.04	236.61	256.06	257.22	256.54	5.87	5.93	6.20	6.32	6.35
2834	Pharmaceutical preparations	227.94	229.70	253.17	253.66	—	5.80	5.83	6.19	6.31	—
284	Soap, cleaners, and toilet goods	245.63	247.20	265.68	263.97	—	6.05	6.00	6.56	6.55	—
2841	Soap and other detergents	330.23	334.54	357.84	362.53	—	7.77	7.78	8.40	8.53	—
2844	Toilet preparations	191.69	193.59	212.31	205.35	—	4.89	4.78	5.43	5.32	—
285	Paints and allied products	245.14	242.76	257.91	255.37	(*)	5.95	5.95	6.26	6.29	(*)
287	Agricultural chemicals	250.58	253.73	265.50	270.92	(*)	5.91	5.97	6.16	6.33	(*)
2871,2	Fertilizers, complete and mixing only	236.17	236.18	246.25	255.85	—	5.57	5.61	5.74	5.95	—
288,9	Other chemical products	242.08	246.33	264.09	264.96	(*)	5.89	5.95	6.41	6.51	(*)
2892	Explosives	229.96	232.53	250.27	250.27	—	5.65	5.77	6.32	6.32	—
29	PETROLEUM AND COAL PRODUCTS	336.87	330.07	367.44	374.74	365.86	7.78	7.73	8.37	8.44	8.43
291	Petroleum refining	366.37	356.17	400.53	407.83	396.95	8.54	8.46	9.25	9.29	9.34
295,9	Other petroleum and coal products	256.19	259.01	280.69	290.83	289.74	5.77	5.86	6.21	6.35	6.34
30	RUBBER AND PLASTICS PRODUCTS, NEC	205.82	209.20	223.04	221.80	224.40	5.12	5.14	5.44	5.49	5.50
301	Tires and inner tubes	310.32	314.05	333.59	335.12	346.98	7.20	7.17	7.74	7.83	7.94
302,3,8	Other rubber products	199.69	203.41	222.35	218.99	(*)	5.03	5.06	5.49	5.53	(*)
302	Rubber footwear	127.08	133.96	143.64	135.04	—	3.53	3.65	3.79	3.71	—
307	Miscellaneous plastics products	176.96	180.00	194.07	193.76	(*)	4.48	4.50	4.78	4.82	(*)
31	LEATHER AND LEATHER PRODUCTS	133.92	135.39	150.14	147.39	147.02	3.60	3.62	3.91	3.92	3.91
311	Leather tanning and finishing	185.96	187.02	201.60	200.19	(*)	4.83	4.82	5.04	5.12	(*)
314	Footwear, except rubber	126.48	127.97	143.99	140.62	140.99	3.40	3.44	3.74	3.74	3.73
312,3,5-7,9	Other leather products	134.32	136.13	148.18	145.80	145.73	3.66	3.63	3.92	3.93	3.96
318	Luggage	139.80	141.74	155.32	155.08	—	3.83	3.80	4.12	4.18	—
317	Handbags and personal leather goods	129.93	132.75	140.63	140.62	—	3.55	3.54	3.75	3.76	—
—	TRANSPORTATION AND PUBLIC UTILITIES	280.89	282.40	299.83	303.00	305.42	6.97	6.99	7.44	7.50	7.56
4011	RAILROAD TRANSPORTATION: Class I railroads ²	321.82	327.87	343.62	(*)	—	7.59	7.52	7.67	(*)	—
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation	243.49	244.55	255.27	262.85	—	5.91	5.95	6.43	6.49	—
413	Intercity highway transportation	292.39	294.08	295.09	322.00	—	7.44	7.56	7.89	8.01	—
42	TRUCKING AND WAREHOUSING	282.46	287.41	313.43	313.88	—	6.94	7.01	7.72	7.75	—
421,3	Trucking and trucking terminals	289.57	294.58	321.94	322.36	—	7.08	7.15	7.91	7.94	—
422	Public warehousing	200.47	200.06	212.37	213.64	—	5.18	5.21	5.39	5.45	—
46	PIPE LINE TRANSPORTATION	335.65	334.46	375.53	375.78	—	8.03	8.04	8.92	8.99	—
48	COMMUNICATION	272.16	272.70	291.77	291.77	—	6.72	6.75	7.24	7.24	—
481	Telephone communication	277.85	276.89	294.92	294.92	—	6.81	6.82	7.30	7.30	—
4817	Switchboard operating employees ³	209.72	205.56	210.45	216.23	—	5.73	5.71	6.03	6.04	—
4818	Line construction employees ⁴	360.19	361.09	395.98	389.98	—	8.04	8.06	8.78	8.75	—
482	Telegraph communication ⁵	306.87	306.87	(*)	(*)	—	7.12	7.12	(*)	(*)	—
483	Radio and television broadcasting	246.87	251.29	282.24	284.47	—	6.33	6.46	7.20	7.22	—

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
NONDURABLE GOODS—Continued											
27	PRINTING AND PUBLISHING	37.7	37.9	37.5	37.6	38.0	2.7	3.0	2.8	3.0	—
271	Newspapers	34.2	34.2	34.1	34.4	34.8	1.7	1.7	1.9	2.1	—
272	Periodicals	37.7	37.7	37.5	37.4	—	2.6	2.9	2.2	2.2	—
273	Books	39.4	40.1	39.0	40.0	—	4.2	4.5	3.4	4.0	—
275	Commercial printing	38.7	39.0	38.5	38.4	38.9	3.1	3.5	3.2	3.3	—
2751	Commercial printing, except lithographic	38.8	38.7	38.1	38.0	—	3.0	3.2	3.1	3.1	—
2752	Commercial printing, lithographic	38.5	39.4	38.8	38.8	—	3.1	3.9	3.4	3.5	—
278	Blankbooks and bookbinding	39.2	39.3	39.5	38.9	39.2	2.3	2.6	2.3	2.4	—
274,6,7,9	Other publishing and printing ind.	39.1	39.2	38.8	39.0	(*)	2.9	3.0	3.1	3.3	—
28	CHEMICALS AND ALLIED PRODUCTS	41.6	41.6	42.0	41.6	41.5	3.5	3.4	3.5	3.5	—
281	Industrial chemicals	42.8	42.3	42.6	42.5	42.5	4.0	3.8	4.0	4.2	—
2812	Alkalies and chlorine	43.7	42.7	43.9	43.3	—	—	—	—	—	—
2818	Industrial organic chemicals, nec.	42.9	42.4	42.7	43.0	—	4.2	3.8	4.0	4.6	—
2819	Industrial inorganic chemicals, nec.	42.4	42.0	42.0	42.1	—	3.6	3.5	3.5	3.8	—
282	Plastics materials and synthetics	41.9	41.7	42.7	41.9	41.5	3.5	3.4	3.4	3.4	—
2821	Plastics materials and resins	43.2	43.2	44.1	43.0	—	4.7	4.8	4.6	4.8	—
2823,4	Synthetic fibers	41.0	40.7	41.6	41.2	—	2.7	2.5	2.5	2.4	—
283	Drugs	39.7	39.9	41.3	40.7	40.4	2.5	2.6	2.6	2.5	—
2834	Pharmaceutical preparations	39.3	39.4	40.9	40.2	—	—	—	—	—	—
284	Soap, cleaners, and toilet goods	40.6	41.2	40.5	40.3	40.2	2.7	2.9	2.9	2.9	—
2841	Soap and other detergents	42.5	43.0	42.6	42.5	—	—	—	—	—	—
2844	Toilet preparations	39.2	40.5	39.1	38.6	—	—	—	—	—	—
285	Paints and allied products	41.2	40.8	41.2	40.6	(*)	3.7	3.4	3.4	3.4	—
287	Agricultural chemicals	42.4	42.5	43.1	42.8	(*)	4.8	4.7	4.4	4.6	—
2871,2	Fertilizers, complete and mixing only	42.4	42.1	42.9	43.0	—	—	—	—	—	—
286,9	Other chemical products	41.1	41.4	41.2	40.7	(*)	3.2	3.4	3.4	3.5	—
2892	Explosives	40.7	40.3	39.6	39.6	—	—	—	—	—	—
29	PETROLEUM AND COAL PRODUCTS	43.3	42.7	43.9	44.4	43.4	4.1	3.8	4.4	4.5	—
291	Petroleum refining	42.9	42.1	43.3	43.9	42.5	3.4	3.0	3.4	3.5	—
295,9	Other petroleum and coal products	44.4	44.2	45.2	45.8	45.7	5.8	6.0	6.9	7.2	—
30	RUBBER AND PLASTICS PRODUCTS, NEC	40.2	40.7	41.0	40.4	40.8	3.3	3.5	3.6	3.5	—
301	Tires and inner tubes	43.1	43.8	43.1	42.8	43.7	5.0	5.3	5.0	5.3	—
302,3,6	Other rubber products	39.7	40.2	40.5	39.6	(*)	2.9	3.1	3.5	3.2	—
302	Rubber footwear	36.0	36.7	37.9	36.4	—	1.0	1.2	2.4	1.3	—
307	Miscellaneous plastics products	39.5	40.0	40.6	40.2	(*)	2.9	3.2	3.3	3.1	—
31	LEATHER AND LEATHER PRODUCTS	37.2	37.4	38.4	37.6	37.6	1.6	1.9	2.3	1.6	—
311	Leather tanning and finishing	38.5	38.8	40.0	39.1	(*)	2.5	2.5	3.1	2.6	—
314	Footwear, except rubber	37.2	37.2	38.5	37.6	37.8	1.5	1.8	2.3	1.4	—
312,3,5-7,9	Other leather products	36.7	37.5	37.8	37.1	36.8	1.7	2.0	1.9	1.6	—
316	Luggage	36.5	37.3	37.7	37.1	—	2.4	2.5	2.1	2.0	—
317	Handbags and personal leather goods	36.6	37.5	37.5	37.4	—	1.7	2.3	2.0	1.8	—
—	TRANSPORTATION AND PUBLIC UTILITIES	40.3	40.4	40.3	40.4	40.4	—	—	—	—	—
4011	RAILROAD TRANSPORTATION: Class I railroads ²	42.4	43.6	44.8	(*)	—	—	—	—	—	—
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation	41.2	41.1	39.7	40.5	—	—	—	—	—	—
413	Intercity highway transportation	39.3	38.9	37.4	40.2	—	—	—	—	—	—
42	TRUCKING AND WAREHOUSING	40.7	41.0	40.6	40.5	—	—	—	—	—	—
421,3	Trucking and trucking terminals	40.9	41.2	40.7	40.6	—	—	—	—	—	—
422	Public warehousing	38.7	38.4	39.4	39.2	—	—	—	—	—	—
46	PIPE LINE TRANSPORTATION	41.8	41.6	42.1	41.8	—	—	—	—	—	—
48	COMMUNICATION	40.5	40.4	40.3	40.3	—	—	—	—	—	—
481	Telephone communication	40.8	40.6	40.4	40.4	—	—	—	—	—	—
4817	Switchboard operating employees ³	36.6	36.0	34.9	35.8	—	—	—	—	—	—
4818	Line construction employees ⁴	44.8	44.8	45.1	44.5	—	—	—	—	—	—
482	Telegraph communication ⁵	43.1	43.1	(*)	(*)	—	—	—	—	—	—
483	Radio and television broadcasting	39.0	38.9	39.2	39.4	—	—	—	—	—	—

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1977	Aug. 1977	June 1978	July 1978 ^p	Aug. 1978 ^p	July 1977	Aug. 1977	June 1978	July 1978 ^p	Aug. 1978 ^p
—	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES	\$294.11	\$291.17	\$315.33	\$319.96	—	\$7.07	\$7.05	\$7.49	\$7.60	—
491	Electric companies and systems	304.73	297.20	329.18	332.30	—	7.17	7.11	7.62	7.71	—
492	Gas companies and systems	268.21	269.43	285.31	288.67	—	6.59	6.62	7.01	7.11	—
493	Combination companies and systems	319.09	319.87	342.36	349.86	—	7.84	7.84	8.21	8.39	—
494-7	Water, steam, and sanitary systems	236.44	234.48	251.30	256.47	—	5.67	5.65	6.07	6.18	—
—	WHOLESALE AND RETAIL TRADE	145.95	145.52	155.31	157.85	\$156.91	4.28	4.28	4.65	4.67	\$4.67
50	WHOLESALE TRADE	216.84	216.28	235.77	238.73	238.12	5.56	5.56	6.03	6.09	6.09
501	Motor vehicles and automotive equipment	193.83	195.22	216.54	217.95	—	4.97	4.98	5.51	5.56	—
502	Drugs, chemicals, and allied products	229.03	227.12	245.76	247.15	—	5.98	5.93	6.40	6.47	—
503	Dry goods and apparel	180.64	180.43	195.10	198.55	—	5.06	5.04	5.36	5.41	—
504	Groceries and related products	218.74	213.71	236.29	243.14	—	5.58	5.58	6.09	6.14	—
506	Electrical goods	224.83	224.64	251.69	256.54	—	5.75	5.76	6.23	6.35	—
507	Hardware, plumbing and heating equipment	207.09	206.84	218.62	218.86	—	5.31	5.29	5.62	5.67	—
508	Machinery, equipment, and supplies	237.58	237.18	257.28	260.58	—	5.31	5.90	6.40	6.45	—
509	Miscellaneous wholesalers	213.12	213.12	231.99	233.70	—	5.55	5.55	6.01	6.07	—
52-59	RETAIL TRADE	125.57	124.86	131.56	134.69	133.86	3.84	3.83	4.15	4.17	4.17
53	Retail general merchandise †	119.45	118.31	124.54	128.13	—	3.78	3.78	4.07	4.12	—
531	Department stores	123.64	122.45	127.32	131.40	—	3.95	3.95	4.23	4.28	—
532	Mail order houses	157.64	160.77	167.66	170.50	—	4.65	4.66	5.05	5.12	—
533	Variety stores	93.02	93.33	101.36	104.07	—	3.07	3.07	3.39	3.39	—
54	Food stores	157.72	155.64	166.12	169.83	—	4.68	4.66	5.08	5.10	—
541-3	Grocery, meat, and vegetable stores	162.52	160.41	170.75	174.54	—	4.78	4.76	5.19	5.21	—
56	Apparel and accessory stores	104.07	103.77	111.87	113.77	—	3.39	3.38	3.68	3.67	—
561	Men's and boys' clothing and furnishings	131.20	128.64	138.36	140.91	—	3.94	3.91	4.18	4.27	—
562	Women's ready-to-wear stores	91.20	90.26	97.78	100.46	—	3.05	3.07	3.36	3.36	—
565	Family clothing stores	105.88	104.29	113.35	115.56	—	3.34	3.29	3.61	3.60	—
566	Shoe stores	103.01	108.28	115.71	113.70	—	3.54	3.55	3.87	3.79	—
57	Furniture and home furnishings stores	159.20	158.84	167.32	170.05	—	4.41	4.40	4.74	4.79	—
571	Furniture and home furnishings	163.17	162.90	173.24	174.44	—	4.52	4.50	4.88	4.90	—
58	Eating and drinking places ⁶	82.65	82.94	86.31	89.11	—	2.89	2.89	3.15	3.16	—
52,55,59	Other retail trade	156.61	155.77	165.26	167.35	—	4.21	4.21	4.54	4.56	—
52	Building materials and farm equipment	177.02	176.11	185.60	187.73	—	4.36	4.37	4.64	4.67	—
551,2	Motor vehicle dealers	211.29	210.65	230.08	232.20	—	5.39	5.36	5.93	6.00	—
553,9	Other automotive and accessory dealers	183.23	181.04	189.12	191.04	—	4.48	4.47	4.80	4.80	—
591	Drug stores and proprietary stores	114.99	114.20	115.74	119.45	—	3.56	3.58	3.77	3.78	—
594	Book and stationery stores	132.26	131.97	134.31	135.74	—	3.89	3.87	4.07	4.04	—
598	Fuel and ice dealers	187.23	184.86	197.49	197.10	—	4.74	4.74	5.09	5.08	—
60	FINANCE, INSURANCE, AND REAL ESTATE⁷	168.45	169.28	180.68	184.37	182.77	4.59	4.60	4.95	5.01	4.98
60	Banking	141.99	141.99	150.70	153.82	—	3.89	3.89	4.14	4.18	—
61	Credit agencies other than banks	153.44	155.04	161.51	167.70	—	4.07	4.08	4.33	4.46	—
612	Savings and loan associations	147.31	147.34	154.09	161.08	—	3.96	3.95	4.21	4.33	—
62	Security, commodity brokers and services	291.04	286.52	326.70	(*)	—	7.72	7.56	8.42	(*)	—
63	Insurance carriers	180.05	180.91	189.95	193.21	—	4.84	4.85	5.12	5.18	—
631	Life insurance	176.01	176.49	184.97	186.44	—	4.77	4.77	5.04	5.08	—
632	Accident and health insurance	174.84	179.74	183.98	187.61	—	4.65	4.73	4.88	4.95	—
633	Fire, marine, and casualty insurance	183.14	183.63	193.44	197.25	—	4.91	4.91	5.20	5.26	—

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P	July 1977	Aug. 1977	June 1978	July 1978 ^P	Aug. 1978 ^P
-	TRANSPORTATION AND PUBLIC UTILITIES—Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.6	41.3	42.1	42.1	-	-	-	-	-	
491	Electric companies and systems	42.5	41.8	43.2	43.1	-	-	-	-	-	
492	Gas companies and systems	40.7	40.7	40.7	40.6	-	-	-	-	-	
493	Combination companies and systems	40.7	40.8	41.7	41.7	-	-	-	-	-	
494-7	Water, steam, and sanitary systems	41.7	41.5	41.4	41.5	-	-	-	-	-	
-	WHOLESALE AND RETAIL TRADE	34.1	34.0	33.4	33.8	33.6	-	-	-	-	
50	WHOLESALE TRADE	39.0	38.9	39.1	39.2	39.1	-	-	-	-	
501	Motor vehicles and automotive equipment	39.0	39.2	39.3	39.2	-	-	-	-	-	
502	Drugs, chemicals, and allied products	38.3	38.3	38.4	38.2	-	-	-	-	-	
503	Dry goods and apparel	35.7	35.8	36.4	36.7	-	-	-	-	-	
504	Groceries and related products	39.2	38.3	38.8	39.6	-	-	-	-	-	
506	Electrical goods	39.1	39.0	40.4	40.4	-	-	-	-	-	
507	Hardware; plumbing and heating equipment	39.0	39.1	38.9	38.6	-	-	-	-	-	
508	Machinery, equipment, and supplies	40.2	40.2	40.2	40.4	-	-	-	-	-	
509	Miscellaneous wholesalers	38.4	38.4	38.6	38.5	-	-	-	-	-	
52-59	RETAIL TRADE	32.7	32.6	31.7	32.3	32.1	-	-	-	-	
53	Retail general merchandise	31.6	31.3	30.6	31.1	-	-	-	-	-	
531	Department stores	31.3	31.0	30.1	30.7	-	-	-	-	-	
532	Mail order houses	33.9	34.5	33.2	33.3	-	-	-	-	-	
533	Variety stores	30.3	30.4	29.9	30.7	-	-	-	-	-	
54	Food stores	33.7	33.4	32.7	33.3	-	-	-	-	-	
541-3	Grocery, meat, and vegetable stores	34.0	33.7	32.9	33.5	-	-	-	-	-	
56	Apparel and accessory stores	30.7	30.7	30.4	31.0	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	33.3	32.9	33.1	33.0	-	-	-	-	-	
562	Women's ready-to-wear stores	29.9	29.4	29.1	29.9	-	-	-	-	-	
565	Family clothing stores	31.7	31.7	31.4	32.1	-	-	-	-	-	
566	Shoe stores	29.1	30.5	29.9	30.0	-	-	-	-	-	
57	Furniture and home furnishings stores	36.1	36.1	35.3	35.5	-	-	-	-	-	
571	Furniture and home furnishings	36.1	36.2	35.5	35.6	-	-	-	-	-	
58	Eating and drinking places ⁶	28.6	28.7	27.4	28.2	-	-	-	-	-	
52,55,59	Other retail trade	37.2	37.0	36.4	36.7	-	-	-	-	-	
52	Building materials and farm equipment	40.6	40.3	40.0	40.2	-	-	-	-	-	
551,2	Motor vehicle dealers	39.2	39.3	38.8	38.7	-	-	-	-	-	
553,9	Other automotive and accessory dealers	40.9	40.5	39.4	39.8	-	-	-	-	-	
591	Drug stores and proprietary stores	32.3	31.9	30.7	31.6	-	-	-	-	-	
594	Book and stationery stores	34.0	34.1	33.0	33.6	-	-	-	-	-	
598	Fuel and ice dealers	39.5	39.0	38.8	38.8	-	-	-	-	-	
	FINANCE, INSURANCE, AND REAL ESTATE⁷	36.7	36.8	36.5	36.8	36.7	-	-	-	-	
60	Banking	36.5	36.5	36.4	36.8	-	-	-	-	-	
61	Credit agencies other than banks	37.7	38.0	37.3	37.6	-	-	-	-	-	
612	Savings and loan associations	37.2	37.3	36.6	37.2	-	-	-	-	-	
62	Security, commodity brokers and services	37.7	37.9	38.8	(*)	-	-	-	-	-	
63	Insurance carriers	37.2	37.3	37.1	37.3	-	-	-	-	-	
631	Life insurance	36.9	37.0	36.7	36.7	-	-	-	-	-	
632	Accident and health insurance	37.6	38.0	37.7	37.9	-	-	-	-	-	
633	Fire, marine, and casualty insurance	37.3	37.4	37.2	37.5	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers ¹ on private nonagricultural payrolls, by industry—Continued

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1977	Aug. 1977	June 1978	July 1978 P	Aug. 1978 P	July 1977	Aug. 1977	June 1978	July 1978 P	Aug. 1978 P
	SERVICES	\$158.18	\$157.72	\$168.84	\$171.03	\$170.35	\$4.68	\$4.68	\$5.04	\$5.06	\$5.04
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels ⁶	103.68	102.72	110.00	113.63	—	3.21	3.20	3.56	3.54	—
	Personal services:										
721	Laundries and dry cleaning plants	123.55	124.60	133.38	133.76	—	3.49	3.50	3.80	3.80	—
722	Photographic studios	125.06	125.78	137.28	138.36	—	3.86	3.87	4.16	4.18	—
	Motion pictures:										
781	Motion picture filming and distributing ...	338.52	351.95	379.85	392.39	—	8.57	8.69	9.79	10.01	—
806	Hospitals	162.02	163.06	175.62	180.27	—	4.71	4.74	5.12	5.21	—

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

² Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 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 1975, such employees made up 30 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 1975, such employees made up 47 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁵ Data relate to nonsupervisory employees except messengers.

⁶ Money payments only; tips, not included.

⁷ Data for nonoffice sales agents excluded from all series in this division.

†Beginning February 1977 data not strictly comparable with those previously published due to change in pay practices of a large employer.

