





**U.S. DEPARTMENT OF LABOR**  
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**BUREAU OF LABOR STATISTICS**  
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CALENDAR OF SPECIAL FEATURES								
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<b>Household data</b>								
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Revised seasonally adjusted series		x						
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Poverty-nonpoverty area data								
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Revised seasonally adjusted series								(2)
State and area annual averages					x			
Area definitions					x			

<sup>1</sup> 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

<sup>2</sup> Revised data introduced December 1977.

# Employment and Earnings

Vol. 25 No. 7 July 1978

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Editors: Chester L. Green, Gloria P. Green, Marcy Freedman

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# Employment and Unemployment Developments, June 1978

Employment rose sharply in June and unemployment declined. The Nation's unemployment rate moved from 6.1 percent in May to 5.7 percent, the lowest in nearly 4 years.

Total employment—as measured by the monthly survey of households—was 94.8 million in June, up over 700,000 from May. As a result of this strong increase, the proportion of the working age population that is employed rose to a new record high of 58.9 percent.

Nonfarm payroll employment—as measured by the monthly survey of establishments—posted a gain of 275,000 jobs in June to 85.7 million.

## Unemployment

The June unemployment rate, 5.7 percent, and the number of unemployed persons, 5.8 million, were down sharply from the levels of the previous month. This decline followed a 4-month period in which the unemployment rate hovered around 6.1 percent. June marked the first time that the jobless rate had been below 6 percent since October 1974.

Teenagers accounted for about half of the 400,000 June decline in unemployment, as their rate dropped from 16.5 to 14.2 percent. Most of the remaining reduction occurred among adult men, whose rate fell from 4.2 to 3.9 percent. The rate for adult women, on the other hand, was little changed over the month at 6.1 percent. The gradual downward trend in joblessness for white workers continued in June, while among blacks the only real over-the-month improvement occurred among adult men. Among other worker categories, unemployment declined substantially for job losers, full-time workers, and persons looking for work for 15 weeks or longer.

## Total employment and the labor force

The growth in the number of employed persons was particularly strong in June, increasing by 710,000 to 94.8 million. Substantial gains took place in both the agricultural and nonagricultural sectors of the economy. All three of the major age-sex groups shared in the expansion, with adult men and teenagers posting slightly larger gains than adult women. Over the year, total employment increased by 3.9 million, after adjusting for changes in the survey introduced in January.

The employment-population ratio sustained its recent growth path in June, reaching an all-time high of 58.9 per-

cent. The ratio was 1.5 points higher than a year earlier (after adjustment).

The civilian labor force increased by 310,000 to 100.6 million in June. The labor force has risen by 2.8 million since last June (adjusted), with adult women accounting for nearly 60 percent of this growth.

The civilian labor force participation rate—the proportion of the population that is either working or looking for work—was up slightly in June to an all-time high of 63.3 percent. Participation rates among adults were 79.9 percent for men and 49.6 percent for women, while teenage participation was 58.4 percent.

## Discouraged workers

Discouraged workers are persons who report that they want work but are not looking for jobs because they believe they cannot find any. Because they do not meet the labor market test—that is, they are not engaged in current job search—they are classified as not in the labor force rather than as unemployed. These data are published on a quarterly basis.

Consistent with a decline in unemployment in the second quarter, the number of discouraged workers also fell. The second quarter average was 840,000, down from 900,000 in the first quarter. The discouraged total had been nearly 1.1 million as recently as mid-1977. The entire decline over the past quarter was among those citing job market factors as their reason for not seeking work. (See table A-53.)

## Industry payroll employment

Nonagricultural payroll employment rose by 275,000 in June to 85.7 million. With the exception of manufacturing, all of the major industry groups posted gains, as employment increased in nearly three-fifths of the 172 industries that comprise the BLS diffusion index of private nonagricultural payroll employment. Nonfarm payroll jobs have expanded by 3.6 million over the past year.

The largest over-the-month employment gain took place in contract construction—85,000. Over the year, nearly one-half million jobs have been added in this industry, bringing employment to a new high of 4.4 million in June. Virtually all of this increase has occurred since January of this year.

Sizeable over-the-month gains also took place in State and local government (60,000), services (55,000), retail trade

(45,000), and finance, insurance, and real estate (20,000). The lack of growth in manufacturing employment was in marked contrast to the sharp job gains which occurred in late 1977 and early 1978. Manufacturing employment has risen by 645,000 over the past year to a level of 20.3 million in June; about 85 percent of this gain was registered in the durable goods industries.

### Hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls was 36.0 hours in June, unchanged from the May level and slightly below a year earlier.

Consistent with the strong employment gain, contract construction hours were up 0.6 hour to 37.2 in June, almost returning to the April high level. The manufacturing workweek edged up 0.1 hour to 40.4 hours, while factory overtime, at 3.5 hours, was unchanged from the May level.

All other major industry groups posted modest declines in hours of work.

The index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls was unchanged in June at 120.0. The index was 3.6 percent above the year-ago level.

### Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls advanced 0.5 percent in June, seasonally adjusted. Average weekly earnings rose by the same margin over the month. Compared with their year-ago levels, average hourly and weekly earnings have increased by 8.6 and 8.0 percent, respectively.

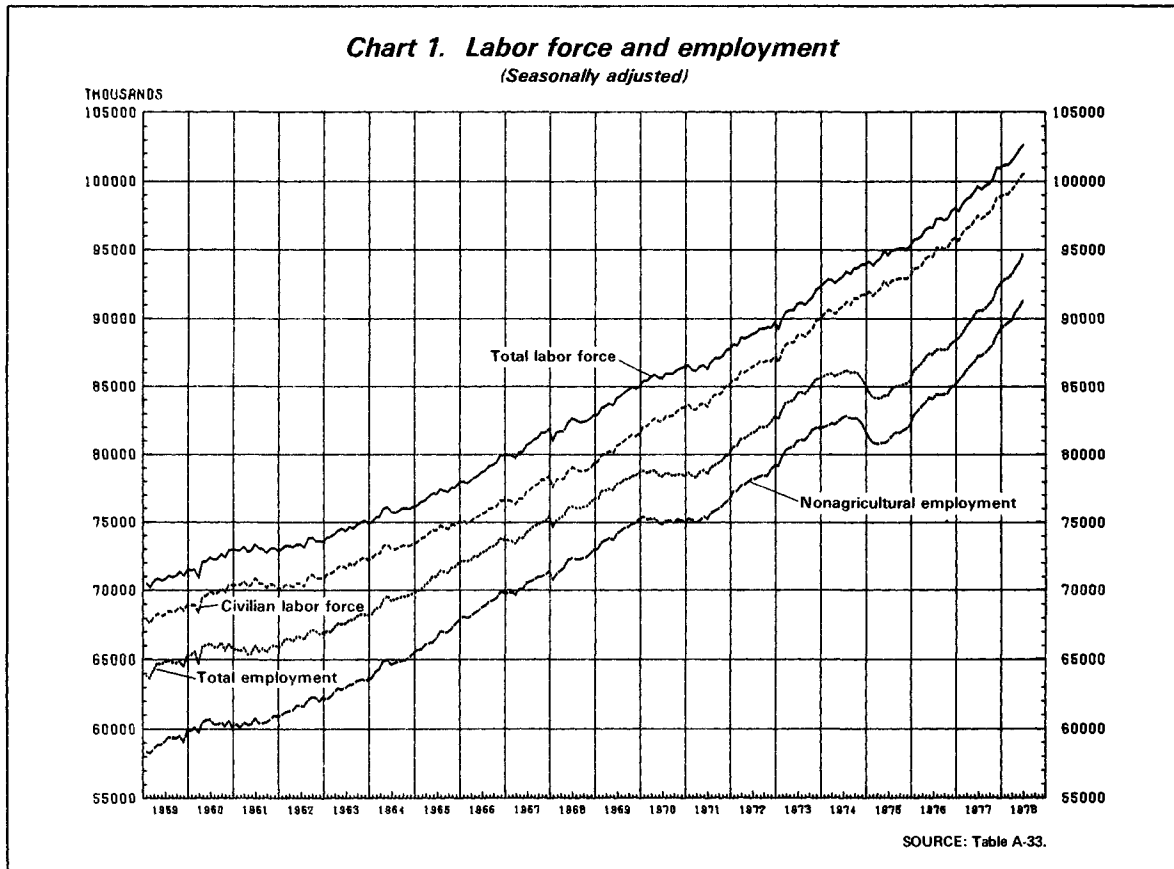
Before adjustment for seasonality, average hourly earnings were \$5.66 in June, up 3 cents from May and 44 cents from a year earlier. Average weekly earnings were \$205.46, \$3.91 above their May level and \$15.45 higher than last June.



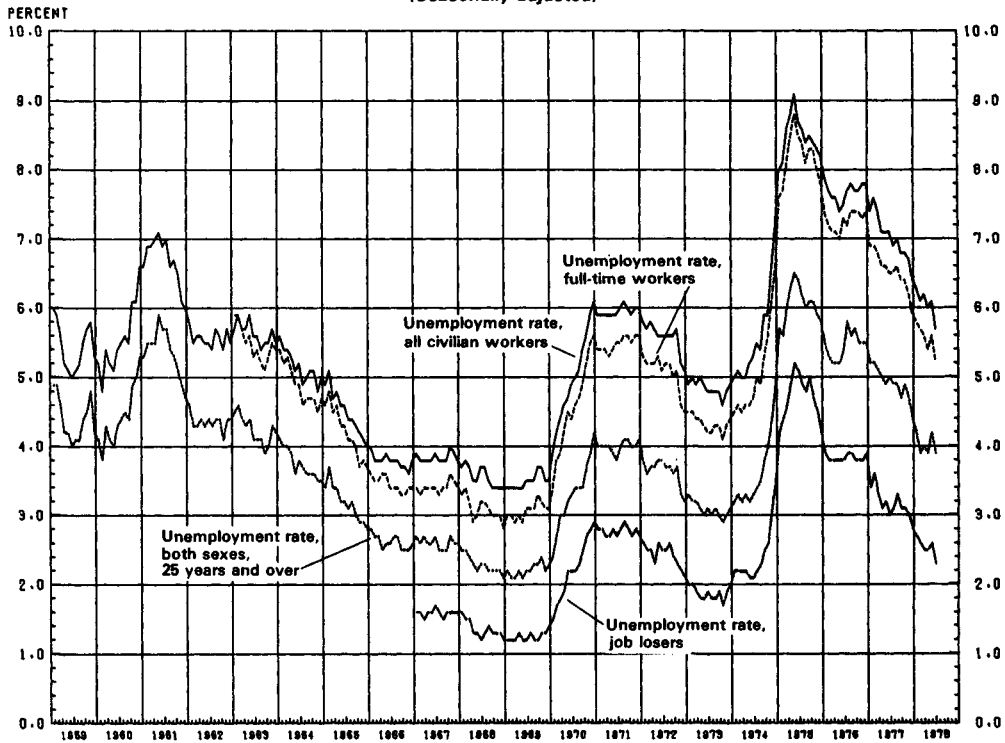
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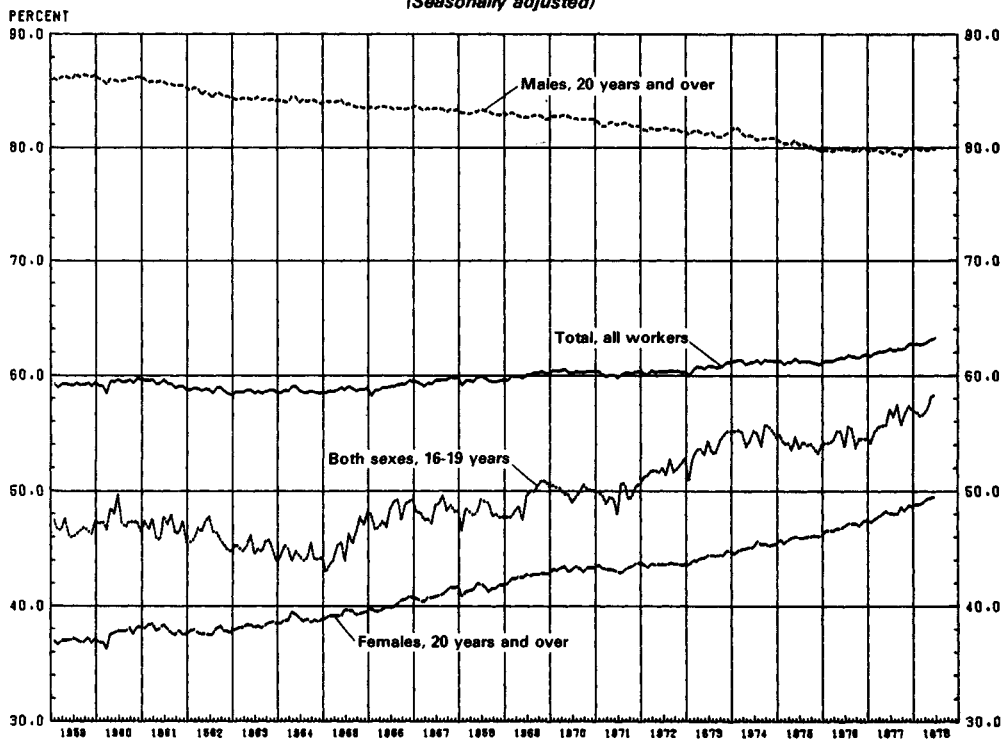


**Chart 2. Major unemployment indicators**  
(Seasonally adjusted)



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

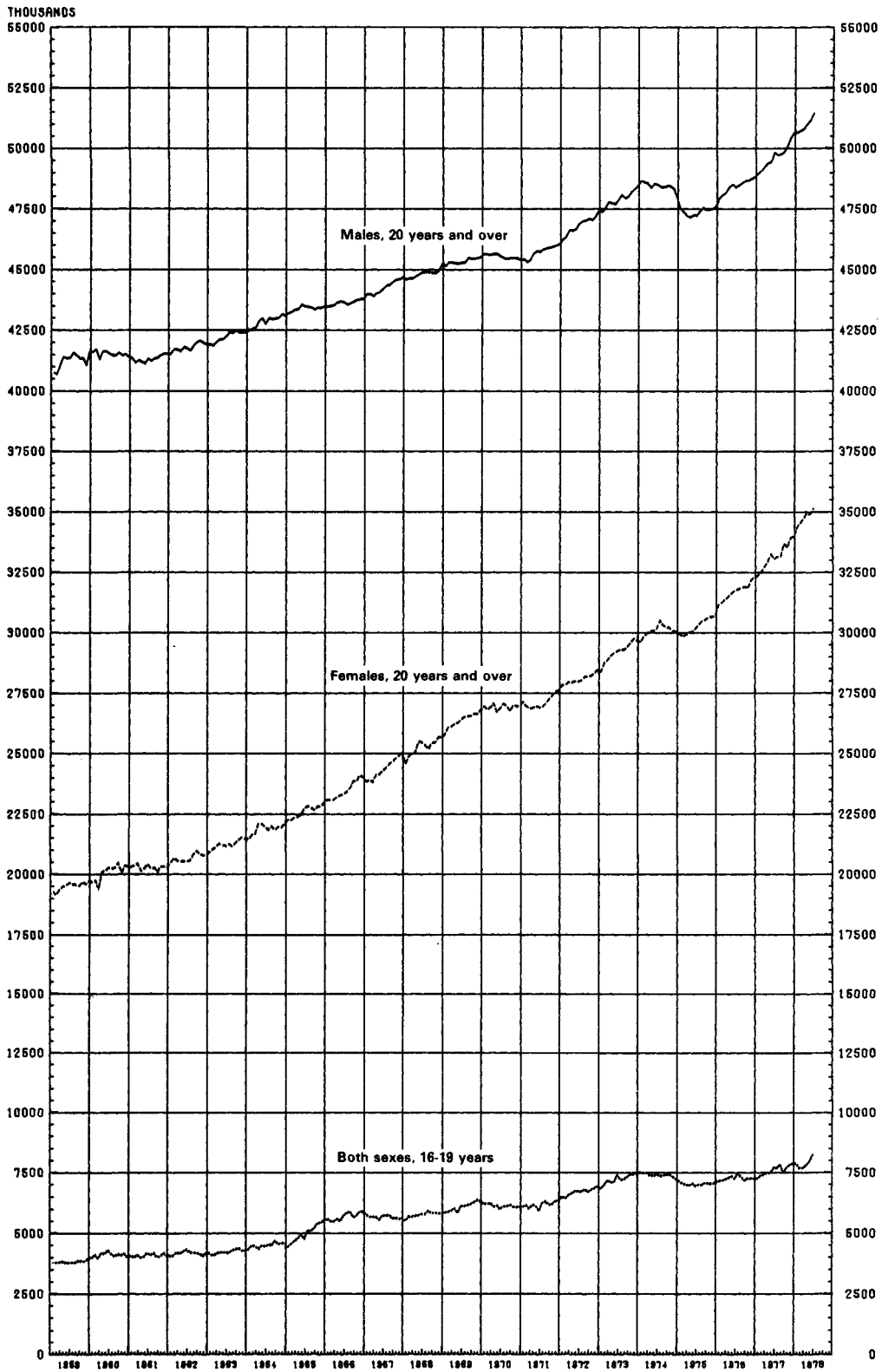
**Chart 3. Civilian labor force participation rates by sex and age**  
(Seasonally adjusted)



SOURCE: Table A-33.

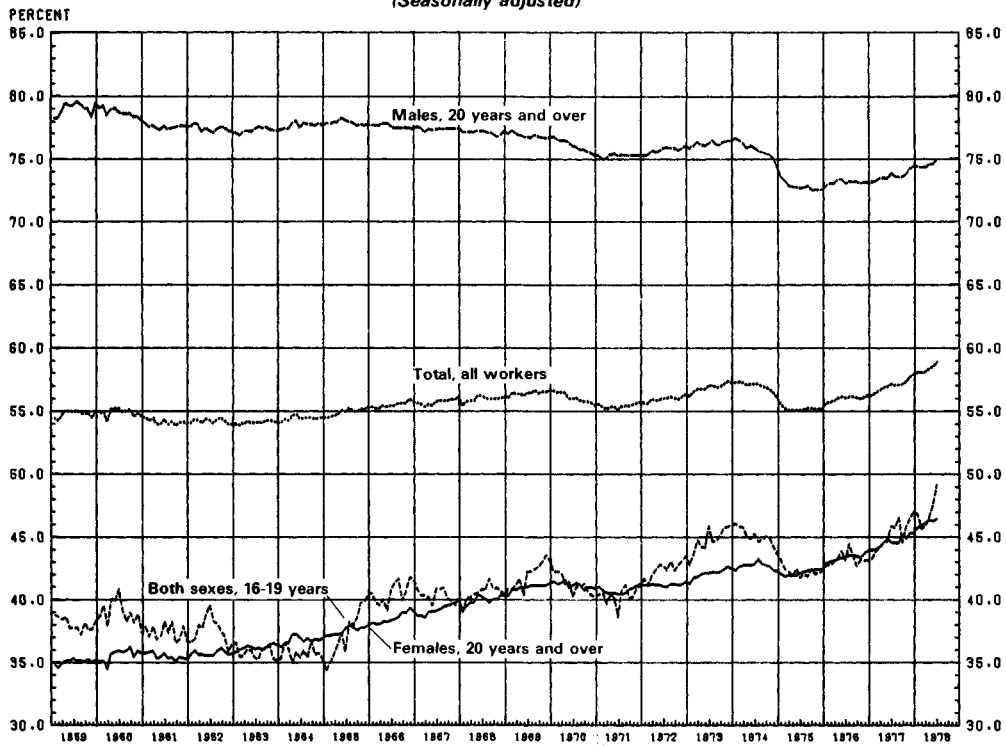
**Chart 4. Total employment by sex and age**

*(Seasonally adjusted)*



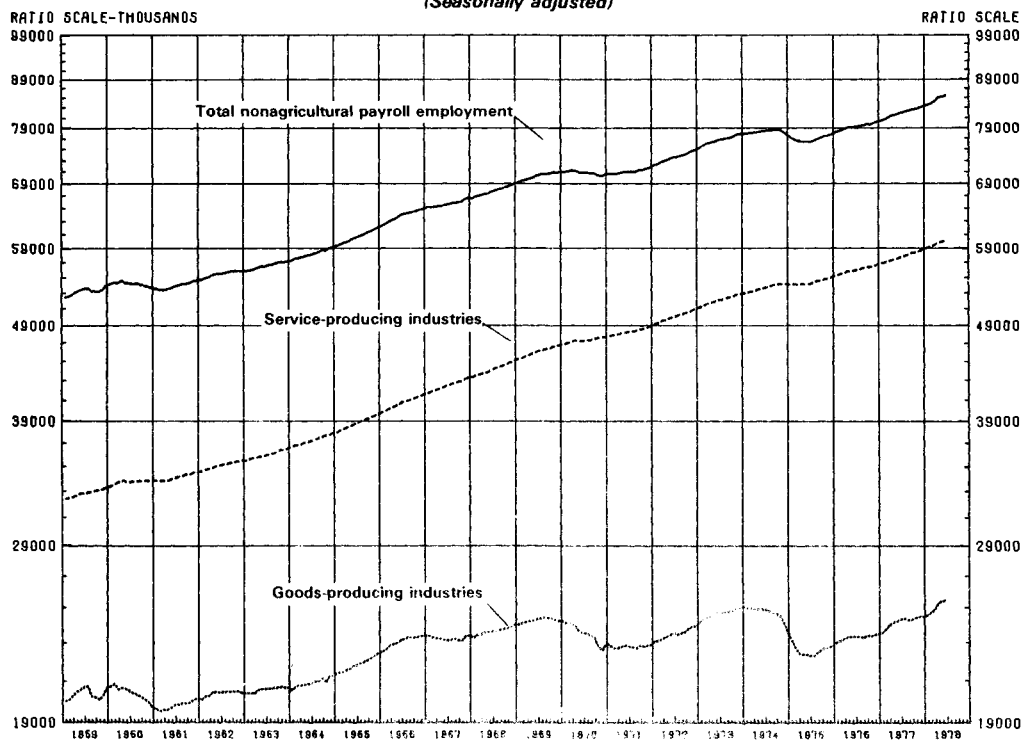
SOURCE: Table A-33.