*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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1977	Aug. 1977	June 1978	July 1978P	Aug. 1978P	July 1977	Aug. 1977	June 1978	July 1978P	Aug. 1978P
	SERVICES	33.8	33.7	33.5	33.8	33.8	-	-	-	-	-
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels ⁶	32.3	32.1	30.9	32.1	.	-	-	-	-	-
	Personal services:										
721	Laundries and dry cleaning plants	35.4	35.6	35.1	35.2	-	-	-	-	-	-
722	Photographic studios	32.4	32.5	33.0	33.1	-	-	-	-	-	-
	Motion pictures:										
781	Motion picture filming and distributing ...	39.5	40.5	38.8	39.2	-	-	-	-	-	-
806	Hospitals	34.4	34.4	34.3	34.6	-	-	-	-	-	-

ESTABLISHMENT DATA HOURS AND EARNINGS

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

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

Item	1977											1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
Executive Branch														
Total employment	2,662.8	2,664.0	2,675.8	2,712.3	2,720.5	2,704.2	2,665.4	2,662.5	2,664.3	2,673.1	2,659.5	2,668.2	2,672.9	
Average weekly hours	39.3	39.2	39.2	39.3	39.7	39.7	39.4	39.8	39.4	40.0	39.6	39.9	39.6	
Average overtime hours . . . . .	.9	.9	.9	1.0	1.1	1.2	1.3	1.2	1.1	1.6	1.2	1.2	1.1
Indexes (1967=100):														
Average weekly earnings	208.7	208.7	209.2	208.9	211.1	212.7	214.9	226.9	225.9	230.5	229.0	230.2	227.4	
Average hourly earnings	209.2	209.7	210.3	209.5	209.5	211.1	214.9	224.6	225.9	227.0	227.8	227.3	226.2	
Department of Defense														
Total employment	918.4	917.4	920.0	932.0	931.6	922.0	909.1	907.8	909.8	907.7	906.4	906.0	905.6	
Average weekly hours	39.9	39.6	39.9	39.9	40.0	40.0	39.9	39.9	39.8	40.0	39.9	40.1	40.0	
Average overtime hours . . . . .	.7	.7	.7	.8	.7	.8	1.1	.9	.9	.8	.7	.8	.9
Indexes (1967=100):														
Average weekly earnings	203.9	204.3	204.8	203.7	203.4	204.2	208.0	217.4	220.9	220.4	221.8	222.3	221.5	
Average hourly earnings	206.0	207.9	206.8	205.7	204.9	205.7	210.1	219.6	223.7	222.1	224.0	223.4	223.2	
Postal service														
Total employment	652.3	650.7	652.9	655.6	657.5	656.8	655.0	649.2	650.2	668.2	645.6	646.9	647.6	
Average weekly hours	39.6	39.7	39.3	39.3	40.4	39.9	40.1	41.2	39.8	41.8	41.1	41.5	40.4	
Average overtime hours	1.2	1.2	1.0	1.1	1.5	1.4	1.7	2.0	1.5	3.5	2.5	2.1	1.7	
Indexes (1967=100):														
Average weekly earnings	233.3	234.9	235.6	235.0	241.9	248.6	251.5	259.0	253.4	271.7	253.9	266.5	258.5	
Average hourly earnings	227.4	228.4	231.4	230.8	231.1	240.5	242.1	242.7	245.7	250.9	249.9	247.9	247.0	
Other agencies														
Total employment	1,092.1	1,095.9	1,102.9	1,124.7	1,131.4	1,125.9	1,101.3	1,105.5	1,104.3	1,097.2	1,107.5	1,107.5	1,119.7	
Average weekly hours	38.5	38.6	38.6	38.6	39.0	39.3	38.7	38.8	38.9	38.8	38.5	38.9	38.8	
Average overtime hours . . . . .	.9	.9	1.0	1.1	1.3	1.5	1.2	1.1	1.1	1.0	.9	1.0	1.0
Indexes (1967=100):														
Average weekly earnings	198.2	198.0	198.7	197.5	200.5	200.1	201.7	216.6	215.4	216.1	216.6	217.6	215.1	
Average hourly earnings	199.8	199.0	199.8	198.5	199.5	197.5	202.2	216.6	214.9	216.1	218.3	217.1	215.1	

NOTE: Averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from all agencies of 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 supervisory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers.

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

Major industry group	Average hourly earnings excluding overtime ¹				
	July 1977	Aug. 1977	June 1978	July 1978 ^D	Aug. 1978 ^D
MANUFACTURING	\$5.43	\$5.42	\$5.81	\$5.88	\$5.86
DURABLE GOODS	5.79	5.78	6.19	6.24	6.23
Ordnance and accessories	6.04	6.10	6.47	6.53	-
Lumber and wood products	4.83	4.87	5.36	5.40	-
Furniture and fixtures	4.18	4.21	4.49	4.52	-
Stone, clay, and glass products	5.50	5.51	5.91	5.96	-
Primary metal industries	7.29	7.27	7.74	7.80	-
Fabricated metal products	5.59	5.61	5.95	5.99	-
Machinery, except electrical	5.91	5.94	6.35	6.37	-
Electrical equipment and supplies	5.19	5.22	5.53	5.62	-
Transportation equipment	6.76	6.73	7.25	7.29	-
Instruments and related products	5.07	5.07	5.38	5.44	-
Miscellaneous manufacturing industries	4.25	4.21	4.51	4.57	-
NONDURABLE GOODS	4.91	4.91	5.24	5.33	5.31
Food and kindred products	5.07	5.08	5.47	5.50	-
Tobacco manufactures	5.57	5.29	6.33	6.33	-
Textile mill products	3.86	3.88	4.02	4.13	-
Apparel and other textile products	3.54	3.56	3.85	3.87	-
Paper and allied products	5.65	5.68	6.11	6.21	-
Printing and publishing	(²)	(²)	(²)	(²)	-
Chemicals and allied products	6.18	6.19	6.65	6.73	-
Petroleum and coal products	7.43	7.40	7.97	8.03	-
Rubber and plastics products, nec	4.92	4.93	5.21	5.26	-
Leather and leather products	3.52	3.53	3.80	3.84	-

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

p = preliminary.

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

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
	July 1977	June 1978	July 1978 ^P	Worker with no dependents			Married worker with 3 dependents		
				July 1977	June 1978	July 1978 ^P	July 1977	June 1978	July 1978 ^P
TOTAL PRIVATE:									
Current dollars	\$191.63	\$205.82	\$208.42	\$158.60	\$166.92	\$168.79	\$174.77	\$182.30	\$184.25
1967 dollars	104.95	105.39	105.96	86.86	85.47	85.81	95.71	93.34	93.67
MINING:									
Current dollars	309.81	335.16	332.98	237.31	253.76	252.39	262.42	278.15	276.58
1967 dollars	169.67	171.61	169.28	129.96	129.93	128.31	143.71	142.42	140.61
CONTRACT CONSTRUCTION:									
Current dollars	302.40	321.39	328.23	232.48	245.00	249.40	257.26	268.24	273.16
1967 dollars	165.61	164.56	166.87	127.32	125.45	126.79	140.89	137.35	138.87
MANUFACTURING:									
Current dollars	226.57	247.05	246.43	183.18	195.87	195.44	201.18	213.20	212.74
1967 dollars	124.08	126.50	125.28	100.32	100.29	99.36	110.18	109.17	108.15
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	280.89	299.83	303.00	218.61	231.00	233.06	241.88	252.73	255.01
1967 dollars	153.83	153.52	154.04	119.72	118.28	118.49	132.46	129.41	129.64
WHOLESALE AND RETAIL TRADE:									
Current dollars	145.95	155.31	157.85	124.66	130.07	131.98	137.41	143.39	145.38
1967 dollars	79.93	79.52	80.25	68.27	66.60	67.10	75.25	73.42	73.91
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	168.45	180.68	184.37	141.70	148.83	151.48	156.48	163.15	165.99
1967 dollars	92.25	92.51	93.73	77.60	76.21	77.01	85.70	83.54	84.39
SERVICES:									
Current dollars	158.18	168.84	171.03	133.85	140.22	141.86	148.38	153.95	155.66
1967 dollars	86.63	86.45	86.95	73.30	71.80	72.12	81.26	78.83	79.14
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	182.6	195.3	196.7	NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is an estimate of the average change in the prices of goods and services purchased by those consumers, and is used to deflate the current dollar values in this table to the 1967 dollar values shown. A major revision in the Consumer Price Index (revised CPI-W) was introduced with data for January 1978. Data prior to January 1978 in 1967 dollars are based on the unrevised Consumer Price Index for Urban Wage Earners and Clerical Workers (unrevised CPI-W).					

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

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

The data for spendable earnings for the seven month period June-December 1977 are calcu-

lated from formulas which concentrate the full year's effect of tax reduction in those seven months. A technical note on the calculation and uses of the spendable earnings series is available upon request.

^P=preliminary (applicable to earnings data only).

ESTABLISHMENT DATA HOURS AND EARNINGS

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

[1967 = 100]

Industry division and group	July 1977	Aug. 1977	June 1978	July 1978 ^p	Aug. 1978
	Hours				
TOTAL	117.8	118.4	123.0	123.2	123.8
GOODS-PRODUCING	102.0	103.4	109.7	108.1	109.6
MINING	142.6	137.1	155.2	153.7	153.7
CONTRACT CONSTRUCTION	123.7	124.4	137.0	142.4	143.0
MANUFACTURING	96.8	98.6	103.3	100.5	102.2
DURABLE GOODS	96.7	97.4	105.2	102.1	102.9
Ordnance and accessories	39.7	39.0	41.5	40.5	41.6
Lumber and wood products	108.4	109.5	115.7	113.1	114.4
Furniture and fixtures	104.3	110.1	116.0	110.3	116.4
Stone, clay, and glass products	107.9	108.4	114.3	113.2	112.3
Primary metal industries	88.9	88.1	94.0	92.8	92.0
Fabricated metal products	101.3	104.1	110.8	106.3	107.9
Machinery, except electrical	99.6	101.1	111.5	108.1	109.9
Electrical equipment and supplies	95.1	97.6	104.1	101.6	103.9
Transportation equipment	94.1	89.1	100.7	97.5	95.2
Instruments and related products	109.9	110.9	120.5	117.0	116.2
Miscellaneous manufacturing	88.6	94.5	96.7	90.0	94.8
NONDURABLE GOODS	96.9	100.2	100.6	98.2	101.2
Food and kindred products	98.7	105.3	95.0	98.0	104.2
Tobacco manufactures	65.7	80.4	69.5	62.5	69.3
Textile mill products	97.7	100.4	102.5	97.9	101.1
Apparel and other textile products	84.7	89.2	91.8	85.5	89.1
Paper and allied products	100.1	101.2	105.7	103.9	103.8
Printing and publishing	94.3	95.1	96.7	96.3	98.0
Chemicals and allied products	103.6	103.8	107.3	105.8	105.5
Petroleum and coal products	126.5	124.0	128.7	131.2	128.8
Rubber and plastics products, nec	129.3	131.3	140.2	135.1	137.0
Leather and leather products	69.0	73.6	77.2	68.8	72.7
SERVICE-PRODUCING	128.8	128.7	132.2	133.7	133.6
TRANSPORTATION AND PUBLIC UTILITIES	104.9	105.0	107.5	106.5	107.0
WHOLESALE AND RETAIL TRADE	124.4	124.3	127.0	128.4	128.2
WHOLESALE TRADE	118.9	118.6	123.8	123.9	124.0
RETAIL TRADE	126.4	126.3	128.2	130.1	129.7
FINANCE, INSURANCE, AND REAL ESTATE	137.7	135.1	140.1	142.2	142.2
SERVICES	144.0	143.9	148.4	151.0	150.9

¹For 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**

[1967 = 100]

Industry division and group	July 1977	Aug. 1977	June 1978	July 1978 ^p	Aug. 1978 ^p
	Payrolls				
TOTAL	231.1	232.5	260.5	262.9	264.3
GOODS-PRODUCING	206.2	209.2	238.1	238.2	241.4
MINING	308.8	294.8	370.0	370.9	370.7
CONTRACT CONSTRUCTION	240.7	243.8	282.4	296.9	299.8
MANUFACTURING	193.5	197.0	221.7	218.0	221.4
DURABLE GOODS	194.1	195.7	226.6	221.8	223.4
Ordnance and accessories	77.7	77.1	87.5	86.0	89.6
Lumber and wood products	232.3	237.2	274.5	270.7	272.7
Furniture and fixtures	192.5	205.9	231.6	221.1	236.5
Stone, clay, and glass products	222.9	224.4	254.5	254.2	252.0
Primary metal industries	200.3	200.3	228.7	228.0	227.2
Fabricated metal products	198.6	205.1	231.5	223.3	227.9
Machinery, except electrical	192.6	196.9	232.5	225.8	230.7
Electrical equipment and supplies	183.2	190.1	214.6	212.5	218.2
Transportation equipment	195.8	184.4	224.8	218.9	211.6
Instruments and related products	200.5	202.8	234.6	229.8	226.8
Miscellaneous manufacturing	163.4	174.1	190.9	179.0	189.9
NONDURABLE GOODS	192.4	199.3	213.2	211.7	218.1
Food and kindred products	199.1	214.0	206.4	215.1	229.0
Tobacco manufactures	164.6	192.4	200.7	179.2	188.9
Textile mill products	191.0	197.5	209.2	204.8	214.7
Apparel and other textile products	149.9	159.2	177.2	165.4	173.5
Paper and allied products	208.2	211.5	237.7	238.0	237.8
Printing and publishing	175.3	178.2	190.0	190.5	195.2
Chemicals and allied products	214.8	215.8	239.5	239.2	238.9
Petroleum and coal products	275.1	268.0	301.1	309.4	303.8
Rubber and plastics products, nec	241.2	245.4	277.7	269.9	274.4
Leather and leather products	120.2	128.9	146.0	130.4	137.6
SERVICE-PRODUCING	252.5	252.5	279.7	284.2	284.0
TRANSPORTATION AND PUBLIC UTILITIES	225.9	226.8	247.2	246.9	249.9
WHOLESALE AND RETAIL TRADE	237.3	236.7	263.0	267.3	266.8
WHOLESALE TRADE	229.8	229.2	259.3	262.5	262.3
RETAIL TRADE	241.3	240.7	264.9	269.9	269.2
FINANCE, INSURANCE, AND REAL ESTATE	239.6	240.5	268.5	275.8	274.2
SERVICES	294.2	294.2	326.9	333.7	332.4

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

p = preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^P	Aug. ^P
TOTAL PRIVATE	36.0	36.0	36.2	36.2	36.2	35.6	35.8	36.2	36.3	36.0	36.1	36.0	35.9
MINING	44.2	44.3	44.6	44.6	43.7	43.2	43.6	44.6	44.3	43.9	43.6	43.2	43.3
CONTRACT CONSTRUCTION	36.5	36.4	36.8	36.9	36.8	34.6	35.7	36.8	37.4	36.7	37.3	37.4	36.9
MANUFACTURING	40.3	40.3	40.4	40.5	40.5	39.6	39.9	40.6	40.6	40.3	40.4	40.4	40.3
<i>Overtime hours</i>	3.3	3.3	3.5	3.5	3.5	3.5	3.8	3.7	3.6	3.5	3.5	3.5	3.5
DURABLE GOODS	40.9	41.0	41.2	41.1	41.2	40.2	40.5	41.2	41.2	40.9	41.1	41.1	40.9
<i>Overtime hours</i>	3.5	3.5	3.8	3.7	3.7	3.7	4.0	3.9	3.9	3.7	3.7	3.8	3.7
Ordnance and accessories	40.2	40.6	40.8	40.2	41.1	40.2	37.9	41.1	40.3	40.7	40.9	40.4	41.0
Lumber and wood products	39.6	40.0	40.1	40.3	40.2	39.4	39.4	39.9	39.9	39.4	40.0	40.2	39.7
Furniture and fixtures	39.0	39.2	39.5	39.4	39.5	37.7	39.8	39.9	39.8	39.4	39.3	39.4	39.0
Stone, clay, and glass products	41.4	41.0	41.1	41.8	41.6	40.3	40.9	41.6	42.1	41.6	41.9	41.9	41.5
Primary metal industries	41.0	40.9	41.3	41.3	41.4	41.0	41.5	41.5	41.4	41.6	41.7	42.0	41.7
Fabricated metal products	40.9	40.9	41.1	41.1	41.5	40.3	40.7	41.3	41.4	41.0	41.1	40.9	40.8
Machinery, except electrical	41.8	41.8	42.0	41.9	41.9	40.9	41.7	42.2	42.2	42.0	42.3	41.9	41.9
Electrical equipment and supplies	40.3	40.3	40.3	40.2	40.3	39.5	39.6	40.4	40.3	40.1	40.2	40.5	40.1
Transportation equipment	42.3	42.6	42.7	42.5	42.2	41.1	40.6	41.7	41.9	41.4	41.7	41.5	41.8
Instruments and related products	40.3	40.3	40.6	40.4	40.4	39.8	40.3	41.1	41.2	40.7	40.8	40.6	40.3
Miscellaneous manufacturing, Ind.	38.8	39.0	39.1	39.0	38.9	38.0	38.3	39.2	39.3	38.9	39.0	38.8	38.6
NONDURABLE GOODS	39.3	39.3	39.4	39.5	39.5	38.7	39.1	39.7	39.8	39.5	39.5	39.4	39.3
<i>Overtime hours</i>	3.1	3.0	3.1	3.2	3.1	3.1	3.4	3.3	3.4	3.2	3.1	3.1	3.2
Food and kindred products	39.7	39.5	39.5	39.8	39.7	39.1	39.6	40.0	40.0	39.8	39.6	39.7	39.5
Tobacco manufactures	37.8	38.6	38.2	38.8	38.3	37.5	38.5	39.0	38.9	39.0	40.5	39.0	36.8
Textile mill products	40.2	40.3	40.5	40.7	40.6	40.0	40.3	40.6	40.7	40.3	40.1	40.0	40.1
Apparel and other textile products	35.5	35.3	35.6	35.7	35.8	33.9	35.2	35.9	36.1	35.8	35.9	35.8	35.6
Paper and allied products	42.4	42.7	42.8	42.7	42.9	42.2	42.4	43.4	43.4	42.9	43.0	42.8	42.7
Printing and publishing	37.7	38.0	37.9	37.9	37.9	37.4	37.5	38.1	38.1	37.4	37.5	37.7	37.8
Chemicals and allied products	41.8	41.7	41.6	41.7	41.7	41.6	41.7	42.1	41.9	41.8	41.9	41.7	41.7
Petroleum and coal products	43.0	42.8	43.2	43.3	43.9	43.6	43.4	44.0	43.8	43.5	43.8	43.9	43.7
Rubber and plastics products, nec.	40.8	40.7	40.9	40.9	40.7	39.8	39.4	40.6	41.0	40.8	40.9	40.8	40.9
Leather and leather products	37.3	37.6	37.7	37.8	37.2	36.6	36.6	37.4	38.3	37.7	37.6	37.2	37.5
TRANSPORTATION AND PUBLIC UTILITIES	40.0	39.9	39.7	40.3	40.2	39.8	40.4	40.6	40.1	40.3	40.1	40.0	40.0
WHOLESALE AND RETAIL TRADE	33.2	33.2	33.5	33.2	43.3	32.8	32.8	33.1	33.1	33.0	33.0	33.0	32.9
WHOLESALE TRADE	38.8	38.8	39.1	38.9	38.8	38.6	38.8	39.0	39.0	38.9	39.0	39.0	39.0
RETAIL TRADE	31.6	31.6	31.9	31.6	31.7	31.1	31.1	31.4	31.4	31.3	31.3	31.3	31.1
FINANCE, INSURANCE, AND REAL ESTATE	36.7	36.6	36.7	36.7	36.6	36.5	36.5	36.6	36.8	36.5	36.5	36.7	36.6
SERVICES	33.2	33.2	33.5	33.3	33.4	33.5	33.2	33.5	33.4	33.2	33.3	33.2	33.3

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

p = preliminary.

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

Industry	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^P	Aug. ^P
Average hourly earnings													
TOTAL PRIVATE	\$5.28	\$5.32	\$5.38	\$5.41	\$5.42	\$5.49	\$5.52	\$5.56	\$5.62	\$5.64	\$5.68	\$5.73	\$5.74
MINING	6.92	7.03	7.13	7.12	6.64	6.76	6.80	6.86	7.53	7.58	7.63	7.74	7.76
CONTRACT CONSTRUCTION	8.08	8.09	8.17	8.18	8.21	8.32	8.32	8.40	8.40	8.51	8.56	8.63	8.65
MANUFACTURING	5.68	5.73	5.79	5.81	5.83	5.90	5.95	5.97	6.00	6.03	6.08	6.14	6.17
TRANSPORTATION AND PUBLIC UTILITIES	6.93	7.03	7.11	7.18	7.24	7.29	7.32	7.36	7.45	7.47	7.49	7.53	7.50
WHOLESALE AND RETAIL TRADE	4.31	4.33	4.37	4.39	4.43	4.51	4.52	4.57	4.62	4.62	4.65	4.69	4.70
FINANCE, INSURANCE, AND REAL ESTATE	4.61	4.65	4.74	4.74	4.75	4.83	4.80	4.82	4.90	4.90	4.95	5.03	4.99
SERVICES	4.76	4.78	4.85	4.86	4.89	4.98	4.99	5.01	5.04	5.04	5.05	5.11	5.12
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	190.08	191.52	194.76	195.84	196.20	195.44	197.62	201.27	204.01	203.04	205.05	206.28	206.07
1967 dollars ²	103.81	104.20	105.62	105.75	105.48	104.23	104.73	105.82	106.37	104.88	104.99	105.08	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{2,3}	94.78	95.04	96.11	96.16	95.89	93.07	93.35	94.05	94.34	93.09	93.05	93.05	-

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

² See footnote 2, table C-5.

³ A major revision in the CPI was introduced beginning with the January 1978 data (see note on table C-5, and Explanatory Notes).

p = preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

C-9. Indexes of aggregate weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted

[1967 = 100]

Industry division and group	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^p	Aug. ^p
TOTAL	115.6	115.9	116.8	117.2	117.5	116.1	117.0	119.2	120.3	120.0	120.7	^c 121.0	120.8
GOODS-PRODUCING	100.6	100.9	101.7	102.3	102.1	99.5	101.4	104.3	106.8	106.1	107.1	^c 107.2	106.2
MINING	134.7	142.5	143.9	144.8	113.3	110.7	112.6	118.7	150.5	150.5	150.3	150.4	151.0
CONTRACT CONSTRUCTION	110.8	110.4	112.3	114.0	113.5	104.7	108.9	116.5	125.0	123.6	128.8	130.0	127.0
MANUFACTURING	97.6	97.8	98.4	98.8	99.7	98.2	99.7	101.7	102.1	101.5	101.8	^c 101.7	101.0
DURABLE GOODS	98.1	98.4	99.3	99.5	100.8	99.3	100.9	103.0	103.3	102.8	103.3	^c 103.6	103.2
Ordnance and accessories	39.3	39.1	38.2	38.2	40.2	39.8	38.1	41.3	40.5	40.9	41.7	41.2	42.3
Lumber and wood products	104.0	106.0	106.8	109.5	109.8	107.6	106.8	109.3	109.0	107.8	109.4	109.8	108.4
Furniture and fixtures	107.2	108.3	110.6	111.7	113.8	109.3	116.5	117.6	117.0	115.3	114.5	115.0	113.6
Stone, clay, and glass products	104.1	103.3	103.2	106.7	107.0	104.3	105.4	108.0	110.7	109.8	110.6	110.4	108.0
Primary metal industries	88.2	89.0	89.7	89.5	89.7	89.5	91.2	90.9	90.8	92.0	92.0	92.9	92.2
Fabricated metal products	103.3	103.1	105.0	105.7	107.7	105.3	107.6	109.1	109.7	108.9	109.1	108.6	107.2
Machinery, except electrical	103.5	103.6	105.5	104.9	106.0	104.0	107.0	109.1	110.0	109.7	111.3	111.9	112.4
Electrical equipment and supplies	98.3	97.8	98.8	99.4	100.4	98.9	100.3	103.4	103.1	102.8	103.3	105.0	104.7
Transportation equipment	95.4	96.5	96.2	94.5	96.7	96.5	96.3	99.0	99.1	98.2	97.9	^c 97.5	98.8
Instruments and related products	111.3	112.4	113.2	113.4	114.4	113.4	114.8	117.8	119.2	118.1	119.8	118.8	116.6
Miscellaneous manufacturing, Ind.	91.3	90.3	91.1	91.5	93.9	92.3	93.9	96.4	96.9	95.3	95.6	92.5	91.4
NONDURABLE GOODS	96.9	96.9	97.1	97.8	98.1	96.5	97.8	99.9	100.3	99.6	99.6	98.9	97.9
Food and kindred products	94.5	94.1	92.8	94.2	94.6	94.4	96.0	97.6	97.5	96.3	95.8	95.3	93.4
Tobacco manufactures	71.7	73.2	72.4	72.2	74.0	72.4	74.4	76.7	73.8	75.3	78.2	73.9	62.0
Textile mill products	98.9	99.4	100.2	101.4	100.8	99.3	100.4	101.3	101.2	100.5	99.9	100.1	99.7
Apparel and other textile products	87.8	87.2	87.8	88.6	89.0	84.2	87.2	89.4	90.8	89.8	90.0	88.4	87.8
Paper and allied products	99.4	99.7	100.2	99.6	100.8	99.3	100.2	103.1	103.7	103.5	104.1	104.0	102.0
Printing and publishing	95.1	95.7	95.7	95.9	95.9	94.6	95.3	97.4	97.6	96.1	96.8	97.4	98.0
Chemicals and allied products	103.4	103.0	102.6	103.0	103.5	103.8	104.5	105.5	105.2	106.1	106.4	105.9	105.0
Petroleum and coal products	120.4	120.8	122.8	124.8	125.7	126.6	127.8	128.9	127.2	124.5	125.4	124.8	125.1
Rubber and plastics products, nec	129.7	129.3	130.5	132.5	133.8	131.3	131.9	137.4	139.8	139.1	138.9	138.1	135.2
Leather and leather products	71.8	72.7	73.8	73.7	71.9	70.7	70.7	72.6	74.7	73.5	73.3	69.6	71.2
SERVICE-PRODUCING	126.1	126.4	127.2	127.5	128.2	127.6	127.8	129.4	129.7	129.6	130.1	130.5	130.9
TRANSPORTATION AND PUBLIC UTILITIES	103.5	103.9	102.9	105.1	105.6	103.5	105.4	106.3	105.6	106.2	105.9	104.6	105.4
WHOLESALE AND RETAIL TRADE	121.6	121.8	122.7	122.4	123.2	122.3	122.3	124.1	124.2	124.5	125.1	125.5	125.4
WHOLESALE TRADE	117.5	117.8	118.7	118.8	118.9	118.9	120.3	121.7	122.0	122.1	122.6	122.4	122.8
RETAIL TRADE	123.1	123.3	124.2	123.7	124.8	123.5	123.1	124.9	125.0	125.4	126.0	126.6	126.3
FINANCE, INSURANCE, AND REAL ESTATE	132.7	133.2	134.2	134.9	134.9	135.4	135.9	136.7	138.0	137.5	138.4	139.7	139.8
SERVICES	140.6	140.9	142.7	142.6	143.4	143.8	143.4	145.3	145.7	145.0	145.7	146.6	147.6

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

p = preliminary.

c = corrected.