**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)

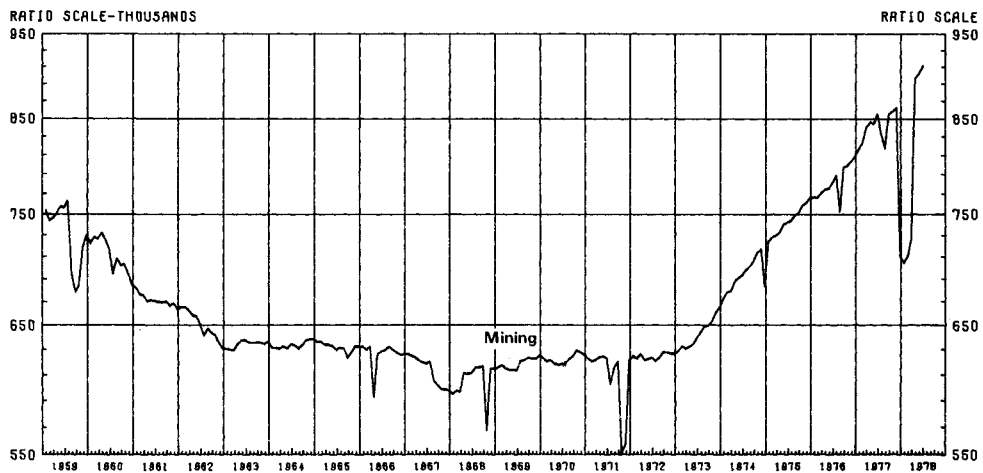
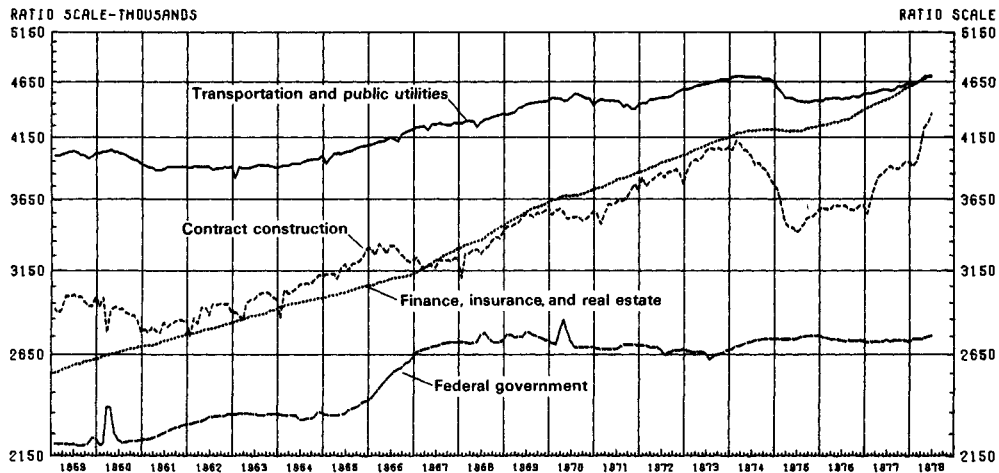
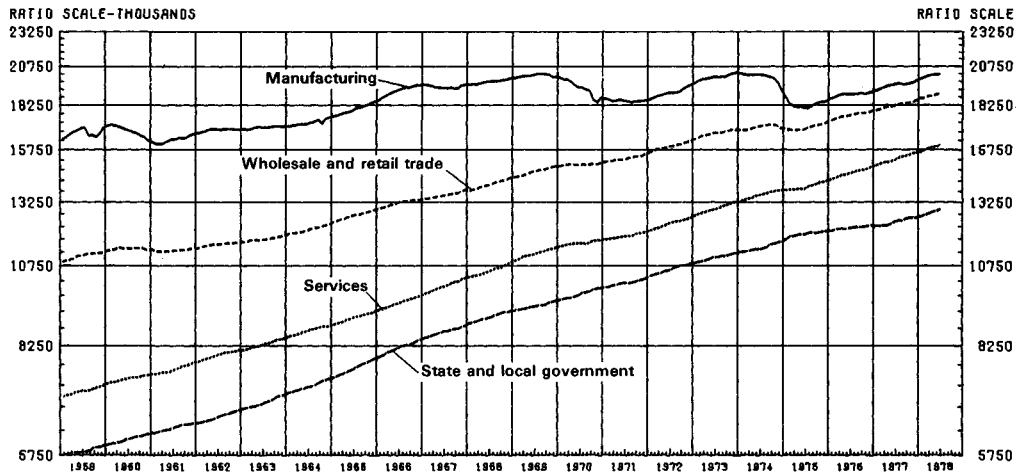


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

### Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

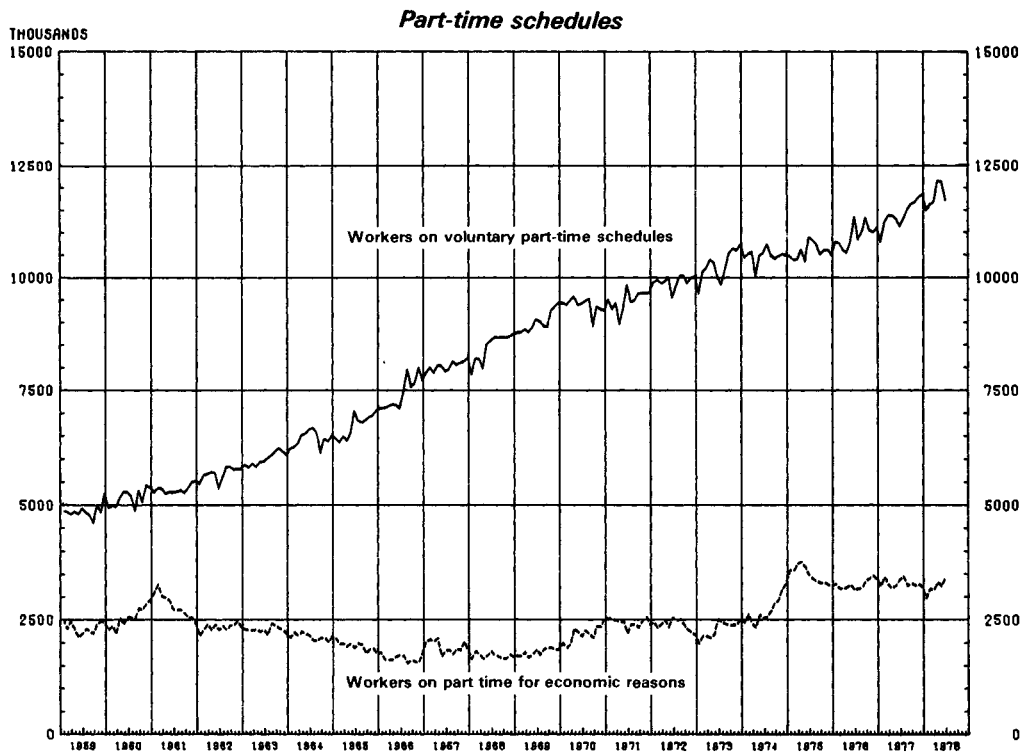
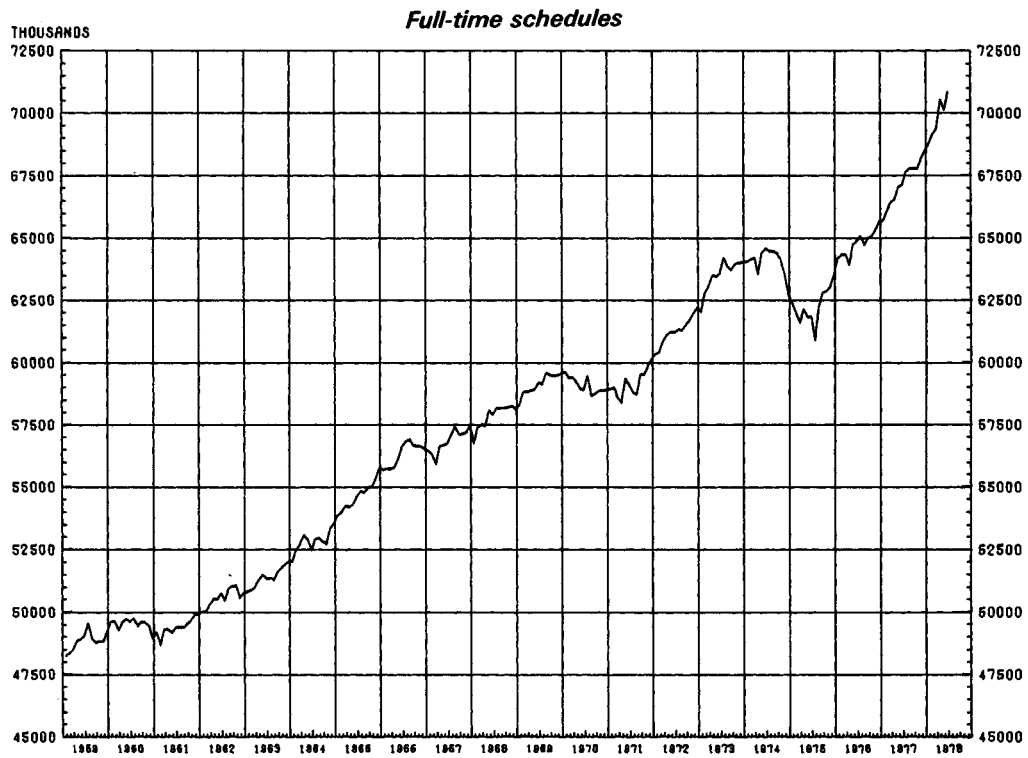


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

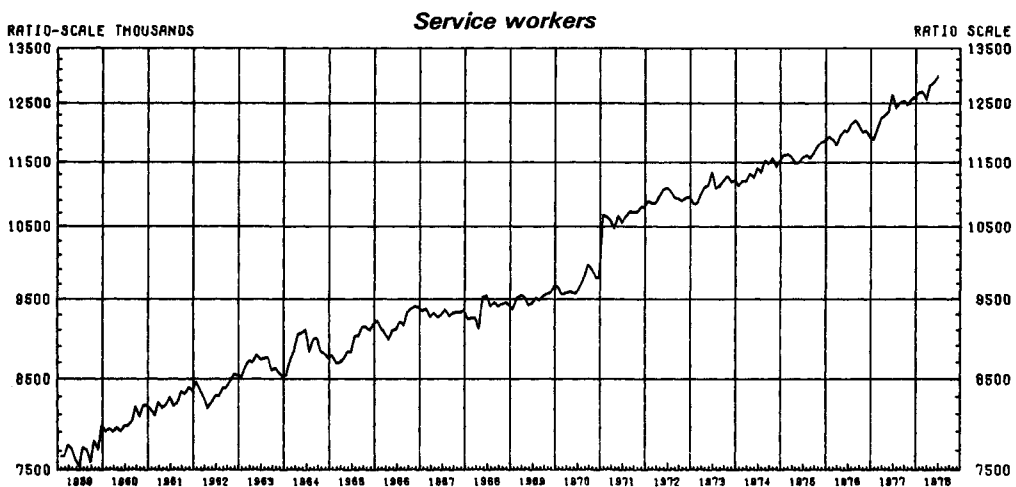
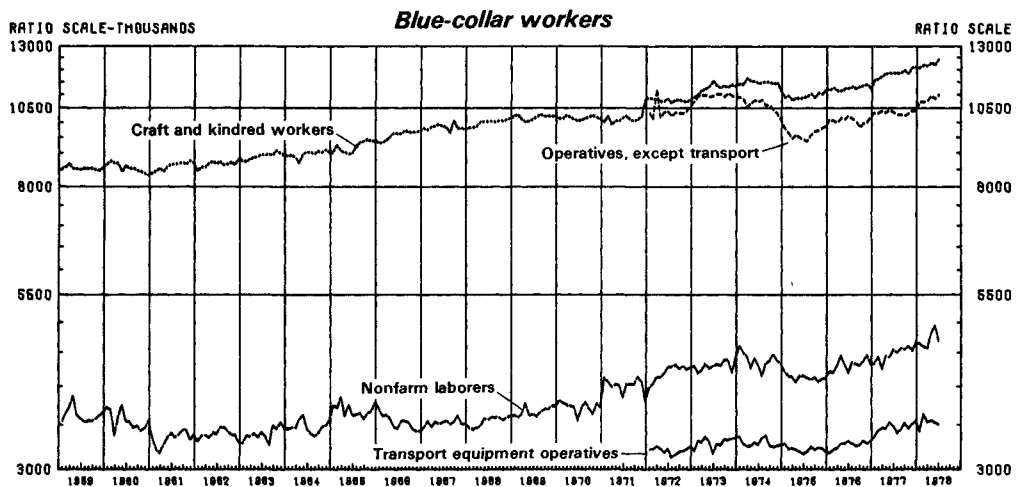
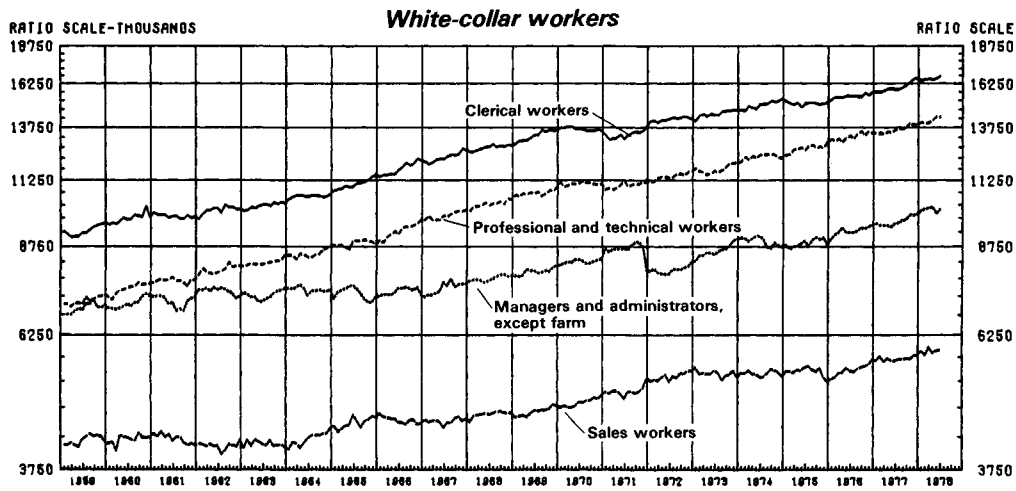
*(Seasonally adjusted)*



SOURCE: Table A-42.

### Chart 9. Employment in nonfarm occupations

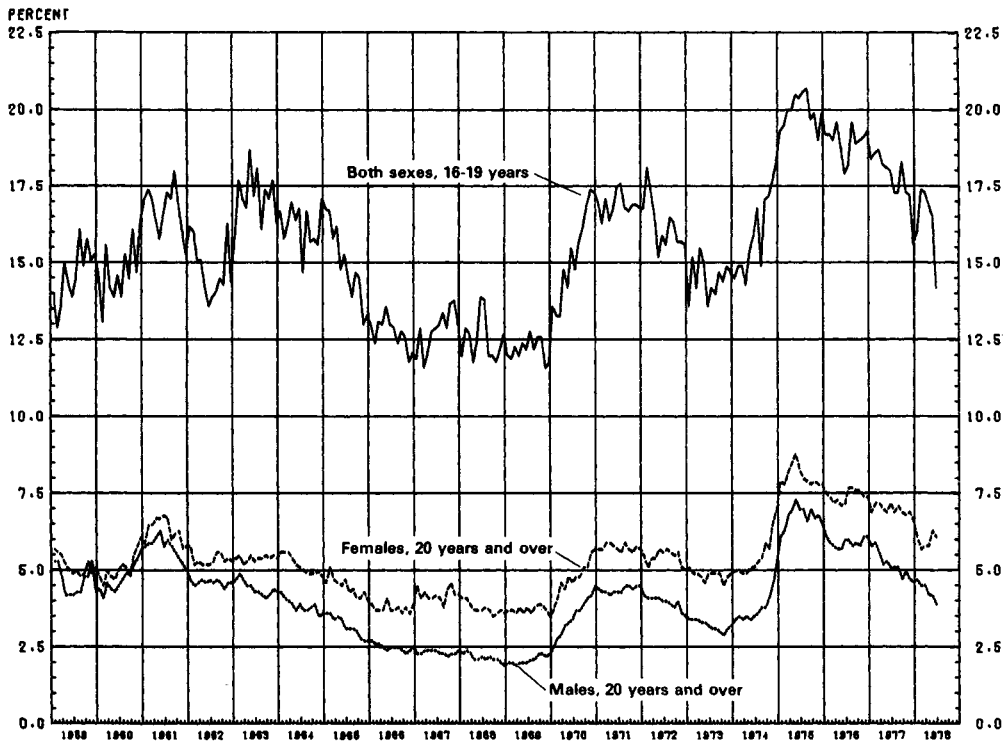
(Seasonally adjusted)



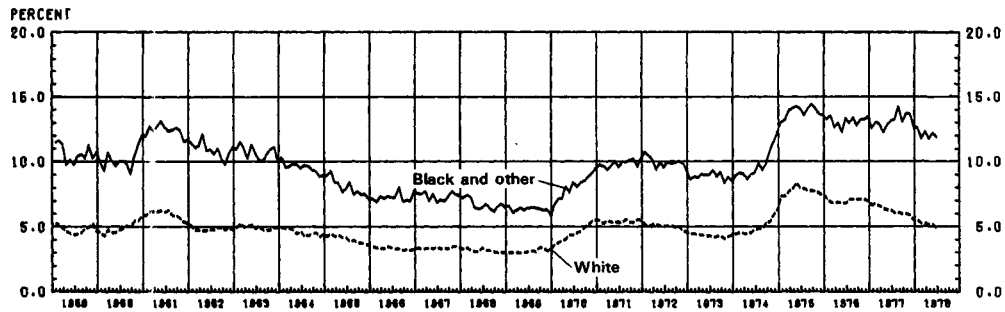
NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

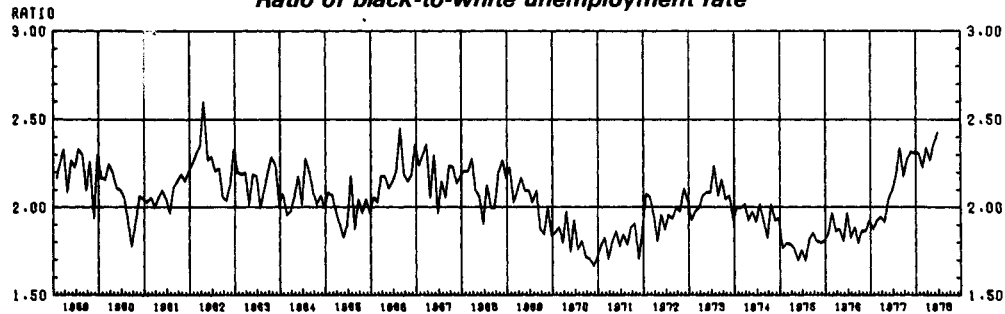
**Chart 10. Unemployment rates by sex and age**



**Chart 11. Unemployment rates by race**  
(Seasonally adjusted)



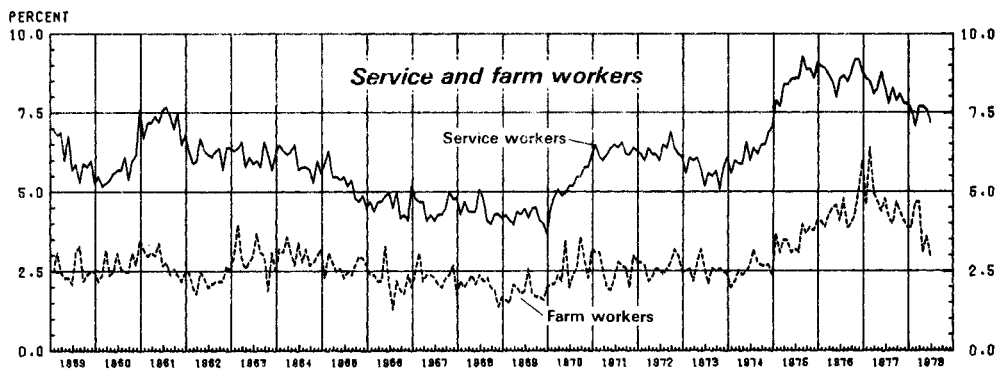
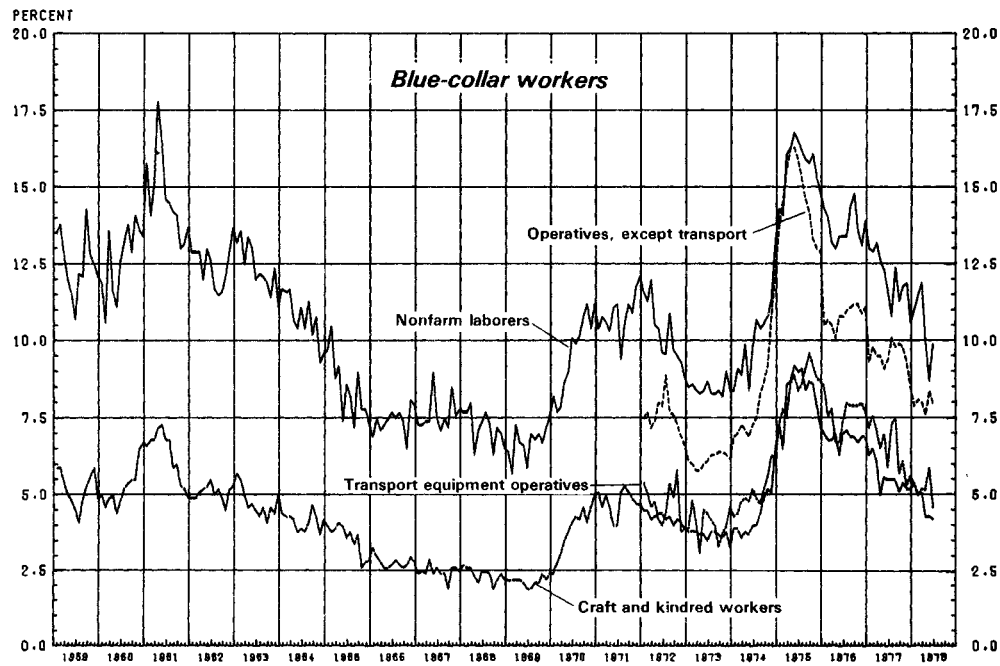
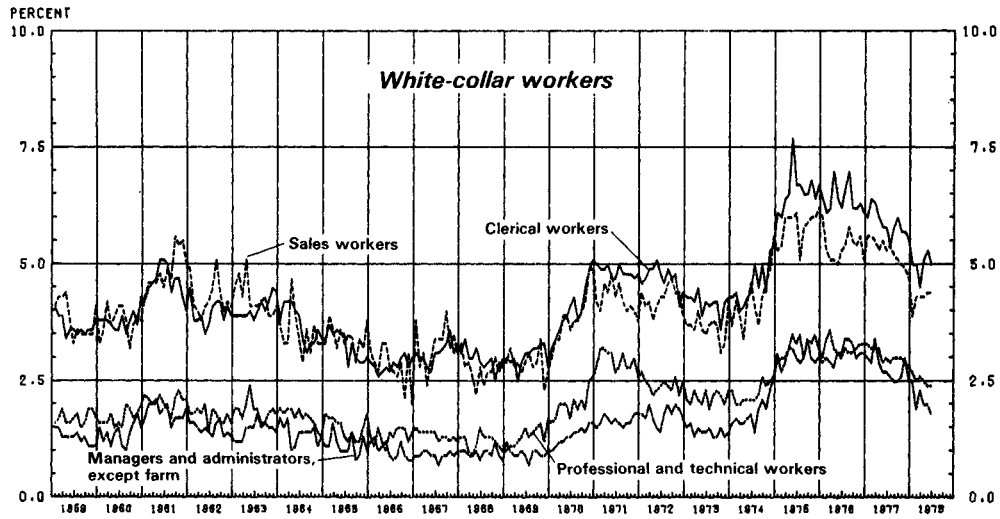
**Ratio of black-to-white unemployment rate**



SOURCE: Table A-35.