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

Industry division	Millions of hours (Annual rate) ²			Percent change		
	JUNE 1978	JULY 1978	AUGUST 1978p	August 1977 to August 1978	June 1978 to July 1978	July 1978 to August 1978
TOTAL	163,500	164,059	163,526	4.1	0.3	-0.3
PRIVATE SECTOR	132,576	132,956	132,697	4.7	0.3	-0.2
MINING	2,079	2,076	2,111	10.6	-0.1	1.6
CONTRACT CONSTRUCTION	8,499	8,542	8,416	13.4	0.5	-1.5
MANUFACTURING	42,367	42,435	42,180	3.7	0.2	-0.6
DURABLE GOODS	25,514	25,655	25,532	5.4	0.6	-0.5
NONDURABLE GOODS	16,853	16,780	16,647	1.2	-0.4	-0.8
TRANSPORTATION AND PUBLIC UTILITIES	9,878	9,782	9,823	3.1	-1.0	0.4
WHOLESALE AND RETAIL TRADE	32,909	32,973	32,951	3.5	0.2	-0.1
FINANCE, INSURANCE, AND REAL ESTATE	9,019	9,096	9,091	5.2	0.8	-0.1
SERVICES	27,826	28,052	28,125	5.1	0.8	0.3
GOVERNMENT	30,924	31,103	30,829	2.0	0.6	-0.9

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 Survey 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**

[1987 = 100]

Item	Annual average		Quarterly indexes										
			1975		1976				1977				1978
	1976	1977	IV	I	II	III	IV	I	II	III	IV	I	IIr
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	116.1	118.1	113.5	115.1	115.9	116.8	116.8	117.6	117.2	118.9	119.1	117.7	117.9
Output	126.5	133.2	121.7	125.0	126.2	127.1	127.6	130.5	132.5	134.2	135.5	135.3	138.2
Hours	109.0	112.7	107.2	108.6	108.9	108.8	109.3	111.0	113.1	112.9	113.8	115.0	117.5
Compensation per hour	196.3	212.7	185.7	190.3	194.2	198.5	202.7	206.8	210.0	215.2	218.9	225.2	229.5
Real compensation per hour	115.2	117.2	112.3	113.7	114.7	115.6	116.8	116.8	116.1	117.5	118.2	119.3	118.5
Unit labor costs	169.2	180.1	163.6	165.3	167.6	170.0	173.6	175.9	179.2	181.0	183.8	191.4	194.7
Unit nonlabor payments	158.3	164.8	156.3	156.8	158.5	159.2	158.6	160.5	164.1	167.0	167.8	161.9	170.8
Implicit price deflator	165.4	174.9	161.1	162.4	164.5	166.3	168.5	170.6	174.0	176.3	178.4	181.3	186.5
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	114.0	115.6	111.3	112.6	114.1	114.7	114.4	115.2	114.9	116.1	116.4	115.4	115.4
Output	127.0	133.6	121.8	125.2	126.9	127.7	128.1	131.0	133.0	134.6	135.8	136.1	139.7
Hours	111.4	115.6	109.4	111.1	111.3	111.3	112.0	113.8	115.7	115.9	116.7	117.9	120.7
Compensation per hour	192.9	208.9	183.0	186.8	191.0	194.9	198.8	203.0	206.5	210.9	215.0	221.2	225.5
Real compensation per hour	113.1	115.1	110.7	111.6	112.7	113.5	114.5	114.6	114.2	115.2	116.1	117.2	116.5
Unit labor costs	169.2	180.7	164.3	165.8	167.4	169.9	173.8	176.3	179.7	181.6	184.8	191.7	191.6
Unit nonlabor payments	156.1	162.7	151.1	153.8	155.6	157.6	157.3	157.9	161.7	166.1	165.1	159.0	166.5
Implicit price deflator	164.8	174.6	159.8	161.8	163.4	165.7	168.2	170.0	173.6	176.4	178.1	180.6	185.2
MANUFACTURING:													
Output per hour of all persons	123.5	126.7	122.7	121.8	123.4	124.5	124.3	124.1	126.1	128.3	128.2	126.4	128.6
Output	119.3	126.9	115.5	117.8	119.2	120.0	120.3	122.6	126.6	128.6	129.8	129.7	133.9
Hours	96.6	100.2	94.1	96.7	96.6	96.4	96.8	98.7	100.3	100.2	101.3	102.6	104.1
Compensation per hour	195.6	213.2	184.8	189.1	194.0	197.7	201.5	206.3	210.5	215.2	220.1	226.0	229.7
Real compensation per hour	114.7	117.5	111.8	113.0	114.5	115.2	116.1	116.5	116.4	117.7	118.9	119.7	118.6
Unit labor costs	158.3	168.3	150.7	155.3	157.1	158.7	162.2	166.3	166.9	168.0	171.7	178.8	178.7
DURABLE GOODS													
Output per hour of all persons	118.7	121.3	117.2	116.7	118.8	120.0	119.1	118.6	121.2	122.9	122.5	120.3	123.3
Output	113.3	121.4	107.9	110.8	113.3	114.8	114.4	116.3	121.0	123.5	124.8	124.4	129.4
Hours	95.5	100.1	92.0	94.9	95.3	95.7	96.0	98.1	99.9	100.5	101.9	103.4	105.0
Compensation per hour	197.6	215.8	187.5	191.6	196.3	199.5	202.9	208.3	213.2	218.2	223.3	228.7	232.5
Real compensation per hour	115.9	118.9	113.4	114.5	115.9	116.2	116.9	117.6	117.9	119.2	120.6	121.2	120.0
Unit labor costs	166.5	177.9	159.9	164.2	165.1	166.2	170.3	175.7	175.9	177.5	182.2	190.1	188.6
NONDURABLE GOODS													
Output per hour of all persons	131.3	135.4	131.5	130.1	130.9	131.9	132.6	133.0	134.1	137.0	137.4	136.2	137.5
Output	129.1	135.7	127.8	129.2	128.9	128.5	129.8	132.6	135.5	136.9	138.0	138.3	141.2
Hours	98.3	100.3	97.2	99.4	98.5	97.4	97.9	99.7	101.1	99.9	100.4	101.5	102.9
Compensation per hour	192.8	208.7	181.5	185.9	190.8	195.0	199.6	203.3	206.3	210.7	214.3	220.8	224.4
Real compensation per hour	113.1	115.0	109.8	111.1	112.6	113.6	115.0	114.8	114.1	115.1	115.7	117.0	115.9
Unit labor costs	146.8	154.2	138.0	142.9	145.8	147.9	150.5	152.8	153.9	153.8	155.9	162.0	163.5
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	117.1	119.2	115.5	116.4	117.4	117.6	116.8	117.8	118.6	120.1	120.1	119.3	120.5
Output	133.8	141.0	128.7	132.3	134.1	134.4	134.2	137.5	140.5	142.3	143.6	143.6	148.5
Hours	114.3	118.3	111.4	113.6	114.2	114.3	114.9	116.7	118.5	118.5	119.6	120.4	123.3
Compensation per hour	194.9	212.0	185.3	188.8	192.8	196.9	201.2	205.4	209.7	214.5	218.3	224.8	229.4
Real compensation per hour	114.3	116.8	112.1	112.8	113.8	114.7	115.9	116.0	115.9	117.1	117.9	119.1	118.5
Total unit costs	172.0	182.0	167.5	168.0	169.8	172.8	177.3	178.8	180.8	182.5	185.6	191.5	192.8
Unit labor costs	166.5	177.9	160.5	162.2	164.3	167.4	172.2	174.3	176.8	178.5	181.9	188.5	190.4
Unit nonlabor costs	188.8	194.5	189.3	186.1	186.9	189.4	193.0	192.6	193.1	195.0	197.1	201.1	200.2
Unit profits	112.7	120.2	105.1	114.9	115.5	114.7	105.6	108.8	120.1	128.3	122.9	104.5	126.4
Implicit price deflator	163.2	172.8	158.2	160.1	161.7	164.2	166.6	168.4	171.8	174.5	176.3	178.6	183.0

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					
	IV 1976 to I 1977	I 1977 to II 1977	II 1977 to III 1977	III 1977 to IV 1977	IV 1977 to I 1978	I 1978 to II 1978	I 1976 to I 1977	II 1976 to II 1977	III 1976 to III 1977	IV 1976 to IV 1977	I 1977 to I 1978	II 1977 to II 1978
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	2.8	-1.2	5.8	0.6	-4.6	0.8	2.2	1.2	1.8	2.0	0.1	0.6
Output	9.3	6.5	5.0	4.0	-0.6	9.9	4.4	5.0	5.6	6.2	3.7	4.5
Hours	6.3	7.8	-0.7	3.4	4.2	9.1	2.2	3.8	3.7	4.1	3.6	3.9
Compensation per hour	8.3	6.4	10.3	7.0	11.9	8.0	8.7	8.1	8.4	8.0	8.9	9.3
Real compensation per hour	-0.0	2.2	5.0	2.2	3.7	-2.6	2.7	1.3	1.6	1.2	2.2	2.1
Unit labor costs	5.3	7.7	4.3	6.3	17.4	7.2	6.4	6.9	6.5	5.9	8.8	8.7
Unit nonlabor payments	4.8	9.3	7.3	1.9	-13.3	23.7	2.3	3.5	4.9	5.8	0.9	4.1
Implicit price deflator	5.2	8.2	5.2	4.9	6.7	12.0	5.0	5.8	6.0	5.9	6.3	7.2
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	2.7	-0.8	4.3	0.8	-3.3	1.2	2.2	0.7	1.2	1.7	0.2	0.7
Output	9.4	6.2	5.0	3.5	0.7	11.1	4.7	4.8	5.4	6.0	3.8	5.0
Hours	6.6	7.1	0.7	2.7	4.2	9.8	2.4	4.0	4.1	4.2	3.6	4.3
Compensation per hour	8.6	7.2	8.8	8.0	12.0	8.1	8.7	8.1	8.2	8.1	9.0	9.2
Real compensation per hour	0.3	-1.5	3.6	3.2	3.8	-2.5	2.7	1.3	1.5	1.4	2.2	2.0
Unit labor costs	5.8	8.1	4.3	7.1	15.8	6.9	6.3	7.4	6.9	6.3	8.7	8.4
Unit nonlabor payments	1.4	10.1	11.4	-2.6	-13.8	20.2	2.6	3.9	5.4	4.9	0.7	3.0
Implicit price deflator	4.4	8.7	6.5	4.0	5.8	10.1	5.1	6.2	6.4	5.9	6.2	6.7
MANUFACTURING:												
Output per hour of all persons	-0.6	6.6	7.1	-0.3	-5.6	7.2	1.9	2.2	3.0	3.2	1.8	2.0
Output	7.7	13.7	6.6	4.0	-0.5	13.6	4.0	6.1	7.1	7.9	5.8	5.8
Hours	8.3	6.6	-0.5	4.3	5.4	6.0	2.1	3.9	4.0	4.6	3.9	3.8
Compensation per hour	9.9	8.4	9.8	8.8	11.1	6.8	9.1	8.5	9.0	9.2	9.5	9.1
Real compensation per hour	1.5	-0.4	4.6	3.9	3.0	-3.7	3.1	1.7	2.2	2.4	2.8	1.9
Unit labor costs	10.5	1.6	2.6	9.1	17.7	-0.4	7.1	6.2	5.8	5.9	7.6	7.0
DURABLE GOODS												
Output per hour of all persons	-1.9	9.1	5.8	-1.2	-7.0	10.1	1.6	2.0	2.4	2.8	1.5	1.7
Output	6.9	17.1	8.3	4.5	-1.5	17.1	5.0	6.9	7.5	9.1	6.9	6.9
Hours	8.9	7.4	2.3	5.9	5.9	6.3	3.4	4.8	5.0	6.1	5.3	5.1
Compensation per hour	11.1	9.6	9.8	9.6	10.2	6.7	8.7	8.6	9.4	10.0	9.8	9.1
Real compensation per hour	2.6	0.7	4.6	4.7	2.2	-3.7	2.7	1.7	2.6	3.1	3.0	1.9
Unit labor costs	13.2	0.5	3.8	11.0	18.5	-3.1	7.0	6.5	6.8	7.0	8.2	7.2
NONDURABLE GOODS												
Output per hour of all persons	1.4	3.2	9.0	1.2	-3.4	3.0	2.3	2.4	3.9	3.6	2.4	2.3
Output	8.8	9.0	4.1	3.2	1.1	8.7	2.6	5.1	6.6	6.2	4.3	4.2
Hours	7.4	5.6	-4.5	2.0	4.6	5.5	0.3	2.6	2.6	2.5	1.9	1.8
Compensation per hour	7.6	6.0	8.9	6.9	12.7	6.8	9.4	8.1	8.1	7.3	8.6	8.8
Real compensation per hour	-0.6	-2.5	3.6	2.1	4.5	-3.7	3.3	1.3	1.3	0.6	1.9	1.6
Unit labor costs	6.2	2.8	-0.1	5.6	16.6	3.7	6.9	5.6	4.0	3.6	6.0	6.3
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	3.5	2.7	5.3	-0.2	-2.6	4.1	1.2	1.0	2.1	2.8	1.2	1.6
Output	9.9	9.2	5.2	3.6	-0.0	14.5	3.9	4.8	5.9	7.0	4.5	5.7
Hours	6.2	6.3	-0.1	3.9	2.7	10.1	2.7	3.7	3.7	4.1	3.2	4.1
Compensation per hour	8.7	8.7	9.3	7.5	12.4	8.5	8.8	8.8	8.9	8.5	9.5	9.4
Real compensation per hour	0.3	-0.1	4.1	2.7	4.2	-2.1	2.8	1.9	2.1	1.7	2.7	2.2
Total unit costs	3.5	4.6	3.9	6.8	13.6	2.7	6.4	6.5	5.6	4.7	7.1	6.7
Unit labor costs	5.0	5.8	3.9	7.7	15.3	4.3	7.5	7.6	6.6	5.6	8.1	7.7
Unit nonlabor costs	-0.7	1.0	3.9	4.3	8.5	-1.8	3.5	3.3	3.0	2.1	4.4	3.7
Unit profits	12.9	48.2	30.4	-15.8	-47.8	114.0	-5.3	3.9	11.9	16.4	-4.0	5.2
Implicit price deflator	4.3	8.3	6.4	4.2	5.5	10.1	5.2	6.2	6.3	5.8	6.1	6.5

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		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
ALABAMA	\$199.79	\$225.00	\$226.59	40.2	41.9	41.5	\$4.97	\$5.37	\$5.46
Birmingham	240.59	264.50	269.73	40.3	41.2	40.5	5.97	6.42	6.66
Mobile	249.40	273.97	276.45	42.2	41.7	42.4	5.91	6.57	6.52
ALASKA	400.89	448.70	427.43	48.3	49.8	49.3	8.30	9.01	8.67
ARIZONA	219.30	243.60	249.24	39.8	40.6	40.2	5.51	6.00	6.20
Phoenix	220.55	244.61	252.53	40.1	40.7	40.6	5.50	6.01	6.22
Tucson	212.85	224.40	222.52	38.7	39.3	38.7	5.50	5.71	5.75
ARKANSAS	172.03	185.93	189.68	40.1	39.9	39.6	4.29	4.66	4.79
Fayetteville-Springdale	153.12	166.99	165.78	40.4	39.2	39.1	3.79	4.26	4.24
Fort Smith	171.30	191.75	189.59	39.2	39.7	38.3	4.37	4.83	4.95
Little Rock-North Little Rock	196.89	211.55	214.53	40.1	41.4	41.9	4.91	5.11	5.12
Pine Bluff	222.14	255.52	247.39	41.6	42.8	41.3	5.34	5.97	5.99
CALIFORNIA	241.20	257.44	256.86	40.0	40.1	39.7	6.03	6.42	6.47
Anaheim-Santa Ana-Garden Grove	223.30	239.90	238.95	40.6	40.8	40.5	5.50	5.88	5.90
Bakersfield	247.98	275.02	272.25	39.3	39.8	39.4	6.31	6.91	6.91
Fresno	206.77	230.87	230.29	37.8	39.6	38.9	5.47	5.83	5.92
Los Angeles-Long Beach	224.64	240.98	238.80	39.9	40.5	40.0	5.63	5.95	5.97
Modesto	245.17	247.89	254.92	39.8	39.1	39.4	6.16	6.34	6.47
Oxnard-Simi Valley-Ventura	202.67	222.80	222.22	38.9	40.0	39.4	5.21	5.57	5.64
Riverside-San Bernardino-Ontario	241.56	264.11	267.07	39.6	40.2	40.1	6.10	6.57	6.66
Sacramento	262.01	269.35	275.41	39.4	38.7	38.9	6.65	6.96	7.08
Salinas-Seaside-Monterey	225.59	225.32	243.46	38.3	36.4	38.4	5.89	6.19	6.34
San Diego	228.13	241.57	243.59	38.6	38.9	39.1	5.91	6.21	6.23
San Francisco-Oakland	291.67	310.40	311.22	39.9	40.0	39.9	7.31	7.76	7.80
San Jose	260.71	272.28	272.56	40.8	40.1	40.2	6.39	6.79	6.78
Santa Barbara-Santa Maria-Lompoc	210.50	222.85	219.41	39.2	37.9	37.7	5.37	5.88	5.82
Santa Rosa	224.07	239.17	238.75	38.5	38.7	38.2	5.82	6.18	6.25
Stockton	269.47	266.44	277.36	40.1	37.9	38.9	6.72	7.03	7.13
Vallejo-Fairfield-Napa	232.87	264.62	266.11	37.2	38.8	38.4	6.26	6.82	6.93
COLORADO ¹	230.66	246.14	249.42	39.7	39.7	40.1	5.81	6.20	6.22
Denver-Boulder ¹	226.58	245.57	247.82	39.2	39.8	40.1	5.78	6.17	6.18
CONNECTICUT	230.04	249.40	249.65	41.3	42.2	42.1	5.57	5.91	5.93
Bridgeport	239.94	268.90	262.24	43.0	44.3	44.0	5.58	6.07	5.96
Hartford	253.90	271.78	269.02	42.6	42.8	42.5	5.96	6.35	6.33
New Britain	237.72	258.34	257.79	42.0	42.7	42.4	5.66	6.05	6.08
New Haven-West Haven	228.48	254.10	253.57	40.8	42.0	41.5	5.60	6.05	6.11
Stamford	231.74	250.67	251.68	40.8	42.2	41.6	5.68	5.94	6.05
Waterbury	195.70	221.45	217.26	41.2	43.0	41.7	4.75	5.15	5.21
DELAWARE	225.61	272.08	268.86	38.5	41.1	41.3	5.86	6.62	6.51
Wilmington	271.95	303.62	300.44	39.7	40.7	40.6	6.85	7.46	7.40
DISTRICT OF COLUMBIA:									
Washington SMSA	211.91	213.17	212.62	38.6	38.9	38.8	5.49	5.48	5.48
FLORIDA	187.40	205.18	206.14	40.3	41.2	40.9	4.65	4.98	5.04
Fort Lauderdale-Hollywood	174.44	194.21	191.23	39.2	40.8	40.6	4.45	4.76	4.71
Jacksonville	228.65	247.63	253.62	41.8	41.9	42.2	5.47	5.91	6.01
Miami	161.18	175.24	176.88	39.7	40.1	40.2	4.06	4.37	4.40
Orlando	209.66	224.61	230.54	42.1	42.3	42.3	4.98	5.31	5.45
Pensacola	238.29	265.74	264.55	42.4	43.0	42.6	5.62	6.18	6.21
Tampa-St. Petersburg	201.38	213.31	214.32	40.6	41.1	40.9	4.96	5.19	5.24
West Palm Beach-Boca Raton	214.90	234.35	234.32	40.7	41.7	41.4	5.28	5.62	5.66
GEORGIA	181.85	200.33	198.20	40.5	40.8	39.8	4.49	4.91	4.98
Atlanta	218.69	232.36	223.47	40.2	40.2	39.0	5.44	5.78	5.73
Savannah	239.69	266.49	271.36	43.5	42.3	42.6	5.51	6.30	6.37
HAWAII	198.90	210.92	218.04	39.7	37.8	39.5	5.01	5.58	5.52
Honolulu	186.52	205.16	208.67	38.3	36.9	38.5	4.87	5.56	5.42
IDAHO	233.64	274.58	(*)	39.6	40.8	(*)	5.90	6.73	(*)
Boise City	209.92	223.89	(*)	41.0	39.2	(*)	5.12	5.79	(*)