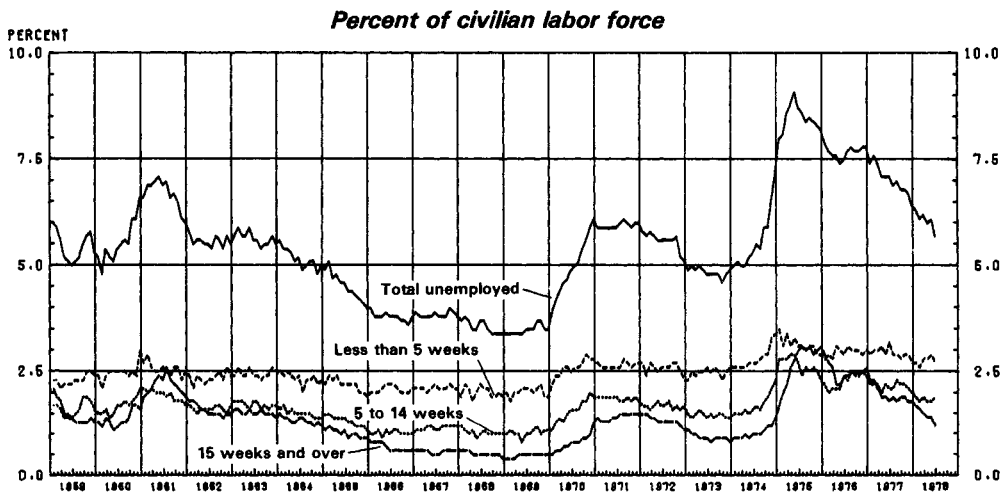
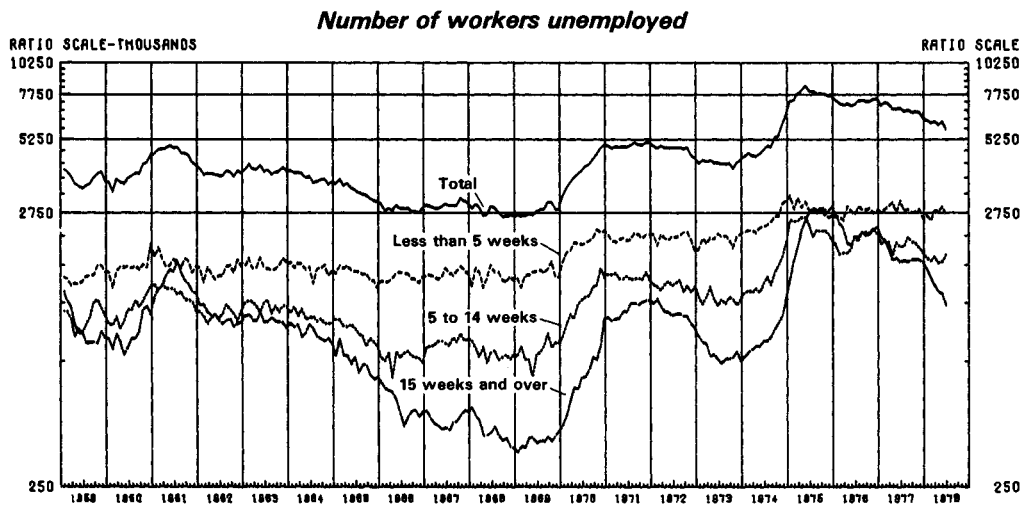
**Chart 12. Unemployment rates by major occupational groups**  
(Seasonally adjusted)



SOURCE: Table A-36.

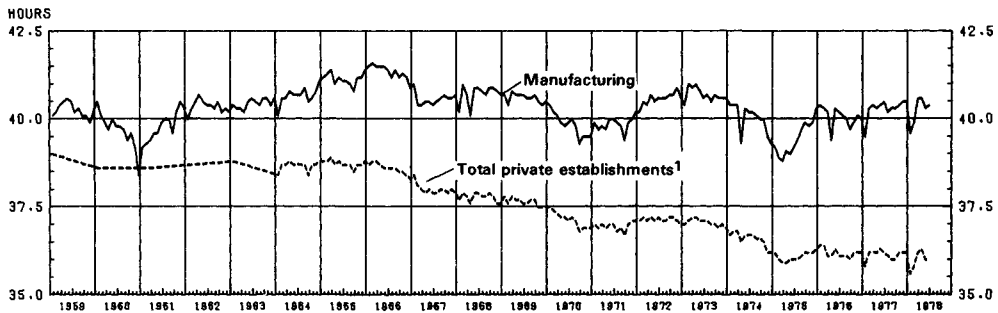
### Chart 13. Duration of unemployment

(Seasonally adjusted)

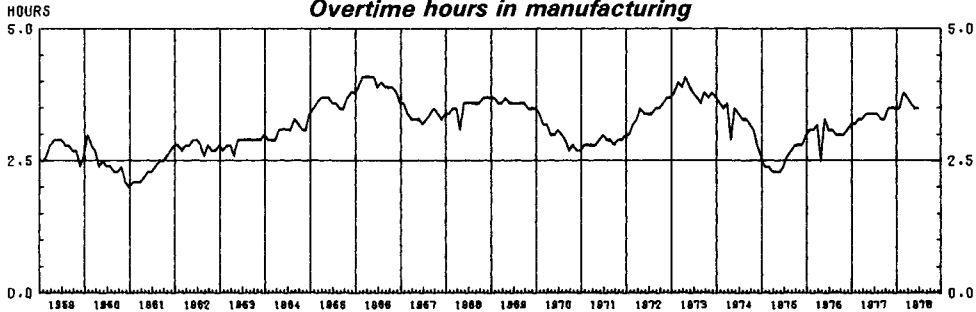


SOURCE: Table A-37.

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



**Overtime hours in manufacturing**

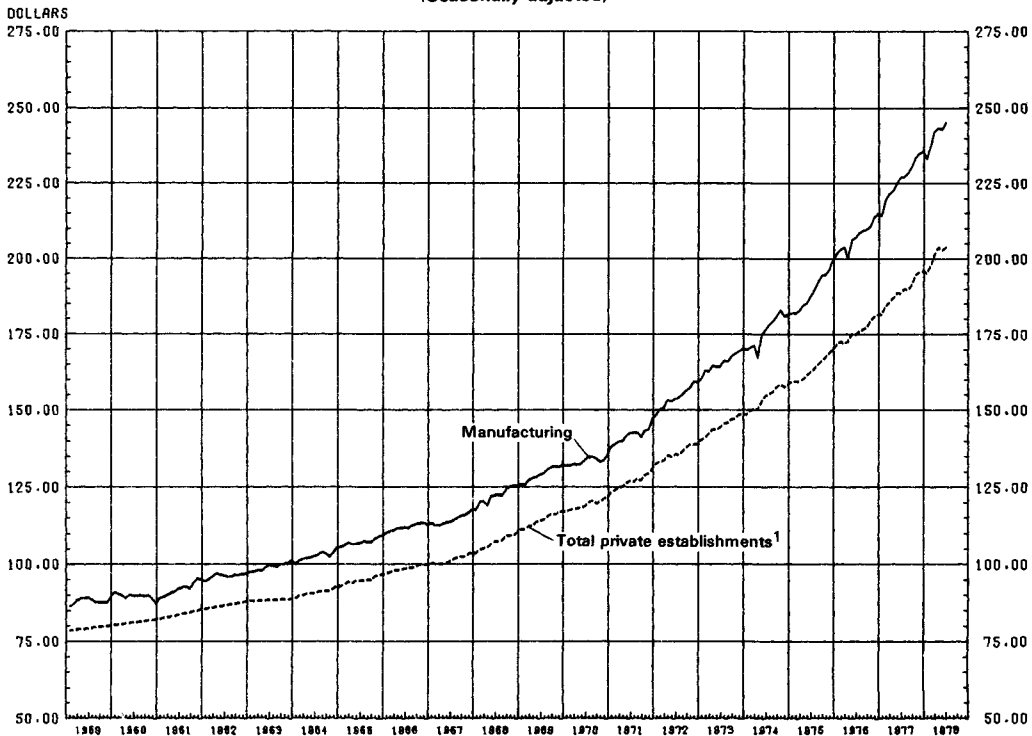


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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

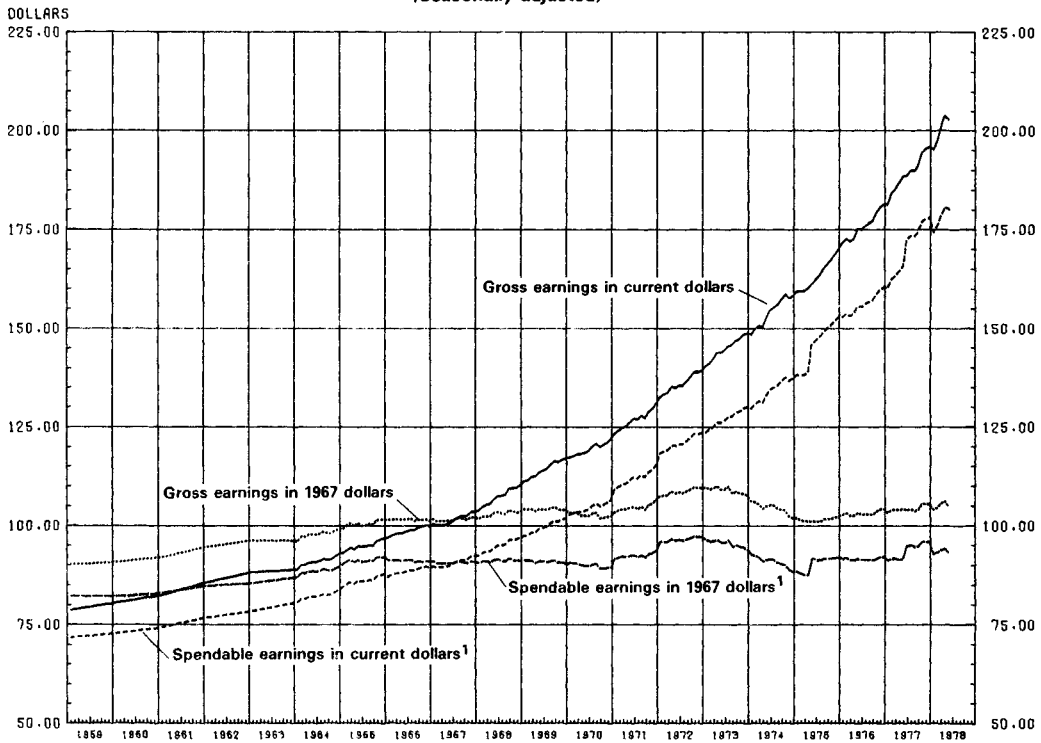


¹Annual averages prior to 1964.

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)

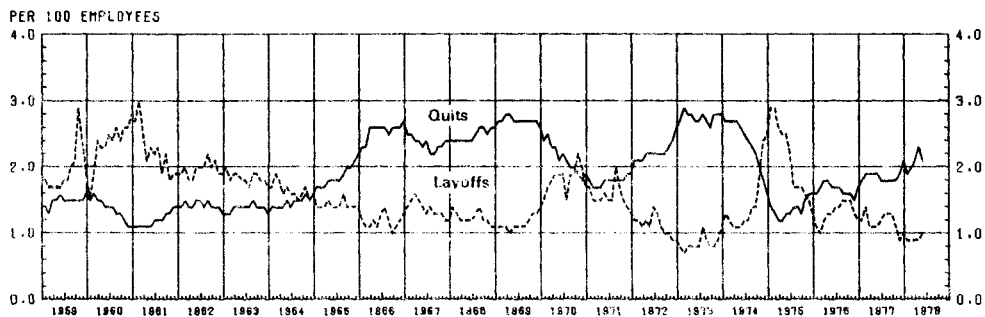
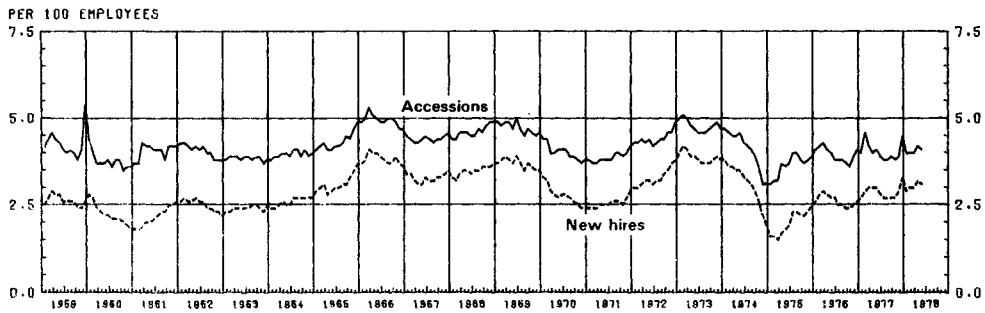


<sup>1</sup> Married worker with three dependents.

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
<b>TOTAL</b>	<b>Annual averages</b>									
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962.....	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 <sup>1</sup> .....	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 <sup>1</sup> .....	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
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1977:										
June.....	158,456	99,681	62.9	97,552	90,648	3,330	87,318	6,904	7.1	58,775
July.....	158,682	99,442	62.7	97,307	90,588	3,206	87,382	6,719	6.9	59,241
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 <sup>1</sup> .....	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

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

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

**HOUSEHOLD DATA  
HISTORICAL**

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

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force					Not in labor force	
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number		Percent of labor force
<b>MALES</b>										
<b>Annual averages</b>										
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 <sup>1</sup> .....	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 <sup>1</sup> .....	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
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1977:										
June.....	75,932	59,563	78.4	57,549	54,006	2,693	51,313	3,543	6.2	16,370
July.....	76,041	59,418	78.1	57,399	53,901	2,613	51,288	3,498	6.1	16,623
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 <sup>1</sup> .....	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
<b>FEMALES</b>										
<b>Annual averages</b>										
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 <sup>1</sup> .....	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 <sup>1</sup> .....	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
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1977:										
June.....	82,524	40,119	48.6	40,003	36,642	637	36,005	3,361	8.4	42,405
July.....	82,642	40,024	48.4	39,908	36,687	593	36,094	3,221	8.1	42,618
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 <sup>1</sup> .....	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

<sup>1</sup> See footnote 1, table A-1.

<sup>2</sup> 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	June 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					
<b>MALES</b>											
16 years and over .....	61,952	80.4	59,979	56,978	3,001	5.0	15,150	343	1,746	1,777	11,283
16 to 21 years .....	10,153	79.5	9,480	8,160	1,320	13.9	2,612	26	1,288	32	1,265
16 to 19 years .....	6,345	74.8	6,048	5,071	977	16.2	2,134	16	1,100	11	1,006
16 to 17 years .....	2,753	65.0	2,735	2,186	549	20.1	1,486	16	769	2	700
18 to 19 years .....	3,592	84.7	3,313	2,885	428	12.9	648	1	331	9	307
20 to 64 years .....	53,610	90.5	51,935	49,992	1,942	3.7	5,637	141	644	1,285	3,568
20 to 24 years .....	9,228	91.2	8,485	7,770	715	8.4	889	14	388	48	440
25 to 54 years .....	37,280	94.4	36,350	35,290	1,059	2.9	2,211	75	253	686	1,196
25 to 29 years .....	8,421	95.2	8,052	7,723	329	4.1	422	2	146	33	241
30 to 34 years .....	7,465	96.1	7,222	7,014	208	2.9	301	10	49	84	157
35 to 39 years .....	6,071	96.5	5,879	5,721	158	2.7	222	--	19	74	129
40 to 44 years .....	5,190	95.1	5,101	4,973	128	2.5	270	23	15	115	117
45 to 49 years .....	5,088	92.6	5,056	4,940	117	2.3	404	15	12	175	202
50 to 54 years .....	5,046	89.5	5,039	4,919	120	2.4	592	24	13	205	350
55 to 64 years .....	7,101	73.7	7,100	6,932	168	2.4	2,537	52	3	551	1,932
55 to 59 years .....	4,422	83.6	4,420	4,308	113	2.6	869	22	3	274	571
60 to 64 years .....	2,679	61.6	2,679	2,624	55	2.1	1,668	30	--	277	1,360
65 years and over .....	1,996	21.3	1,996	1,915	82	4.1	7,379	186	2	482	6,709
65 to 69 years .....	1,143	30.7	1,143	1,089	53	4.6	2,579	50	--	170	2,359
70 years and over .....	854	15.1	854	825	29	3.4	4,800	136	2	311	4,351
<b>White</b>											
16 years and over .....	55,114	81.0	53,522	51,238	2,284	4.3	12,906	280	1,333	1,443	9,851
16 to 21 years .....	8,946	82.3	8,413	7,445	968	11.5	1,926	18	951	18	939
16 to 19 years .....	5,599	77.8	5,362	4,647	715	13.3	1,599	11	808	9	772
16 to 17 years .....	2,451	68.4	2,436	2,024	412	16.9	1,132	12	570	2	549
18 to 19 years .....	3,148	87.1	2,927	2,623	303	10.4	467	--	238	7	223
20 to 64 years .....	47,731	91.1	46,376	44,876	1,500	3.2	4,643	116	523	1,042	2,962
20 to 24 years .....	8,088	92.7	7,506	6,985	521	6.9	636	9	299	31	298
25 to 54 years .....	33,189	95.0	32,418	31,591	826	2.5	1,736	58	224	551	902
25 to 34 years .....	14,064	96.2	13,564	13,147	417	3.1	554	12	170	95	277
35 to 44 years .....	10,016	96.3	9,779	9,562	217	2.2	384	14	30	148	192
45 to 54 years .....	9,109	91.9	9,075	8,882	193	2.1	798	32	23	309	434
55 to 64 years .....	6,454	74.0	6,452	6,301	152	2.4	2,271	48	--	460	1,762
55 to 59 years .....	4,018	84.2	4,017	3,915	102	2.5	754	22	--	221	511
60 to 64 years .....	2,436	61.6	2,435	2,385	50	2.1	1,517	26	--	240	1,251
65 years and over .....	1,784	21.1	1,784	1,715	69	3.9	6,664	153	2	392	6,117
<b>Black and other</b>											
16 years and over .....	6,838	75.3	6,456	5,740	717	11.1	2,244	63	413	335	1,433
16 to 21 years .....	1,207	63.8	1,067	714	353	33.0	686	8	337	14	327
16 to 19 years .....	747	58.3	686	424	262	38.2	535	5	293	2	235
16 to 17 years .....	302	46.1	300	163	137	45.6	354	4	199	--	151
18 to 19 years .....	445	71.1	386	261	125	32.3	181	2	93	2	84
20 to 64 years .....	5,879	85.6	5,558	5,115	443	8.0	994	25	120	242	605
20 to 24 years .....	1,140	81.8	979	785	194	19.8	253	5	89	17	142
25 to 54 years .....	4,092	89.6	3,932	3,699	233	5.9	474	16	30	135	294
25 to 34 years .....	1,822	91.5	1,710	1,590	120	7.0	168	--	25	23	121
35 to 44 years .....	1,245	92.0	1,201	1,132	69	5.7	108	9	3	40	55
45 to 54 years .....	1,025	83.8	1,021	977	44	4.3	198	7	1	72	118
55 to 64 years .....	647	70.9	647	631	16	2.5	266	4	2	91	169
55 to 59 years .....	403	77.7	403	392	11	2.8	116	--	2	53	60
60 to 64 years .....	244	61.8	244	239	5	2.0	151	4	--	38	109
65 years and over .....	213	22.9	213	200	12	5.9	715	33	--	90	593

# HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	June 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					
<b>FEMALES</b>											
16 years and over .....	42,325	50.5	42,200	38,875	3,325	7.9	41,502	33,115	1,796	993	5,598
16 to 21 years .....	8,168	65.3	8,118	6,658	1,460	18.0	4,337	1,595	1,386	26	1,330
16 to 19 years .....	5,162	62.2	5,142	4,082	1,060	20.6	3,137	849	1,188	16	1,085
16 to 17 years .....	2,206	53.7	2,205	1,658	548	24.8	1,899	302	840	5	752
18 to 19 years .....	2,956	70.5	2,937	2,425	512	17.4	1,238	546	348	10	333
20 to 64 years .....	36,004	57.9	35,899	33,683	2,217	6.2	26,145	22,707	607	424	2,408
20 to 24 years .....	7,144	70.7	7,079	6,293	786	11.1	2,960	2,188	327	20	425
25 to 54 years .....	24,470	59.3	24,430	23,122	1,308	5.4	16,798	15,013	272	229	1,285
25 to 29 years .....	5,680	63.0	5,653	5,254	399	7.1	3,336	2,918	132	29	257
30 to 34 years .....	4,615	57.9	4,608	4,343	265	5.8	3,354	3,045	58	25	226
35 to 39 years .....	3,946	59.6	3,943	3,764	179	4.5	2,676	2,444	30	29	174
40 to 44 years .....	3,624	62.8	3,622	3,440	183	5.0	2,149	1,893	28	40	188
45 to 49 years .....	3,375	58.2	3,374	3,245	130	3.8	2,422	2,166	16	42	198
50 to 54 years .....	3,230	53.0	3,230	3,077	153	4.7	2,861	2,548	8	64	241
55 to 64 years .....	4,389	40.7	4,389	4,268	122	2.8	6,387	5,506	8	175	699
55 to 59 years .....	2,804	48.2	2,804	2,724	80	2.8	3,015	2,639	4	88	284
60 to 64 years .....	1,586	32.0	1,586	1,544	42	2.6	3,372	2,867	4	87	415
65 years and over .....	1,158	8.7	1,158	1,110	48	4.2	12,219	9,559	1	554	2,105
65 to 69 years .....	716	15.3	716	675	42	5.8	3,974	3,254	--	103	619
70 years and over .....	442	5.1	442	436	7	1.5	8,245	6,305	3	451	1,486
<b>White</b>											
16 years and over .....	36,495	49.9	36,395	33,960	2,435	6.7	36,680	29,665	1,362	796	4,857
16 to 21 years .....	7,134	67.6	7,094	6,054	1,040	14.7	3,425	1,277	1,056	21	1,070
16 to 19 years .....	4,528	64.8	4,512	3,755	757	16.8	2,464	665	908	15	876
16 to 17 years .....	1,952	56.6	1,951	1,544	407	20.9	1,498	233	650	6	609
18 to 19 years .....	2,576	72.7	2,561	2,211	350	13.7	967	433	259	9	266
20 to 64 years .....	30,925	57.2	30,842	29,205	1,637	5.3	23,121	20,241	452	327	2,102
20 to 24 years .....	6,148	71.7	6,096	5,546	551	9.0	2,425	1,822	242	14	347
25 to 54 years .....	20,867	58.3	20,836	19,846	990	4.8	14,908	13,419	205	167	1,119
25 to 34 years .....	8,632	59.1	8,605	8,126	479	5.6	5,963	5,365	139	45	414
35 to 44 years .....	6,449	60.2	6,446	6,170	277	4.3	4,271	3,845	49	48	328
45 to 54 years .....	5,785	55.3	5,784	5,550	235	4.1	4,673	4,208	16	73	376
55 to 64 years .....	3,910	40.3	3,910	3,813	96	2.5	5,788	5,001	5	146	636
55 to 59 years .....	2,495	47.8	2,495	2,432	63	2.5	2,721	2,387	1	73	259
60 to 64 years .....	1,414	31.6	1,414	1,381	33	2.4	3,067	2,614	4	73	376
65 years and over .....	1,041	8.6	1,041	999	42	4.0	11,094	8,758	2	454	1,879
<b>Black and other</b>											
16 years and over .....	5,830	54.7	5,805	4,915	890	15.3	4,822	3,450	434	197	742
16 to 21 years .....	1,034	53.1	1,025	605	420	41.0	912	318	330	5	259
16 to 19 years .....	634	48.5	631	327	304	48.1	673	183	280	1	209
16 to 17 years .....	254	38.8	254	113	141	55.5	402	70	190	--	142
18 to 19 years .....	380	58.3	376	214	163	43.2	272	114	90	1	67
20 to 64 years .....	5,079	62.7	5,057	4,477	580	11.5	3,024	2,466	154	96	307
20 to 24 years .....	996	65.1	982	747	235	24.0	534	366	85	6	78
25 to 54 years .....	3,603	65.6	3,595	3,276	318	8.8	1,891	1,594	68	62	166
25 to 34 years .....	1,663	69.6	1,656	1,470	186	11.2	727	597	51	9	70
35 to 44 years .....	1,120	66.9	1,119	1,034	85	7.6	555	491	9	21	34
45 to 54 years .....	820	57.4	820	772	48	5.8	610	506	8	33	63
55 to 64 years .....	480	44.5	480	454	25	5.3	599	505	2	28	63
55 to 59 years .....	308	51.3	308	292	17	5.4	293	252	2	15	25
60 to 64 years .....	171	36.0	171	163	9	5.0	305	254	--	14	38
65 years and over .....	117	9.4	117	111	6	5.5	1,125	801	--	100	225