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		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
ILLINOIS	\$251.59	\$273.88	\$267.11	39.9	40.5	39.3	\$6.31	\$6.77	\$6.79
Bloomington—Normal	188.90	229.70	237.25	39.1	39.6	39.9	4.82	5.79	5.95
Champaign—Urbana—Rantoul	229.48	247.22	254.01	38.9	37.3	37.7	5.89	6.62	6.73
Chicago SMSA	258.57	269.96	265.25	41.1	41.3	40.4	6.29	6.54	6.57
Davenport—Rock Island—Moline	265.48	286.63	275.52	39.4	39.5	38.1	6.73	7.26	7.22
Decatur	270.89	295.72	255.84	40.2	41.1	35.8	6.75	7.19	7.15
Peoria	281.78	309.38	308.83	37.5	37.8	37.5	7.51	8.19	8.24
Rockford	247.95	277.41	273.01	40.5	41.7	41.1	6.13	6.65	6.64
Springfield	299.40	300.88	306.22	43.1	41.4	41.9	6.94	7.26	7.31
INDIANA	272.24	294.94	296.12	41.0	41.6	41.3	6.64	7.09	7.17
Gary—Hammond—East Chicago	352.46	388.41	(*)	40.7	41.9	(*)	8.66	9.27	(*)
Indianapolis	279.22	296.80	(*)	41.8	42.4	(*)	6.68	7.00	(*)
IOWA	252.41	275.31	280.19	39.5	39.9	39.8	6.39	6.90	7.04
Cedar Rapids	249.31	269.96	284.57	39.2	39.7	39.8	6.36	6.80	7.15
Des Moines	254.51	279.55	284.16	37.1	38.4	38.4	6.86	7.28	7.40
Dubuque	346.10	346.47	349.29	43.7	41.1	40.9	7.92	8.43	8.54
Sioux City	200.63	246.01	230.68	37.5	38.2	36.5	5.35	6.44	6.32
Waterloo—Cedar Falls	323.61	356.45	406.08	40.3	41.4	47.0	8.03	8.61	8.64
KANSAS	220.42	237.86	239.72	41.2	40.8	40.7	5.35	5.83	5.89
Topeka	239.55	248.44	253.99	42.1	40.2	40.9	5.69	6.18	6.21
Wichita	236.14	259.06	262.88	41.5	42.4	42.4	5.69	6.11	6.20
KENTUCKY	222.87	247.16	241.80	39.1	39.8	39.0	5.70	6.21	6.20
Louisville	261.20	287.04	281.70	40.0	41.3	40.3	6.53	6.95	6.99
LOUISIANA	241.08	266.28	266.15	41.0	42.2	41.2	5.88	6.31	6.46
Baton Rouge	310.43	337.12	345.77	42.7	44.3	44.5	7.27	7.61	7.77
New Orleans	228.91	251.29	247.40	39.4	40.4	38.9	5.81	6.22	6.36
Shreveport	220.37	237.80	239.03	41.5	41.5	41.0	5.31	5.73	5.83
MAINE	182.34	196.58	198.28	39.9	40.2	40.3	4.57	4.89	4.92
Lewiston—Auburn	143.99	164.74	162.93	37.4	39.6	38.7	3.85	4.16	4.21
Portland	177.97	198.09	199.00	39.2	40.1	39.8	4.54	4.94	5.00
MARYLAND	241.59	262.76	263.31	39.8	40.3	40.2	6.07	6.52	6.55
Baltimore	254.23	277.85	276.89	40.1	40.8	40.6	6.34	6.81	6.82
MASSACHUSETTS	200.99	225.50	(*)	39.8	41.0	(*)	5.05	5.50	(*)
Boston	222.64	247.64	(*)	39.9	41.0	(*)	5.58	6.04	(*)
Brockton	159.42	172.80	(*)	37.6	38.4	(*)	4.24	4.50	(*)
Fall River	146.67	164.05	(*)	35.6	37.2	(*)	4.12	4.41	(*)
Lawrence—Haverhill	195.82	220.98	(*)	39.4	40.4	(*)	4.97	5.47	(*)
Lowell	175.26	201.14	(*)	38.1	40.8	(*)	4.60	4.93	(*)
New Bedford	170.56	191.58	(*)	38.5	39.5	(*)	4.43	4.85	(*)
Springfield—Chicopee—Holyoke	210.94	229.61	(*)	40.8	41.9	(*)	5.17	5.48	(*)
Worcester	211.34	231.28	(*)	39.8	41.3	(*)	5.31	5.60	(*)
MICHIGAN	327.34	341.43	(*)	43.5	42.7	(*)	7.53	8.00	(*)
Ann Arbor	378.32	373.80	395.39	46.3	43.4	44.9	8.17	8.61	8.81
Battle Creek	316.44	340.52	338.71	41.3	42.3	41.2	7.66	8.05	8.22
Bay City	317.77	339.87	329.76	45.1	43.4	42.5	7.05	7.81	7.76
Detroit	346.38	380.57	372.29	43.2	42.9	42.9	8.02	8.87	8.68
Flint	397.80	399.91	412.11	46.8	45.6	46.0	8.50	8.77	8.96
Grand Rapids	249.17	274.44	267.94	40.7	41.6	40.9	6.12	6.60	6.55
Jackson	274.03	314.21	312.25	42.1	44.1	43.2	6.52	7.13	7.23
Kalamazoo—Portage	276.08	294.15	291.03	40.9	40.6	40.5	6.75	7.25	7.19
Lansing—East Lansing	319.20	353.72	354.94	42.1	42.0	39.0	7.58	8.42	9.10
Muskegon—Norton Shores—Muskegon Heights	261.17	291.62	276.58	40.7	41.3	39.5	6.42	7.06	7.00
Saginaw	381.07	412.59	414.08	44.9	44.9	45.2	8.49	9.19	9.16
MINNESOTA	233.24	254.40	253.68	39.2	40.0	39.7	5.95	6.36	6.39
Duluth—Superior	218.62	240.12	238.90	38.9	39.3	39.1	5.62	6.11	6.11
Minneapolis—St. Paul	253.68	276.48	272.56	39.7	40.9	40.2	6.39	6.76	6.78
MISSISSIPPI	164.39	181.60	179.66	39.9	40.0	39.4	4.12	4.54	4.56
Jackson	181.44	204.85	199.70	40.5	41.3	40.1	4.48	4.96	4.98

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		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
MISSOURI	\$230.00	\$248.84	\$247.78	40.0	40.2	39.9	\$5.75	\$6.19	\$6.21
Kansas City	258.40	281.26	281.88	40.0	41.0	40.5	6.46	6.86	6.96
St. Joseph	212.26	218.67	220.52	40.2	39.4	39.1	5.28	5.55	5.64
St. Louis ²	269.21	293.41	291.99	41.1	41.5	41.3	6.55	7.07	7.07
Springfield	195.13	206.80	209.75	39.5	38.8	38.7	4.94	5.33	5.42
MONTANA	260.94	343.54	327.13	40.9	44.5	41.2	6.38	7.72	7.94
NEBRASKA	221.53	235.91	234.67	41.1	41.1	40.6	5.39	5.74	5.78
Lincoln	214.50	224.58	221.31	39.0	38.0	36.4	5.50	5.91	6.08
Omaha	237.80	250.48	256.63	41.0	40.4	40.8	5.80	6.20	6.29
NEVADA	235.98	258.46	256.75	36.7	39.4	39.5	6.43	6.56	6.50
Las Vegas	301.85	323.18	(*)	40.3	40.6	(*)	7.49	7.96	(*)
NEW HAMPSHIRE	179.73	197.72	195.53	39.5	40.6	39.5	4.55	4.87	4.95
Manchester	(*)	175.28	176.15	(*)	39.3	38.8	(*)	4.46	4.54
Nashua	(*)	221.43	216.95	(*)	41.7	40.4	(*)	5.31	5.37
NEW JERSEY	239.37	255.42	255.23	41.2	41.6	41.3	5.81	6.14	6.18
Atlantic City	176.39	174.50	168.52	36.9	38.1	37.7	4.78	4.58	4.47
Camden ³	227.88	252.13	247.63	39.7	40.6	40.2	5.74	6.21	6.16
Hackensack ⁴	224.35	247.54	248.39	41.7	43.2	42.9	5.38	5.73	5.79
Jersey City ⁴	222.72	246.23	242.35	39.7	40.3	39.6	5.61	6.11	6.12
New Brunswick—Perth Amboy—Sayreville ⁴	259.11	270.03	272.74	42.2	41.1	41.2	6.14	6.57	6.62
Newark ⁴	245.37	259.49	257.07	41.8	42.4	41.8	5.87	6.12	6.14
Paterson—Clifton—Passaic ⁴	222.71	244.08	241.38	40.2	41.3	40.5	5.54	5.91	5.96
Trenton	241.13	260.48	260.65	40.8	40.7	40.6	5.91	6.40	6.42
NEW MEXICO	168.72	187.07	179.79	38.0	39.3	37.3	4.44	4.76	4.82
Albuquerque	176.56	185.73	185.98	38.3	39.1	37.8	4.61	4.75	4.92
NEW YORK	221.13	240.39	(*)	39.0	39.8	(*)	5.67	6.04	(*)
Albany—Schenectady—Troy	240.59	260.09	(*)	40.3	40.2	(*)	5.97	6.47	(*)
Binghamton	202.31	225.09	(*)	40.3	41.3	(*)	5.02	5.45	(*)
Buffalo	301.56	316.11	(*)	42.0	41.0	(*)	7.18	7.71	(*)
Elmira	221.20	244.22	(*)	40.0	40.3	(*)	5.53	6.06	(*)
Monroe County ⁵	284.00	312.06	(*)	41.1	42.0	(*)	6.91	7.43	(*)
Nassau—Suffolk ⁶	212.70	222.55	(*)	39.1	39.6	(*)	5.44	5.62	(*)
New York—Northeastern New Jersey	213.01	230.62	(*)	38.8	39.9	(*)	5.49	5.78	(*)
New York and Nassau—Suffolk ⁴	192.68	209.72	(*)	36.7	38.2	(*)	5.25	5.49	(*)
New York SMSA ⁶	190.94	206.93	(*)	36.3	37.9	(*)	5.26	5.46	(*)
New York City ⁷	187.76	202.33	(*)	35.9	37.4	(*)	5.23	5.41	(*)
Poughkeepsie	239.67	240.44	(*)	41.9	41.1	(*)	5.72	5.85	(*)
Rochester	268.30	295.24	(*)	40.9	41.7	(*)	6.56	7.08	(*)
Rockland County ⁷	217.87	246.08	(*)	40.8	42.5	(*)	5.34	5.79	(*)
Syracuse	250.91	267.80	(*)	41.2	41.2	(*)	6.09	6.50	(*)
Utica—Rome	212.80	231.42	(*)	40.0	40.6	(*)	5.32	5.70	(*)
Westchester County ⁷	214.27	248.46	(*)	39.1	42.4	(*)	5.48	5.86	(*)
NORTH CAROLINA	163.53	176.80	177.36	39.5	40.0	39.5	4.14	4.42	4.49
Asheville	160.00	176.26	174.76	39.8	40.8	39.9	4.02	4.32	4.38
Charlotte—Gastonia	167.66	182.82	182.20	40.4	40.9	40.4	4.15	4.47	4.51
Greensboro—Winston-Salem—High Point	178.20	194.49	192.94	39.6	40.1	39.7	4.50	4.85	4.86
Raleigh—Durham	184.47	204.00	203.00	39.0	40.8	40.6	4.73	5.00	5.00
NORTH DAKOTA	(*)	221.39	225.59	(*)	40.4	40.5	(*)	5.48	5.57
Fargo—Moorhead	(*)	239.80	242.53	(*)	39.9	39.5	(*)	6.01	6.14
OHIO	283.92	308.85	306.79	42.0	42.6	42.2	6.76	7.25	7.27
Akron	289.33	305.73	301.14	42.3	42.7	42.0	6.84	7.16	7.17
Canton	283.15	303.00	311.40	40.8	40.4	40.6	6.94	7.50	7.67
Cincinnati	262.91	289.00	285.18	41.6	42.5	42.0	6.32	6.80	6.79
Cleveland	295.15	320.85	324.20	42.9	43.3	43.4	6.88	7.41	7.47
Columbus	244.21	262.20	263.74	40.1	40.4	40.7	6.09	6.49	6.48
Dayton	296.61	318.38	313.11	43.3	43.2	42.6	6.85	7.37	7.35
Toledo	302.56	320.03	315.33	43.1	42.9	42.1	7.02	7.46	7.49
Youngstown—Warren	312.26	361.25	369.37	40.5	42.5	42.9	7.71	8.50	8.61

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		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
OKLAHOMA	\$214.93	\$234.67	\$234.18	40.4	40.6	40.1	\$5.32	\$5.78	\$5.84
Oklahoma City	213.72	227.13	227.03	41.1	40.2	39.9	5.20	5.65	5.69
Tulsa	228.85	251.88	246.08	39.8	40.3	39.5	5.75	6.25	6.23
OREGON	260.74	295.40	298.69	38.8	40.3	40.2	6.72	7.33	7.43
Eugene—Springfield	287.29	350.45	(*)	41.1	43.0	(*)	6.99	8.15	(*)
Jackson County	249.02	294.71	(*)	36.3	39.4	(*)	6.86	7.48	(*)
Portland	245.86	269.43	(*)	38.0	38.6	(*)	6.47	6.98	(*)
PENNSYLVANIA	232.64	254.52	253.03	39.7	40.4	40.1	5.86	6.30	6.31
Allentown—Bethlehem—Easton	229.70	245.38	246.02	38.8	38.4	38.5	5.92	6.39	6.39
Altoona	195.67	213.62	205.92	38.9	38.7	38.4	5.03	5.52	5.36
Delaware Valley ⁸	240.56	264.47	261.20	39.5	40.5	40.0	6.09	6.53	6.53
Erie	243.08	259.38	261.87	41.2	41.5	41.5	5.90	6.25	6.31
Harrisburg	213.59	227.61	222.66	39.7	40.5	39.2	5.38	5.62	5.68
Johnstown	266.79	269.74	278.56	40.3	40.2	41.7	6.62	6.71	6.68
Lancaster	203.82	222.15	222.08	39.5	40.1	39.8	5.16	5.54	5.58
Northeast Pennsylvania	167.08	185.25	184.38	36.4	37.5	37.4	4.59	4.94	4.93
Philadelphia SMSA	(*)	262.44	259.85	(*)	40.5	40.1	(*)	6.48	6.48
Pittsburgh	287.85	310.54	311.71	40.6	40.7	40.8	7.09	7.63	7.64
Reading	207.58	225.81	232.58	38.8	39.0	40.1	5.35	5.79	5.80
Scranton ⁹	177.46	194.22	195.42	38.0	39.0	39.4	4.67	4.98	4.96
Wilkes-Barre—Hazleton ¹⁰	159.56	179.45	177.61	35.3	36.4	36.1	4.52	4.93	4.92
Williamsport	199.05	222.88	219.46	38.5	39.8	39.4	5.17	5.60	5.57
York	209.00	237.72	235.04	40.9	42.0	41.6	5.11	5.66	5.65
RHODE ISLAND	171.55	183.21	182.60	38.9	39.4	39.1	4.41	4.65	4.67
Providence—Warwick—Pawtucket	172.38	185.00	184.86	39.0	39.7	39.5	4.42	4.66	4.68
SOUTH CAROLINA	175.34	187.37	190.69	40.4	41.0	40.4	4.34	4.57	4.72
Charleston—North Charleston	200.72	219.34	211.96	41.3	42.1	40.3	4.86	5.21	5.26
Columbia	173.26	183.53	183.38	39.2	39.3	39.1	4.42	4.67	4.69
Greenville—Spartanburg	174.87	187.05	184.27	40.2	41.2	39.8	4.35	4.54	4.63
SOUTH DAKOTA	190.87	210.43	213.83	39.6	41.1	41.2	4.82	5.12	5.19
Rapid City	153.45	194.24	195.77	46.5	39.4	40.2	3.30	4.93	4.87
Sioux Falls	242.08	258.94	259.95	41.1	42.8	42.2	5.89	6.05	6.16
TENNESSEE	187.93	206.14	(*)	39.9	40.5	(*)	4.71	5.09	(*)
Chattanooga	197.60	204.32	(*)	40.0	40.3	(*)	4.94	5.07	(*)
Knoxville	225.58	241.94	(*)	40.5	40.8	(*)	5.57	5.93	(*)
Memphis	220.86	237.56	(*)	40.6	41.1	(*)	5.44	5.78	(*)
Nashville—Davidson	203.70	218.02	(*)	39.2	40.3	(*)	5.12	5.41	(*)
TEXAS	221.27	243.36	244.73	40.6	41.6	41.2	5.45	5.85	5.94
Amarillo	231.29	224.47	231.02	45.8	41.8	41.7	5.05	5.37	5.54
Austin	182.57	190.83	195.50	41.4	42.5	42.5	4.41	4.49	4.60
Beaumont	323.42	347.27	347.32	41.2	41.0	41.2	7.85	8.47	8.43
Corpus Christi	245.83	278.64	281.42	40.3	43.0	42.9	6.10	6.48	6.56
Dallas—Fort Worth	202.29	228.10	225.64	39.9	41.7	41.1	5.07	5.47	5.49
El Paso	147.20	166.36	168.39	40.0	39.8	38.8	3.68	4.18	4.34
Galveston—Texas City	364.64	398.74	393.80	43.0	43.2	44.0	8.48	9.23	8.95
Houston	284.19	308.44	308.85	42.8	44.0	43.5	6.64	7.01	7.10
Lubbock	160.78	178.53	180.50	39.6	40.3	40.2	4.06	4.43	4.49
San Antonio	171.78	174.60	174.86	40.9	38.8	38.6	4.20	4.50	4.53
Waco	185.92	200.19	204.60	41.5	39.8	41.5	4.48	5.03	4.93
Wichita Falls	193.26	209.88	213.33	39.2	39.6	40.1	4.93	5.30	5.32
UTAH	205.65	221.82	223.65	39.7	39.4	39.1	5.18	5.63	5.72
Salt Lake City—Ogden	189.95	212.53	216.40	39.3	39.8	40.0	4.83	5.34	5.41
VERMONT	190.00	207.36	206.96	40.0	40.9	40.5	4.75	5.07	5.11
Burlington	222.65	238.65	237.30	42.9	43.0	42.3	5.19	5.55	5.61
Springfield	215.13	244.80	239.37	40.9	42.5	41.2	5.26	5.76	5.81
VIRGINIA	185.65	201.30	201.45	39.5	40.1	39.5	4.70	5.02	5.10
Bristol	166.41	179.47	187.04	38.7	39.1	39.3	4.30	4.59	4.76
Lynchburg	179.49	207.16	203.09	38.6	40.7	39.9	4.65	5.09	5.09
Norfolk—Virginia Beach—Portsmouth	205.32	236.32	242.02	40.9	42.2	41.8	5.02	5.60	5.79
Northern Virginia ¹¹	214.00	240.54	245.32	40.0	40.7	41.3	5.35	5.91	5.94
Petersburg—Colonial Heights—Hopewell	211.60	245.74	237.54	36.8	39.7	37.0	5.75	6.19	6.42

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS**

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P	JULY 1977	JUNE 1978	JULY 1978P
VIRGINIA—Continued									
Richmond	\$213.54	\$251.53	\$241.10	38.2	40.7	38.7	\$5.59	\$6.18	\$6.23
Roanoke	166.27	183.01	185.60	39.4	40.4	40.0	4.22	4.53	4.64
WASHINGTON	268.52	297.40	(*)	39.2	39.6	(*)	6.85	7.51	(*)
Seattle—Everett	271.83	301.06	(*)	39.0	39.2	(*)	6.97	7.68	(*)
Spokane	234.81	258.84	(*)	39.2	39.7	(*)	5.99	6.52	(*)
Tacoma	276.58	310.02	(*)	40.2	39.9	(*)	6.88	7.77	(*)
WEST VIRGINIA	242.48	260.43	260.31	39.3	39.4	39.5	6.17	6.61	6.59
Charleston	275.63	308.74	314.79	41.2	43.0	43.3	6.69	7.18	7.27
Huntington—Ashland	266.78	292.66	290.54	39.7	40.2	39.8	6.72	7.28	7.30
Parkersburg—Marietta	262.69	288.43	288.56	40.4	41.5	41.7	6.50	6.95	6.92
Wheeling	256.56	276.51	279.86	39.9	39.9	40.5	6.43	6.93	6.91
WISCONSIN	244.16	270.97	269.65	40.0	41.1	40.6	6.11	6.60	6.64
Appleton—Oshkosh	248.23	272.18	272.60	42.1	42.5	42.1	5.89	6.41	6.48
Eau Claire	248.38	279.15	269.44	40.6	42.2	41.6	6.12	6.61	6.48
Green Bay	253.69	284.77	277.35	41.6	42.1	41.7	6.11	6.76	6.66
Kenosha	281.49	302.36	305.43	39.8	40.0	40.4	7.07	7.56	7.57
La Crosse	202.04	219.69	214.13	39.9	40.7	39.4	5.07	5.40	5.43
Madison	274.84	273.31	274.86	40.4	39.9	39.4	6.80	6.85	6.97
Milwaukee	270.24	294.98	296.20	40.0	40.8	40.6	6.76	7.23	7.30
Racine	243.18	287.97	288.82	38.0	41.0	40.0	6.40	7.03	7.21
WYOMING	234.26	233.09	237.25	40.6	37.9	37.9	5.77	6.15	6.26
Casper	286.21	266.38	281.97	41.3	38.0	39.0	6.93	7.01	7.23
Cheyenne	242.39	288.68	305.69	42.9	39.6	39.7	5.65	7.29	7.70

¹ Based on the 1967 Standard Industrial Classification Manual.
² Revised to 1977 benchmark; not strictly comparable with previously published data.
³ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
⁴ Subarea of New York—Northeastern New Jersey.
⁵ Subarea of Rochester Standard Metropolitan Statistical Area.
⁶ Area included in New York and Nassau—Suffolk combined SMSA's.
⁷ Subarea of New York Standard Metropolitan Statistical Area.
⁸ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
⁹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

¹⁰ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
¹¹ 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, 1969 to date