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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
<b>MALES</b>								
16 years and over	60,905	61,952	80.2	80.4	58,892	59,979	79.7	79.8
16 to 19 years	6,333	6,345	74.5	74.8	6,007	6,048	73.5	73.9
16 to 17 years	2,724	2,753	64.2	65.0	2,696	2,735	63.9	64.8
18 to 19 years	3,609	3,592	84.8	84.7	3,311	3,313	83.7	83.6
20 to 24 years	9,026	9,228	90.8	91.2	8,280	8,485	90.1	90.5
25 to 54 years	36,675	37,280	94.5	94.4	35,735	36,350	94.4	94.3
25 to 34 years	15,557	15,886	95.9	95.6	14,941	15,274	95.8	95.5
35 to 44 years	10,862	11,261	95.7	95.8	10,576	10,980	95.6	95.7
45 to 54 years	10,257	10,134	91.4	91.1	10,218	10,096	91.4	91.0
55 to 64 years	7,042	7,101	74.0	73.7	7,041	7,100	74.0	73.7
55 to 59 years	4,338	4,422	83.5	83.6	4,337	4,420	83.4	83.6
60 to 64 years	2,704	2,679	62.6	61.6	2,704	2,679	62.6	61.6
65 years and over	1,829	1,996	19.9	21.3	1,829	1,996	19.9	21.3
<b>White</b>								
16 years and over	54,285	55,114	80.9	81.0	52,631	53,522	80.4	80.6
16 to 19 years	5,603	5,599	77.4	77.8	5,335	5,362	76.5	77.0
16 to 17 years	2,407	2,451	66.9	68.4	2,383	2,436	66.7	68.3
18 to 19 years	3,196	3,148	87.8	87.1	2,951	2,927	87.0	86.2
20 to 24 years	7,911	8,088	92.1	92.7	7,317	7,506	91.5	92.2
25 to 54 years	32,662	33,189	95.1	95.0	31,873	32,418	94.9	94.9
25 to 34 years	13,790	14,064	96.4	96.2	13,278	13,564	96.2	96.1
35 to 44 years	9,641	10,016	96.1	96.3	9,399	9,779	96.0	96.2
45 to 54 years	9,230	9,109	92.2	91.9	9,196	9,075	92.1	91.9
55 to 64 years	6,450	6,454	74.8	74.0	6,449	6,452	74.8	74.0
55 to 59 years	3,963	4,018	84.3	84.2	3,961	4,017	84.3	84.2
60 to 64 years	2,488	2,436	63.4	61.6	2,488	2,435	63.4	61.6
65 years and over	1,659	1,784	20.0	21.1	1,659	1,784	20.0	21.1
<b>Black and other</b>								
16 years and over	6,620	6,838	74.9	75.3	6,261	6,456	73.9	74.2
16 to 19 years	730	747	57.7	58.3	673	686	55.7	56.2
16 to 17 years	317	302	49.0	46.1	313	300	48.6	45.9
18 to 19 years	413	445	67.0	71.1	360	386	63.8	68.1
20 to 24 years	1,115	1,140	83.0	81.8	963	979	80.9	79.5
25 to 54 years	4,014	4,092	90.6	89.6	3,863	3,932	90.2	89.2
25 to 34 years	1,766	1,822	92.6	91.5	1,663	1,710	92.2	91.0
35 to 44 years	1,220	1,245	92.6	92.0	1,177	1,201	92.4	91.7
45 to 54 years	1,027	1,025	85.0	83.8	1,023	1,021	84.9	83.8
55 to 64 years	592	647	66.3	70.9	592	647	66.3	70.9
55 to 59 years	375	403	75.3	77.7	375	403	75.3	77.7
60 to 64 years	217	244	55.1	61.8	217	244	55.1	61.8
65 years and over	170	213	18.9	22.9	170	213	18.9	22.9

# HOUSEHOLD DATA

## 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	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
<b>FEMALES</b>								
16 years and over	40,358	42,325	48.9	50.5	40,243	42,200	48.8	50.4
16 to 19 years	4,998	5,162	60.0	62.2	4,980	5,142	59.9	62.1
16 to 17 years	2,089	2,206	50.7	53.7	2,088	2,205	50.7	53.7
18 to 19 years	2,909	2,956	69.1	70.5	2,892	2,937	69.0	70.3
20 to 24 years	6,827	7,144	68.8	70.7	6,764	7,079	68.6	70.5
25 to 54 years	23,240	24,470	57.3	59.3	23,206	24,430	57.2	59.3
25 to 34 years	9,627	10,295	58.1	60.6	9,597	10,261	58.0	60.5
35 to 44 years	7,024	7,569	58.6	61.1	7,020	7,566	58.6	61.1
45 to 54 years	6,590	6,605	54.9	55.6	6,589	6,604	54.8	55.6
55 to 64 years	4,264	4,389	40.1	40.7	4,264	4,389	40.1	40.7
55 to 59 years	2,685	2,804	47.0	48.2	2,685	2,804	47.0	48.2
60 to 64 years	1,579	1,586	32.0	32.0	1,579	1,586	32.0	32.0
65 years and over	1,029	1,158	7.9	8.7	1,029	1,158	7.9	8.7
<b>White</b>								
16 years and over	34,993	36,495	48.5	49.9	34,899	36,395	48.4	49.8
16 to 19 years	4,423	4,528	62.9	64.8	4,407	4,512	62.8	64.7
16 to 17 years	1,848	1,952	53.3	56.6	1,847	1,951	53.3	56.6
18 to 19 years	2,575	2,576	72.2	72.7	2,560	2,561	72.1	72.6
20 to 24 years	5,894	6,148	69.8	71.7	5,844	6,096	69.7	71.5
25 to 54 years	19,936	20,867	56.6	58.3	19,909	20,836	56.5	58.3
25 to 34 years	8,160	8,632	57.1	59.1	8,136	8,605	57.0	59.1
35 to 44 years	6,003	6,449	58.0	60.2	6,001	6,446	58.0	60.2
45 to 54 years	5,773	5,785	54.5	55.3	5,772	5,784	54.5	55.3
55 to 64 years	3,818	3,910	39.8	40.3	3,818	3,910	39.8	40.3
55 to 59 years	2,412	2,495	47.0	47.8	2,412	2,495	47.0	47.8
60 to 64 years	1,407	1,414	31.6	31.6	1,407	1,414	31.6	31.6
65 years and over	921	1,041	7.8	8.6	921	1,041	7.8	8.6
<b>Black and other</b>								
16 years and over	5,366	5,830	51.8	54.7	5,344	5,805	51.7	54.6
16 to 19 years	576	634	44.6	48.5	573	631	44.5	48.4
16 to 17 years	241	254	37.1	38.8	241	254	37.1	38.8
18 to 19 years	335	380	52.2	58.3	332	376	52.0	58.1
20 to 24 years	933	996	63.0	65.1	920	982	62.7	64.8
25 to 54 years	3,304	3,603	62.0	65.6	3,297	3,595	61.9	65.5
25 to 34 years	1,467	1,663	64.1	69.6	1,461	1,656	64.0	69.5
35 to 44 years	1,020	1,120	62.6	66.9	1,020	1,119	62.6	66.9
45 to 54 years	817	820	57.8	57.4	816	820	57.8	57.3
55 to 64 years	446	480	42.4	44.5	445	480	42.4	44.5
55 to 59 years	273	308	47.4	51.3	273	308	47.4	51.3
60 to 64 years	172	171	36.3	36.0	172	171	36.3	36.0
65 years and over	108	117	9.0	9.4	108	117	9.0	9.4

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

[Numbers in thousands]

Sex and age	June 1978						Not in labor force	
	Civilian labor force					Percent of labor force		
	Total	Employed			Unemployed			
		Total	Agri-culture	Nonagri-cultural industries	Number			
<b>Total</b>								
16 years and over .....	10,486	9,029	274	8,755	1,457	13.9	6,127	
16 to 19 years .....	1,144	624	34	590	520	45.5	1,075	
16 to 17 years .....	478	229	16	213	249	52.1	673	
18 to 19 years .....	666	395	19	377	271	40.7	401	
20 to 24 years .....	1,693	1,298	18	1,280	395	23.3	670	
25 to 54 years .....	6,371	5,882	124	5,758	491	7.7	1,966	
25 to 34 years .....	2,843	2,565	50	2,515	278	9.8	690	
35 to 44 years .....	1,976	1,836	29	1,807	140	7.1	565	
45 to 54 years .....	1,552	1,480	45	1,435	72	4.7	711	
55 to 64 years .....	988	951	52	899	37	3.8	783	
55 to 59 years .....	624	597	23	574	26	4.2	363	
60 to 64 years .....	364	353	29	325	11	2.9	420	
65 years and over .....	290	276	46	229	14	4.9	1,633	
<b>Males</b>								
16 years and over .....	5,466	4,819	231	4,588	647	11.8	1,984	
16 to 19 years .....	595	356	28	328	239	40.2	470	
16 to 17 years .....	259	138	14	125	120	46.3	312	
18 to 19 years .....	336	218	16	203	119	35.4	157	
20 to 24 years .....	840	657	15	643	182	21.7	213	
25 to 54 years .....	3,290	3,089	101	2,988	203	6.2	435	
25 to 34 years .....	1,413	1,305	41	1,264	108	7.6	148	
35 to 44 years .....	1,021	959	21	938	62	6.1	98	
45 to 54 years .....	856	824	39	785	32	3.7	189	
55 to 64 years .....	559	545	45	500	14	2.5	247	
55 to 59 years .....	348	337	22	315	10	2.9	105	
60 to 64 years .....	212	207	23	185	4	1.9	143	
65 years and over .....	182	174	42	131	8	4.4	620	
<b>Females</b>								
16 years and over .....	5,020	4,210	43	4,167	810	16.1	4,143	
16 to 19 years .....	549	268	6	262	281	51.2	605	
16 to 17 years .....	219	91	2	88	129	58.7	361	
18 to 19 years .....	330	177	3	174	152	46.2	244	
20 to 24 years .....	853	641	3	637	213	24.9	457	
25 to 54 years .....	3,081	2,793	23	2,770	288	9.3	1,531	
25 to 34 years .....	1,430	1,260	9	1,251	170	11.9	542	
35 to 44 years .....	955	877	8	869	78	8.2	467	
45 to 54 years .....	696	656	6	650	40	5.7	522	
55 to 64 years .....	429	406	7	399	23	5.3	536	
55 to 59 years .....	276	260	1	259	16	5.8	258	
60 to 64 years .....	152	146	6	140	7	4.3	277	
65 years and over .....	108	102	4	98	6	6.0	1,013	

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

# HOUSEHOLD DATA

## 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	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
<b>TOTAL</b>								
Total noninstitutional population	158,456	160,928	67,431	68,623	74,198	75,527	16,827	16,779
Total labor force	101,264	104,276	54,573	55,606	35,360	37,162	11,331	11,508
Percent of population	63.9	64.8	80.9	81.0	47.7	49.2	67.3	68.6
Civilian labor force	99,135	102,178	52,885	53,931	35,263	37,057	10,987	11,190
Employed	91,682	95,852	50,308	51,907	32,755	34,793	8,620	9,153
Agriculture	3,820	3,983	2,536	2,617	690	761	594	605
Nonagricultural industries	87,862	91,869	47,772	49,290	32,064	34,031	8,025	8,548
Unemployed	7,453	6,326	2,577	2,024	2,508	2,265	2,367	2,037
Percent of labor force	7.5	6.2	4.9	3.8	7.1	6.1	21.5	18.2
Not in labor force	57,192	56,651	12,858	13,016	38,838	38,364	5,495	5,271
<b>White</b>								
Total noninstitutional population	139,270	141,194	59,861	60,822	65,137	66,182	14,272	14,190
Total labor force	89,278	91,608	48,682	49,515	30,570	31,966	10,026	10,127
Percent of population	64.1	64.9	81.3	81.4	46.9	48.3	70.3	71.4
Civilian labor force	87,530	89,917	47,297	48,160	30,492	31,883	9,742	9,874
Employed	81,749	85,198	45,260	46,591	28,548	30,204	7,941	8,402
Agriculture	3,543	3,618	2,350	2,357	635	701	558	560
Nonagricultural industries	78,206	81,580	42,910	44,235	27,913	29,503	7,383	7,842
Unemployed	5,781	4,719	2,037	1,569	1,944	1,679	1,800	1,472
Percent of labor force	6.6	5.2	4.3	3.3	6.4	5.3	18.5	14.9
Not in labor force	49,992	49,586	11,179	11,307	34,567	34,215	4,246	4,063
<b>Black and other</b>								
Total noninstitutional population	19,186	19,734	7,570	7,800	9,061	9,345	2,555	2,589
Total labor force	11,986	12,668	5,891	6,092	4,790	5,196	1,305	1,381
Percent of population	62.5	64.2	77.8	78.1	52.9	55.6	51.1	53.3
Civilian labor force	11,605	12,261	5,588	5,771	4,771	5,174	1,246	1,316
Employed	9,933	10,655	5,048	5,315	4,207	4,588	678	751
Agriculture	277	366	186	260	55	60	36	46
Nonagricultural industries	9,656	10,289	4,862	5,056	4,151	4,528	642	706
Unemployed	1,671	1,606	540	455	564	586	567	565
Percent of labor force	14.4	13.1	9.7	7.9	11.8	11.3	45.5	42.9
Not in labor force	7,200	7,066	1,679	1,709	4,271	4,149	1,250	1,208

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

(Numbers in thousands)

Employment status	June 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,270	12,765	12,505	21,431	10,872	10,559	3,839	1,893	1,946
Total labor force	18,322	10,153	8,168	16,081	8,946	7,134	2,241	1,207	1,034
Percent of population	72.5	79.5	65.3	75.0	82.3	67.6	58.4	63.8	53.1
Civilian labor force	17,599	9,480	8,118	15,507	8,413	7,094	2,092	1,067	1,025
Employed	14,818	8,160	6,658	13,499	7,445	6,054	1,319	714	605
Agriculture	799	641	158	743	594	149	56	46	9
Nonagricultural industries	14,019	7,519	6,500	12,756	6,851	5,905	1,263	668	595
Unemployed	2,781	1,320	1,460	2,008	968	1,040	773	353	420
Looking for full-time work	2,126	1,061	1,065	1,507	775	732	620	287	333
Looking for part-time work	654	259	395	501	193	308	153	66	87
Percent of labor force	15.8	13.9	18.0	12.9	11.5	14.7	36.9	33.0	41.0
Not in labor force	6,949	2,612	4,337	5,351	1,926	3,425	1,598	686	912
<b>MAJOR ACTIVITY: GOING TO SCHOOL</b>									
Civilian labor force	1,380	705	675	1,168	598	570	212	108	104
Employed	1,015	533	483	919	479	440	96	54	42
Agriculture	46	34	12	40	30	10	6	4	2
Nonagricultural industries	969	499	470	879	449	430	90	49	40
Unemployed	365	173	192	248	119	130	116	54	62
Looking for full-time work	182	89	93	118	56	61	65	33	31
Looking for part-time work	183	84	99	131	63	68	52	21	31
Percent of labor force	26.4	24.5	28.5	21.3	19.8	22.8	54.8	50.3	59.5
Not in labor force	2,675	1,288	1,386	2,007	951	1,056	667	337	330
<b>MAJOR ACTIVITY: OTHER</b>									
Civilian labor force	16,219	8,775	7,444	14,339	7,816	6,523	1,880	959	921
Employed	13,803	7,627	6,176	12,580	6,966	5,613	1,223	661	563
Agriculture	753	606	146	703	564	139	50	42	8
Nonagricultural industries	13,050	7,021	6,030	11,877	6,402	5,475	1,174	619	555
Unemployed	2,416	1,148	1,268	1,759	849	910	656	298	358
Looking for full-time work	1,944	972	972	1,389	719	671	555	254	301
Looking for part-time work	471	175	296	370	131	239	101	45	57
Percent of labor force	14.9	13.1	17.0	12.3	10.9	14.0	34.9	31.1	38.9
Not in labor force	4,274	1,324	2,950	3,343	975	2,368	931	349	582

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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	June 1978								
	Total	Full-time labor force				Part-time labor force			
		Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time <sup>1</sup>	Unemployed (looking for part-time work)	
		Full-time schedules <sup>1</sup>	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
<b>TOTAL</b>									
Both sexes, 16 years and over .....	89,015	79,589	4,223	5,202	5.8	13,163	12,040	1,123	8.5
16 to 21 years .....	13,630	9,776	1,728	2,126	15.6	3,969	3,315	654	16.5
16 to 19 years .....	7,972	5,158	1,353	1,462	18.3	3,218	2,643	575	17.9
16 to 17 years .....	2,881	1,472	732	678	23.5	2,059	1,640	419	20.3
18 to 19 years .....	5,091	3,686	621	784	15.4	1,159	1,002	156	13.5
20 years and over .....	81,043	74,432	2,871	3,740	4.6	9,945	9,397	548	5.5
20 to 24 years .....	13,959	11,854	773	1,331	9.5	1,605	1,435	170	10.6
25 years and over .....	67,084	62,577	2,097	2,409	3.6	8,340	1,962	379	4.5
25 to 54 years .....	55,403	51,626	1,678	2,100	3.8	5,377	5,108	269	5.0
55 years and over .....	11,681	10,951	419	310	2.7	2,963	2,853	110	3.7
<b>Males, 16 years and over .....</b>	<b>56,050</b>	<b>51,423</b>	<b>2,011</b>	<b>2,616</b>	<b>4.7</b>	<b>3,929</b>	<b>3,544</b>	<b>385</b>	<b>9.8</b>
16 to 21 years .....	7,747	5,792	893	1,061	13.7	1,733	1,474	259	14.9
16 to 19 years .....	4,596	3,141	714	741	16.1	1,452	1,216	236	16.2
16 to 17 years .....	1,553	786	387	354	23.5	1,059	840	219	20.3
18 to 19 years .....	3,043	2,355	327	387	12.7	700	626	74	6.3
20 years and over .....	51,453	48,282	1,297	1,874	3.6	2,477	2,328	149	6.0
20 to 24 years .....	7,966	6,913	382	670	8.4	519	475	45	8.6
25 years and over .....	43,488	41,369	914	1,205	2.8	1,958	1,853	105	5.4
25 to 54 years .....	35,682	33,962	705	1,015	2.8	667	622	44	6.6
55 years and over .....	7,806	7,407	209	189	2.4	1,291	1,230	61	4.7
<b>Females, 16 years and over .....</b>	<b>32,965</b>	<b>28,166</b>	<b>2,213</b>	<b>2,587</b>	<b>7.8</b>	<b>9,234</b>	<b>8,496</b>	<b>738</b>	<b>8.0</b>
16 to 21 years .....	5,883	3,983	835	1,065	18.1	2,236	1,841	395	17.7
16 to 19 years .....	3,376	2,016	639	721	21.3	1,766	1,427	340	19.2
16 to 17 years .....	1,128	587	288	327	29.0	600	491	109	18.1
18 to 19 years .....	2,248	1,429	351	394	17.3	1,166	1,002	164	14.1
20 years and over .....	29,589	26,149	1,574	1,866	6.3	7,468	7,069	399	5.3
20 to 24 years .....	5,993	4,941	391	661	11.0	1,086	960	126	11.5
25 years and over .....	23,596	21,209	1,183	1,206	5.1	6,382	6,110	273	4.3
25 to 54 years .....	19,720	17,664	973	1,085	5.5	4,710	4,486	224	4.8
55 years and over .....	3,875	3,545	210	121	3.1	1,672	1,624	49	2.9
<b>White</b>									
<b>Males, 16 years and over .....</b>	<b>50,042</b>	<b>46,419</b>	<b>1,646</b>	<b>1,977</b>	<b>4.0</b>	<b>3,480</b>	<b>3,173</b>	<b>307</b>	<b>8.8</b>
16 to 21 years .....	6,886	5,337	775	775	11.2	1,527	1,334	193	12.6
16 to 19 years .....	4,094	2,932	620	542	13.2	1,268	1,095	173	13.7
16 to 17 years .....	1,353	686	327	354	23.5	800	640	160	15.6
18 to 19 years .....	2,741	1,946	293	388	14.2	1,168	1,002	166	14.1
20 years and over .....	45,948	43,487	1,026	1,435	3.1	2,212	2,078	134	6.0
20 to 24 years .....	7,032	6,225	325	482	6.9	474	435	39	8.2
25 years and over .....	38,916	37,262	700	952	2.4	1,738	1,643	95	5.5
25 to 54 years .....	31,845	30,521	540	785	2.5	573	531	42	7.3
55 years and over .....	7,071	6,742	161	168	2.4	1,165	1,112	53	4.5
<b>Females, 16 years and over .....</b>	<b>28,086</b>	<b>24,428</b>	<b>1,823</b>	<b>1,834</b>	<b>6.5</b>	<b>8,309</b>	<b>7,708</b>	<b>601</b>	<b>7.2</b>
16 to 21 years .....	5,104	3,628	743	732	14.3	1,990	1,682	308	15.5
16 to 19 years .....	2,992	1,857	572	492	16.8	1,590	1,325	264	16.6
16 to 17 years .....	1,000	500	236	236	23.0	500	391	109	21.0
18 to 19 years .....	1,992	1,357	236	256	12.8	1,090	934	156	14.1
20 years and over .....	25,164	22,571	1,251	1,342	5.3	6,719	6,383	337	5.0
20 to 24 years .....	5,115	4,370	330	456	8.8	941	846	95	10.1
25 years and over .....	20,008	18,201	920	886	4.4	5,778	5,537	242	4.2
25 to 54 years .....	16,504	14,954	762	787	4.8	4,331	4,130	203	4.7
55 years and over .....	3,504	3,247	158	99	2.8	1,447	1,407	40	2.8
<b>Black and other</b>									
<b>Males, 16 years and over .....</b>	<b>6,007</b>	<b>5,004</b>	<b>365</b>	<b>639</b>	<b>10.6</b>	<b>449</b>	<b>371</b>	<b>78</b>	<b>17.4</b>
16 to 21 years .....	860	456	118	287	33.3	207	141	66	31.9
16 to 19 years .....	502	209	94	199	39.7	184	121	62	34.0
16 to 17 years .....	167	81	39	74	43.1	51	31	20	38.0
18 to 19 years .....	335	128	55	125	37.3	133	90	43	32.3
20 years and over .....	5,505	4,795	271	439	8.0	265	250	16	5.9
20 to 24 years .....	934	688	57	188	20.2	46	40	6	(2)
25 years and over .....	4,572	4,107	214	251	5.5	219	210	10	4.6
25 to 54 years .....	3,838	3,442	166	231	6.0	93	92	2	2.2
55 years and over .....	733	665	48	21	2.9	126	118	8	6.3
<b>Females, 16 years and over .....</b>	<b>4,879</b>	<b>3,738</b>	<b>390</b>	<b>752</b>	<b>15.4</b>	<b>925</b>	<b>788</b>	<b>137</b>	<b>14.8</b>
16 to 21 years .....	779	355	91	333	42.7	246	159	87	35.5
16 to 19 years .....	454	159	67	228	50.3	177	101	75	42.6
16 to 17 years .....	155	70	30	105	64.5	51	31	20	31.7
18 to 19 years .....	300	89	37	123	40.0	126	80	46	35.7
20 years and over .....	4,425	3,579	323	524	11.8	749	686	62	8.3
20 to 24 years .....	837	571	61	205	24.5	145	114	31	21.1
25 years and over .....	3,588	3,008	261	319	8.9	604	572	32	5.3
25 to 54 years .....	3,216	2,710	210	297	9.2	379	357	22	5.8
55 years and over .....	372	298	51	22	5.9	225	215	10	4.4

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

<sup>2</sup> 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	June 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					
<b>Total, 16 years and over</b> .....	102,178	64.3	95,852	6,326	6.2	56,651	33,458	3,541	2,770	16,882
<b>Husbands</b> <sup>1</sup> .....	40,427	81.9	39,425	1,001	2.5	8,963	134	183	1,192	7,454
With employed wife .....	19,301	92.0	18,902	399	2.1	1,684	41	92	395	1,154
With unemployed wife .....	1,039	91.1	958	81	7.8	101	--	1	35	64
With wife not in labor force .....	18,587	73.4	18,140	447	2.4	6,725	69	74	694	5,888
<b>Wives</b> .....	22,124	46.6	20,985	1,140	5.2	25,315	23,030	182	245	1,859
With employed husband .....	19,860	52.3	18,903	958	4.8	18,142	16,785	151	89	1,118
With unemployed husband .....	480	51.8	399	81	16.9	447	394	11	7	35
With husband not in labor force .....	1,785	21.0	1,684	101	5.7	6,725	5,850	20	149	706
<b>Relatives in husband-wife families</b> .....	16,354	70.3	14,184	2,170	13.3	6,904	1,473	2,121	384	2,926
16-19 years .....	8,228	69.5	6,847	1,382	16.8	3,610	297	1,664	19	1,629
20-24 years .....	5,527	84.4	4,195	612	11.1	1,025	167	380	27	450
25 years and over .....	2,599	53.4	2,122	176	6.8	2,269	1,009	77	338	847
<b>Women who head families</b> .....	4,800	58.7	4,391	409	8.5	3,377	2,760	85	125	407
<b>Relatives in female-headed families</b> .....	4,417	61.8	3,608	809	18.3	2,730	793	632	272	1,033
16-19 years .....	1,671	62.0	1,199	473	28.3	1,023	127	499	5	392
20-24 years .....	1,246	75.7	1,025	220	17.7	402	114	102	32	154
25 years and over .....	1,500	53.5	1,384	116	7.7	1,305	552	31	235	487
<b>Persons not living in families</b> <sup>2</sup> .....	14,056	60.0	13,259	797	5.7	9,362	5,268	338	552	3,203

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

<sup>2</sup> 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	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
<b>Total, 16 years and over</b> .....	3,797	3,001	6.4	5.0	3,655	3,325	9.1	7.9
<b>Married, spouse present</b> .....	1,245	982	3.1	2.5	1,398	1,197	6.4	5.3
<b>Widowed, divorced, or separated</b> .....	326	231	8.0	5.1	544	537	7.4	6.8
<b>Single (never married)</b> .....	2,226	1,788	14.9	11.4	1,713	1,591	15.4	13.4
<b>White, 16 years and over</b> .....	2,975	2,284	5.7	4.3	2,807	2,435	8.0	6.7
<b>Married, spouse present</b> .....	1,034	821	2.8	2.3	1,172	983	6.0	4.9
<b>Widowed, divorced, or separated</b> .....	253	173	7.6	4.8	410	366	6.8	5.7
<b>Single (never married)</b> .....	1,688	1,290	13.0	9.5	1,225	1,087	12.9	10.9
<b>Black and other, 16 years and over</b> .....	822	717	13.1	11.1	849	890	15.9	15.3
<b>Married, spouse present</b> .....	211	161	5.8	4.6	227	214	9.6	9.0
<b>Widowed, divorced, or separated</b> .....	73	58	9.7	6.6	134	171	9.9	11.3
<b>Single (never married)</b> .....	538	498	28.6	24.1	488	505	30.0	26.4
<b>Total, 20 to 64 years of age</b> .....	2,502	1,942	4.9	3.7	2,454	2,217	7.2	6.2
<b>Married, spouse present</b> .....	1,159	889	3.0	2.3	1,305	1,104	6.2	5.1
<b>Widowed, divorced, or separated</b> .....	321	222	8.3	5.2	501	507	7.4	7.1
<b>Single (never married)</b> .....	1,022	831	11.3	8.5	649	606	10.1	8.6
<b>White, 20 to 64 years of age</b> .....	1,964	1,500	4.3	3.2	1,890	1,637	6.4	5.3
<b>Married, spouse present</b> .....	953	743	2.7	2.2	1,084	902	5.8	4.7
<b>Widowed, divorced, or separated</b> .....	248	167	7.9	4.9	369	340	6.8	5.9
<b>Single (never married)</b> .....	764	589	9.8	7.0	438	395	8.2	6.9
<b>Black and other, 20 to 64 years of age</b> .....	538	443	9.9	8.0	564	580	12.1	11.5
<b>Married, spouse present</b> .....	206	147	5.9	4.4	221	202	9.6	8.7
<b>Widowed, divorced, or separated</b> .....	73	55	10.2	6.6	132	167	10.3	11.7
<b>Single (never married)</b> .....	258	242	21.2	17.5	211	211	19.7	16.1

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
Total	7,453	6,326	7.5	6.2	6.4	5.0	9.1	7.9
White-collar workers	2,080	1,798	4.5	3.7	3.1	2.5	5.8	4.9
Professional and technical	473	395	3.5	2.8	2.5	2.0	4.8	3.8
Managers and administrators, except farm	262	189	2.7	1.8	2.1	1.4	4.6	3.2
Sales workers	325	281	5.4	4.5	3.8	3.5	7.4	5.7
Clerical workers	1,019	933	6.0	5.3	5.8	4.6	6.1	5.4
Blue-collar workers	2,477	2,102	7.3	6.0	6.6	5.2	10.5	9.7
Craft and kindred workers	627	496	4.9	3.8	4.8	3.7	6.4	5.5
Carpenters and other construction craft	307	228	7.5	5.4	7.5	5.4	(1)	(1)
All other	320	268	3.7	3.0	3.5	2.8	5.8	5.5
Operatives, except transport	1,060	938	9.2	7.8	7.9	6.1	11.1	10.1
Transport equipment operatives	204	159	5.4	4.3	5.2	3.8	9.0	11.7
Nonfarm laborers	586	508	10.2	8.7	10.1	8.5	11.2	10.7
Construction laborers	155	159	13.3	12.6	13.7	12.6	(1)	(1)
All other	431	349	9.4	7.6	9.1	7.2	11.9	10.5
Service workers	1,224	1,081	8.8	7.7	8.0	7.0	9.3	8.0
Private household	76	63	6.3	5.2	(1)	(1)	6.3	5.1
All other	1,148	1,019	9.0	7.9	8.0	7.0	9.8	8.5
Farm workers	139	89	4.1	2.6	3.8	2.2	5.5	3.9
No previous work experience	1,532	1,255	--	--	--	--	--	--
16 to 19 years	1,225	1,032	--	--	--	--	--	--
20 to 24 years	205	174	--	--	--	--	--	--
25 years and over	102	50	--	--	--	--	--	--

<sup>1</sup> 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	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
Total	100.0	100.0	7.5	6.2	6.4	5.0	9.1	7.9
Nonagricultural private wage and salary workers	65.7	64.9	6.9	5.5	6.0	4.6	8.2	6.8
Mining	.5	.4	4.2	2.9	3.3	3.1	(1)	1.6
Construction	6.9	6.5	10.5	7.9	10.4	8.0	12.5	6.0
Manufacturing	17.7	18.8	6.1	5.3	4.9	3.9	8.8	8.2
Durable goods	9.2	9.5	5.4	4.5	4.8	3.4	7.1	7.8
Lumber and wood products	.4	.9	4.0	7.3	4.2	6.6	3.0	12.6
Furniture and fixtures	.7	.7	9.9	7.0	10.1	5.0	9.4	11.3
Stone, clay, and glass products	.7	.7	6.8	6.3	7.6	5.3	3.7	11.3
Primary metal industries	.8	.7	4.1	3.5	4.2	3.1	3.9	5.8
Fabricated metal products	1.1	1.0	5.5	4.0	5.5	2.5	5.7	9.5
Machinery, except electrical equipment	1.5	1.3	4.7	3.4	4.6	2.9	5.0	5.1
Electrical equipment	1.7	1.5	5.7	4.2	4.1	1.9	8.0	7.2
Transportation equipment	1.2	1.3	4.0	3.6	3.5	3.1	6.7	5.8
Automobiles	.5	.6	3.1	3.1	2.8	2.6	4.3	5.9
Other transportation equipment	.7	.7	5.4	4.2	4.4	3.8	10.0	5.6
Instruments and related products	.4	.6	4.9	6.1	4.0	4.0	6.3	8.6
Other durable goods industries	.8	.9	9.6	7.0	6.8	4.7	13.2	10.1
Nondurable goods	8.5	9.3	7.2	6.5	5.1	5.0	10.3	8.6
Food and kindred products	2.4	2.8	9.3	8.8	6.2	7.0	16.6	13.0
Textile mill products	.8	.9	6.1	6.7	6.7	4.5	5.5	9.1
Apparel and other textile products	2.0	1.8	10.9	8.3	7.1	7.4	11.8	8.6
Paper and allied products	.5	.7	5.4	5.9	3.3	5.1	11.7	8.4
Printing and publishing	.9	.9	5.2	4.1	5.7	3.7	4.3	4.6
Chemicals and allied products	.5	.5	3.4	2.7	2.8	2.2	5.3	4.3
Rubber and plastics products	.7	.9	7.7	8.0	5.6	7.3	11.6	9.3
Other nondurable goods industries	.6	.7	7.3	6.7	3.1	3.6	12.6	10.5
Transportation and public utilities	2.8	3.1	4.2	3.7	3.7	3.0	5.7	5.7
Railroads and railway express	.2	.3	2.6	2.8	2.8	3.0	(1)	(1)
Other transportation	1.8	1.9	5.8	4.9	5.3	4.1	8.0	8.2
Communication and other public utilities	.8	.9	2.8	2.5	1.9	1.7	4.5	4.4
Wholesale and retail trade	20.3	19.3	8.2	6.4	6.7	5.0	10.0	8.1
Finance, insurance, and real estate	2.5	2.4	3.9	3.0	3.0	2.3	4.6	3.5
Service industries	15.1	14.5	7.0	5.5	6.6	4.8	7.3	5.9
Professional services	6.4	6.4	5.5	4.4	4.0	4.0	6.2	4.6
All other service industries	8.7	8.1	8.9	6.9	8.7	5.5	9.0	8.1
Agricultural wage and salary workers	2.2	1.9	9.1	6.6	8.9	5.7	9.7	10.2
All other classes of workers	11.5	13.3	3.5	3.4	2.8	2.6	4.5	4.5
No previous work experience	20.5	19.8	--	--	--	--	--	--

<sup>1</sup> Percent not shown where base is less than 75,000.

# HOUSEHOLD DATA

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
<b>UNEMPLOYMENT LEVEL</b>												
Total unemployed, in thousands	7,453	6,326	2,577	2,024	2,508	2,265	2,367	2,037	5,781	4,719	1,671	1,606
Job losers	2,687	2,115	1,493	1,136	914	791	281	188	2,169	1,664	519	451
On layoff	677	499	340	256	273	215	64	28	566	439	111	61
Other job losers	2,010	1,616	1,153	880	641	576	217	160	1,603	1,225	408	390
Job leavers	894	809	300	282	439	345	155	182	774	670	120	139
Reentrants	2,339	2,147	643	519	990	993	707	636	1,755	1,524	584	622
New entrants	1,532	1,255	141	87	166	137	1,224	1,032	1,084	861	448	395
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	36.1	33.4	57.9	56.1	36.4	34.9	11.9	9.2	37.5	35.3	31.0	28.1
On layoff	9.1	7.9	13.2	12.6	10.9	9.5	2.7	1.4	9.8	9.3	6.6	3.8
Other job losers	27.0	25.5	44.7	43.5	25.5	25.4	9.2	7.8	27.7	26.0	24.4	24.3
Job leavers	12.0	12.8	11.6	14.0	17.5	15.2	6.6	8.9	13.4	14.2	7.2	8.6
Reentrants	31.4	33.9	24.9	25.6	39.5	43.8	29.9	31.2	30.4	32.3	35.0	38.7
New entrants	20.6	19.8	5.5	4.3	6.6	6.0	51.7	50.6	18.7	18.2	26.8	24.6
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate	7.5	6.2	4.9	3.8	7.1	6.1	21.5	18.2	6.6	5.2	14.4	13.1
Job loser rate <sup>1</sup>	2.7	2.1	2.8	2.1	2.6	2.2	2.6	1.7	2.4	1.9	4.5	3.7
Job leaver rate <sup>1</sup>	.9	.8	.6	.5	1.2	.9	1.4	1.6	.9	.7	1.0	1.1
Reentrant rate <sup>1</sup>	2.4	2.1	1.2	1.0	2.8	2.7	6.4	5.7	2.0	1.7	5.0	5.1
New entrant rate <sup>1</sup>	1.5	1.2	.3	.2	.5	.4	11.1	9.2	1.2	1.0	3.9	3.2

<sup>1</sup> 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	June 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	6,326	100.0	54.9	25.1	20.0	10.2	9.8
Job losers	2,115	100.0	39.3	28.1	32.5	16.1	16.5
On layoff	499	100.0	54.2	26.2	19.6	11.0	8.6
Other job losers	1,616	100.0	34.7	28.8	36.5	17.6	18.9
Job leavers	809	100.0	59.7	24.1	16.2	9.0	7.2
Reentrants	2,147	100.0	59.9	24.8	15.3	7.5	7.8
New entrants	1,255	100.0	69.5	21.2	9.4	5.6	3.7
Males, 20 years and over	2,024	100.0	42.2	27.1	30.7	14.5	16.2
Job losers	1,136	100.0	34.4	28.9	36.7	17.3	19.5
On layoff	256	100.0	50.4	26.6	23.0	10.9	12.1
Other job losers	880	100.0	29.5	29.5	40.9	19.2	21.7
Job leavers	282	100.0	53.9	24.5	21.6	10.3	11.3
Reentrants	519	100.0	49.7	25.4	24.9	10.9	13.9
New entrants	87	100.0	63.2	21.8	14.9	11.5	3.4
Females, 20 years and over	2,265	100.0	51.8	27.8	20.4	10.3	10.1
Job losers	791	100.0	41.5	27.6	31.0	15.8	15.2
On layoff	215	100.0	54.6	27.3	18.1	12.0	6.0
Other job losers	576	100.0	36.5	27.7	35.8	17.2	18.6
Job leavers	345	100.0	53.9	28.4	17.7	11.0	6.7
Reentrants	993	100.0	58.4	27.3	14.3	6.8	7.6
New entrants	137	100.0	58.4	30.7	10.9	3.6	7.3
Both sexes, 16 to 19 years	2,037	100.0	71.0	20.2	8.9	5.7	3.1
Job losers	188	100.0	60.3	26.5	13.2	9.5	3.7
On layoff	28	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers	160	100.0	56.2	28.1	15.6	10.6	5.0
Job leavers	182	100.0	79.7	15.4	4.9	3.3	1.6
Reentrants	636	100.0	70.6	20.4	9.0	5.8	3.1
New entrants	1,032	100.0	71.5	19.9	8.6	5.4	3.2

<sup>1</sup> 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	June 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	6,326	5,595	23.4	5.8	69.6	29.2	14.2	6.5	1.49
16 to 19 years .....	2,037	1,927	16.3	3.5	73.7	24.5	13.3	6.0	1.37
20 to 24 years .....	1,501	1,316	24.8	7.1	71.4	30.5	15.0	4.9	1.54
25 to 34 years .....	1,201	1,025	30.6	6.8	66.2	34.9	14.4	8.4	1.61
35 to 44 years .....	648	526	29.7	7.6	65.2	30.8	14.1	7.4	1.55
45 to 54 years .....	519	447	28.4	7.6	64.0	30.9	14.1	7.2	1.52
55 to 64 years .....	289	244	20.1	5.3	65.6	29.5	13.9	8.2	1.43
65 years and over .....	130	110	21.8	4.5	60.0	27.3	21.8	5.5	1.41
<b>Males, 16 years and over</b> .....	3,001	2,625	24.4	6.0	70.7	25.7	17.1	7.9	1.52
16 to 19 years .....	977	926	15.7	2.8	74.4	21.0	15.9	7.1	1.37
20 to 24 years .....	715	615	27.3	7.0	70.7	29.4	19.0	5.0	1.59
25 to 34 years .....	536	442	35.7	8.4	66.7	27.6	19.5	10.4	1.68
35 to 44 years .....	286	221	37.6	11.3	69.7	26.7	15.8	10.0	1.71
45 to 54 years .....	237	212	25.5	8.0	66.0	28.8	16.0	10.4	1.55
55 to 64 years .....	168	138	16.7	6.5	65.2	26.8	12.3	12.3	1.40
65 years and over .....	82	70	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Females, 16 years and over</b> .....	3,325	2,969	22.5	5.5	68.7	32.2	11.7	5.2	1.46
16 to 19 years .....	1,060	1,001	16.9	4.1	73.0	27.8	10.9	4.9	1.38
20 to 24 years .....	786	701	22.5	7.1	72.0	31.5	11.4	4.7	1.49
25 to 34 years .....	664	582	27.0	5.7	65.8	40.5	10.7	6.9	1.57
35 to 44 years .....	362	305	23.9	4.9	62.0	33.4	13.1	5.6	1.43
45 to 54 years .....	282	235	30.6	7.2	62.1	32.8	12.3	4.3	1.49
55 to 64 years .....	122	105	25.7	4.8	66.7	33.3	16.2	2.9	1.50
65 years and over .....	48	40	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White</b> .....	4,719	4,078	21.4	5.6	70.8	30.6	14.1	6.1	1.49
<b>Males</b> .....	2,284	1,965	22.3	5.6	72.0	26.9	16.4	7.8	1.51
<b>Females</b> .....	2,435	2,113	20.4	5.6	69.7	33.9	12.0	4.5	1.46
<b>Black and other</b> .....	1,606	1,517	29.0	6.1	66.4	25.5	14.6	7.5	1.49
<b>Males</b> .....	717	660	30.6	7.1	66.7	22.3	19.2	8.3	1.54
<b>Females</b> .....	890	856	27.8	5.3	66.4	28.0	11.0	6.9	1.45

<sup>1</sup> 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	June 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
<b>Total, 16 years and over</b> .....	6,326	5,595	23.4	5.8	69.6	29.2	14.2	6.5	1.49
Job losers .....	2,115	1,605	31.3	6.5	66.5	32.0	16.9	6.9	1.60
Job leavers .....	309	787	22.6	7.4	69.9	33.9	12.1	6.7	1.55
Reentrants .....	2,147	1,981	22.4	6.3	69.6	27.7	13.3	7.4	1.47
New entrants .....	1,255	1,221	15.1	2.9	73.5	24.9	13.6	4.3	1.34
<b>Males, 16 years and over</b> .....	3,001	2,625	24.4	6.0	70.7	25.7	17.1	7.9	1.52
Job losers .....	1,255	976	30.4	6.8	68.6	27.4	18.0	9.3	1.61
Job leavers .....	366	361	23.5	6.9	68.7	26.3	13.9	8.0	1.47
Reentrants .....	844	769	24.1	7.2	71.7	22.5	17.8	8.1	1.51
New entrants .....	536	519	14.1	2.1	74.2	27.2	16.6	5.0	1.39
<b>Females, 16 years and over</b> .....	3,325	2,969	22.5	5.5	68.7	32.2	11.7	5.2	1.46
Job losers .....	860	629	32.8	6.0	63.1	39.4	15.1	3.0	1.59
Job leavers .....	443	427	21.8	7.5	70.7	40.3	10.5	5.6	1.56
Reentrants .....	1,303	1,211	21.5	5.6	68.2	31.0	10.5	6.9	1.44
New entrants .....	719	702	15.7	3.7	73.1	23.2	11.4	4.0	1.31

NOTE: See note, table A-15.

# HOUSEHOLD DATA

## 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	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
Total, 16 years and over .....	7,453	6,326	100.0	100.0	6,120	5,202	100.0	100.0
Less than 5 weeks .....	3,917	3,474	52.6	54.9	2,999	2,731	49.0	52.5
5 to 14 weeks .....	1,699	1,588	22.8	25.1	1,442	1,316	23.6	25.3
5 to 10 weeks .....	1,252	1,200	16.8	19.0	1,066	986	17.4	19.0
11 to 14 weeks .....	447	387	6.0	6.1	377	330	6.2	6.3
15 weeks and over .....	1,836	1,264	24.6	20.0	1,678	1,155	27.4	22.2
15 to 26 weeks .....	809	644	10.8	10.2	727	581	11.9	11.2
27 weeks and over .....	1,028	620	13.8	9.8	951	574	15.5	11.0
27 to 51 weeks .....	509	320	6.8	5.1	475	291	7.8	5.6
52 weeks and over .....	519	300	7.0	4.7	477	283	7.8	5.4
Average (mean) duration, in weeks .....	12.9	10.8	--	--	14.0	11.7	--	--
Median duration, in weeks .....	4.8	4.6	--	--	5.3	4.8	--	--

## 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			June 1977	June 1978	June 1977	June 1978
	June 1978							June 1977	June 1978	June 1977	June 1978
Total, 16 years and over .....	6,326	3,474	1,588	644	620	10.8	4.6	52.6	54.9	24.6	20.0
16 to 21 years .....	2,781	1,877	610	188	105	6.6	3.7	65.9	67.5	12.9	10.5
16 to 19 years .....	2,037	1,446	411	117	63	6.1	3.5	69.0	71.0	10.4	8.9
20 to 24 years .....	1,501	846	407	140	109	9.1	4.4	54.4	56.3	22.7	16.5
25 to 34 years .....	1,201	557	321	157	165	13.4	5.9	42.9	46.4	30.8	26.8
35 to 44 years .....	648	277	167	103	101	14.3	6.7	40.5	42.7	36.2	31.6
45 to 54 years .....	519	197	164	80	78	15.8	7.9	40.4	37.9	39.2	30.5
55 to 64 years .....	289	105	87	33	64	19.9	9.5	31.4	36.2	42.5	33.5
65 years and over .....	130	47	30	13	40	22.9	9.6	30.8	36.0	46.7	40.8
Males, 16 years and over .....	3,001	1,576	718	344	363	12.3	4.8	49.6	52.5	28.6	23.6
16 to 21 years .....	1,320	902	262	97	59	6.9	3.7	64.3	68.3	15.2	11.8
16 to 19 years .....	977	722	169	51	35	6.0	3.4	66.4	73.9	11.0	8.8
20 to 24 years .....	715	393	181	77	64	10.1	4.6	54.1	54.9	28.6	19.7
25 to 34 years .....	536	218	144	92	82	14.4	7.8	37.8	40.6	37.7	32.4
35 to 44 years .....	286	101	62	58	66	19.6	11.4	34.3	35.3	44.6	43.1
45 to 54 years .....	237	61	87	38	51	20.2	10.1	33.7	25.6	44.7	37.6
55 to 64 years .....	168	54	54	19	40	22.6	10.3	28.1	32.1	43.6	35.5
65 years and over .....	82	28	19	9	26	21.6	9.8	36.5	34.3	42.5	42.2
Females, 16 years and over .....	3,325	1,898	870	301	256	9.5	4.4	55.6	57.1	20.5	16.8
16 to 21 years .....	1,460	975	348	91	46	6.3	3.7	67.6	66.8	10.4	9.4
16 to 19 years .....	1,060	724	242	67	28	6.1	3.7	71.8	68.3	9.8	9.0
20 to 24 years .....	786	453	226	63	45	8.1	4.3	54.9	57.6	16.3	13.7
25 to 34 years .....	664	339	177	65	83	12.6	4.9	48.4	51.1	23.3	22.3
35 to 44 years .....	362	176	105	46	36	10.1	5.3	46.0	48.5	29.0	22.5
45 to 54 years .....	282	136	77	42	27	12.1	5.4	46.1	48.3	34.4	24.5
55 to 64 years .....	122	51	33	14	23	16.1	8.1	34.9	41.9	41.4	30.8
65 years and over .....	48	19	11	4	14	25.1	9.1	(1)	(1)	(1)	(1)
White .....	4,719	2,639	1,167	477	436	10.4	4.5	52.6	55.9	25.0	19.3
Males .....	2,284	1,235	536	249	264	11.9	4.6	49.7	54.1	28.6	22.5
Females .....	2,435	1,404	631	228	172	8.9	4.3	55.5	57.7	21.2	16.4
Black and other .....	1,606	835	421	168	184	12.0	4.8	52.6	52.0	23.4	21.9
Males .....	717	341	182	95	100	13.5	5.7	49.1	47.6	28.7	27.1
Females .....	890	493	239	73	84	10.9	4.5	55.9	55.5	18.3	17.7
Males:											
Married, spouse present .....	982	364	268	172	178	16.7	8.8	37.3	37.1	40.8	35.6
Widowed, divorced, or separated .....	231	91	70	17	53	18.8	8.7	32.9	39.3	39.1	30.3
Single (never married) .....	1,788	1,121	379	155	132	9.0	4.0	58.9	62.7	20.2	16.1
Females:											
Married, spouse present .....	1,197	632	338	132	94	9.9	4.7	51.1	52.8	24.3	18.9
Widowed, divorced, or separated .....	537	273	138	54	71	12.5	4.9	39.6	50.9	32.0	23.4
Single (never married) .....	1,591	992	394	114	91	8.1	4.0	64.4	62.3	13.9	12.9

<sup>1</sup> 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			June 1977	June 1978	June 1977	June 1978
	June 1978							June 1977	June 1978	June 1977	June 1978
<b>OCCUPATION</b>											
White-collar workers .....	1,798	863	489	235	212	12.4	5.4	45.7	48.0	28.3	24.9
Professional and managerial .....	584	259	154	65	108	14.8	6.6	44.6	44.3	32.8	29.3
Sales workers .....	281	140	79	35	28	11.7	5.0	49.4	49.9	26.5	22.1
Clerical workers .....	933	464	256	136	77	11.1	5.1	45.4	49.7	25.6	22.9
Blue-collar workers .....	2,102	1,001	599	252	249	12.3	5.6	47.2	47.6	31.6	23.9
Craft and kindred workers .....	496	214	141	91	51	13.3	6.8	45.7	43.0	33.7	28.6
Operatives, except transport .....	938	454	270	99	115	11.9	5.4	47.0	48.4	28.7	22.8
Transport equipment operatives .....	159	49	58	24	28	16.7	9.0	44.0	30.7	40.3	32.8
Nonfarm laborers .....	508	285	131	39	54	10.7	4.5	50.4	56.0	31.5	18.3
Service workers .....	1,081	667	229	85	101	10.2	4.1	55.1	61.7	21.7	17.2
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	122	91	17	2	12	9.1	3.4	57.5	74.6	20.1	11.5
Construction .....	439	210	112	72	45	12.6	5.7	45.8	47.8	34.7	26.7
Manufacturing .....	1,197	535	353	143	165	13.2	6.3	43.9	44.7	31.0	25.8
Durable goods .....	611	254	191	74	92	14.0	7.0	42.8	41.6	35.7	27.1
Nondurable goods .....	587	281	163	69	74	12.3	5.5	45.1	47.9	26.0	24.4
Transportation and public utilities .....	222	97	68	29	28	13.7	7.1	45.2	43.6	34.6	25.7
Wholesale and retail trade .....	1,223	646	324	131	123	11.1	4.7	47.9	52.8	26.8	20.8
Finance and service industries .....	1,537	864	354	163	156	11.1	4.6	53.2	56.2	23.5	20.7
Public administration .....	218	115	53	23	27	11.9	4.7	46.1	52.8	37.2	22.9
No previous work experience .....	1,255	872	265	71	47	6.6	3.6	67.8	69.5	11.5	9.4

<sup>1</sup> Includes wage and salary workers only.