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.4	4.1	3.7	4.0	4.0	4.9	5.3	4.6	6.0	5.3	4.8	3.6	2.7
1973	4.8	4.6	4.0	4.4	4.5	5.3	5.9	5.1	6.2	5.7	5.2	3.8	2.6
1974	4.2	4.2	3.6	4.0	4.4	5.1	5.4	4.8	5.4	4.9	3.8	2.4	1.8
1975	3.7	3.0	2.7	3.2	3.7	3.9	4.5	4.5	5.1	4.6	3.7	2.8	2.2
1976	3.9	3.8	3.5	4.2	3.9	4.4	4.8	4.2	5.1	4.4	3.5	3.0	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.2	5.2	4.6	3.8	3.0	2.3
1978	-	3.7	3.2	3.7	4.0	4.7	4.8	P4.4					
New hires													
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.4	2.7	2.9	3.6	4.1	3.4	4.4	4.3	3.8	2.9	2.0
1973	3.9	3.5	3.1	3.5	3.6	4.4	5.0	4.1	5.0	4.7	4.3	3.0	2.0
1974	3.2	3.2	2.7	3.0	3.3	3.9	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	3.0	2.4	1.7	1.3
1976	2.6	2.1	2.1	2.6	2.5	3.0	3.6	2.8	3.5	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.4	3.7	3.0	3.9	3.5	2.9	2.2	1.6
1978	-	2.4	2.2	2.6	2.9	3.6	3.8	P3.2					
Recalls													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.8	1.0	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	1.0	1.0	.8	.6	.6	.5
1978	-	1.0	.7	.8	.8	.7	.7	P.8					
Total separations													
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.2	4.0	3.5	3.8	3.8	3.9	4.2	4.8	5.4	5.3	4.3	3.7	3.7
1973	4.6	4.3	3.7	4.2	4.1	4.4	4.5	5.1	6.5	5.7	4.9	4.2	3.9
1974	4.8	4.9	4.0	4.4	4.2	4.4	4.2	4.9	6.1	5.4	5.0	5.0	5.2
1975	4.2	6.2	4.5	4.2	4.0	3.9	3.6	4.4	4.6	4.3	4.0	3.5	3.4
1976	3.8	3.7	3.1	3.5	3.5	3.4	3.5	4.3	4.9	4.6	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	4.8	3.8	3.3	3.3
1978	-	3.5	3.1	3.5	3.5	3.6	3.8	P4.1					
Quits													
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.2	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	1.9	1.6
1973	2.7	2.2	2.1	2.5	2.5	2.7	2.8	2.8	4.5	3.9	3.0	2.2	1.6
1974	2.3	2.2	1.9	2.3	2.4	2.6	2.5	2.5	4.0	3.2	2.2	1.4	.9
1975	1.4	1.1	.9	1.0	1.1	1.3	1.3	1.5	2.4	2.0	1.6	1.2	.9
1976	1.7	1.3	1.2	1.5	1.6	1.7	1.8	1.8	2.8	2.4	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	-	1.5	1.4	1.8	2.0	2.1	2.2	P2.1					
Layoffs													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.4	1.1	1.1	1.0	.8	1.1	1.7	.9	.9	.9	1.0	1.3
1973	.9	1.0	.7	.8	.7	.6	.6	1.4	.8	.7	.8	1.1	1.5
1974	1.5	1.7	1.2	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.1	2.9	2.5	2.1	1.8	1.5	2.0	1.3	1.4	1.6	1.7	1.9
1976	1.3	1.6	1.1	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	-	1.2	.9	.9	.7	.7	.7	P1.1					

p-preliminary.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by industry

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P
	MANUFACTURING	4.8	4.4	3.8	3.2	0.7	0.8	3.8	4.1	2.2	2.1	0.7	1.1
18,24,25,32-39	DURABLE GOODS	4.4	3.8	3.6	2.9	.5	.6	3.5	3.6	1.9	1.8	.6	.9
20-23,26-31	NONDURABLE GOODS	5.4	5.2	4.3	3.8	.9	1.1	4.3	4.8	2.6	2.6	.8	1.3
	DURABLE GOODS												
19	ORDNANCE AND ACCESSORIES	2.4	2.4	1.8	1.6	.2	.6	1.7	1.8	.7	.7	.5	.6
192	Ammunition, except for small arms	1.8	-	1.3	-	.2	-	1.6	-	.5	-	.7	-
24	LUMBER AND WOOD PRODUCTS	7.1	5.7	6.1	4.8	.8	.7	5.1	5.4	3.6	3.6	.4	.8
242	Sawmills and planing mills	6.8	-	6.0	-	.6	-	4.7	-	3.4	-	.3	-
2421	Sawmills and planing mills, general	6.5	-	5.6	-	.5	-	4.3	-	3.0	-	.3	-
243	Millwork, plywood and related products	7.0	-	6.3	-	.4	-	5.3	-	3.6	-	.4	-
2431	Millwork	6.1	-	5.7	-	.3	-	5.0	-	3.4	-	.6	-
2432	Veneer and plywood	5.5	-	5.1	-	.3	-	3.9	-	2.7	-	.2	-
244	Wooden containers	9.0	-	7.7	-	1.3	-	7.6	-	6.2	-	.2	-
2441,2	Wooden boxes, shooks, and crates	9.2	-	7.9	-	1.2	-	8.0	-	6.4	-	.2	-
249	Miscellaneous wood products	6.5	-	5.9	-	.4	-	6.0	-	4.4	-	.7	-
25	FURNITURE AND FIXTURES	6.2	6.6	5.6	5.5	.4	.9	6.3	6.3	4.0	3.9	1.0	1.2
251	Household furniture	6.4	-	5.9	-	.3	-	6.9	-	4.4	-	1.2	-
2511	Wood household furniture	7.0	-	6.5	-	.2	-	6.7	-	4.8	-	.4	-
2512	Upholstered household furniture	5.1	-	4.7	-	.3	-	6.1	-	3.9	-	1.4	-
2515	Mattresses and bedsprings	5.8	-	5.2	-	.4	-	5.6	-	3.6	-	.5	-
252	Office furniture	3.9	-	3.1	-	.7	-	3.3	-	2.3	-	.1	-
32	STONE, CLAY, AND GLASS PRODUCTS	5.5	4.1	4.5	3.3	.6	.6	3.8	3.7	2.1	2.1	.5	.7
321	Flat glass	3.9	-	1.6	-	2.0	-	1.5	-	.4	-	(1)	-
322	Glass and glassware, pressed or blown	4.0	-	2.8	-	.7	-	3.3	-	1.0	-	.9	-
3221	Glass containers	3.8	-	2.8	-	.6	-	2.9	-	1.3	-	.7	-
3229	Pressed and blown glass, nec	4.4	-	2.8	-	.8	-	3.8	-	.7	-	1.3	-
324	Cement, hydraulic	3.2	-	2.9	-	.2	-	1.4	-	.4	-	.3	-
325	Structural clay products	8.0	-	7.3	-	.5	-	5.4	-	4.0	-	.2	-
3251	Brick and structural clay tile	10.2	-	9.7	-	.4	-	7.4	-	5.9	-	(1)	-
326	Pottery and related products	4.6	-	4.3	-	.1	-	3.8	-	2.0	-	.4	-
3291	Abrasives products	4.4	-	3.2	-	.2	-	2.1	-	1.2	-	.2	-
33	PRIMARY METAL INDUSTRIES	3.5	2.8	2.5	1.9	.7	.6	2.3	2.5	.9	.9	.4	.6
331	Blast furnaces and basic steel products	3.4	-	2.1	-	.9	-	1.7	-	.4	-	.4	-
3312	Blast furnaces and steel mills	3.3	-	2.0	-	.9	-	1.7	-	.3	-	.4	-
332	Iron and steel foundries	4.1	-	3.4	-	.4	-	3.5	-	1.7	-	.6	-
3321	Gray iron foundries	3.8	-	3.2	-	.3	-	3.1	-	1.7	-	.3	-
3322	Malleable iron foundries	4.6	-	4.1	-	.1	-	3.9	-	2.2	-	.5	-
3323	Steel foundries	4.9	-	3.7	-	1.0	-	4.2	-	1.7	-	1.2	-
333,4	Nonferrous metals	3.1	-	2.6	-	.4	-	2.0	-	.8	-	.2	-
335	Nonferrous rolling and drawing	2.7	-	2.1	-	.2	-	1.8	-	.8	-	.2	-
3351	Copper rolling and drawing	3.6	-	3.2	-	.4	-	1.7	-	.9	-	.1	-
3352	Aluminum rolling and drawing	2.2	-	1.8	-	.2	-	1.4	-	.6	-	.2	-
3357	Nonferrous wire drawing, and insulating	2.7	-	1.6	-	.2	-	2.1	-	.9	-	.3	-
336	Nonferrous foundries	4.9	-	3.7	-	1.0	-	4.5	-	2.3	-	1.0	-
3361	Aluminum castings	4.8	-	3.5	-	1.0	-	4.5	-	2.2	-	1.0	-
3362,9	Other nonferrous castings	5.0	-	3.9	-	.9	-	4.5	-	2.5	-	.9	-
339	Miscellaneous primary metal products	3.7	-	2.8	-	.7	-	2.6	-	1.2	-	.5	-
3391	Iron and steel forgings	2.8	-	2.2	-	.5	-	2.2	-	1.0	-	.4	-
34	FABRICATED METAL PRODUCTS	5.0	4.4	4.1	3.4	.5	.7	3.9	4.1	2.3	2.2	.7	.9
341	Metal cans	3.6	-	1.8	-	1.4	-	2.4	-	.7	-	.8	-
342	Cutlery, hand tools, and hardware	4.5	-	3.9	-	.4	-	3.6	-	1.9	-	.8	-
3421,3,5	Cutlery and hand tools, incl. saws	4.1	-	3.6	-	.3	-	2.9	-	1.8	-	.2	-
3429	Hardware, nec	4.8	-	4.1	-	.5	-	4.1	-	2.0	-	1.2	-
343	Plumbing and heating, except electric	5.1	-	3.9	-	.6	-	4.1	-	1.9	-	1.2	-
3431,2	Sanitary ware and plumbers' brass goods	4.1	-	3.6	-	.5	-	3.9	-	1.5	-	1.4	-
3433	Heating equipment, except electric	5.9	-	4.2	-	.7	-	4.2	-	2.2	-	1.0	-
344	Fabricated structural metal products	5.8	-	5.0	-	.7	-	4.6	-	2.8	-	.8	-
3441	Fabricated structural steel	6.2	-	5.1	-	.9	-	4.8	-	2.8	-	1.0	-
3443	Fabricated plate work (boiler shops)	3.3	-	2.7	-	.4	-	2.5	-	1.5	-	.3	-
3446,9	Architectural and misc. metal work	6.1	-	5.4	-	.6	-	4.8	-	3.1	-	.8	-
345	Screw machine products, bolts, etc.	3.9	-	3.4	-	.4	-	3.1	-	2.1	-	.3	-
3452	Bolts, nuts, rivets, and washers	3.2	-	2.5	-	.5	-	2.9	-	1.7	-	.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P
	DURABLE GOODS — Continued												
	FABRICATED METAL PRODUCTS — Continued												
346	Metal stampings	3.8	-	2.8	-	0.3	-	3.0	-	1.4	-	0.7	-
348	Miscellaneous fabricated wire products	6.0	-	5.4	-	.5	-	4.4	-	3.0	-	.4	-
349	Miscellaneous fabricated metal products	4.1	-	3.5	-	.3	-	3.2	-	1.9	-	.3	-
3494,8	Valves, pipe, and pipe fittings	3.3	-	2.8	-	.2	-	2.7	-	1.5	-	.3	-
35	MACHINERY, EXCEPT ELECTRICAL	3.5	2.8	2.8	2.1	.3	0.4	2.6	2.5	1.4	1.2	.4	0.4
351	Engines and turbines	2.7	-	1.7	-	.4	-	2.3	-	.7	-	.7	-
3511	Steam engines and turbines	1.8	-	.6	-	.2	-	1.6	-	.4	-	.2	-
3519	Internal combustion engines, nec	3.2	-	2.2	-	.6	-	2.8	-	.8	-	.9	-
352	Farm machinery	3.9	-	2.4	-	.9	-	3.8	-	1.5	-	1.1	-
353	Construction and related machinery	3.6	-	3.2	-	.2	-	2.2	-	1.4	-	.1	-
3531,2	Construction and mining machinery	2.9	-	2.5	-	.3	-	1.6	-	.9	-	.1	-
3533	Oil field machinery	4.9	-	4.6	-	.1	-	3.3	-	2.2	-	(¹)	-
3535,6	Conveyors, hoists, cranes, monorails	2.9	-	2.5	-	.3	-	2.2	-	1.2	-	.3	-
354	Metal working machinery	3.4	-	2.9	-	.3	-	2.6	-	1.5	-	.3	-
3541	Machine tools, metal cutting types	2.7	-	2.4	-	.1	-	1.6	-	1.0	-	.1	-
3545	Machine tool accessories	3.4	-	3.0	-	.2	-	2.7	-	1.6	-	.2	-
3542,8	Miscellaneous metal working machinery	3.1	-	2.4	-	.6	-	2.2	-	1.3	-	.3	-
355	Special industry machinery	3.0	-	2.6	-	.2	-	2.2	-	1.3	-	.2	-
3551	Food products machinery	2.9	-	2.6	-	.2	-	2.3	-	1.5	-	.2	-
3552	Textile machinery	3.8	-	3.0	-	.4	-	3.0	-	1.6	-	.4	-
356	General industrial machinery	2.9	-	2.4	-	.3	-	2.2	-	1.2	-	.3	-
3561	Pumps and compressors	2.6	-	2.2	-	.3	-	2.0	-	1.2	-	.2	-
3562	Ball and roller bearings	2.5	-	2.1	-	.2	-	1.7	-	.7	-	.3	-
3566	Power transmission equipment	2.6	-	2.2	-	.2	-	1.9	-	.9	-	.2	-
357	Office and computing machines	3.7	-	3.1	-	.1	-	2.1	-	1.2	-	.1	-
3573	Electronic computing equipment	3.8	-	3.3	-	.1	-	2.0	-	1.2	-	(¹)	-
358	Service industry machines	4.4	-	3.6	-	.4	-	3.2	-	1.8	-	.3	-
3585	Refrigeration machinery	4.5	-	3.5	-	.4	-	3.2	-	1.8	-	.2	-
36	ELECTRICAL EQUIPMENT AND SUPPLIES	4.1	3.5	3.2	2.3	.4	.6	3.1	3.5	1.6	1.5	.5	1.0
361	Electric test and distributing equipment	3.7	-	2.9	-	.2	-	2.5	-	1.4	-	.2	-
3611	Electric measuring instruments	4.5	-	3.7	-	.1	-	1.9	-	1.4	-	(¹)	-
3612	Transformers	2.6	-	1.9	-	.2	-	2.3	-	1.0	-	.3	-
3613	Switchgear and switchboard apparatus	3.6	-	2.5	-	.4	-	3.2	-	1.6	-	.2	-
362	Electrical industrial apparatus	3.7	-	2.8	-	.4	-	2.6	-	1.3	-	.4	-
3621	Motors and generators	2.9	-	2.2	-	.3	-	2.7	-	1.2	-	.6	-
3622	Industrial controls	4.9	-	3.6	-	.5	-	2.6	-	1.2	-	.4	-
363	Household appliances	5.0	-	3.3	-	.8	-	4.6	-	2.4	-	.7	-
3632	Household refrigerators and freezers	5.3	-	2.7	-	1.4	-	5.1	-	2.0	-	1.0	-
3633	Household laundry equipment	3.2	-	2.5	-	.1	-	1.3	-	.4	-	(¹)	-
3634	Electric housewares and fans	6.7	-	5.1	-	1.3	-	5.7	-	4.4	-	.1	-
364	Electric lighting and wiring equipment	4.1	-	3.3	-	.3	-	3.3	-	1.5	-	.9	-
3641	Electric lamps	2.1	-	1.3	-	.1	-	2.0	-	.7	-	.2	-
3642	Lighting fixtures	5.1	-	4.0	-	.4	-	4.5	-	1.8	-	1.8	-
3643,4	Wiring devices	4.2	-	3.5	-	.3	-	3.0	-	1.6	-	.5	-
365	Radio and TV receiving equipment	5.3	-	3.3	-	.8	-	5.4	-	1.8	-	1.6	-
366	Communication equipment	3.0	-	2.4	-	.2	-	1.9	-	.9	-	.3	-
3661	Telephone and telegraph apparatus	1.7	-	1.5	-	.1	-	1.9	-	.6	-	.4	-
3662	Radio and TV communication equipment	3.6	-	2.9	-	.2	-	1.9	-	1.1	-	.2	-
367	Electronic components and accessories	5.3	-	4.5	-	.5	-	3.6	-	2.1	-	.5	-
3671-3	Electron tubes	2.8	-	1.8	-	.2	-	2.4	-	1.1	-	.2	-
3674,9	Other electronic components	5.6	-	4.8	-	.6	-	3.7	-	2.2	-	.5	-
369	Miscellaneous electrical equipment and supplies	3.2	-	2.6	-	.3	-	2.7	-	1.4	-	.5	-
3694	Engine electrical equipment	2.9	-	2.5	-	.2	-	2.1	-	1.3	-	.1	-
37	TRANSPORTATION EQUIPMENT	4.3	-	3.1	-	.7	-	3.7	-	1.6	-	1.1	-
371	Motor vehicles and equipment	3.4	-	2.5	-	.3	-	2.9	-	1.0	-	1.0	-
3711	Motor vehicles	3.2	-	2.3	-	.2	-	3.9	-	1.0	-	2.2	-
3712	Passenger car bodies	1.4	-	.9	-	(¹)	-	1.4	-	.5	-	.2	-
3713	Truck and bus bodies	5.0	-	4.9	-	.1	-	3.2	-	1.8	-	.1	-
3714	Motor vehicle parts and accessories	3.5	-	2.4	-	.5	-	2.0	-	.8	-	.3	-
372	Aircraft and parts	3.1	-	2.5	-	.3	-	1.7	-	.9	-	.2	-
3721	Aircraft	3.0	-	2.4	-	.3	-	1.4	-	.7	-	.2	-
3722	Aircraft engines and engine parts	2.8	-	2.2	-	.1	-	1.3	-	.5	-	.1	-
3723,9	Other aircraft parts and equipment	3.9	-	3.3	-	.4	-	3.1	-	1.9	-	.2	-
373	Ship and boat building and repairing	7.2	-	3.8	-	3.2	-	7.9	-	2.9	-	3.6	-
3731	Ship building and repairing	7.7	-	3.4	-	4.1	-	8.1	-	2.5	-	4.3	-
374	Railroad equipment	4.7	-	2.5	-	1.4	-	2.9	-	.8	-	.8	-
375,9	Other transportation equipment	8.1	-	7.5	-	.5	-	8.9	-	5.6	-	1.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		June 1978	July P 1978	June 1978	July P 1978	June 1978	July P 1978	June 1978	July P 1978	June 1978	July P 1978	June 1978	July P 1978
DURABLE GOODS — Continued													
38	INSTRUMENTS AND RELATED PRODUCTS	3.6	2.3	3.1	3.0	0.3	0.2	2.5	2.4	1.5	1.4	0.2	0.3
381	Engineering and scientific instruments	3.3	-	3.1	-	.1	-	2.0	-	1.4	-	.2	-
382	Mechanical measuring and control devices	3.6	-	3.0	-	.3	-	2.6	-	1.4	-	.3	-
3821	Mechanical measuring devices	3.7	-	3.3	-	.2	-	2.6	-	1.5	-	.3	-
3822	Automatic temperature controls	3.3	-	2.2	-	.3	-	2.6	-	1.3	-	.3	-
383.5	Optical and ophthalmic goods	4.5	-	3.7	-	.3	-	3.1	-	2.0	-	.3	-
384	Medical instruments and supplies	4.1	-	3.5	-	.3	-	3.0	-	1.8	-	.3	-
386	Photographic equipment and supplies	2.5	-	2.2	-	.1	-	1.7	-	1.0	-	.1	-
387	Watches, clocks, and watchcases	5.9	-	4.6	-	.9	-	4.1	-	2.4	-	.2	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	6.2	6.7	5.1	5.2	.9	1.3	5.0	5.9	2.8	3.0	1.0	1.7
391	Jewelry, silverware, and plated ware	5.3	-	4.7	-	.4	-	4.5	-	2.7	-	.9	-
394	Toys and sporting goods	8.7	-	6.6	-	1.7	-	6.3	-	3.3	-	1.6	-
3941-3	Games, toys, dolls and play vehicles	12.4	-	9.3	-	2.9	-	6.8	-	3.9	-	1.4	-
3949	Sporting and athletic goods, nec	4.6	-	3.7	-	.3	-	5.8	-	2.7	-	1.9	-
395	Pens, pencils, office and art supplies	4.6	-	3.9	-	.5	-	3.8	-	2.4	-	.3	-
396	Costume jewelry and notions	6.9	-	5.7	-	1.1	-	6.3	-	3.7	-	1.4	-
393.9	Other manufacturing industries	5.0	-	4.4	-	.5	-	4.2	-	2.4	-	.7	-
NONDURABLE GOODS													
20	FOOD AND KINDRED PRODUCTS	8.3	8.2	6.0	5.9	2.0	2.1	5.7	6.0	3.2	3.3	1.7	1.8
201	Meat products	9.0	-	6.7	-	1.8	-	7.1	-	5.0	-	1.2	-
2011	Meat packing plants	4.9	-	3.0	-	1.5	-	4.8	-	2.1	-	1.8	-
2015	Poultry dressing plants	15.6	-	12.8	-	2.1	-	11.3	-	10.0	-	.3	-
204	Grain mill products	4.4	-	3.6	-	.7	-	3.4	-	2.1	-	.6	-
2041	Flour and other grain mill products	3.3	-	2.9	-	.2	-	2.9	-	1.4	-	.9	-
2042	Prepared feeds for animals and fowls	5.3	-	4.5	-	.7	-	3.8	-	3.0	-	.2	-
205	Bakery products	4.4	-	3.9	-	.4	-	3.1	-	2.2	-	.3	-
2051	Bread, cake, and related products	4.5	-	4.1	-	.2	-	3.2	-	2.3	-	.2	-
2052	Cookies and crackers	4.1	-	2.8	-	1.2	-	2.4	-	1.5	-	.3	-
207	Confectionery and related products	7.3	-	3.5	-	3.7	-	5.2	-	2.5	-	1.9	-
2071	Confectionery products	8.2	-	4.2	-	3.7	-	6.4	-	3.1	-	2.5	-
208	Beverages	6.8	-	5.5	-	1.0	-	4.0	-	2.5	-	.6	-
2082	Malt liquors	4.9	-	2.5	-	2.2	-	2.9	-	.8	-	1.6	-
21	TOBACCO MANUFACTURES	3.4	-	1.9	-	1.0	-	1.6	-	.7	-	.1	-
211	Cigarettes	2.4	-	1.5	-	.3	-	1.0	-	.2	-	(1)	-
212	Cigars	6.0	-	3.3	-	2.1	-	3.4	-	2.6	-	.2	-
22	TEXTILE MILL PRODUCTS	5.3	5.3	4.5	4.0	.4	1.0	4.7	5.4	3.3	3.3	.4	1.1
221	Weaving mills, cotton	4.2	-	3.4	-	.2	-	4.5	-	2.9	-	.6	-
222	Weaving mills, synthetics	4.6	-	3.9	-	.4	-	4.3	-	3.0	-	.2	-
223	Weaving and finishing mills, wool	6.0	-	5.3	-	.4	-	5.0	-	3.6	-	.4	-
224	Narrow fabric mills	4.7	-	4.0	-	.5	-	4.4	-	3.0	-	.5	-
225	Knitting mills	6.2	-	5.4	-	.5	-	4.9	-	3.6	-	.4	-
2251	Women's hosiery, except socks	6.8	-	6.1	-	.4	-	5.6	-	4.3	-	.2	-
2252	Hosiery, nec	5.8	-	5.5	-	.3	-	5.3	-	4.2	-	.2	-
2254	Knit underwear mills	5.3	-	4.8	-	.3	-	4.6	-	3.6	-	.3	-
226	Textile finishing, except wool	3.4	-	2.8	-	.3	-	3.5	-	2.2	-	.4	-
227	Floor covering mills	5.9	-	5.2	-	.5	-	4.6	-	3.1	-	.4	-
228	Yarn and thread mills	6.2	-	5.4	-	.4	-	5.7	-	4.4	-	.2	-
229	Miscellaneous textile goods	4.6	-	3.7	-	.4	-	4.2	-	2.2	-	.8	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	5.7	6.1	4.3	4.1	1.1	1.7	5.5	7.1	3.4	3.6	1.2	2.4
231	Men's and boys' suits and coats	3.0	-	2.1	-	.6	-	3.6	-	1.6	-	1.4	-
232	Men's and boys' furnishings	5.4	-	4.4	-	.7	-	5.3	-	3.8	-	.6	-
2321	Men's and boys' shirts and nightwear	5.9	-	4.5	-	1.0	-	4.9	-	3.7	-	.4	-
2327	Men's and boys' separate trousers	4.5	-	4.0	-	.3	-	5.0	-	3.8	-	.8	-
2328	Men's and boys' work clothing	5.2	-	4.3	-	.7	-	6.1	-	4.4	-	.3	-
234	Women's and children's undergarments	6.3	-	5.4	-	.7	-	6.5	-	4.2	-	.8	-
2341	Women's and children's underwear	7.0	-	6.0	-	.7	-	6.5	-	4.7	-	.8	-
2342	Corsets and allied garments	4.0	-	3.1	-	.5	-	6.5	-	2.5	-	.8	-
26	PAPER AND ALLIED PRODUCTS	3.8	2.7	3.2	2.2	.5	.4	2.3	2.7	1.3	1.4	.3	.5
261,2,6	Paper and pulp mills	3.0	-	2.4	-	.3	-	1.2	-	.5	-	.1	-
263	Paperboard mills	3.3	-	2.9	-	.2	-	1.6	-	.9	-	.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P	June 1978	July 1978 ^P
	NONDURABLE GOODS—Continued												
	PAPER AND ALLIED PRODUCTS—Continued												
264	Miscellaneous converted paper products	4.4	-	3.7	-	0.6	-	2.8	-	1.8	-	0.2	-
2643	Bags, except textile bags	5.2	-	4.5	-	.7	-	4.0	-	2.7	-	.3	-
265	Paperboard containers and boxes	4.3	-	3.4	-	.6	-	3.1	-	1.7	-	.5	-
2651,2	Folding and setup paperboard boxes	4.9	-	3.8	-	.9	-	3.3	-	1.9	-	.4	-
2653	Corrugated and solid fiber boxes	4.2	-	3.7	-	.3	-	2.9	-	1.7	-	.3	-
27	PRINTING AND PUBLISHING	4.2	3.6	3.6	3.0	.5	0.4	3.2	3.4	2.1	2.1	.5	0.6
28	CHEMICALS AND ALLIED PRODUCTS	2.7	1.8	2.1	1.4	.3	.3	1.7	1.7	.8	.8	.4	.4
281	Industrial chemicals	2.2	-	1.7	-	.2	-	1.3	-	.6	-	.2	-
282	Plastics materials and synthetics	2.1	-	1.7	-	.2	-	1.2	-	.6	-	.2	-
2821	Plastics materials and resins	2.9	-	2.5	-	.1	-	1.3	-	.7	-	.1	-
2823,4	Synthetic fibers	1.4	-	1.0	-	.3	-	1.1	-	.5	-	.2	-
283	Drugs	2.8	-	2.3	-	.2	-	1.6	-	.8	-	.3	-
2834	Pharmaceutical preparations	2.9	-	2.4	-	.3	-	1.7	-	.9	-	.4	-
284	Soap, cleaners, and toilet goods	3.5	-	2.7	-	.7	-	2.1	-	1.0	-	.5	-
2841	Soap and other detergents	3.2	-	2.1	-	1.0	-	1.3	-	.5	-	.3	-
2844	Toilet preparations	3.8	-	2.8	-	.9	-	2.6	-	1.2	-	.8	-
285	Paints and allied products	4.2	-	3.4	-	.5	-	2.2	-	1.2	-	.2	-
286,9	Other chemical products	3.1	-	2.7	-	.4	-	1.7	-	1.1	-	.1	-
29	PETROLEUM AND COAL PRODUCTS	3.2	2.1	2.8	1.9	.2	.1	1.8	1.9	.9	1.0	.3	.4
291	Petroleum refining	2.6	-	2.3	-	(¹)	-	1.1	-	.5	-	.2	-
295,9	Other petroleum and coal products	5.2	-	4.4	-	.5	-	3.7	-	2.2	-	.6	-
30	RUBBER AND PLASTICS PRODUCTS, NEC	6.1	5.6	5.0	4.5	.8	.8	5.1	5.3	3.3	3.1	.6	1.0
301	Tires and inner tubes	2.5	-	1.5	-	.6	-	1.9	-	.7	-	.3	-
302,3,6	Other rubber products	5.0	-	4.1	-	.5	-	4.4	-	2.6	-	.6	-
307	Miscellaneous plastics products	7.6	-	6.3	-	.9	-	6.3	-	4.3	-	.7	-
31	LEATHER AND LEATHER PRODUCTS	7.1	8.6	6.0	5.6	.8	2.6	7.6	9.7	4.8	4.6	1.6	4.0
311	Leather tanning and finishing	4.5	-	3.7	-	.6	-	4.1	-	2.1	-	1.1	-
314	Footwear, except rubber	7.9	-	6.8	-	.7	-	8.6	-	5.7	-	1.6	-
	NONMANUFACTURING												
10	METAL MINING	4.1	2.2	3.6	1.7	.3	.2	2.6	2.1	1.6	1.2	.4	.2
101	Iron ores	3.3	-	3.1	-	.1	-	1.8	-	.8	-	.5	-
102	Copper ores	1.7	-	.9	-	.3	-	1.8	-	.4	-	.6	-
11,12	COAL MINING	1.9	1.5	1.6	1.2	.1	.2	1.2	1.3	.4	.7	.3	.1
12	Bituminous coal and lignite mining	1.9	-	1.6	-	.1	-	1.2	-	.4	-	.3	-
481	COMMUNICATION:												
481	Telephone communication	2.1	(*)	1.6	(*)	.0	(*)	1.0	(*)	.5	(*)	.1	(*)
482	Telegraph communication ²	(*)	-	-	-	(*)	-	(*)	-	(*)	-	(*)	-

¹ Less than 0.05.