A-20. Employed persons by sex and age

[In thousands]

Age and type of industry	Total		Males		Females	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
<b>All industries</b> .....	91,682	95,852	55,095	56,978	36,587	38,875
16 to 19 years .....	8,620	9,153	4,787	5,071	3,833	4,082
16 to 17 years .....	3,537	3,844	2,020	2,186	1,517	1,658
18 to 19 years .....	5,083	5,309	2,767	2,885	2,316	2,425
20 to 24 years .....	13,355	14,063	7,399	7,770	5,956	6,293
25 to 54 years .....	56,051	58,412	34,306	35,290	21,744	23,122
25 to 34 years .....	23,040	24,334	14,160	14,738	8,880	9,596
35 to 44 years .....	16,849	17,898	10,227	10,694	6,622	7,204
45 to 54 years .....	16,162	16,181	9,920	9,859	6,242	6,322
55 to 64 years .....	10,928	11,199	6,848	6,932	4,080	4,268
55 to 59 years .....	6,793	7,032	4,223	4,308	2,570	2,724
60 to 64 years .....	4,135	4,168	2,625	2,624	1,510	1,544
65 years and over .....	2,729	3,025	1,754	1,915	975	1,110
<b>Nonagricultural industries</b> .....	87,862	91,869	52,083	53,872	35,778	37,997
16 to 19 years .....	8,025	8,548	4,312	4,582	3,714	3,965
16 to 17 years .....	3,185	3,502	1,753	1,914	1,430	1,588
18 to 19 years .....	4,842	5,045	2,559	2,668	2,284	2,378
20 to 24 years .....	12,873	13,587	7,020	7,388	5,852	6,199
25 to 54 years .....	54,221	56,541	32,935	33,900	21,286	22,641
25 to 34 years .....	22,403	23,613	13,669	14,191	8,734	9,422
35 to 44 years .....	16,286	17,365	9,816	10,305	6,470	7,060
45 to 54 years .....	15,532	15,564	9,450	9,405	6,083	6,160
55 to 64 years .....	10,374	10,589	6,390	6,454	3,984	4,135
55 to 59 years .....	6,455	6,697	3,947	4,056	2,508	2,641
60 to 64 years .....	3,919	3,892	2,443	2,398	1,476	1,494
65 years and over .....	2,369	2,604	1,426	1,548	942	1,056
<b>Agriculture</b> .....	3,820	3,983	3,011	3,105	809	878
16 to 19 years .....	594	605	475	489	119	117
16 to 17 years .....	354	342	267	272	87	70
18 to 19 years .....	240	264	208	217	32	47
20 to 24 years .....	482	476	379	382	104	94
25 to 54 years .....	1,830	1,871	1,372	1,390	458	481
25 to 34 years .....	637	721	491	547	146	175
35 to 44 years .....	563	533	410	389	152	144
45 to 54 years .....	630	616	470	454	159	162
55 to 64 years .....	554	611	458	478	96	133
55 to 59 years .....	338	335	276	252	62	83
60 to 64 years .....	216	276	182	226	34	50
65 years and over .....	360	421	328	367	32	54

# HOUSEHOLD DATA

## 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	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
	<b>TOTAL</b> .....	91,682	95,852	50,308	51,907	32,755	34,793	4,787	5,071	3,833
<b>White-collar workers</b> .....	44,422	46,761	21,029	21,909	20,930	22,161	659	746	1,803	1,945
Professional and technical .....	13,161	13,848	7,588	7,934	5,368	5,659	101	130	105	125
Health workers .....	2,480	2,635	881	918	1,556	1,691	17	4	24	22
Teachers, except college .....	2,591	2,584	742	771	1,832	1,789	5	5	13	19
Other professional and technical .....	8,090	8,629	5,965	6,245	1,980	2,179	79	121	68	84
<b>Managers and administrators, except farm</b> .....	9,560	10,087	7,381	7,648	2,104	2,338	53	70	22	30
Salaried workers .....	7,688	8,215	5,964	6,252	1,651	1,867	53	66	22	28
Self-employed workers in retail trade .....	970	916	661	594	305	319	2	2	1	1
Self-employed workers, except retail trade .....	902	955	756	802	148	152	--	1	--	--
<b>Sales workers</b> .....	5,752	6,002	3,020	3,108	2,047	2,212	241	252	443	431
Retail trade .....	3,166	3,208	1,036	995	1,533	1,634	183	187	414	392
Other industries .....	2,585	2,794	1,984	2,113	514	577	58	65	29	38
<b>Clerical workers</b> .....	15,949	16,823	3,040	3,219	11,412	11,952	263	293	1,234	1,359
Stenographers, typists, and secretaries .....	4,454	4,693	63	74	4,055	4,218	8	7	328	394
Other clerical workers .....	11,495	12,130	2,977	3,145	7,357	7,734	255	286	906	965
<b>Blue-collar workers</b> .....	31,324	32,736	23,181	23,944	4,992	5,392	2,694	2,892	457	506
<b>Craft and kindred workers</b> .....	12,105	12,691	10,978	11,454	589	645	490	557	49	36
Carpenters .....	1,250	1,333	1,173	1,227	9	4	67	101	--	1
Construction craft, except carpenters .....	2,536	2,637	2,346	2,453	32	35	151	145	7	4
Mechanics and repairers .....	3,166	3,388	2,951	3,129	40	60	172	193	3	6
Metal craft .....	1,235	1,207	1,162	1,147	44	31	28	28	3	--
Blue-collar worker supervisors, not elsewhere classified .....	1,486	1,642	1,333	1,487	143	138	8	15	3	2
All other .....	2,431	2,484	2,013	2,011	321	376	65	75	33	23
<b>Operatives, except transport</b> .....	10,482	11,127	5,621	5,835	3,858	4,140	719	792	284	360
Durable goods manufacturing .....	4,552	5,035	2,824	3,085	1,442	1,563	201	258	85	128
Nondurable goods manufacturing .....	3,455	3,457	1,336	1,318	1,840	1,864	136	120	143	154
Other industries .....	2,475	2,636	1,461	1,432	576	713	381	413	56	78
<b>Transport equipment operatives</b> .....	3,558	3,575	3,132	3,164	199	183	204	220	23	8
Drivers, motor vehicles .....	3,022	2,991	2,647	2,626	183	175	172	185	20	6
All other .....	536	584	485	538	16	9	32	35	2	2
<b>Nonfarm laborers</b> .....	5,179	5,342	3,450	3,492	346	424	1,281	1,323	102	103
Construction .....	1,008	1,097	735	799	20	11	247	281	6	5
Manufacturing .....	1,189	1,113	879	767	128	167	173	168	9	11
Other industries .....	2,982	3,132	1,836	1,926	198	246	861	873	87	86
<b>Service workers</b> .....	12,688	13,019	3,911	3,827	6,272	6,609	1,025	1,044	1,479	1,539
Private household workers .....	1,137	1,128	11	11	860	835	14	6	252	276
Service workers, except private household .....	11,551	11,891	3,901	3,816	5,412	5,774	1,011	1,038	1,227	1,263
Food service workers .....	4,240	4,472	782	803	2,039	2,145	578	649	841	875
Protective service workers .....	1,370	1,305	1,248	1,182	93	102	22	17	6	4
All other .....	5,941	6,114	1,871	1,831	3,280	3,527	411	372	380	384
<b>Farm workers</b> .....	3,248	3,337	2,187	2,226	560	630	408	389	94	92
Farmers and farm managers .....	1,566	1,629	1,455	1,436	87	172	24	18	--	3
Farm laborers and supervisors .....	1,682	1,709	732	790	472	458	385	371	94	89
Paid workers .....	1,195	1,268	668	748	186	175	272	286	69	60
Unpaid family workers .....	487	440	63	42	286	283	113	85	25	30

**HOUSEHOLD DATA**

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
<b>TOTAL</b>						
Total employed (thousands) . . . . .	91,682	95,852	55,095	56,978	36,587	38,875
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b> . . . . .	48.5	48.8	39.4	39.8	62.1	62.0
Professional and technical . . . . .	14.4	14.4	14.0	14.2	15.0	14.9
Managers and administrators, except farm . . . . .	10.4	10.5	13.5	13.5	5.8	6.1
Sales workers . . . . .	6.3	6.3	5.9	5.9	6.8	6.8
Clerical workers . . . . .	17.4	17.6	6.0	6.2	34.6	34.2
<b>Blue-collar workers</b> . . . . .	34.2	34.2	47.0	47.1	14.9	15.2
Craft and kindred workers . . . . .	13.2	13.2	20.8	21.1	1.7	1.8
Operatives, except transport . . . . .	11.4	11.6	11.5	11.6	11.3	11.6
Transport equipment operatives . . . . .	3.9	3.7	6.1	5.9	.6	.5
Nonfarm laborers . . . . .	5.6	5.6	8.6	8.5	1.2	1.4
<b>Service workers</b> . . . . .	13.8	13.6	9.0	8.5	21.2	21.0
Private household workers . . . . .	1.2	1.2	(1)	(1)	3.0	2.9
Other service workers . . . . .	12.6	12.4	8.9	8.5	18.1	18.1
<b>Farm workers</b> . . . . .	3.5	3.5	4.7	4.6	1.8	1.9
Farmers and farm managers . . . . .	1.7	1.7	2.7	2.6	.2	.5
Farm laborers and supervisors . . . . .	1.8	1.8	2.0	2.0	1.5	1.4
<b>White</b>						
Total employed (thousands) . . . . .	81,749	85,198	49,656	51,238	32,092	33,960
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b> . . . . .	50.2	50.5	41.0	41.2	64.5	64.4
Professional and technical . . . . .	14.8	14.8	14.5	14.6	15.2	15.1
Managers and administrators, except farm . . . . .	11.1	11.2	14.2	14.3	6.2	6.6
Sales workers . . . . .	6.7	6.7	6.3	6.3	7.3	7.3
Clerical workers . . . . .	17.6	17.7	5.9	6.0	35.7	35.4
<b>Blue-collar workers</b> . . . . .	33.5	33.7	45.9	46.4	14.3	14.5
Craft and kindred workers . . . . .	13.7	13.8	21.4	21.7	1.8	1.8
Operatives, except transport . . . . .	11.0	11.1	11.2	11.2	10.6	10.9
Transport equipment operatives . . . . .	3.7	3.6	5.6	5.6	.6	.5
Nonfarm laborers . . . . .	5.1	5.2	7.7	7.8	1.2	1.3
<b>Service workers</b> . . . . .	12.6	12.3	8.2	7.8	19.4	19.2
Private household workers . . . . .	.9	.9	(1)	(1)	2.2	2.2
Other service workers . . . . .	11.7	11.4	8.2	7.7	17.2	17.0
<b>Farm workers</b> . . . . .	3.7	3.6	4.9	4.6	1.9	1.9
Farmers and farm managers . . . . .	1.9	1.8	2.9	2.7	.3	.5
Farm laborers and supervisors . . . . .	1.8	1.7	2.0	1.9	1.6	1.4
<b>Black and other</b>						
Total employed (thousands) . . . . .	9,933	10,655	5,438	5,740	4,495	4,915
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b> . . . . .	34.0	35.4	24.4	26.7	45.5	45.6
Professional and technical . . . . .	10.6	11.6	8.6	10.0	13.0	13.6
Managers and administrators, except farm . . . . .	5.1	4.8	6.8	6.4	3.1	2.8
Sales workers . . . . .	2.8	2.9	2.6	2.7	3.1	3.2
Clerical workers . . . . .	15.5	16.1	6.5	7.6	26.4	26.1
<b>Blue-collar workers</b> . . . . .	39.5	38.1	56.3	53.6	19.3	19.9
Craft and kindred workers . . . . .	8.9	8.9	15.0	15.5	1.5	1.1
Operatives, except transport . . . . .	15.3	15.8	14.7	15.2	16.1	16.5
Transport equipment operatives . . . . .	5.6	5.1	9.9	9.0	.4	.5
Nonfarm laborers . . . . .	9.8	8.3	16.7	13.9	1.3	1.7
<b>Service workers</b> . . . . .	24.1	23.7	16.0	15.5	33.9	33.2
Private household workers . . . . .	4.2	3.5	.2	.1	9.1	7.4
Other service workers . . . . .	19.9	20.2	15.8	15.4	24.8	25.8
<b>Farm workers</b> . . . . .	2.4	2.9	3.3	4.2	1.3	1.3
Farmers and farm managers . . . . .	.4	.6	.6	1.0	.2	.1
Farm laborers and supervisors . . . . .	2.0	2.3	2.6	3.2	1.1	1.2

<sup>1</sup> Less than 0.05 percent.

# HOUSEHOLD DATA

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

[In thousands]

Age and sex	June 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					
<b>Total, 16 years and over</b> .....	85,077	1,423	14,812	68,841	6,310	482	1,723	1,792	468
16 to 19 years .....	8,439	401	661	7,377	68	41	445	41	119
16 to 17 years .....	3,449	319	261	2,870	31	22	244	23	75
18 to 19 years .....	4,990	82	400	4,508	36	19	201	18	44
20 to 24 years .....	13,219	101	1,602	11,515	341	27	307	115	54
25 to 34 years .....	22,128	156	4,226	17,745	1,425	59	345	310	66
35 to 44 years .....	15,765	152	3,187	12,424	1,465	137	179	297	57
45 to 54 years .....	14,021	181	2,943	10,897	1,404	139	192	345	78
55 to 64 years .....	9,435	239	1,891	7,306	1,102	51	154	396	61
55 to 59 years .....	6,009	122	1,245	4,643	650	37	82	214	39
60 to 64 years .....	3,426	118	646	2,663	452	14	72	182	22
65 years and over .....	2,072	192	303	1,576	505	28	101	287	33
<b>Males, 16 years and over</b> .....	49,281	249	7,629	41,403	4,537	55	1,376	1,596	133
16 to 19 years .....	4,511	123	337	4,051	46	26	364	36	89
16 to 17 years .....	1,880	100	141	1,639	16	18	196	20	56
18 to 19 years .....	2,631	22	196	2,412	29	8	168	16	33
20 to 24 years .....	7,151	32	664	6,455	231	6	252	101	30
25 to 34 years .....	13,163	20	2,148	10,994	1,025	3	270	271	6
35 to 44 years .....	9,244	2	1,686	7,555	1,058	3	129	258	2
45 to 54 years .....	8,389	7	1,587	6,796	1,013	3	149	305	--
55 to 64 years .....	5,645	24	1,054	4,587	808	--	118	359	--
55 to 59 years .....	3,569	8	678	2,883	486	--	63	189	--
60 to 64 years .....	2,076	16	356	1,704	322	--	56	170	--
65 years and over .....	1,179	42	172	965	356	13	94	267	6
<b>Females, 16 years and over</b> .....	35,795	1,174	7,183	27,438	1,774	428	348	195	335
16 to 19 years .....	3,929	279	324	3,327	22	15	81	6	30
16 to 17 years .....	1,569	218	120	1,231	15	4	48	3	19
18 to 19 years .....	2,359	60	204	2,096	7	11	33	3	11
20 to 24 years .....	6,068	69	938	5,061	109	21	55	14	25
25 to 34 years .....	8,965	137	2,078	6,751	401	56	75	39	60
35 to 44 years .....	6,519	150	1,500	4,869	407	134	50	40	55
45 to 54 years .....	5,632	174	1,356	4,102	392	136	44	40	78
55 to 64 years .....	3,790	216	856	2,718	294	51	35	37	61
55 to 59 years .....	2,440	114	566	1,760	163	37	19	25	39
60 to 64 years .....	1,350	101	290	959	131	14	16	11	22
65 years and over .....	892	151	131	611	149	14	7	20	28

## A-24. Employed persons by industry and occupation

[In thousands]

Industry	June 1978											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture .....	3,983	69	28	10	85	62	6	52	328	--	5	3,337
Mining .....	827	108	69	8	92	197	253	59	36	--	7	--
Construction .....	6,504	163	728	13	427	3,521	276	238	1,097	--	41	--
Manufacturing .....	21,686	2,216	1,471	468	2,518	4,142	8,492	831	1,113	--	434	--
Durable goods .....	13,046	1,474	885	180	1,473	2,709	5,035	400	656	--	234	--
Nondurable goods .....	8,640	742	587	288	1,045	1,433	3,457	431	457	--	200	--
Transportation and public utilities .....	6,171	511	554	46	1,402	1,379	166	1,425	515	--	173	--
Wholesale and retail trade .....	19,798	344	3,756	4,087	3,342	1,514	1,063	710	1,209	--	3,773	--
Wholesale trade .....	3,756	131	812	879	728	307	214	363	293	--	28	--
Retail trade .....	16,042	213	2,944	3,208	2,614	1,207	848	347	916	--	3,745	--
Finance, insurance, and real estate .....	5,398	278	1,050	1,155	2,417	105	9	14	89	--	281	--
Services .....	26,382	9,117	1,850	212	4,766	1,455	801	185	737	1,128	6,132	--
Private households .....	1,443	16	--	--	11	11	--	3	223	1,128	51	--
Other service industries .....	24,939	9,101	1,850	212	4,755	1,444	801	182	514	--	6,081	--
Public administration .....	5,104	1,043	581	3	1,773	317	63	61	218	--	1,045	--

**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 <sup>1</sup>			
					Paid absences <sup>2</sup>		Unpaid absences <sup>2</sup>	
	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978	June 1977	June 1978
Total	6,917	6,649	6,794	6,547	3,721	3,623	2,566	2,443
Vacation	4,516	4,462	4,471	4,422	3,001	2,915	1,257	1,285
Illness	1,414	1,346	1,369	1,313	528	532	720	677
Bad weather	47	42	31	33	--	--	--	--
Industrial dispute	101	69	101	69	--	--	--	--
All other reasons	839	730	823	710	192	177	589	481
<b>Males</b>	<b>3,489</b>	<b>3,359</b>	<b>3,391</b>	<b>3,272</b>	<b>2,132</b>	<b>2,048</b>	<b>989</b>	<b>970</b>
Vacation	2,162	2,096	2,132	2,064	1,648	1,606	360	357
Illness	854	811	817	778	365	333	382	377
All other reasons <sup>3</sup>	473	453	442	431	119	110	248	236
<b>Females</b>	<b>3,428</b>	<b>3,290</b>	<b>3,403</b>	<b>3,274</b>	<b>1,587</b>	<b>1,574</b>	<b>1,577</b>	<b>1,473</b>
Vacation	2,354	2,365	2,340	2,358	1,351	1,309	897	929
Illness	560	535	552	535	164	198	339	300
All other reasons <sup>3</sup>	514	389	513	381	72	67	341	245

<sup>1</sup> Excludes private household.

<sup>3</sup> Includes bad weather and industrial dispute, not shown separately.

<sup>2</sup> 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	June 1978					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total at work	89,203	85,322	3,881	100.0	100.0	100.0
1-34 hours	19,724	18,769	956	22.1	22.0	24.6
1-4 hours	732	680	52	.8	.8	1.3
5-14 hours	3,615	3,377	283	4.1	4.0	6.1
15-29 hours	9,628	9,161	468	10.8	10.7	12.1
30-34 hours	5,749	5,551	198	6.4	6.5	5.1
35 hours and over	69,478	66,554	2,926	77.9	78.0	75.4
35-39 hours	6,556	6,402	155	7.3	7.5	4.0
40 hours	37,986	37,430	555	42.6	43.9	14.3
41 hours and over	24,936	22,722	2,216	28.0	26.6	57.1
41 to 48 hours	9,518	9,212	306	10.7	10.8	7.9
49 to 59 hours	8,191	7,782	410	9.2	9.1	10.6
60 hours and over	7,227	5,728	1,500	8.1	6.7	38.6
Average hours, total at work	39.7	39.2	49.8	--	--	--
Average hours, workers on full-time schedules	43.6	43.0	58.3	--	--	--

## HOUSEHOLD DATA

### 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	June 1978					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
<b>Total</b> .....	19,724	6,313	13,412	18,769	6,119	12,650
<b>Economic reasons</b> .....	4,223	1,600	2,623	4,006	1,529	2,477
Slack work .....	1,555	954	601	1,453	906	547
Material shortages or repairs to plant and equipment .....	94	94	--	92	92	--
New job started during week .....	410	410	--	395	395	--
Job terminated during week .....	141	141	--	135	135	--
Could find only part-time work .....	2,022	--	2,022	1,930	--	1,930
<b>Other reasons</b> .....	15,502	4,713	10,789	14,763	4,591	10,172
Does not want, or unavailable for, full-time work .....	8,567	--	8,567	8,113	--	8,113
Vacation .....	1,361	1,361	--	1,356	1,356	--
Illness .....	1,541	1,355	186	1,485	1,326	159
Bad weather .....	208	208	--	170	170	--
Industrial dispute .....	33	33	--	33	33	--
Legal or religious holiday .....	106	106	--	103	103	--
Full time for this job .....	1,405	--	1,405	1,365	--	1,365
All other reasons .....	2,280	1,649	631	2,138	1,602	536
<b>Average hours:</b>						
Economic reasons .....	20.9	23.7	19.2	21.0	23.7	19.3
Other reasons .....	21.3	26.0	19.3	21.4	26.1	19.3
<b>Worked 30 to 34 hours:</b>						
Economic reasons .....	1,152	631	521	1,107	611	496
Other reasons .....	4,597	2,469	2,128	4,444	2,425	2,019

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

[Numbers in thousands]

Industry	June 1978								Average hours, total at work	Average hours, workers on full-time schedules
	Total at work	Full- or part-time status								
		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			
<b>Total<sup>1</sup></b> .....	85,322	4,006	10,172	71,144	48,422	9,212	13,510	39.2	43.0	
<b>Wage and salary workers</b> .....	78,926	3,681	9,098	66,147	46,351	8,680	11,116	38.9	42.5	
Construction .....	5,176	349	225	4,602	3,333	472	797	40.0	42.3	
Manufacturing .....	20,013	577	576	18,860	12,877	3,043	2,940	41.3	42.5	
Durable goods .....	12,084	218	240	11,626	7,755	1,953	1,918	41.9	42.7	
Nondurable goods .....	7,929	359	336	7,234	5,124	1,089	1,021	40.3	42.1	
Transportation and public utilities .....	5,436	182	246	5,008	3,423	598	987	41.9	43.7	
Wholesale and retail trade .....	16,862	1,206	3,381	12,275	7,724	1,976	2,575	37.3	43.5	
Finance, insurance, and real estate .....	4,686	79	456	4,151	3,116	488	547	38.9	41.4	
Service industries .....	21,235	1,187	3,982	16,066	12,012	1,512	2,542	36.2	41.8	
Private households .....	1,358	262	688	388	263	38	87	22.5	44.5	
All other industries .....	19,897	925	3,294	15,678	11,749	1,474	2,455	37.1	41.7	
Public administration .....	4,756	90	227	4,439	3,441	457	541	40.3	41.8	
<b>Self-employed workers</b> .....	5,914	310	903	4,701	1,929	506	2,266	43.1	49.7	
Unpaid family workers .....	482	16	171	295	140	27	128	38.3	48.5	

<sup>1</sup> Includes mining not shown separately.



# HOUSEHOLD DATA

## 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	June 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		
<b>TOTAL</b>								
Both sexes, 16 years and over	85,322	4,006	10,172	71,144	48,422	22,722	39.2	43.0
16 to 21 years	13,444	1,630	2,944	8,870	6,710	2,160	33.7	41.3
16 to 19 years	8,202	1,261	2,354	4,587	3,515	1,072	31.1	40.9
16 to 17 years	3,338	677	1,455	1,206	945	261	25.4	40.2
18 to 19 years	4,864	585	899	3,380	2,570	810	34.9	41.2
20 years and over	77,120	2,745	7,818	66,557	44,907	21,650	40.0	43.2
20 to 24 years	12,927	759	1,280	10,888	7,908	2,980	38.7	41.9
25 years and over	64,193	1,985	6,539	55,669	37,000	18,669	40.3	43.4
25 to 44 years	37,952	1,245	3,154	33,553	21,925	11,628	40.8	43.5
45 to 64 years	23,881	636	2,268	20,977	14,300	6,677	40.5	43.2
65 years and over	2,360	104	1,117	1,139	774	365	29.1	42.9
<b>Males, 16 years and over</b>	50,600	1,857	2,888	45,855	27,903	17,952	42.2	44.5
16 to 21 years	7,230	817	1,280	5,133	3,604	1,529	35.6	42.4
16 to 19 years	4,405	641	1,061	2,703	1,963	740	32.8	41.8
16 to 17 years	1,827	368	710	749	576	173	26.9	41.1
18 to 19 years	2,578	274	351	1,953	1,387	566	36.9	42.1
20 years and over	46,195	1,215	1,827	43,153	25,940	17,213	43.1	44.7
20 to 24 years	7,073	373	417	6,283	4,138	2,145	40.9	43.3
25 years and over	39,121	841	1,409	36,871	21,804	15,067	43.5	44.9
25 to 44 years	23,093	549	400	22,144	12,737	9,407	44.3	45.1
45 to 64 years	14,625	244	389	13,992	8,582	5,410	43.6	44.6
65 years and over	1,404	49	621	734	483	251	30.6	43.3
<b>Females, 16 years and over</b>	34,722	2,150	7,284	25,288	20,519	4,769	34.7	40.3
16 to 21 years	6,214	814	1,664	3,736	3,107	629	31.6	39.8
16 to 19 years	3,797	619	1,293	1,885	1,554	331	29.1	39.6
16 to 17 years	1,511	308	745	458	370	88	23.7	38.6
18 to 19 years	2,286	311	548	1,427	1,183	244	32.7	40.0
20 years and over	30,925	1,530	5,991	23,404	18,967	4,437	35.4	40.3
20 to 24 years	5,854	386	862	4,606	3,771	835	36.0	40.0
25 years and over	25,072	1,145	5,128	18,799	15,196	3,603	35.2	40.3
25 to 44 years	14,860	697	2,755	11,408	9,187	2,221	35.6	40.2
45 to 64 years	9,256	392	1,879	6,985	5,717	1,268	35.6	40.5
65 years and over	956	56	495	405	291	114	27.1	42.2
<b>RACE</b>								
White	75,743	3,302	9,197	63,244	42,049	21,195	39.4	43.2
Males	45,464	1,525	2,590	41,349	24,525	16,824	42.5	44.8
Females	30,278	1,776	6,608	21,894	17,523	4,371	34.7	40.4
Black and other	9,580	705	975	7,900	6,373	1,527	37.4	41.1
Males	5,136	332	299	4,505	3,376	1,129	39.5	42.3
Females	4,444	372	677	3,395	2,997	398	34.9	39.6
<b>MARITAL STATUS</b>								
<b>Males:</b>								
Married, spouse present	34,404	655	1,114	32,635	18,888	13,747	43.8	45.1
Widowed, divorced, or separated	3,806	141	166	3,499	2,169	1,330	42.7	44.8
Single (never married)	12,390	1,062	1,608	9,720	6,455	2,875	37.5	42.6
<b>Females:</b>								
Married, spouse present	18,496	844	4,346	13,306	10,897	2,409	34.5	40.2
Widowed, divorced, or separated	6,698	355	1,015	5,328	4,183	1,145	36.6	40.8
Single (never married)	9,528	951	1,923	6,654	5,440	1,214	33.7	40.0

# HOUSEHOLD DATA

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

(Numbers in thousands)

Occupational group and sex	June 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		
<b>TOTAL</b>									
White-collar workers	43,144	1,182	5,436	36,526	24,584	4,261	7,681	39.6	43.2
Professional and technical	12,138	282	1,244	10,612	7,275	1,142	2,195	39.8	42.7
Managers and administrators, except farm	9,567	98	406	9,063	4,237	1,252	3,574	46.2	47.7
Sales workers	5,656	247	1,281	4,128	2,444	584	1,100	37.4	44.2
Clerical workers	15,783	557	2,506	12,720	10,624	1,284	812	36.3	40.1
Blue-collar workers	30,703	1,677	1,694	27,332	18,257	4,146	4,929	40.6	43.1
Craft and kindred workers	11,876	423	398	11,055	7,125	1,684	2,246	41.9	43.5
Operatives, except transport	10,455	556	516	9,383	6,675	1,503	1,205	40.0	42.0
Transport equipment operatives	3,299	139	164	2,996	1,600	445	951	44.2	46.6
Nonfarm laborers	5,073	558	616	3,899	2,858	514	527	36.3	41.8
Service workers	12,099	1,190	3,160	7,749	5,828	883	1,038	33.8	42.0
Private household	1,045	169	543	333	226	27	80	24.1	44.8
Other service workers	11,054	1,021	2,617	7,416	5,601	857	958	34.8	41.9
<b>Males</b>									
White-collar workers	21,284	359	1,071	19,854	10,995	2,597	6,262	44.0	45.8
Professional and technical	7,425	138	349	6,938	4,354	780	1,804	42.8	44.4
Managers and administrators, except farm	7,325	49	179	7,097	2,998	965	3,134	47.9	48.8
Sales workers	3,209	73	280	2,856	1,479	427	950	42.7	45.6
Clerical workers	3,325	99	262	2,964	2,166	426	372	39.6	42.0
Blue-collar workers	25,173	1,231	1,173	22,769	14,562	3,573	4,634	41.4	43.7
Craft and kindred workers	11,237	395	316	10,526	6,738	1,610	2,178	42.1	43.5
Operatives, except transport	6,218	213	209	5,796	3,715	1,059	1,022	41.9	43.4
Transport equipment operatives	3,147	122	116	2,909	1,531	433	945	44.8	46.8
Nonfarm laborers	4,571	501	532	3,538	2,578	470	490	36.5	41.9
Service workers	4,615	302	709	3,604	2,534	437	633	38.2	43.5
Private household	16	5	4	7	5	--	2	22.6	46.2
Other service workers	4,598	296	705	3,597	2,529	437	631	38.2	43.5
<b>Females</b>									
White-collar workers	21,860	823	4,365	16,672	13,589	1,664	1,419	35.3	40.1
Professional and technical	4,713	143	894	3,676	2,924	362	390	35.0	39.7
Managers and administrators, except farm	2,242	48	227	1,967	1,240	287	440	40.9	43.7
Sales workers	2,448	175	1,001	1,272	967	157	148	30.5	41.0
Clerical workers	12,458	458	2,243	9,757	8,459	858	440	35.4	39.5
Blue-collar workers	5,530	446	521	4,563	3,695	573	295	37.0	40.3
Craft and kindred workers	639	28	83	528	386	73	69	38.5	42.2
Operatives, except transport	4,238	343	306	3,589	2,962	444	183	37.2	39.8
Transport equipment operatives	151	18	47	86	67	12	7	31.5	40.6
Nonfarm laborers	502	55	85	362	280	44	38	35.0	41.5
Service workers	7,484	889	2,451	4,144	3,294	446	404	31.1	40.8
Private household	1,029	164	539	326	222	27	77	24.1	44.8
Other service workers	6,455	725	1,912	3,818	3,072	419	327	32.3	40.5

HOUSEHOLD DATA

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

[Numbers in thousands]

Employment status	June 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,167	4,159	4,009	6,851	3,497	3,354	1,316	662	654
Civilian labor force	2,597	1,527	1,070	2,283	1,346	936	314	181	134
Employed	2,016	1,203	814	1,876	1,112	764	140	90	50
Agriculture	384	298	86	346	273	73	37	25	12
Nonagricultural industries	1,633	905	728	1,530	839	691	103	65	38
Unemployed	581	325	256	407	234	173	174	90	84
Unemployment rate	22.4	21.3	23.9	17.8	17.4	18.5	55.4	49.7	62.7
Not in labor force	5,570	2,632	2,938	4,569	2,151	2,418	1,002	481	521
Keeping house	259	15	244	200	13	187	59	2	57
Going to school	2,525	1,265	1,260	2,034	1,014	1,021	490	251	239
Unable to work	17	6	11	16	6	10	1	--	1
All other reasons	2,769	1,345	1,424	2,319	1,118	1,201	450	227	223

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

Characteristics	June 1978					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
Total	2,016	1,203	814	100.0	100.0	100.0
Nonagricultural industries	1,633	905	728	81.0	75.3	89.5
Wage and salary workers	1,502	803	699	74.5	66.8	86.0
Private household workers	582	200	382	28.9	16.6	47.0
Government workers	109	61	48	5.4	5.1	5.9
Other wage and salary workers	811	542	269	40.2	45.1	33.1
Self-employed workers	117	92	25	5.8	7.7	3.1
Unpaid family workers	13	9	4	.6	.7	.5
Agriculture	384	298	86	19.1	24.8	10.6
Wage and salary workers	256	192	64	12.7	16.0	7.9
Self-employed workers	52	48	4	2.6	4.0	.5
Unpaid family workers	75	58	17	3.7	4.8	2.1
<b>OCCUPATION</b>						
Total	2,016	1,203	814	100.0	100.0	100.0
White-collar workers	335	207	127	16.6	17.2	15.6
Professional and technical	11	9	2	.5	.7	.2
Managers and administrators, except farm	5	2	3	.2	.2	.4
Sales workers	234	174	60	11.6	14.5	7.4
Clerical workers	84	22	62	4.2	1.8	7.6
Blue-collar workers	567	518	49	28.1	43.1	6.0
Craft and kindred workers	45	41	5	2.2	3.4	.6
Operatives, except transport	54	43	11	2.7	3.6	1.4
Transport equipment operatives	11	11	--	.5	.9	--
Nonfarm laborers	457	424	33	22.7	35.2	4.1
Service workers	795	231	563	39.4	19.2	69.2
Private household workers	413	37	376	20.5	3.1	46.2
Other service workers	382	194	187	18.9	16.1	23.0
Farm workers	320	245	75	15.9	20.4	9.2
Farmers and farm managers	10	10	--	.5	.8	--
Farm laborers and supervisors	310	236	75	15.4	19.6	9.2

**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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup>	158,456	158,682	158,899	159,114	159,334	159,522	159,736	159,937	160,128	160,313	160,504	160,713	160,928
Armed Forces <sup>1</sup>	2,129	2,135	2,137	2,131	2,134	2,132	2,129	2,121	2,124	2,122	2,118	2,113	2,098
Civilian noninstitutional population <sup>1</sup>	156,327	156,547	156,761	156,982	157,201	157,389	157,608	157,816	158,004	158,190	158,386	158,601	158,830
Civilian labor force	97,552	97,307	97,614	97,756	98,071	98,877	98,919	99,107	99,093	99,414	99,784	100,261	100,573
Percent of civilian population	62.4	62.2	62.3	62.3	62.4	62.8	62.8	62.8	62.7	62.8	63.0	63.2	63.3
Employed	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	93,801	94,112	94,819
Percent of total population	57.2	57.1	57.1	57.2	57.4	57.8	58.0	58.1	58.1	58.2	58.4	58.6	58.9
Agriculture	3,330	3,206	3,224	3,199	3,243	3,357	3,323	3,354	3,242	3,310	3,275	3,235	3,473
Nonagricultural industries	87,318	87,382	87,569	87,889	88,140	88,857	89,286	89,527	89,761	89,956	90,526	90,877	91,346
Unemployed	6,904	6,719	6,821	6,668	6,688	6,663	6,310	6,226	6,090	6,148	5,983	6,149	5,754
Unemployment rate	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	6.0	6.1	5.7
Not in labor force	58,775	59,240	59,147	59,226	59,130	58,512	58,689	58,709	58,911	58,776	58,602	58,340	58,257
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup>	67,431	67,537	67,642	67,745	67,852	67,948	68,052	68,148	68,240	68,327	68,419	68,519	68,623
Civilian noninstitutional population <sup>1</sup>	65,743	65,845	65,947	66,056	66,161	66,257	66,364	66,467	66,556	66,645	66,740	66,845	66,947
Civilian labor force	52,511	52,375	52,445	52,366	52,739	52,971	53,122	53,153	53,142	53,242	53,263	53,414	53,522
Percent of civilian population	79.9	79.5	79.5	79.3	79.7	79.9	80.0	80.0	79.9	79.9	79.9	79.9	79.9
Employed	49,850	49,728	49,787	49,888	50,118	50,459	50,688	50,673	50,759	50,833	51,038	51,182	51,433
Percent of total population	73.9	73.6	73.6	73.6	73.9	74.3	74.5	74.4	74.4	74.4	74.6	74.7	75.0
Agriculture	2,362	2,295	2,327	2,320	2,326	2,330	2,346	2,394	2,283	2,289	2,295	2,328	2,437
Nonagricultural industries	47,488	47,433	47,460	47,568	47,792	48,129	48,342	48,279	48,476	48,544	48,743	48,854	48,996
Unemployed	2,661	2,647	2,658	2,478	2,621	2,512	2,434	2,480	2,383	2,409	2,225	2,232	2,089
Unemployment rate	5.1	5.1	5.1	4.7	5.0	4.7	4.6	4.7	4.5	4.5	4.2	4.2	3.9
Not in labor force	13,232	13,470	13,502	13,690	13,422	13,286	13,242	13,314	13,414	13,403	13,477	13,431	13,425
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup>	74,198	74,315	74,429	74,543	74,660	74,768	74,883	74,991	75,095	75,196	75,300	75,412	75,527
Civilian noninstitutional population <sup>1</sup>	74,101	74,217	74,332	74,444	74,561	74,669	74,783	74,892	74,996	75,093	75,198	75,310	75,422
Civilian labor force	35,629	35,619	35,686	36,203	35,984	36,451	36,418	36,595	36,654	36,849	37,117	37,264	37,439
Percent of civilian population	48.1	48.0	48.0	48.6	48.3	48.8	48.7	48.9	48.9	49.1	49.4	49.5	49.6
Employed	33,079	33,160	33,163	33,690	33,537	33,923	34,009	34,348	34,569	34,722	34,948	34,931	35,137
Percent of total population	44.6	44.6	44.6	45.2	44.9	45.4	45.4	45.8	46.0	46.2	46.4	46.3	46.5
Agriculture	564	529	511	496	525	589	543	517	604	628	623	527	623
Nonagricultural industries	32,515	32,631	32,652	33,194	33,012	33,334	33,466	33,831	33,965	34,094	34,325	34,404	34,514
Unemployed	2,550	2,459	2,523	2,513	2,447	2,528	2,409	2,247	2,085	2,127	2,169	2,333	2,302
Unemployment rate	7.2	6.9	7.1	6.9	6.8	6.9	6.6	6.1	5.7	5.8	5.8	6.3	6.1
Not in labor force	38,472	38,598	38,646	38,241	38,577	38,218	38,365	38,297	38,342	38,244	38,081	38,046	37,983
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup>	16,827	16,830	16,828	16,825	16,822	16,806	16,802	16,798	16,794	16,790	16,785	16,782	16,779
Civilian noninstitutional population <sup>1</sup>	16,483	16,485	16,483	16,483	16,480	16,463	16,460	16,457	16,453	16,452	16,449	16,446	16,461
Civilian labor force	9,412	9,313	9,483	9,187	9,348	9,455	9,379	9,359	9,297	9,323	9,404	9,583	9,612
Percent of civilian population	57.1	56.5	57.5	55.7	56.7	57.4	57.0	56.9	56.5	56.7	57.2	58.3	58.4
Employed	7,719	7,700	7,843	7,510	7,728	7,832	7,912	7,860	7,675	7,711	7,815	7,999	8,249
Percent of total population	45.9	45.8	46.6	44.6	45.9	46.6	47.1	46.8	45.7	45.9	46.6	47.7	49.2
Agriculture	404	382	386	383	392	438	434	443	355	393	357	380	413
Nonagricultural industries	7,315	7,318	7,457	7,127	7,336	7,394	7,478	7,417	7,320	7,318	7,458	7,619	7,836
Unemployed	1,693	1,613	1,640	1,677	1,620	1,623	1,467	1,499	1,622	1,612	1,589	1,584	1,363
Unemployment rate	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	16.9	16.5	14.2
Not in labor force	7,071	7,172	7,000	7,296	7,132	7,008	7,081	7,098	7,156	7,129	7,045	6,863	6,849

<sup>1</sup> 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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>FULL TIME</b>													
Total, 16 years and over:													
Civilian labor force	83,328	83,155	83,324	83,229	83,534	83,908	83,996	84,375	84,449	84,537	84,819	84,972	86,062
Employed	77,885	77,754	77,789	77,893	78,147	78,693	79,058	79,484	79,658	79,818	80,261	80,222	81,551
Unemployed	5,443	5,401	5,535	5,336	5,387	5,215	4,938	4,891	4,791	4,719	4,558	4,750	4,511
Unemployment rate	6.5	6.5	6.6	6.4	6.4	6.2	5.9	5.8	5.7	5.6	5.4	5.6	5.2
<b>PART TIME</b>													
Total, 16 years and over:													
Civilian labor force	14,133	14,170	14,432	14,512	14,665	14,900	14,870	14,762	14,705	14,824	14,974	15,153	14,397
Employed	12,644	12,847	13,126	13,105	13,253	13,470	13,541	13,443	13,446	13,402	13,536	13,755	13,130
Unemployed	1,489	1,323	1,306	1,407	1,412	1,430	1,329	1,319	1,259	1,422	1,438	1,398	1,267
Unemployment rate	10.5	9.3	9.0	9.7	9.6	9.6	8.9	8.9	8.6	9.6	9.6	9.2	8.8

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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	
<b>WHITE</b>														
<b>Total, 16 years and over:</b>														
Civilian labor force .....	86,258	85,962	86,298	86,407	86,812	87,292	87,193	87,425	87,360	87,532	87,945	88,209	88,623	
Employed .....	80,816	80,758	81,032	81,203	81,614	82,181	82,391	82,650	82,697	82,880	83,386	83,590	84,270	
Unemployed .....	5,442	5,204	5,266	5,204	5,198	5,111	4,802	4,775	4,663	4,652	4,559	4,619	4,353	
Unemployment rate .....	6.3	6.1	6.1	6.0	6.0	5.9	5.5	5.5	5.3	5.3	5.2	5.2	4.9	
<b>Males, 20 years and over:</b>														
Civilian labor force .....	47,002	46,906	47,003	47,008	47,278	47,417	47,507	47,440	47,441	47,528	47,555	47,670	47,818	
Employed .....	44,869	44,796	44,925	45,033	45,220	45,452	45,592	45,546	45,599	45,643	45,859	45,942	46,175	
Unemployed .....	2,133	2,110	2,078	1,975	2,058	1,965	1,915	1,894	1,842	1,885	1,696	1,728	1,643	
Unemployment rate .....	4.5	4.5	4.4	4.2	4.4	4.1	4.0	4.0	3.9	4.0	3.6	3.6	3.4	
<b>Females, 20 years and over:</b>														
Civilian labor force .....	30,843	30,827	30,844	31,171	31,162	31,445	31,381	31,612	31,615	31,701	31,985	32,027	32,260	
Employed .....	28,852	28,912	28,895	29,244	29,268	29,536	29,545	29,875	30,021	30,149	30,345	30,307	30,540	
Unemployed .....	1,991	1,915	1,949	1,927	1,894	1,909	1,836	1,737	1,594	1,552	1,640	1,720	1,720	
Unemployment rate .....	6.5	6.2	6.3	6.2	6.1	6.1	5.9	5.5	5.0	4.9	5.1	5.4	5.3	
<b>Both sexes, 16 to 19 years:</b>														
Civilian labor force .....	8,413	8,229	8,451	8,228	8,372	8,430	8,305	8,373	8,304	8,303	8,405	8,512	8,545	
Employed .....	7,095	7,050	7,212	6,926	7,126	7,193	7,254	7,229	7,077	7,088	7,182	7,341	7,555	
Unemployed .....	1,318	1,179	1,239	1,302	1,246	1,237	1,051	1,144	1,227	1,215	1,223	1,171	990	
Unemployment rate .....	15.7	14.3	14.7	15.8	14.9	14.7	12.7	13.7	14.8	14.6	14.6	13.8	11.6	
<b>BLACK AND OTHER</b>														
<b>Total, 16 years and over:</b>														
Civilian labor force .....	11,325	11,241	11,375	11,344	11,398	11,551	11,761	11,725	11,785	11,871	11,816	11,934	11,980	
Employed .....	9,834	9,746	9,752	9,854	9,842	9,966	10,271	10,238	10,391	10,402	10,418	10,467	10,553	
Unemployed .....	1,491	1,495	1,623	1,490	1,556	1,585	1,490	1,487	1,394	1,469	1,398	1,467	1,427	
Unemployment rate .....	13.2	13.3	14.3	13.1	13.7	13.7	12.7	12.7	11.8	12.4	11.8	12.3	11.9	
<b>Males, 20 years and over:</b>														
Civilian labor force .....	5,552	5,482	5,500	5,405	5,522	5,541	5,649	5,678	5,662	5,699	5,673	5,743	5,731	
Employed .....	5,020	4,921	4,856	4,837	4,898	4,985	5,137	5,124	5,173	5,216	5,172	5,238	5,283	
Unemployed .....	532	561	644	568	624	556	512	554	489	483	501	505	448	
Unemployment rate .....	9.6	10.2	11.7	10.5	11.3	10.0	9.1	9.8	8.6	8.5	8.8	8.8	7.8	
<b>Females, 20 years and over:</b>														
Civilian labor force .....	4,782	4,763	4,839	4,966	4,883	4,988	5,065	5,051	5,088	5,145	5,128	5,138	5,187	
Employed .....	4,219	4,235	4,268	4,408	4,328	4,358	4,485	4,503	4,576	4,560	4,589	4,580	4,602	
Unemployed .....	563	528	571	558	555	630	580	548	512	585	539	558	585	
Unemployment rate .....	11.8	11.1	11.8	11.2	11.4	12.6	11.5	10.8	10.1	11.4	10.5	10.9	11.3	
<b>Both sexes, 16 to 19 years:</b>														
Civilian labor force .....	991	996	1,036	973	993	1,022	1,047	996	1,035	1,027	1,015	1,053	1,062	
Employed .....	595	590	628	609	616	623	649	611	642	626	657	649	668	
Unemployed .....	396	406	408	364	377	399	398	385	393	401	358	404	394	
Unemployment rate .....	40.0	40.8	39.4	37.4	38.0	39.0	38.0	38.7	38.0	39.0	35.3	38.4	37.1	