² Data relate to all employees except messengers.

p = preliminary.

* = not available.

ESTABLISHMENT DATA

SEASONALLY ADJUSTED LABOR TURNOVER

D-3. Labor turnover rates in manufacturing, 1966 to date, seasonally adjusted

[Per 100 employees]

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions												
1966	4.9	5.0	5.3	5.1	5.0	4.9	4.9	5.0	5.0	4.9	4.7	4.7
1967	4.5	4.4	4.3	4.3	4.4	4.5	4.4	4.3	4.4	4.4	4.5	4.6
1968	4.4	4.4	4.6	4.6	4.6	4.5	4.5	4.7	4.6	4.8	4.9	4.9
1969	4.9	4.8	4.9	4.9	4.7	5.0	4.7	4.5	4.7	4.6	4.5	4.6
1970	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972	4.3	4.3	4.4	4.3	4.4	4.2	4.3	4.4	4.4	4.6	4.6	4.9
1973	5.0	5.1	5.0	4.8	4.7	4.6	4.6	4.6	4.7	4.8	4.9	4.7
1974	4.7	4.6	4.5	4.5	4.6	4.3	4.2	4.1	3.9	3.6	3.1	3.1
1975	3.1	3.2	3.2	3.7	3.6	3.7	4.0	4.0	3.8	3.7	3.8	3.9
1976	4.1	4.2	4.3	4.1	4.0	3.8	3.8	3.8	3.7	3.6	3.9	4.1
1977	4.0	4.6	4.2	4.0	4.1	3.9	3.8	3.8	3.9	3.8	3.9	4.5
1978	4.0	4.0	4.0	4.2	4.1	3.8	P3.9					
New hires												
1966	3.7	3.8	4.1	4.0	4.0	3.9	3.8	3.7	3.7	3.9	3.7	3.6
1967	3.4	3.4	3.2	3.1	3.1	3.3	3.2	3.1	3.3	3.3	3.4	3.5
1968	3.3	3.3	3.4	3.5	3.5	3.4	3.4	3.5	3.6	3.6	3.6	3.7
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.6	3.5	3.7	3.6	3.5	3.5
1970	3.4	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	3.0	3.1	3.2	3.2	3.1	3.2	3.2	3.4	3.5	3.7	3.8
1973	4.0	4.2	4.1	3.9	3.9	3.8	3.7	3.7	3.7	3.8	3.9	3.8
1974	3.8	3.6	3.6	3.5	3.5	3.3	3.2	3.1	2.9	2.6	2.2	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.2	2.2	2.3	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.5	2.5	2.4	2.4	2.5	2.6
1977	2.7	2.9	3.0	3.0	3.0	2.8	P2.7	2.7	2.7	2.7	2.9	3.3
1978	2.9	3.0	3.0	3.2	3.1	2.9	P2.8					
Total separations												
1966	4.3	4.3	4.5	4.5	4.6	4.7	4.9	4.8	4.6	4.6	4.8	4.9
1967	4.8	4.9	4.9	4.7	4.6	4.6	4.5	4.3	4.5	4.5	4.4	4.5
1968	4.7	4.6	4.5	4.5	4.4	4.5	4.6	4.7	4.7	4.6	4.6	4.6
1969	4.6	4.9	4.9	4.8	4.8	5.0	4.8	4.9	4.9	5.0	4.9	4.9
1970	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972	4.2	4.1	4.0	4.3	4.2	4.5	4.4	4.1	4.0	4.2	4.2	4.4
1973	4.5	4.6	4.6	4.5	4.6	4.6	4.7	4.6	4.4	4.6	4.7	4.9
1974	4.9	4.9	4.9	4.8	4.6	4.6	4.5	4.6	4.5	4.8	5.1	5.0
1975	5.2	5.0	4.6	4.5	4.6	4.3	3.9	3.9	3.8	3.8	3.8	3.6
1976	3.5	3.6	3.9	3.9	3.8	3.9	3.9	4.0	3.9	3.9	3.6	3.7
1977	3.8	4.1	3.8	3.8	3.8	3.8	P3.9	3.9	3.9	3.7	3.6	3.9
1978	3.6	3.8	3.8	4.0	3.9	4.0	P3.8					
Quits												
1966	2.3	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7
1967	2.5	2.5	2.4	2.4	2.3	2.4	2.2	2.2	2.3	2.3	2.3	2.4
1968	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.5	2.6	2.6
1969	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6
1970	2.5	2.5	2.3	2.3	2.1	2.1	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	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.6
1973	2.7	2.9	2.8	2.8	2.7	2.7	2.8	2.7	2.6	2.8	2.8	2.8
1974	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.0	1.8	1.6
1975	1.4	1.3	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.5	1.6	1.6
1976	1.6	1.7	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.7
1977	1.8	1.9	1.9	1.9	1.9	1.8	P1.8	1.8	1.8	1.8	1.9	2.1
1978	1.9	2.0	2.1	2.3	2.1	2.1	P2.0					
Layoffs												
1966	1.2	1.1	1.1	1.1	1.1	1.2	1.5	1.2	1.0	1.1	1.2	1.3
1967	1.4	1.5	1.6	1.5	1.4	1.3	1.4	1.3	1.3	1.3	1.2	1.2
1968	1.4	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.1
1969	1.0	1.1	1.1	1.0	1.1	1.3	1.1	1.2	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.6	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	1.1	1.4	1.3	1.1	1.0	1.0	.9	.9
1973	.8	.7	.8	.8	.8	.8	1.1	.9	.8	.8	.9	1.1
1974	1.3	1.2	1.1	1.1	1.1	1.2	1.2	1.4	1.4	1.9	2.4	2.5
1975	2.9	2.9	2.6	2.5	2.5	2.2	1.7	1.7	1.7	1.6	1.5	1.3
1976	1.1	1.0	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.3	1.2
1977	1.2	1.4	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.1	.9	1.0
1978	.9	.9	.9	.9	1.0	1.0	P1.0					

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	
	May 1978	June 1978 ^P	May 1978	June 1978 ^P	May 1978	June 1978 ^P	May 1978	June 1978 ^P	May 1978	June 1978 ^P	May 1978	June 1978 ^P
ALABAMA:	3.5	3.3	2.3	2.6	0.8	0.5	2.6	2.7	1.3	1.1	0.5	0.6
Birmingham	8.5	6.2	4.2	3.3	4.2	2.7	6.8	8.1	2.4	1.9	3.3	5.1
Mobile ¹	21.2	(*)	14.4	(*)	6.3	(*)	8.8	(*)	4.7	(*)	3.5	(*)
ALASKA	6.7	6.3	5.7	5.6	.7	.5	4.9	4.7	3.3	3.0	.4	.4
Phoenix	6.7	6.4	5.9	5.8	.5	.4	4.9	4.8	3.5	3.0	.4	.4
ARKANSAS	8.9	6.7	7.5	5.7	.9	.6	7.3	6.7	5.1	4.6	1.0	.8
Fort Smith	10.8	9.3	9.6	7.6	1.0	1.5	8.5	9.0	6.3	6.2	.6	1.0
Little Rock—North Little Rock	6.2	5.7	5.7	5.1	.2	.4	6.4	6.5	3.7	3.6	1.5	1.7
Pine Bluff	5.1	4.0	4.4	3.3	.3	.3	5.9	4.4	3.8	3.0	1.3	.6
COLORADO ²	6.3	6.6	5.4	5.9	.7	.5	4.4	4.8	2.9	3.3	.5	.6
Denver—Boulder	5.9	6.4	3.1	5.7	.2	.4	4.5	5.1	2.9	3.4	.5	.6
CONNECTICUT	3.0	3.2	2.3	2.6	.4	.3	2.1	2.3	1.2	1.4	.3	.2
Hartford	2.6	3.2	2.1	2.6	.2	.2	1.7	1.8	1.0	1.2	.2	.1
DELAWARE ¹	2.8	3.1	1.9	1.8	.1	.2	1.9	2.8	.9	.9	.3	.8
Wilmington ¹	2.6	2.8	1.6	1.5	.1	.2	1.6	1.7	.6	.7	.4	.5
FLORIDA	5.8	6.1	5.0	5.3	.7	.6	5.4	6.1	3.3	3.5	1.0	1.6
Fort Lauderdale—Hollywood	6.5	5.8	5.6	5.4	.7	.4	5.2	5.6	3.7	3.9	.4	.1
Jacksonville	5.5	3.4	3.2	3.0	2.1	.2	5.4	2.6	2.0	1.6	2.3	.5
Miami	5.4	5.3	4.8	4.8	.5	.4	4.6	4.4	3.0	3.0	.7	.5
Orlando	5.1	4.1	4.3	3.8	.6	.2	4.1	4.4	2.9	3.0	.5	.8
Pensacola	2.2	1.7	1.5	1.3	.6	.3	1.8	1.5	.9	.9	.5	.1
Tampa—St. Petersburg	7.1	5.6	6.7	5.0	.3	.6	6.2	7.1	4.7	3.7	.4	2.5
West Palm Beach—Boca Raton	3.7	3.2	3.4	2.9	.3	.3	2.9	2.4	2.1	1.3	.1	(³)
GEORGIA	4.6	5.2	3.8	4.4	.4	.5	4.3	4.0	2.9	2.8	.4	.3
Atlanta ⁴	3.9	4.5	2.8	3.3	.7	.8	3.7	3.0	2.1	2.0	.8	.2
HAWAII ⁵	3.8	2.5	1.5	1.6	2.0	.6	4.6	2.0	1.0	.9	2.9	.6
IDAHO ⁶	9.8	(*)	7.3	(*)	2.0	(*)	6.5	(*)	4.8	(*)	.5	(*)
ILLINOIS:	4.2	4.2	3.2	3.6	.4	.3	3.3	3.3	1.7	1.8	.3	.3
Chicago SMSA	4.9	4.1	3.6	3.1	.7	.4	3.3	3.2	1.8	1.7	.4	.5
INDIANA	4.4	3.9	3.2	2.7	.5	.4	2.7	2.6	1.5	1.3	.3	.2
Indianapolis ⁷	4.4	3.8	3.1	2.8	1.1	.6	3.0	3.2	1.7	1.7	.7	.9
IOWA	3.9	4.1	2.2	2.2	1.4	1.7	2.4	3.3	1.1	1.3	.9	1.2
Cedar Rapids	6.2	4.9	3.3	3.4	2.4	.3	4.5	4.3	2.2	2.1	.9	1.1
KANSAS	7.0	4.8	6.2	4.3	.6	.3	5.0	3.5	3.6	2.6	.4	.2
Topeka	5.7	3.7	5.2	2.1	.3	(³)	3.6	2.4	2.3	1.8	.5	(³)
Wichita	7.1	5.0	6.1	4.4	.6	.4	4.8	3.4	3.5	2.5	.1	(³)
KENTUCKY	3.9	3.6	2.9	2.6	.7	.4	3.1	3.1	1.6	1.6	.5	.5
Louisville	3.4	3.6	2.2	2.2	.6	.5	2.4	3.0	1.1	1.0	.3	.4
LOUISIANA:	8.9	5.4	5.7	4.8	2.8	.4	4.0	4.7	2.4	2.7	.5	.8
New Orleans	7.6	8.2	6.0	6.0	1.2	1.8	5.8	6.3	3.7	3.7	1.1	1.6
MAINE	5.6	5.9	4.9	5.5	.5	.2	4.7	3.8	2.8	2.7	.9	.2
Portland	3.4	3.7	2.1	2.6	1.1	.9	2.5	2.9	1.1	1.1	.8	1.1
MARYLAND	3.1	3.5	1.9	2.5	1.0	.8	2.5	2.8	.9	1.0	.9	1.2
Baltimore	4.3	4.7	3.5	3.9	.6	.4	3.1	3.2	1.8	1.9	.6	.5
MASSACHUSETTS	4.2	4.4	3.2	3.8	.7	.3	2.3	2.9	1.3	1.7	.3	.4
Boston	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
MICHIGAN	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Detroit	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Flint	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Grand Rapids	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Lansing—East Lansing	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

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	
	May 1978	June 1978 ^p	May 1978	June 1978 ^p	May 1978	June 1978 ^p	May 1978	June 1978 ^p	May 1978	June 1978 ^p	May 1978	June 1978 ^p
MINNESOTA	4.7	5.9	3.8	5.0	0.7	0.7	3.7	3.3	2.1	2.1	0.9	0.5
Minneapolis—St. Paul	4.1	4.9	3.5	4.3	.4	.3	2.6	2.9	1.8	1.8	.2	.4
MISSISSIPPI:												
Jackson	4.4	3.5	3.4	3.3	.4	.2	3.9	3.9	2.5	1.7	.6	1.3
MISSOURI	4.6	4.0	3.6	3.2	.6	.5	3.4	3.4	2.0	2.1	.7	.6
Kansas City	3.8	3.8	3.2	3.1	.3	.6	2.8	3.2	1.6	1.9	.5	.6
St. Louis	3.8	3.8	2.8	2.8	.7	.7	2.5	2.7	1.2	1.3	.5	.6
MONTANA	3.4	(*)	3.0	(*)	(*)	(*)	4.4	(*)	1.6	(*)	1.2	(*)
NEBRASKA	5.9	4.8	4.9	4.3	.9	.3	4.3	4.1	3.2	3.0	.3	.4
NEVADA	10.6	8.4	10.0	7.8	.4	.3	9.2	8.5	7.2	6.3	.4	.6
NEW HAMPSHIRE	5.2	4.5	4.6	3.9	.3	.4	4.2	4.0	3.1	3.0	.3	.3
NEW JERSEY:												
Camden ⁸	3.4	4.5	2.3	3.2	.6	.7	3.3	4.1	1.4	1.4	1.0	1.4
Hackensack	5.0	4.5	3.6	3.3	1.2	.9	3.6	3.5	1.7	1.7	.8	.8
Jersey City	3.9	4.0	3.3	3.0	.6	1.0	2.7	3.1	1.3	1.1	.9	1.1
Newark	3.5	3.8	2.6	3.1	.6	.4	4.2	3.0	1.2	1.3	2.2	.8
New Brunswick—Perth Amboy—Sayreville	4.0	4.5	3.3	3.9	.6	.3	2.7	3.1	1.3	1.6	.4	.6
Paterson—Clifton—Passaic	4.6	4.8	3.5	3.5	1.0	1.1	3.2	3.2	1.6	1.7	.7	.6
Trenton	3.0	2.5	2.1	1.8	.7	.6	3.5	2.3	1.2	.9	1.6	.6
NEW YORK	3.9	4.4	2.5	3.0	1.1	1.1	3.2	3.7	1.2	1.3	1.3	1.6
Albany—Schenectady—Troy	3.0	3.5	1.6	2.1	.6	.7	3.0	2.7	1.3	.9	.6	.7
Binghamton	2.8	3.0	2.1	2.5	.4	.3	2.1	2.3	1.3	1.2	.2	.4
Buffalo	3.1	3.4	1.7	1.9	1.1	1.2	2.1	2.1	.6	.7	.7	.6
Elmira	2.8	3.1	1.9	2.1	.3	.6	2.4	3.3	1.1	1.0	.4	1.3
Monroe County ⁹	2.4	3.7	1.8	3.3	.2	.3	1.7	1.6	.7	.8	.4	.3
Nassau—Suffolk ¹⁰	5.1	6.1	4.2	5.0	.7	.9	4.3	6.2	2.4	2.7	.9	2.3
New York and Nassau—Suffolk	4.3	5.0	2.9	3.4	1.3	1.6	4.3	4.4	1.3	1.4	2.1	2.1
New York SMSA ¹⁰	4.1	4.8	2.5	2.9	1.5	1.7	4.2	4.0	1.1	1.1	2.4	2.1
New York City ¹¹	4.4	5.0	2.6	3.0	1.7	1.9	4.6	4.2	1.1	1.1	2.7	2.3
Rochester	2.7	4.0	2.0	3.3	.4	.6	1.9	1.8	.8	.9	.5	.4
Syracuse	2.8	3.9	2.1	2.9	.4	.9	2.3	2.3	1.0	1.1	.8	.5
Utica—Rome	3.4	3.6	2.7	2.9	.6	.5	2.6	2.3	1.3	1.0	.8	.6
Westchester County ¹¹	2.6	3.0	2.0	2.5	.4	.4	2.2	2.3	1.0	.9	.5	.8
NORTH CAROLINA	5.5	4.9	4.7	4.3	.4	.3	4.9	4.4	3.5	3.2	.4	.3
Charlotte—Gastonia	6.2	5.4	5.3	4.8	.5	.3	6.0	5.2	4.6	3.8	.2	.4
Greensboro—Winston-Salem—High Point	5.2	4.7	4.4	4.2	.2	.1	4.4	4.4	3.3	3.0	.2	.5
NORTH DAKOTA	7.0	5.8	5.0	5.2	1.8	.4	6.9	7.1	3.3	3.4	2.7	3.0
Fargo—Moorhead	7.6	6.0	2.8	3.7	4.3	2.2	5.8	3.3	1.7	2.2	3.1	.4
OHIO	3.1	3.6	2.2	2.7	(*)	(*)	2.2	2.4	1.0	1.1	.4	.4
Akron	2.0	1.9	1.4	1.5	(*)	(*)	1.7	1.5	.7	.8	.5	.2
Canton	4.0	5.4	2.1	3.0	(*)	(*)	2.6	3.1	.9	1.2	.6	.5
Cincinnati	2.9	3.5	2.3	2.8	(*)	(*)	2.1	2.2	.9	1.2	.5	.3
Cleveland	3.0	3.6	2.3	2.8	(*)	(*)	2.5	2.5	1.2	1.2	.3	.3
Columbus	2.9	3.4	2.4	2.8	(*)	(*)	2.5	2.2	1.3	1.4	.5	.2
Dayton	3.0	2.7	2.2	2.2	(*)	(*)	1.9	1.8	.9	.8	.2	.1
Toledo	3.3	3.2	2.1	2.7	(*)	(*)	2.2	2.0	.9	1.2	.6	.2
Youngstown—Warren	3.3	3.4	1.5	1.5	(*)	(*)	2.2	2.0	.5	.6	.6	.2
OKLAHOMA	7.6	6.9	6.8	6.1	.5	.6	6.3	6.3	4.6	4.6	.5	.5
Oklahoma City	7.1	6.5	6.5	5.8	.6	.6	5.6	6.2	4.2	4.2	.5	.9
Tulsa ¹²	7.1	6.8	6.2	6.2	.4	.3	5.8	5.7	3.9	4.3	.6	.2
OREGON ¹	5.4	6.3	4.3	5.4	.8	.7	4.3	4.2	2.6	2.7	.7	.5
Portland ¹	5.4	6.8	4.4	5.7	.8	.9	4.7	5.0	2.6	2.9	1.1	.7
PENNSYLVANIA	3.7	3.4	2.3	2.4	1.0	.8	2.6	2.4	1.1	1.1	.8	.6
Allentown—Bethlehem—Easton	3.4	2.9	2.1	2.0	1.1	.8	2.2	2.0	.9	.9	.8	.7
Alltoona	3.8	2.2	1.7	1.4	1.6	.6	1.9	1.5	.9	.5	.6	.6
Erie	4.0	4.3	2.2	3.0	1.5	.9	3.0	2.8	1.3	1.3	1.0	.7
Harrisburg	3.3	4.6	2.4	3.2	.7	1.2	3.0	2.6	1.7	1.6	.8	.2
Johnstown	5.2	4.4	1.5	1.4	3.6	2.8	3.1	2.3	.8	.8	.9	.8
Lancaster	4.1	3.9	3.6	3.6	.4	.2	3.3	2.8	2.2	1.8	.5	.3

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	May 1978	June 1978 ^p	May 1978	June 1978 ^p	May 1978	June 1978 ^p	May 1978	June 1978 ^p	May 1978	June 1978 ^p	May 1978	June 1978 ^p
PENNSYLVANIA—Continued												
Northeast Pennsylvania	4.0	3.1	2.2	1.8	1.5	0.9	2.6	3.1	1.2	1.2	0.8	1.3
Philadelphia SMSA	3.2	3.5	2.1	2.5	.8	.8	2.6	2.6	1.0	1.1	.9	.8
Pittsburgh	3.7	3.2	1.8	1.8	1.4	1.0	2.3	1.7	.5	.5	1.0	.5
Reading	3.7	3.1	2.8	2.4	.7	.6	2.8	2.6	1.5	1.4	.8	.6
Scranton ¹³	3.6	2.2	1.4	1.3	2.1	.8	2.5	2.4	.9	.7	1.2	1.5
Wilkes-Barre—Hazleton ¹³	3.3	2.8	2.1	1.8	.7	.6	2.2	2.6	1.2	1.3	.4	.7
Williamsport	3.6	3.1	2.5	2.5	1.0	.5	1.8	2.1	.9	1.1	.5	.6
York	4.3	4.3	3.6	3.7	.5	.4	3.4	3.3	2.1	2.1	.6	.5
RHODE ISLAND												
Providence—Warwick—Pawtucket	6.1	5.7	5.2	4.8	.5	.6	5.0	5.1	3.1	3.2	1.0	.9
.....	5.4	5.7	4.5	4.9	.6	.5	4.6	5.2	2.8	3.3	.9	.8
SOUTH CAROLINA												
Charleston—North Charleston	5.1	4.6	4.3	3.9	.4	.4	4.2	4.3	2.8	2.9	.3	.4
Columbia	6.1	4.8	5.4	4.1	.4	.5	4.3	4.3	2.6	3.6	.1	.1
Greenville—Spartanburg	5.5	4.7	4.9	4.4	.2	.1	3.6	4.8	2.8	3.3	.1	.5
.....	5.5	5.2	4.8	4.3	.3	.6	4.9	4.7	3.2	3.1	.5	.4
SOUTH DAKOTA												
Sioux Falls	6.7	6.2	6.1	5.4	.5	.6	3.8	3.7	3.0	2.9	.2	.2
.....	5.6	3.8	4.8	3.4	.7	.4	3.4	3.5	2.8	2.6	.3	.5
TENNESSEE:												
Memphis	4.7	5.1	3.8	4.2	.4	.6	3.3	4.4	2.0	2.6	.3	.4
TEXAS:												
Dallas—Fort Worth	6.3	6.8	6.0	6.4	.3	.3	5.3	5.6	4.0	4.2	.2	.2
Houston	5.6	5.6	5.4	5.3	.2	.2	4.6	5.1	3.3	3.8	.2	.1
San Antonio	6.3	5.8	6.0	5.4	.3	.3	4.7	5.0	3.3	3.4	.4	.5
UTAH ⁵												
Salt Lake City—Ogden ⁵	6.5	6.8	5.6	6.0	.6	.5	4.9	4.8	3.5	3.5	.4	.2
.....	5.6	6.7	5.2	6.1	.2	.4	4.8	4.8	3.4	3.4	.5	.4
VERMONT												
Burlington	4.9	5.0	4.1	4.4	.5	.3	3.3	3.6	1.9	2.0	.6	.8
Springfield	4.1	6.4	3.5	5.4	.2	.2	2.3	2.1	.8	1.0	1.2	.7
.....	3.5	3.2	2.9	2.7	.5	.1	1.4	2.0	.9	1.0	.1	.4
VIRGINIA												
Richmond	4.0	4.2	3.1	3.4	.5	.4	3.4	3.6	2.1	2.2	.4	.4
.....	2.3	2.6	1.4	2.0	.3	.1	1.6	1.6	.7	.8	.1	(³)
WASHINGTON:												
Seattle—Everett ¹⁴	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
WISCONSIN												
Milwaukee	4.3	4.6	3.1	3.4	.8	.8	2.7	3.0	1.4	1.5	.5	.6
.....	3.7	3.9	2.7	2.9	.5	.6	2.2	2.7	1.1	1.2	.3	.4
WYOMING												
.....	8.7	10.5	8.1	9.1	.5	1.4	6.0	7.6	4.6	5.0	.2	1.5

¹ Excludes canning and preserving.

² Based on the 1967 Standard Industrial Classification Manual.

³ Less than 0.05.

⁴ Excludes agricultural chemicals, and miscellaneous manufacturing.

⁵ Excludes canned fruits, vegetables, preserves, jams, and jellies.

⁶ Excludes canning and preserving, and sugar.

⁷ Excludes canning and preserving, and newspapers.

⁸ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁹ Subarea of Rochester Standard Metropolitan Statistical Area.

¹⁰ Area included in New York and Nassau-Suffolk combined SMSA's.

¹¹ Subarea of New York Standard Metropolitan Statistical Area.

¹² Excludes new-hire rate for transportation equipment.

¹³ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹⁴ Excludes canning and preserving, printing and publishing.

^p preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P
ALABAMA	1,584.0	1,588.6	1,606.5	127.0	96.7	103.5	8.0	6.1	6.4
Birmingham	370.9	373.9	379.3	26.5	19.6	20.5	7.1	5.2	5.4
Huntsville	131.4	131.5	133.5	12.3	6.6	8.3	9.4	6.5	6.2
Mobile	177.2	181.8	183.6	15.1	12.3	12.6	8.5	6.7	6.9
Montgomery	109.8	115.6	115.3	7.1	6.7	6.5	6.5	5.8	5.6
Tuscaloosa	52.0	51.9	51.3	3.9	3.6	3.4	7.5	6.9	6.7
ALASKA	186.0	191.1	194.3	15.0	20.8	18.8	8.1	10.9	9.7
ARIZONA	966.4	977.4	984.7	78.6	59.7	61.4	8.1	6.1	6.2
Phoenix	568.5	584.9	587.8	42.5	31.8	31.4	7.5	5.4	5.3
Tucson	181.0	179.8	180.4	13.4	10.2	10.0	7.4	5.7	5.6
ARKANSAS	936.0	940.5	943.4	58.9	53.1	57.3	6.3	5.6	6.1
Fayetteville-Springdale	68.0	69.9	71.3	3.5	3.1	4.0	5.2	4.4	5.6
Fort Smith ¹	82.7	84.0	84.1	5.0	5.0	5.1	6.1	5.9	6.0
Little Rock-North Little Rock	178.0	181.6	181.1	7.9	8.0	8.4	4.4	4.4	4.6
Pine Bluff	35.6	36.1	36.0	2.4	2.5	2.6	6.6	6.8	7.1
CALIFORNIA ²	10,270.3	10,588.5	10,716.0	879.2	760.4	868.3	8.6	7.2	8.1
Anaheim-Santa Ana-Garden Grove	921.3	997.0	994.7	57.7	51.1	58.4	6.3	5.1	5.9
Bakersfield	172.0	179.1	177.8	13.6	13.0	15.2	7.9	7.2	8.6
Fresno	249.7	265.6	261.1	20.5	19.8	22.6	8.2	7.5	8.7
Los Angeles-Long Beach ²	3,402.0	3,375.0	3,473.0	292.0	248.0	274.0	8.6	7.4	7.9
Modesto	131.2	135.9	137.4	20.9	20.4	19.5	15.9	15.0	14.2
Oxnard-Simi Valley-Ventura	197.7	207.4	206.8	17.2	15.4	19.5	8.7	7.4	9.5
Riverside-San Bernardino-Ontario	510.4	544.2	546.5	45.3	37.2	44.8	8.9	6.8	8.2
Sacramento	428.8	449.5	456.4	40.3	33.7	40.3	9.4	7.5	8.8
Salinas-Seaside-Monterey	124.8	135.1	130.0	9.0	9.0	9.3	7.2	6.7	7.2
San Diego	651.8	673.5	681.1	59.2	47.4	49.3	9.1	7.0	7.2
San Francisco-Oakland	1,527.0	1,554.5	1,571.1	120.8	92.4	114.5	7.9	5.9	7.3
San Jose	615.4	662.2	671.9	43.8	42.3	48.3	7.1	6.4	7.2
Santa Barbara-Santa Maria-Lompoc	133.2	136.8	138.4	10.2	9.3	12.7	7.7	6.8	9.2
Santa Rosa	113.2	117.2	117.7	11.6	8.8	10.2	10.3	7.5	8.6
Stockton	155.5	165.4	166.2	18.0	18.0	22.5	11.6	10.9	13.5
Vallejo-Fairfield-Napa	117.2	123.2	124.1	9.1	7.7	9.2	7.8	6.3	7.4
COLORADO	1,275.0	1,307.9	1,319.9	78.7	76.8	72.8	6.2	5.9	5.5
Denver-Boulder	733.4	756.6	764.2	45.2	42.1	40.1	6.2	5.6	5.3
CONNECTICUT	1,533.5	1,536.3	1,528.7	110.3	67.8	67.9	7.2	4.4	4.4
Bridgeport	184.4	188.1	185.8	13.7	9.2	9.3	7.4	4.9	5.0
Hartford	366.4	366.6	365.1	25.6	14.3	13.9	7.0	3.9	3.8
New Britain	71.9	71.5	70.5	5.6	3.2	2.8	7.8	4.4	4.0
New Haven-West Haven	200.2	197.9	196.9	15.8	8.3	8.4	7.9	4.2	4.3
Stamford	113.3	119.3	120.9	5.6	4.4	4.7	5.0	3.7	3.9
Waterbury	110.8	109.8	107.2	9.7	6.1	5.6	8.8	5.6	5.3
DELAWARE	275.9	275.3	280.9	21.5	22.4	23.5	7.8	8.1	8.4
Wilmington ¹	240.2	235.8	238.6	19.4	18.2	18.7	8.1	7.7	7.9
DISTRICT OF COLUMBIA	334.3	334.0	340.5	34.5	30.8	33.9	10.3	9.2	9.9
Washington SMSA ¹	1,573.4	1,583.1	1,596.3	85.0	77.8	78.1	5.4	4.9	4.9
FLORIDA ²	3,534.0	3,802.7	3,828.8	270.0	258.7	260.9	7.6	6.8	6.8
Fort Lauderdale-Hollywood	351.0	374.8	380.0	27.9	26.7	26.1	7.9	7.1	6.9
Jacksonville	296.1	317.3	315.0	18.1	21.2	19.3	6.1	6.7	6.1
Miami	693.9	728.0	743.6	56.4	54.2	52.5	8.1	7.4	7.1
Orlando	277.6	298.2	300.6	20.6	18.6	19.2	7.4	6.2	6.4
Pensacola	109.1	116.0	119.2	5.8	6.9	7.1	5.3	6.0	5.9
Tampa-St. Petersburg	546.8	584.5	594.6	44.5	35.5	38.4	8.1	6.1	6.5
West Palm Beach-Boca Raton	187.7	204.3	204.9	16.2	15.4	15.9	8.6	7.5	7.8
GEORGIA	2,279.0	N.A.	N.A.	171.6	N.A.	N.A.	7.5	N.A.	N.A.
Atlanta	874.0	N.A.	N.A.	69.3	N.A.	N.A.	7.9	N.A.	N.A.
Augusta ¹	122.8	N.A.	N.A.	10.2	N.A.	N.A.	8.3	N.A.	N.A.
Columbus ¹	88.7	N.A.	N.A.	7.2	N.A.	N.A.	8.2	N.A.	N.A.
Macon	105.1	N.A.	N.A.	9.1	N.A.	N.A.	8.7	N.A.	N.A.
Savannah	87.1	N.A.	N.A.	7.5	N.A.	N.A.	8.6	N.A.	N.A.

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

State and area	Labor force			Unemployment					
				- Number			Percent of labor force		
	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P
HAWAII	417.0	410.4	413.0	29.8	30.1	30.8	7.2	7.3	7.5
Honolulu	328.0	323.6	324.1	22.9	23.0	23.5	7.0	7.1	7.2
IDAHO	405.2	425.9	428.0	21.6	21.2	20.4	5.3	5.0	4.8
Boise City	80.2	88.1	88.1	2.8	2.8	2.6	3.5	3.2	2.9
ILLINOIS ²	5,311.5	5,407.9	5,409.2	345.2	332.7	344.9	6.5	6.2	6.4
Bloomington—Normal	57.3	60.2	60.2	3.2	2.7	2.7	5.5	4.6	4.6
Champaign—Urbana—Rantoul	73.4	74.4	74.4	3.7	3.9	3.9	5.0	5.3	5.3
Chicago	3,386.4	3,441.6	3,442.3	212.1	208.9	217.1	6.3	6.1	6.3
Davenport—Rock Island—Moline ¹	176.2	183.0	182.6	10.0	9.8	9.6	5.7	5.4	5.2
Decatur	60.3	61.3	61.1	4.3	4.0	4.1	7.2	6.6	6.7
Peoria	173.1	178.4	178.4	10.4	9.4	9.5	6.0	5.3	5.3
Rockford	132.4	138.1	137.4	8.3	7.5	7.9	6.3	5.4	5.7
Springfield	96.2	99.3	99.2	5.1	5.6	6.2	5.3	5.7	6.2
INDIANA	2,490.0	2,573.4	2,586.0	140.3	139.7	145.0	5.6	5.4	5.6
Evansville ¹	135.7	140.1	139.0	6.6	5.8	6.5	4.8	4.1	4.7
Fort Wayne	178.8	185.5	185.3	8.9	9.0	8.7	5.0	4.9	4.7
Gary—Hammond—East Chicago	289.0	292.3	296.3	18.1	16.7	17.1	6.3	5.7	5.8
Indianapolis	553.3	570.3	573.6	31.1	28.9	30.1	5.6	5.1	5.3
Muncie	54.7	56.9	57.3	2.7	4.2	4.4	4.9	7.4	7.7
South Bend	131.6	137.7	137.8	7.2	7.8	7.8	5.5	5.7	5.6
Terre Haute	75.1	79.2	78.9	4.2	4.3	4.3	5.6	5.4	5.4
IOWA	1,422.0	1,468.8	1,452.3	58.8	56.2	53.4	4.1	3.8	3.7
Cedar Rapids	82.8	86.8	85.7	3.5	3.1	2.7	4.3	3.5	3.2
Des Moines	171.8	179.8	178.1	7.5	7.3	6.9	4.3	4.1	3.9
Dubuque	44.7	46.2	45.5	2.5	2.7	2.4	5.6	5.7	5.2
Sioux City ¹	59.2	59.4	58.5	2.9	3.1	3.5	4.9	5.3	6.0
Waterloo—Cedar Falls	65.1	66.2	66.4	3.0	3.2	3.3	4.6	4.9	5.0
KANSAS	1,136.0	1,166.0	1,161.6	45.2	38.1	36.8	4.0	3.3	3.2
Topeka	94.8	96.9	96.3	3.8	3.4	3.6	4.0	3.5	3.7
Wichita	211.1	214.5	213.7	10.2	8.4	7.6	4.8	3.9	3.6
KENTUCKY	1,519.0	1,591.9	1,583.9	61.6	73.3	84.1	4.1	4.6	5.3
Lexington—Fayette	152.4	163.7	160.8	4.8	5.5	6.3	3.1	3.3	3.9
Louisville ¹	400.4	420.3	418.8	18.7	20.5	22.2	4.7	4.9	5.3
LOUISIANA	1,570.8	1,634.5	1,621.1	116.6	134.5	116.7	7.4	8.2	7.2
Baton Rouge	195.5	204.5	N.A.	15.3	16.3	N.A.	7.8	7.9	N.A.
Lake Charles	67.1	67.2	N.A.	5.5	7.1	N.A.	8.2	10.5	N.A.
Monroe	51.6	54.1	N.A.	4.1	4.7	N.A.	8.0	8.7	N.A.
New Orleans	463.4	471.9	N.A.	37.4	36.7	N.A.	8.1	7.8	N.A.
Shreveport	147.4	153.6	N.A.	9.4	11.3	N.A.	6.4	7.4	N.A.
MAINE	489.4	487.6	493.4	45.3	26.9	32.7	9.2	5.5	6.6
Lewiston—Auburn	36.7	37.2	36.9	5.0	1.7	3.2	13.6	4.6	8.7
Portland	82.7	87.4	87.8	6.1	4.1	4.4	7.3	4.7	5.0
MARYLAND	1,979.5	2,077.1	2,069.2	116.8	110.2	98.4	5.9	5.3	4.8
Baltimore	977.7	1,063.8	1,055.4	64.0	62.8	55.6	6.5	5.9	5.3
MASSACHUSETTS ²	2,822.8	2,939.6	2,934.1	218.8	203.4	186.3	7.8	6.9	6.3
Boston	1,348.9	1,408.7	1,422.8	101.0	95.6	86.2	7.5	6.8	6.1
Brockton	78.5	82.1	82.6	7.0	5.8	5.3	8.9	7.0	6.4
Fall River ¹	76.4	80.3	83.0	6.6	5.6	5.6	8.7	6.9	6.8
Lawrence—Haverhill ¹	N.A.	144.1	145.4	N.A.	10.5	10.3	N.A.	7.3	7.1
Lowell ¹	109.3	116.7	116.2	8.8	8.8	8.2	8.1	7.5	7.0
New Bedford	84.4	85.7	83.1	9.6	6.7	7.1	11.4	7.8	8.6
Springfield—Chicopee—Holyoke ¹	274.8	283.2	281.5	19.0	18.6	17.2	6.9	6.6	6.1
Worcester	193.2	203.5	200.7	12.7	12.5	11.7	6.6	6.1	5.8
MICHIGAN ²	4,144.6	4,239.6	4,225.9	366.1	298.7	307.4	8.8	7.0	7.3
Ann Arbor	127.8	132.6	131.6	9.0	7.4	8.0	7.0	5.6	6.0
Battle Creek	82.6	82.5	82.5	7.3	5.6	5.4	8.8	6.8	6.6
Bay City	53.1	55.0	54.6	4.4	3.6	3.5	8.3	6.6	6.4
Detroit	1,965.3	2,017.5	2,000.4	162.9	138.3	142.3	8.3	6.9	7.1
Flint	220.0	226.3	226.0	26.1	16.6	18.0	11.9	7.3	8.0

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		
	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P
MICHIGAN—Continued									
Grand Rapids	280.1	292.3	289.1	19.8	15.8	16.2	7.1	5.4	5.6
Jackson	65.9	66.3	65.9	5.7	4.1	3.7	8.6	6.2	5.6
Kalamazoo—Portage	128.6	131.2	131.2	8.7	8.0	8.6	6.7	6.1	6.6
Lansing—East Lansing	217.5	228.2	226.6	22.5	13.9	17.2	10.3	6.1	7.6
Muskegon—Norton Shores—Muskegon Heights	77.4	78.2	78.4	8.0	6.6	7.4	10.4	8.4	9.5
Saginaw	100.2	104.9	105.2	7.3	6.4	5.6	7.2	6.1	5.3
MINNESOTA	1,974.8	2,032.3	2,023.6	95.8	78.4	76.1	4.8	3.9	3.8
Duluth—Superior	114.7	N.A.	N.A.	9.0	N.A.	N.A.	7.9	N.A.	N.A.
Minneapolis—St. Paul	1,010.6	1,066.4	1,048.6	43.3	35.9	35.8	4.3	3.4	3.4
MISSISSIPPI	980.8	989.3	987.0	75.3	81.2	80.9	7.7	8.2	8.2
Jackson	139.6	143.6	141.4	8.7	9.0	6.4	6.2	6.2	5.9
MISSOURI	2,242.9	2,269.0	2,273.5	136.6	109.6	115.5	6.1	4.9	5.1
Kansas City ¹	664.3	682.5	682.1	41.2	28.9	29.7	6.2	4.2	4.4
St. Joseph	46.1	45.1	45.7	3.0	2.4	2.9	6.6	5.4	6.4
St. Louis ¹	1,075.3	1,081.2	1,078.6	73.9	57.7	60.3	6.9	5.3	5.6
Springfield	98.3	99.2	98.6	4.4	4.0	4.1	4.5	4.1	4.2
MONTANA	364.4	379.3	382.8	22.0	25.0	22.4	6.0	6.6	5.8
Billings	53.0	52.6	52.9	2.2	2.8	2.4	4.1	5.2	4.5
Great Falls	35.8	36.4	35.1	2.0	2.9	2.4	5.6	7.9	6.8
NEBRASKA	792.5	792.2	796.0	27.9	21.9	22.2	3.5	2.8	2.8
Lincoln	105.6	107.9	108.2	2.9	2.4	2.5	2.8	2.3	2.3
Omaha ¹	278.2	283.3	282.6	14.8	11.2	11.1	5.3	3.9	3.9
NEVADA	325.9	343.3	346.7	21.5	14.5	13.9	6.6	4.2	4.0
Las Vegas	176.1	181.7	181.4	13.6	8.9	8.3	7.7	4.9	4.5
Reno	91.8	100.9	104.5	4.2	2.5	2.3	4.5	2.5	2.2
NEW HAMPSHIRE	430.7	437.7	450.2	31.4	19.5	25.0	7.3	4.5	5.5
Manchester	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NEW JERSEY ²	3,413.5	3,427.9	3,484.9	309.8	259.6	275.9	9.1	7.6	7.9
Atlantic City	91.8	90.5	95.1	9.1	7.8	8.0	9.9	8.7	8.4
Jersey City	259.2	254.3	257.5	33.6	31.2	30.4	12.9	12.3	11.8
Long Branch—Asbury Park	229.1	228.1	232.3	20.4	17.6	18.7	8.9	7.7	8.0
Newark	939.6	948.7	964.6	83.2	70.1	75.6	8.9	7.4	7.8
New Brunswick—Perth Amboy—Sayreville	299.3	309.5	313.4	25.7	22.5	24.1	8.6	7.3	7.7
Paterson—Clifton—Passaic	210.3	213.2	216.8	23.1	18.2	20.5	11.0	8.5	9.4
Trenton	155.1	156.5	156.4	10.5	8.8	9.3	6.7	5.6	6.0
Vineland—Millville—Bridgeton	59.3	60.9	63.4	7.2	6.0	7.1	12.1	9.9	11.2
NEW MEXICO	518.7	538.4	538.7	40.8	29.5	29.5	7.9	5.5	5.5
Albuquerque	188.4	196.8	196.0	16.2	11.2	10.6	8.6	5.7	5.4
NEW YORK ²	7,951.7	7,918.1	8,039.8	694.5	579.6	613.6	8.7	7.3	7.6
Albany—Schenectady—Troy	367.2	366.2	370.3	24.1	21.5	21.4	6.6	5.9	5.8
Binghamton ¹	136.2	137.2	137.0	9.5	7.9	9.0	7.0	5.8	6.6
Buffalo	587.0	567.8	584.9	53.0	43.3	47.7	9.0	7.6	8.2
Elmira	41.7	40.3	41.4	3.9	3.1	3.1	9.4	7.8	7.6
Nassau—Suffolk	1,249.7	1,270.1	1,291.1	104.6	83.8	92.9	8.4	6.6	7.2
New York	3,663.0	3,660.4	3,710.3	353.8	297.2	313.0	9.7	8.1	8.4
New York City ²	3,072.0	3,075.0	3,112.0	314.0	259.0	274.0	10.2	8.4	8.8
Poughkeepsie	100.5	101.5	103.0	5.5	5.0	5.2	5.5	4.9	5.0
Rochester	462.1	456.6	456.2	30.9	26.4	26.4	6.7	5.8	5.8
Syracuse	292.8	294.7	298.4	21.1	18.5	19.6	7.2	6.3	6.6
Utica—Rome	142.5	137.7	139.5	12.1	8.8	9.2	8.5	6.4	6.6
NORTH CAROLINA	2,717.6	2,705.3	2,756.0	178.4	104.3	124.8	6.6	3.9	4.5
Asheville	83.3	84.9	88.2	4.3	2.8	5.0	5.1	3.2	5.6
Charlotte—Gastonia	320.8	331.3	325.9	17.8	10.0	10.5	5.5	3.0	3.2
Greensboro—Winston-Salem—High Point	407.1	411.9	410.6	25.2	13.0	16.4	6.2	3.1	4.0
Raleigh—Durham	258.5	269.4	267.3	12.2	7.4	7.3	4.7	2.7	2.7
NORTH DAKOTA	312.1	310.5	322.0	13.4	13.6	12.9	4.3	4.4	4.0
Fargo—Moorehead	67.9	71.7	72.5	2.6	3.0	2.7	3.9	4.2	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		
	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P
OHIO ²	4,933.1	4,954.6	5,024.5	302.8	268.1	266.7	6.1	5.4	5.3
Akron	299.7	299.1	302.5	18.3	17.7	17.0	6.1	5.9	5.6
Canton	179.4	176.1	181.6	12.3	9.0	9.8	6.8	5.1	5.4
Cincinnati ¹	632.7	641.4	651.6	32.9	31.9	32.2	5.2	5.0	4.9
Cleveland	932.5	927.9	941.3	53.6	45.0	44.3	5.8	4.9	4.7
Columbus	524.7	524.3	532.0	31.4	25.5	24.9	6.0	4.9	4.7
Dayton	370.7	379.1	381.1	19.6	17.8	17.2	5.3	4.7	4.5
Toledo ¹	361.1	369.7	372.2	25.0	23.0	23.5	6.9	6.2	6.3
Youngstown—Warren	238.6	236.7	241.1	17.9	17.8	17.7	7.5	7.5	7.3
OKLAHOMA	1,237.8	1,278.5	1,262.2	63.1	54.5	48.9	5.1	4.3	3.9
Oklahoma City	363.5	393.4	389.4	17.2	15.0	13.3	4.7	3.8	3.4
Tulsa	296.9	300.6	299.6	15.4	12.5	11.2	5.2	4.2	3.7
OREGON	1,141.7	1,194.6	1,193.3	77.7	60.1	65.2	6.8	5.0	5.5
Eugene—Springfield	118.8	122.7	121.2	9.7	7.3	7.8	8.1	6.0	6.4
Portland ¹	542.5	576.6	580.1	34.2	26.2	28.4	6.3	4.6	4.9
Salem	107.3	112.1	110.1	6.4	6.0	6.0	5.9	5.3	5.5
PENNSYLVANIA ²	5,258.0	5,316.1	5,363.6	390.4	348.5	390.2	7.4	6.6	7.3
Allentown—Bethlehem—Easton ¹	306.1	303.4	306.1	23.4	17.2	22.2	7.7	5.7	7.2
Altoona	57.7	58.3	59.1	3.8	4.2	4.6	6.6	7.1	7.8
Erie	122.2	124.9	126.7	8.9	8.1	9.3	7.3	6.5	7.4
Harrisburg	213.3	216.1	216.4	11.4	10.6	11.0	5.3	4.9	5.1
Johnstown	110.4	107.4	107.8	7.8	9.4	10.1	7.0	8.7	9.4
Lancaster	165.8	171.4	172.3	7.6	7.8	7.9	4.6	4.5	4.6
Northeast Pennsylvania	279.4	270.7	279.4	28.5	20.1	28.7	10.2	7.4	10.3
Philadelphia ¹	2,080.6	2,101.8	2,111.7	177.6	153.9	165.4	8.5	7.3	7.8
Pittsburgh	977.3	1,002.5	1,010.9	59.1	59.0	59.4	6.0	5.9	5.9
Reading	146.5	150.3	148.6	9.8	8.2	9.2	6.7	5.4	6.2
Williamsport	50.7	51.6	52.5	4.6	3.3	4.3	9.0	6.4	8.1
York	158.9	166.0	165.6	10.5	8.9	10.1	6.5	5.4	6.1
RHODE ISLAND	440.7	438.8	439.7	45.9	29.1	30.5	10.4	6.6	6.9
Providence—Warwick—Pawtucket ¹	442.3	445.5	443.0	46.4	29.7	30.7	10.5	6.7	6.9
SOUTH CAROLINA	1,313.1	1,337.5	1,332.1	104.9	82.5	84.2	8.0	6.2	6.3
Charleston—North Charleston	150.5	152.1	150.5	13.2	11.1	10.4	8.8	7.3	6.9
Columbia	165.3	171.9	170.4	11.0	8.0	8.1	6.7	4.7	4.8
Greenville—Spartanburg	255.1	259.4	255.3	18.7	13.0	13.2	7.3	5.0	5.2
SOUTH DAKOTA	340.5	348.8	351.4	10.7	11.4	11.6	3.2	3.3	3.3
Sioux Falls	57.1	61.0	60.8	1.5	1.9	1.5	2.6	3.1	2.5
TENNESSEE	1,936.2	1,920.3	1,942.7	136.7	100.3	132.6	7.1	5.2	6.8
Chattanooga ¹	184.6	N.A.	N.A.	11.1	N.A.	N.A.	6.0	N.A.	N.A.
Knoxville	200.2	196.9	204.6	10.5	8.1	15.3	5.3	4.1	7.5
Memphis ¹	375.7	372.6	372.9	27.0	20.7	22.2	7.2	5.6	6.0
Nashville—Davidson	384.9	387.7	387.9	19.7	17.7	19.9	5.1	4.6	5.1
TEXAS ²	5,857.8	6,125.1	6,101.9	322.1	319.8	317.2	5.5	5.2	5.2
Amarillo	86.6	90.1	89.7	3.6	3.4	3.3	4.2	3.8	3.7
Austin	225.3	240.3	240.1	10.4	8.7	9.6	4.5	3.6	4.0
Beaumont—Port Arthur—Orange	168.2	169.6	167.8	11.7	12.2	12.0	6.9	7.2	7.1
Corpus Christi	126.3	132.6	131.5	8.8	8.3	8.3	7.0	6.3	6.3
Dallas—Fort Worth	1,334.3	1,414.2	1,402.1	64.4	64.2	62.4	4.8	4.5	4.5
El Paso	163.2	164.4	164.7	18.6	16.0	16.0	11.4	9.8	9.7
Galveston—Texas City	89.0	93.3	93.5	6.3	6.1	5.8	7.0	6.6	6.2
Houston	1,292.1	1,382.6	1,380.0	60.3	63.7	61.8	4.7	4.6	4.5
Lubbock	99.2	101.7	102.6	3.7	4.4	4.2	3.8	4.4	4.1
San Antonio	397.2	417.0	415.3	30.3	30.1	29.8	7.6	7.2	7.2
Waco	76.9	79.2	79.6	4.0	4.1	4.0	5.2	5.2	5.0
Wichita Falls	59.5	61.8	61.1	2.5	2.4	2.4	4.2	3.9	3.9
UTAH	534.2	546.3	546.3	27.7	22.2	19.8	5.2	4.1	3.6
Salt Lake City—Ogden	354.4	361.5	360.7	18.8	14.9	13.4	5.3	4.1	3.7
VERMONT	231.7	237.8	243.2	15.0	13.6	11.8	6.5	5.7	4.9

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		
	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P	JUL. 1977R	JUN. 1978R	JUL. 1978P
VIRGINIA	2,414.9	2,493.5	2,505.7	125.7	123.1	129.8	5.2	4.9	5.2
Lynchburg	69.1	72.6	73.2	3.5	3.3	3.6	5.0	4.5	4.9
Newport News—Hampton	156.9	165.5	165.6	9.1	9.7	9.8	5.8	5.9	5.9
Norfolk—Virginia Beach—Portsmouth ¹	317.3	325.8	327.8	18.3	19.1	20.1	5.8	5.9	6.1
Richmond	315.9	328.3	331.5	12.4	12.3	12.7	3.9	3.7	3.8
Roanoke	109.6	115.1	115.5	5.2	5.3	5.4	4.7	4.6	4.7
WASHINGTON	1,675.2	1,779.3	1,760.4	152.0	115.9	109.7	9.1	6.5	6.2
Seattle—Everett	706.9	765.3	761.4	59.6	44.6	40.7	8.4	5.8	5.4
Spokane	130.6	140.4	140.7	10.3	8.3	7.6	7.9	5.9	5.4
Tacoma	158.1	165.0	163.2	15.6	12.6	11.9	9.8	7.6	7.3
WEST VIRGINIA	704.1	705.5	724.3	45.1	31.2	41.2	6.4	4.4	5.7
Charleston	116.3	113.7	117.0	4.8	3.5	4.2	4.1	3.1	3.6
Huntington—Ashland ¹	114.9	113.4	118.3	6.5	5.2	8.3	5.6	4.6	7.0
Parkersburg—Marietta ¹	64.4	63.7	66.3	4.0	2.7	3.3	6.2	4.2	5.0
Wheeling ¹	78.9	76.2	78.9	4.1	3.2	3.9	5.2	4.2	4.9
WISCONSIN	2,249.8	2,314.7	2,338.5	108.3	109.1	116.7	4.8	4.7	5.0
Appleton—Oshkosh	141.7	N.A.	N.A.	6.0	N.A.	N.A.	4.2	N.A.	N.A.
Green Bay	87.0	N.A.	N.A.	3.8	N.A.	N.A.	4.3	N.A.	N.A.
Kenosha	67.3	N.A.	N.A.	8.6	N.A.	N.A.	12.8	N.A.	N.A.
La Crosse	43.3	N.A.	N.A.	2.1	N.A.	N.A.	4.8	N.A.	N.A.
Madison	171.3	N.A.	N.A.	6.0	N.A.	N.A.	3.5	N.A.	N.A.
Milwaukee	709.1	N.A.	N.A.	29.6	N.A.	N.A.	4.2	N.A.	N.A.
Racine	89.9	N.A.	N.A.	4.3	N.A.	N.A.	4.8	N.A.	N.A.
WYOMING	207.9	224.5	222.8	6.3	6.7	5.9	3.0	3.0	2.7

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.)

p=preliminary.

r=revised.

N.A.=not available.

NOTE: Estimates have been benchmarked to 1977 Current Population Survey annual averages. Data refer to place of residence.

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;" or "Unemployment Rates for States and Local Governments, First Quarter 1978." A complete set of price schedules and publications is available from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield Virginia, 22161.

Explanatory Notes

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

Introduction

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

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

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

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

Employment

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

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

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

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

Hours of work

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

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

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

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

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

Household data

(A tables)

COLLECTION COVERAGE

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

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

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

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

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

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

CONCEPTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Race. White and black and other are terms used to describe the race of workers. The black and other category, which until recently had been identified as "Negro and other races" and prior to 1969 as "nonwhite," includes all persons who are observed 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, Eskimos, Orientals, and all other "nonwhite" groups. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

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

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

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

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

Nonveterans are males who never served in the Armed Forces.

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

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

HISTORIC COMPARABILITY

Raised lower age limit

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

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

Noncomparability of labor force levels

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

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

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

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

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

Changes in occupational classification system

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

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

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

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

Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for eight months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a non-contiguous cluster of six housing units to a usually contiguous cluster of four housing units. The most recent change was introduced in January 1978, when a supplemental sample of housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design.

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

Time period	Number of sample areas ¹	Households eligible		Households visited not eligible ²
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959	330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	333 ³	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to present	614	53,500	2,500	9,500

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

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

be vacant or otherwise not eligible for interview.

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

ESTIMATING METHODS

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

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

1. Noninterview adjustment. The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 3 to 5 percent depending on weather, vacations, etc.

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

a. First-stage ratio estimate. In the CPS sample, a portion of the 614 sample areas are 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 contribution to 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 applied within each State that contains nonsample areas and takes into account the differences that existed at the time of the 1970 census in the distribution by race and residence of the population in sample areas and the known race-residence distribution in the portions of the State represented by these areas.

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

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

Prior to January 1974, the independent national controls used for the age-sex-race groups in both the second and third steps of the second-stage ratio estimation procedure were prepared by carrying forward the most recent census data (1970) after taking account of subsequent aging of the population, births, deaths, and migration between the United States and other countries. Beginning

in 1974, the "inflation-deflation" method of deriving independent population controls was introduced into the CPS estimation procedures. These independent controls are prepared by inflating the most recent census counts to include the estimated net census undercount by age, sex, and race, aging this population forward to each subsequent month and later age by adding births and net migration, and subtracting deaths. These post-censal population estimates are then "deflated" to census level to reflect the pattern of net undercount in the most recent census by age, sex, and race. The actual percent change over time in the population in any age group is preserved.

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

Rounding of estimates

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

Reliability of the estimates

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

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

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

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

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates vary by rotation group. A description of these effects appears in the article "The Effects of Rotation Group Bias on Estimates from Panel Surveys,"

by Barbara A. Bailer, *Journal of the American Statistical Association*, Volume 70, No. 349, March 1975.

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

The approximate magnitude of two sources of undercoverage of housing units is known. Of the 83,000,000 housing units in the U.S. about 600,000 new construction housing units, other than mobile homes, are not represented in the CPS sample because they were assigned building permits prior to the 1970 census but building was not completed by the time of the census, (i.e., April 1970). Most conventional new construction, for which building permits were issued after the census, is represented. About 290,000 occupied mobile homes are not represented in the CPS; these units were either missed in the census or have been built or occupied since the census. These estimates of missed units are relevant to the present sample only and not to earlier designs where the extent of undercoverage was generally less. The extent of other sources of undercoverage of housing units is unknown but believed to be small.

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 Bailer, Proceedings of the Annual Meetings of the American Statistical Association, Social Statistics Section, Chicago, Illinois, August 1977; in the paper "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, No. 2, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, U.S. Department of Commerce, Bureau of the Census. This last document includes a comprehensive and up-to-date discussion of various sources of errors, and describes attempts to measure them in the CPS.

Sampling error. Since the estimates are based on a sample, they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and enumerators. 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 chances are about 68 out of 100 that an estimate from the survey differs from a complete census figure by less than the standard error. The chances are about 95 out of 100 that the differences would be less than twice the standard error.

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

standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

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

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change over other time periods are subject to higher standard errors. For years prior to 1967, the standard errors must be adjusted due to differences in sample size. For years before 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

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. Consequently, the chances are about 68 out of 100 that the sample estimate differs by less than 150,000 from the figure which would have been obtained from a complete count of the number of persons working the given number of hours. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

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

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

Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentages can be obtained through the use of the standard errors in table G and

the factors in table H. First obtain the standard error from table G for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table G by the appropriate factor from table H. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

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

Table A. Standard errors of major employment status categories

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
(In thousands)		
Total, 16 years and over:		
Civilian labor force	226	173
Employed	239	182
Unemployed	112	115
Males, 20 years and over:		
Civilian labor force	127	111
Employed	138	121
Unemployed	70	73
Females, 20 years and over:		
Civilian labor force	176	129
Employed	174	131
Unemployed	70	73
Both sexes, 16-19 years:		
Civilian labor force	80	85
Employed	85	94
Unemployed	57	70
Black and other, 16 years and over:		
Civilian labor force	80	61
Employed	87	66
Unemployed	55	58
Males, 20 years and over:		
Civilian labor force	47	41
Employed	52	46
Unemployed	35	38
Females, 20 years and over:		
Civilian labor force	62	48
Employed	62	49
Unemployed	35	38
Both sexes, 16-19 years:		
Civilian labor force	33	37
Employed	30	35
Unemployed	28	31

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	.12	OCCUPATION—Continued		
Males, 20 years and over . . . . .	.13	.14	Blue-collar workers—Continued		
Females, 20 years and over . . . . .	.19	.20	Operatives, except transport . . . . .	.40	.45
Both sexes, 16-19 years . . . . .	.56	.67	Transport equipment operatives . . . . .	.53	.60
White workers . . . . .	.11	.12	Nonfarm laborers . . . . .	.61	.70
Black (and other) workers . . . . .	.48	.55	Service workers . . . . .	.32	.36
Married men, spouse present . . . . .	.13	.14	Farm workers . . . . .	.56	.63
Married women, spouse present . . . . .	.23	.25			
Full-time workers . . . . .	.12	.12	INDUSTRY		
Part-time workers . . . . .	.34	.42	Nonagricultural private wage and salary workers . . . . .	.13	.14
Unemployed 15 weeks and over . . . . .	.06	.08	Construction . . . . .	.54	.61
OCCUPATION			Manufacturing . . . . .	.24	.26
White-collar workers . . . . .	.13	.14	Durable goods . . . . .	.30	.34
Professional and technical . . . . .	.20	.22	Nondurable goods . . . . .	.40	.45
Managers and administrators, except farm . . . . .	.22	.24	Transportation and public utilities . . . . .	.39	.44
Sales workers . . . . .	.40	.44	Wholesale and retail trade . . . . .	.26	.29
Clerical workers . . . . .	.25	.28	Finance and service industries . . . . .	.18	.20
Blue-collar workers . . . . .	.21	.23	Government workers . . . . .	.22	.24
Craft and kindred workers . . . . .	.28	.31	Agricultural wage and salary workers	1.10	1.26

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	5.24	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

Establishment data

(B, C, and D tables)

COLLECTION

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

Federal-State cooperation

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

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

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

All data on employment, hours, earnings, and labor turnover for the Nation and for a few States and areas are classified in accordance with the 1967 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. Most States and areas have converted their series to the 1972 SICM.

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.

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 and are unemployed or on strike during the rest of the period, are counted as employed. Not counted as employed are persons who are laid off, on leave without pay, or on strike for the entire period or who are hired but have not been paid during the period.

Industry hours and earnings

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

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

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

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

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

Hours cover the hours paid for, during the pay period which

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

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

Gross average hourly and weekly earnings. Average hourly earnings are on a "gross" basis, reflecting 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. Shifts in the volume of employment between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments also affect the general earnings averages. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

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

Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings. Therefore, weekly earnings are affected not only by changes in gross average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as proportion of part-time workers, stoppages for varying causes, 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 service 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 the portion of the gross average weekly hours which were in excess of regular hours and for which overtime premiums were paid. If an employee worked on a paid holiday at regular rates, receiving as total compensation his holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

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

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

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

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

Railroad 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 and his marital status, as well as on the level of his gross income. To reflect these variables, spendable earnings are computed for a worker with no dependents and a married worker with three dependents. The computations are based on gross average weekly earnings for all production or nonsupervisory workers in the industry division excluding other income and income earned by other family members.

The series reflects the spendable earnings of only those workers, with either none or three dependents, whose gross weekly pay approximates the average earnings indicated for all production and nonsupervisory workers. It does not reflect, for example, the average earnings of all married workers with three dependents; such workers, in fact have higher gross average earnings than workers with no dependents.

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

"Real" earnings, or earnings in constant dollars are computed by dividing the earnings averages for the current month by the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and then multiplying by 100. "Real" earnings for months prior to January 1978, use the unrevised CPI-W as the deflator, whereas those for January 1978, forward use the revised CPI-W as the deflator.

Average hourly earnings excluding overtime. Average hourly earnings excluding overtime premium pay are computed by dividing the total production worker payroll for the industry group by the sum of total production-worker hours and one-half of total overtime hours. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-540). Both methods eliminate only the earnings due to overtime paid for at 1½ times the straight-time rates. No adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

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

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

Labor turnover

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

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

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

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

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

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

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

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

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

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

Relationship of labor turnover to employment series

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

ESTIMATING METHODS

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

The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current month employment to that of the previous month is computed. This is called a link relative. The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these "link relatives." In addition, small bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past experience. Other features of the general procedures are described in table 1. Summary of methods for

Table 1. Summary of methods for computing industry statistics on employment, hours, 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.	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) ratio of women to all employees.	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.	Average, weighted by production or nonsupervisory employment, of the average weekly hours for component cells.
Average weekly overtime hours	Production worker overtime hours divided by number of production workers.	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.	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 and production or nonsupervisory workers	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Gross average weekly hours	Annual total of aggregate hours (production or nonsupervisory worker employment multiplied by average weekly hours) divided by annual sum of employment.	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours	Annual total of aggregate overtime hours (production worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers.
Gross average hourly earnings	Annual total of aggregate payrolls (production or nonsupervisory worker employment multiplied by weekly earnings) divided by annual aggregate hours.	Annual total of aggregate payrolls divided by annual aggregate hours.
Gross average weekly earnings	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates	Annual aggregate (of each labor turnover action) divided by annual sum of employment.	Annual aggregate (of each labor turnover action) divided by annual sum of employment.

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

Size and regional stratification

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

Benchmark adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1974 levels. Normally, benchmark adjustments are made annually.

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

The estimates relating to the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates 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 due to benchmark adjustment for the last 3 years is shown in table J.

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. To provide users of the data with a convenient reference source for the revised data,

Table J. Nonagricultural payroll employment estimates, by industry divisions, as a percentage of the benchmark for 1971, 1973, and 1974

Industry division	1971	1973 ¹	1974
Total	100.2	98.4	99.9
Mining	99.8	96.5	97.0
Contract construction	96.9	90.4	100.6
Manufacturing	100.4	98.9	99.9
Transportation and public utilities ..	100.9	99.3	100.0
Wholesale and retail trade	100.3	97.8	100.1
Finance, insurance, and real estate	100.2	99.5	98.9
Services	100.4	99.1	99.3
Government	100.0	99.5	100.6

¹ 2-year revision.

the BLS publishes as soon as possible after each benchmark revision a summary volume of employment, hours, earnings, and labor turnover statistics, entitled *Employment and Earnings, United States*.

THE SAMPLE

Design

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. The universe of establishments is stratified first by industry and then within each industry by size of establishment in terms of employment. For each industry, the number of sample units is distributed among the size class cells on the basis of average employment per establishment in each cell. In practice this is equivalent to distributing the predetermined total number of establishments required in the sample among the cells on the basis of the ratio of employment in each cell to total employment in the industry. Within each noncertainty stratum the sample members are selected at random.

Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a large percentage of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to accept samples in these divisions 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 establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

In the context of the BLS employment and labor turnover statistics programs, with their emphasis on producing timely data

at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after reports are mailed by respondents, and at a somewhat later date, statistics in considerably greater industrial detail.

Coverage

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

Reliability of the employment estimates

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

Table K. Approximate size and coverage of BLS employment and payrolls sample, March 1974¹

Industry division	Number of establishments in samples	Employees	
		Number reported	Percent of total
Total	158,400	31,637,000	41
Mining	2,100	307,000	46
Contract construction ...	16,500	771,000	20
Manufacturing	47,000	11,821,000	59
Transportation and public utilities:			
Railroad transportation (ICC)	95	537,000	94
Other transportation and public utilities ..	7,300	2,181,000	53
Wholesale and retail trade	38,200	3,050,000	18
Finance, insurance, and real estate	10,100	1,507,000	36
Services	23,500	2,740,000	20
Government:			
Federal (Civil Service Commission) ²	3,200	2,691,000	100
State and local	10,400	6,032,000	52

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

² National estimates of Federal employment are provided to the BLS by the Civil Service Commission. State and area estimates are based on a sample of 3,200 reports covering about 53 percent of employment in Federal establishments.

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

Table L. Approximate size and coverage of BLS labor turnover sample, March 1974

Industry	Employees	
	Number reported	Percent of total
Total	10,873,730	52
Manufacturing	10,007,800	51
Metal mining	61,850	66
Coal mining	56,770	35
Communications:		
Telephone	734,270	74
Telegraph	13,040	61

Table M. Average benchmark percent revision in employment estimates and relative errors¹ for average weekly hours and average hourly earnings by industry division

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

¹ Relative errors relate to March 1971 data.

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

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.

improvements in the quality of the benchmark data. Improvements brought about by the most recent expansion in unemployment insurance coverage were the major cause of differences in the March 1973 benchmark adjustments. (See article by Carol M. Utter, "BLS Establishment Estimates Revised to March 1973 Benchmark Levels," in the December 1974 issue.) Table M presents the average percent revisions of the six most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for 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 M and for individual industries with the specified number of employees in table N. The chances are about 2 out of 3 that the

Table N. 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 (in percent)	
		Average weekly hours	Average hourly earnings
50,000	1,900	0.9	1.5
100,000	2,700	.7	1.1
200,000	4,100	.5	.9
500,000	9,600	.4	.8
1,000,000	13,000	.3	.5
2,000,000	16,800	.3	.5

¹ Assuming 12-month intervals between benchmark revisions.

Table O. Errors of preliminary employment estimates

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

hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

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

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

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

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

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 O 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 .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.

State and area unemployment data

(E table)

FEDERAL-STATE COOPERATIVE PROGRAM

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

PRODUCTIVITY DATA

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

Definition

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

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

Compensation per hour includes wages and salaries of employees plus employers contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payment for the self-employed, except for non-financial 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* includes corporate profits and inventory valuation adjustments per unit of output.

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

Notes on the data

For the private business sector and the nonfarm business sector, these indexes relate to the Gross Domestic Product less households and institutions, owner-occupied housing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the Gross Domestic Product of nonfinancial corporate business.

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

hensive Employment and Training Act, the Public Work Employment Act and the Public Works and Economic Development Act.

ESTIMATING METHODS

Labor force and unemployment in 10 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts, and Florida; and two areas: Los Angeles-Long Beach metropolitan area and New York City, are sufficiently

reliable to be used directly from the CPS. For a description of the CPS concepts see "Explanatory note A, Household Data," above.

Monthly employment and unemployment estimates in the remaining 40 States and 205 labor market areas are prepared in several stages.

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

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

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

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

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

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

U=total entrant unemployment

E=total employment

X=total experienced unemployment

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

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

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

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

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

Seasonal adjustment

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

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

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

adjusting teenage unemployment and those few other unemployment series (e.g., unemployed new entrants) of which teenagers are the exclusive or major part. All other series are adjusted following past procedures.

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

Revised seasonally adjusted series for major components of the labor force based on data through December 1977, new seasonal factors for the 12 major components of the civilian labor force, and a description of the seasonal adjustment methodology are published in the February 1978 *Employment and Earnings*. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

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

dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted revised Consumer Price Index for Urban Wage Earners and Clerical Workers (revised CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1967 base. For total private, total good-producing, total private service-producing, trade, manufacturing, and durable and nondurable goods, 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 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 August 1977. Seasonal factors to be used for current adjustment appear in the December 1977 issue of *Employment and Earnings*.

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

U.S. Department of Labor

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