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**

**A-36. Major unemployment indicators, seasonally adjusted**

(Unemployment rates)

Selected categories	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	6.0	6.1	5.7
Males, 20 years and over .....	5.1	5.1	5.1	4.7	5.0	4.7	4.6	4.7	4.5	4.5	4.2	4.2	3.9
Females, 20 years and over .....	7.2	6.9	7.1	6.9	6.8	6.9	6.6	6.1	5.7	5.8	5.8	6.3	6.1
Both sexes, 16-19 years .....	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	16.9	16.5	14.2
White .....	6.3	6.1	6.1	6.0	6.0	5.9	5.5	5.5	5.3	5.3	5.2	5.2	4.9
Black and other .....	13.2	13.3	14.3	13.1	13.7	13.7	12.7	12.7	11.8	12.4	11.8	12.3	11.9
Married men, spouse present .....	3.4	3.4	3.5	3.3	3.6	3.3	3.2	2.9	2.9	3.0	2.8	2.9	2.7
Married women, spouse present .....	6.8	6.5	6.5	6.4	6.3	6.5	6.2	5.6	5.2	5.1	5.0	5.9	5.6
Women who head families .....	9.4	9.3	10.0	10.0	9.3	9.3	8.1	7.9	7.6	8.6	10.1	9.3	8.8
Full-time workers .....	6.5	6.5	6.6	6.4	6.4	6.2	5.9	5.8	5.7	5.6	5.4	5.6	5.2
Part-time workers .....	10.5	9.3	9.0	9.7	9.6	9.6	8.9	8.9	8.6	9.6	9.6	9.2	8.8
Unemployed 15 weeks and over <sup>1</sup> .....	1.8	1.9	1.8	1.9	1.9	1.8	1.8	1.7	1.6	1.5	1.4	1.4	1.2
Labor force time lost <sup>2</sup> .....	7.6	7.5	7.6	7.4	7.4	7.3	7.0	6.8	6.6	6.6	6.3	6.6	6.4
<b>OCCUPATION</b>													
White-collar workers .....	4.2	4.1	4.2	4.2	4.1	4.2	4.0	3.6	3.5	3.4	3.5	3.6	3.5
Professional and technical .....	3.0	2.9	3.0	3.0	3.0	2.9	2.8	2.7	2.5	2.6	2.5	2.4	2.4
Managers and administrators, except farm .....	2.7	2.6	2.5	2.5	2.6	3.0	2.5	2.5	1.9	2.3	2.0	2.0	1.8
Sales workers .....	5.3	5.4	5.2	5.1	5.0	4.9	4.7	3.9	4.3	4.3	4.3	4.4	4.4
Clerical workers .....	5.8	5.4	5.8	6.0	5.7	5.7	5.5	5.0	5.0	4.5	5.1	5.3	5.0
Blue-collar workers .....	7.8	8.1	8.3	7.8	8.0	7.6	7.2	7.1	7.1	7.1	6.5	6.6	6.5
Craft and kindred workers .....	5.5	5.5	5.5	5.1	5.4	5.2	5.2	5.4	5.0	5.1	4.3	4.3	4.2
Operatives, except transport .....	9.4	10.1	9.8	9.9	9.8	9.3	8.5	7.9	8.1	8.0	7.6	8.4	7.9
Transport equipment operatives .....	5.9	7.3	7.5	5.7	6.1	5.3	5.6	5.4	5.0	5.2	5.2	5.9	4.6
Nonfarm laborers .....	11.6	10.8	12.4	11.3	11.8	11.9	10.6	11.0	11.5	11.9	10.0	8.7	9.9
Service workers .....	8.3	7.8	8.3	7.9	8.1	7.8	7.8	7.6	7.1	7.7	7.7	7.6	7.2
Farm workers .....	4.8	4.2	4.0	4.7	4.4	4.1	3.9	3.9	4.7	4.7	3.1	3.6	3.0
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	6.9	6.9	7.0	6.8	6.9	6.7	6.3	6.2	6.1	6.0	5.9	5.9	5.6
Construction .....	12.3	11.8	11.4	10.4	12.1	11.2	10.8	11.7	11.5	11.3	9.5	9.2	9.3
Manufacturing .....	6.4	6.7	6.9	7.0	6.8	6.5	5.7	5.6	5.7	5.4	5.3	5.6	5.6
Durable goods .....	5.7	6.1	6.3	6.4	6.1	6.0	5.6	5.2	5.0	4.8	4.4	5.0	4.8
Nondurable goods .....	7.4	7.5	7.7	7.9	7.8	7.2	5.9	6.1	6.5	6.2	6.5	6.4	6.7
Transportation .....	4.3	4.7	4.8	4.8	4.8	4.7	4.9	4.3	3.2	3.7	3.7	3.8	3.7
Wholesale and retail trade .....	8.0	7.9	8.1	7.6	7.9	7.4	7.3	7.1	7.1	7.3	7.2	6.8	6.3
Finance and service industries .....	6.0	5.7	5.7	5.7	5.7	6.0	5.5	5.3	5.1	5.1	5.2	5.3	4.7
Government workers .....	4.2	3.9	4.3	4.1	4.1	4.3	4.3	4.2	3.5	3.7	3.8	4.1	4.0
Agricultural wage and salary workers .....	10.9	10.2	9.8	10.4	10.3	9.3	9.6	9.0	10.1	10.0	7.7	7.7	8.0

<sup>1</sup> Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

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

<sup>3</sup> Includes mining, not shown separately.

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

(Numbers in thousands)

Weeks of unemployment	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>Duration</b>													
Less than 5 weeks .....	3,076	2,820	2,865	2,784	2,804	2,851	2,628	2,700	2,586	2,820	2,790	2,932	2,727
5 to 14 weeks .....	2,050	2,050	2,237	2,152	2,117	2,037	1,937	1,861	1,820	1,877	1,784	1,803	1,916
15 weeks and over .....	1,788	1,824	1,800	1,834	1,848	1,829	1,797	1,688	1,568	1,463	1,384	1,358	1,231
27 weeks and over .....	826	881	933	908	920	936	941	864	897	766	716	680	651
27 weeks and over .....	962	943	867	926	928	893	856	824	671	697	668	678	580
Average (mean) duration, in weeks .....	14.3	14.1	13.7	14.0	13.8	13.7	13.8	13.1	12.5	12.3	12.3	12.1	12.0
Median duration, in weeks .....	6.1	7.2	7.2	6.9	7.1	7.0	7.1	6.6	7.0	6.2	5.8	5.2	5.8
<b>Percent distribution</b>													
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 .....	44.5	42.1	41.5	41.1	41.4	42.4	41.3	43.2	43.3	45.8	46.8	48.1	46.4
5 to 14 weeks .....	29.6	30.6	32.4	31.8	31.3	30.3	30.4	29.8	30.5	30.5	29.9	29.6	32.6
15 weeks and over .....	25.9	27.2	26.1	27.1	27.3	27.2	28.2	27.0	26.2	23.8	23.2	22.3	21.0
15 to 26 weeks .....	11.9	13.2	13.5	13.4	13.6	13.9	14.8	13.8	15.0	12.4	12.0	11.2	11.1
27 weeks and over .....	13.9	14.1	12.6	13.7	13.7	13.3	13.5	13.2	11.2	11.3	11.2	11.1	9.9

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

Sex and age	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>Total, 16 years and over</b>	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	6.0	6.1	5.7
16 to 19 years	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	16.9	16.5	14.2
16 to 17 years	21.2	19.8	20.1	19.8	18.8	19.0	17.8	18.2	20.8	20.4	19.9	19.3	16.7
18 to 19 years	16.3	15.7	15.5	16.7	16.2	15.9	13.7	14.5	15.0	15.2	14.4	14.5	12.9
20 to 24 years	10.7	10.7	11.2	10.7	10.4	10.4	10.2	10.5	10.1	10.3	10.0	9.0	9.2
25 years and over	5.0	4.9	4.9	4.7	4.9	4.7	4.4	4.2	3.9	4.0	3.9	4.2	3.9
25 to 54 years	5.2	5.1	5.2	4.8	5.1	4.8	4.6	4.3	4.1	4.2	4.1	4.5	4.1
55 years and over	3.8	3.9	3.9	4.1	4.2	4.1	4.0	3.5	3.3	3.1	3.2	3.2	3.1
<b>Males, 16 years and over</b>	6.2	6.1	6.1	5.9	6.0	5.8	5.5	5.6	5.6	5.6	5.2	5.1	4.7
16 to 19 years	17.5	16.9	17.4	17.7	16.7	16.4	15.3	14.9	17.2	17.1	16.6	15.3	12.6
16 to 17 years	22.4	20.0	20.8	19.2	18.6	18.2	16.7	17.2	21.1	21.0	19.9	18.4	16.1
18 to 19 years	15.3	14.8	14.9	15.8	15.1	15.0	13.9	13.4	14.3	14.3	13.4	12.9	11.3
20 to 24 years	10.3	10.6	11.4	10.4	9.9	9.8	9.8	10.5	10.3	10.1	9.1	7.9	8.1
25 years and over	4.1	4.2	4.1	3.9	4.3	3.8	3.6	3.5	3.4	3.5	3.3	3.5	3.1
25 to 54 years	4.3	4.3	4.3	3.8	4.3	3.9	3.6	3.6	3.4	3.5	3.3	3.6	3.2
55 years and over	3.3	3.7	3.5	3.9	4.1	3.7	3.7	3.2	3.2	3.2	3.3	3.3	3.0
<b>Females, 16 years and over</b>	8.4	8.1	8.2	8.2	8.0	8.1	7.6	7.3	6.9	7.0	7.0	7.5	7.2
16 to 19 years	18.5	17.8	17.2	18.9	18.0	18.1	16.1	17.4	17.7	17.5	17.2	17.9	16.0
16 to 17 years	19.8	19.6	19.3	20.6	19.1	20.1	19.2	19.5	20.4	19.6	19.9	20.3	17.4
18 to 19 years	17.5	16.6	16.2	17.7	17.4	16.8	13.5	15.8	15.7	16.1	15.6	16.1	14.8
20 to 24 years	11.2	10.9	11.0	11.0	11.0	11.1	10.8	10.5	9.8	10.4	11.0	10.3	10.4
25 years and over	6.2	6.2	6.2	6.0	5.8	6.0	5.7	5.2	4.7	4.7	4.8	5.3	5.2
25 to 54 years	6.6	6.4	6.5	6.4	6.2	6.3	6.0	5.5	5.1	5.2	5.2	5.8	5.6
55 years and over	4.5	4.4	4.5	4.5	4.5	4.8	4.4	3.8	3.3	3.0	3.0	3.1	3.1

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

[Numbers in thousands]

Reason for unemployment	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>NUMBER OF UNEMPLOYED</b>													
Job losers	2,972	3,042	3,197	3,055	3,035	2,969	2,748	2,698	2,540	2,493	2,475	2,577	2,340
On layoff	822	879	963	847	840	780	687	687	768	709	660	593	606
Other job losers	2,150	2,163	2,234	2,208	2,195	2,189	2,061	1,930	1,831	1,833	1,882	1,894	1,734
Job leavers	938	842	891	869	876	881	877	856	898	862	872	819	849
Reentrants	1,917	1,860	1,872	1,879	1,906	1,891	1,886	1,821	1,796	1,911	1,734	1,772	1,760
New entrants	1,087	973	947	935	857	901	820	914	868	923	925	901	810
<b>PERCENT DISTRIBUTION</b>													
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	43.0	45.3	46.3	45.3	45.5	44.7	43.4	42.9	41.6	40.3	41.2	42.5	40.6
On layoff	11.9	13.1	13.9	12.6	12.6	11.7	10.9	12.2	11.6	10.7	9.9	11.3	10.5
Other job losers	31.1	32.2	32.3	32.8	32.9	33.0	32.6	30.7	30.0	29.6	31.3	31.2	30.1
Job leavers	13.6	12.5	12.9	12.9	13.1	13.3	13.9	13.6	14.7	13.9	14.5	13.5	14.7
Reentrants	27.7	27.7	27.1	27.9	28.6	28.5	29.8	29.0	29.4	30.9	28.9	29.2	30.6
New entrants	15.7	14.5	13.7	13.9	12.8	13.6	13.0	14.5	14.2	14.9	15.4	14.8	14.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers	3.0	3.1	3.3	3.1	3.1	3.0	2.8	2.7	2.6	2.5	2.5	2.6	2.3
Job leavers	1.0	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.8	.8
Reentrants	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.7	1.8	1.7
New entrants	1.1	1.0	1.0	1.0	.9	.9	.8	.9	.9	.9	.9	.9	.8

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>Total, 16 years and over</b> .....	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	93,801	94,112	94,819
16 to 19 years .....	7,719	7,700	7,843	7,510	7,728	7,832	7,912	7,860	7,675	7,711	7,815	7,999	8,249
16 to 17 years .....	3,073	3,074	3,146	3,119	3,170	3,215	3,237	3,213	3,133	3,126	3,213	3,313	3,380
18 to 19 years .....	4,605	4,551	4,666	4,445	4,563	4,610	4,664	4,657	4,585	4,575	4,636	4,678	4,832
20 to 24 years .....	12,904	12,879	12,866	13,023	13,018	13,055	13,139	13,183	13,201	13,220	13,403	13,473	13,596
25 years and over .....	70,004	70,039	70,006	70,559	70,691	71,309	71,551	71,914	72,176	72,315	72,561	72,580	72,954
25 to 54 years .....	56,329	56,403	56,465	56,770	56,831	57,255	57,530	57,910	58,222	58,325	58,477	58,388	58,723
55 years and over .....	13,694	13,606	13,620	13,759	13,905	14,006	14,039	14,003	13,984	13,984	14,108	14,099	14,268
<b>Males, 16 years and over</b> .....	54,006	53,901	53,942	53,964	54,341	54,745	55,012	54,975	54,897	55,013	55,208	55,446	55,869
16 to 19 years .....	4,156	4,173	4,155	4,076	4,223	4,286	4,324	4,302	4,138	4,180	4,170	4,264	4,436
16 to 17 years .....	1,654	1,687	1,728	1,721	1,767	1,809	1,825	1,788	1,709	1,746	1,727	1,800	1,820
18 to 19 years .....	2,462	2,438	2,421	2,392	2,455	2,473	2,492	2,514	2,461	2,436	2,483	2,447	2,580
20 to 24 years .....	7,048	7,041	7,037	7,057	7,139	7,142	7,172	7,135	7,139	7,207	7,324	7,381	7,406
25 years and over .....	42,785	42,679	42,687	42,843	43,004	43,320	43,530	43,557	43,649	43,611	43,708	43,781	44,024
25 to 54 years .....	34,177	34,135	34,184	34,336	34,394	34,617	34,828	34,931	34,996	34,982	35,060	35,051	35,162
55 years and over .....	8,588	8,535	8,515	8,500	8,633	8,698	8,734	8,649	8,637	8,653	8,663	8,702	8,835
<b>Females, 16 years and over</b> .....	36,642	36,687	36,851	37,124	37,042	37,469	37,597	37,906	38,106	38,253	38,593	38,666	38,950
16 to 19 years .....	3,563	3,527	3,688	3,434	3,505	3,546	3,588	3,558	3,537	3,531	3,645	3,735	3,813
16 to 17 years .....	1,419	1,387	1,418	1,398	1,403	1,406	1,412	1,425	1,424	1,380	1,486	1,513	1,560
18 to 19 years .....	2,143	2,113	2,245	2,053	2,108	2,137	2,172	2,143	2,124	2,139	2,153	2,231	2,252
20 to 24 years .....	5,856	5,838	5,829	5,966	5,879	5,913	5,967	6,048	6,062	6,013	6,079	6,092	6,190
25 years and over .....	27,219	27,360	27,319	27,716	27,687	27,989	28,021	28,357	28,527	28,704	28,853	28,799	28,930
25 to 54 years .....	22,152	22,268	22,281	22,434	22,437	22,638	22,702	22,979	23,226	23,343	23,417	23,337	23,561
55 years and over .....	5,106	5,071	5,105	5,259	5,272	5,308	5,305	5,354	5,347	5,331	5,445	5,397	5,433

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

[In thousands]

Sex and age	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>Total, 16 years and over</b> .....	6,904	6,719	6,821	6,668	6,688	6,663	6,310	6,226	6,090	6,148	5,983	6,149	5,754
16 to 19 years .....	1,693	1,613	1,640	1,677	1,620	1,623	1,467	1,499	1,622	1,612	1,589	1,584	1,363
16 to 17 years .....	828	760	792	771	736	756	701	717	821	799	798	792	678
18 to 19 years .....	898	847	858	892	879	871	740	791	806	817	782	793	718
20 to 24 years .....	1,547	1,545	1,620	1,553	1,515	1,519	1,499	1,547	1,477	1,513	1,488	1,332	1,373
25 years and over .....	3,655	3,643	3,621	3,502	3,641	3,493	3,319	3,155	2,941	2,987	2,933	3,195	2,997
25 to 54 years .....	3,099	3,032	3,074	2,887	3,037	2,909	2,772	2,632	2,476	2,561	2,490	2,745	2,538
55 years and over .....	538	557	555	588	615	605	585	503	470	449	463	467	449
<b>Males, 16 years and over</b> .....	3,543	3,498	3,533	3,354	3,469	3,352	3,213	3,232	3,245	3,271	3,056	3,001	2,728
16 to 19 years .....	882	851	875	876	848	840	779	752	862	862	831	769	639
16 to 17 years .....	477	422	453	408	404	403	365	371	457	463	429	406	350
18 to 19 years .....	444	425	424	450	435	438	401	389	410	408	384	364	328
20 to 24 years .....	810	834	902	819	788	777	775	840	816	812	736	632	657
25 years and over .....	1,846	1,849	1,829	1,724	1,929	1,714	1,640	1,601	1,519	1,562	1,491	1,589	1,424
25 to 54 years .....	1,541	1,519	1,518	1,360	1,556	1,392	1,315	1,297	1,238	1,283	1,196	1,297	1,144
55 years and over .....	296	325	312	342	369	337	339	289	285	284	297	295	275
<b>Females, 16 years and over</b> .....	3,361	3,221	3,288	3,314	3,219	3,311	3,097	2,994	2,845	2,877	2,927	3,148	3,026
16 to 19 years .....	811	762	765	801	772	783	688	747	760	750	758	815	724
16 to 17 years .....	351	338	339	363	332	353	336	346	364	336	369	386	328
18 to 19 years .....	454	422	434	442	444	433	339	402	396	409	398	429	390
20 to 24 years .....	737	711	718	734	727	742	724	707	661	701	752	700	716
25 years and over .....	1,809	1,794	1,792	1,778	1,712	1,779	1,679	1,554	1,422	1,425	1,442	1,606	1,573
25 to 54 years .....	1,558	1,513	1,556	1,527	1,481	1,517	1,457	1,335	1,238	1,278	1,294	1,448	1,394
55 years and over .....	242	232	243	246	246	268	246	214	185	165	166	172	174



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>CHARACTERISTICS</b>													
Total, 16 years and over .....	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	93,801	94,112	94,819
Married men, spouse present .....	38,565	38,380	38,292	38,338	38,425	38,531	38,682	38,645	38,666	38,465	38,628	38,626	38,711
Married women, spouse present .....	20,825	20,824	20,810	21,185	21,119	21,278	21,416	21,638	21,738	21,674	21,847	21,694	21,718
<b>OCCUPATION</b>													
White-collar workers .....	44,840	45,057	45,198	45,493	46,083	46,251	46,316	46,547	46,555	46,835	46,789	46,895	47,209
Professional and technical Managers and administrators, except farm .....	13,648	13,758	13,706	13,778	14,042	13,918	13,981	14,057	14,016	14,060	14,158	14,399	14,365
Sales workers .....	9,577	9,614	9,699	9,747	9,911	9,894	9,939	10,067	10,134	10,169	10,212	9,933	10,107
Clerical workers .....	5,682	5,715	5,726	5,741	5,718	5,804	5,796	5,913	5,811	5,985	5,861	5,911	5,931
Blue-collar workers .....	15,933	15,970	16,067	16,227	16,412	16,635	16,600	16,510	16,594	16,621	16,558	16,652	16,806
Craft and kindred workers .....	30,301	30,086	30,229	30,324	30,247	30,603	30,807	30,942	31,198	31,039	31,655	31,544	31,683
Operatives, except transport Transport equipment operatives .....	11,887	11,884	11,903	11,992	11,860	12,116	12,153	12,111	12,220	12,169	12,302	12,218	12,467
Nonfarm laborers .....	10,364	10,285	10,295	10,239	10,320	10,423	10,424	10,755	10,738	10,766	10,974	10,846	11,006
Service workers .....	3,495	3,413	3,453	3,533	3,457	3,525	3,555	3,432	3,643	3,541	3,560	3,534	3,512
Farm workers .....	4,555	4,504	4,578	4,560	4,610	4,539	4,675	4,644	4,597	4,563	4,819	4,946	4,698
Service workers .....	12,660	12,426	12,520	12,556	12,473	12,590	12,617	12,704	12,703	12,572	12,830	12,883	12,993
Farm workers .....	2,815	2,725	2,741	2,695	2,755	2,809	2,805	2,872	2,769	2,788	2,687	2,698	2,895
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,382	1,276	1,314	1,339	1,387	1,405	1,405	1,387	1,345	1,389	1,408	1,434	1,482
Self-employed workers .....	1,578	1,552	1,578	1,572	1,577	1,590	1,605	1,604	1,587	1,527	1,539	1,573	1,669
Unpaid family workers .....	373	357	318	272	305	368	346	342	314	389	283	255	336
Nonagricultural industries:													
Wage and salary workers .....	80,704	80,773	80,918	81,363	81,727	82,281	82,692	82,915	83,078	83,124	83,648	84,049	84,513
Government .....	15,003	15,130	15,210	15,304	15,463	15,415	15,422	15,267	15,237	15,154	15,305	15,203	15,224
Private industries .....	65,701	65,643	65,708	66,059	66,264	66,866	67,270	67,648	67,841	67,970	68,343	68,846	69,289
Private households .....	1,375	1,419	1,388	1,403	1,358	1,403	1,436	1,421	1,383	1,293	1,388	1,393	1,368
Other industries .....	64,326	64,224	64,320	64,656	64,906	65,463	65,834	66,227	66,458	66,677	66,955	67,453	67,921
Self-employed workers .....	6,005	5,899	6,140	6,084	6,080	6,082	6,182	6,259	6,268	6,427	6,467	6,288	6,198
Unpaid family workers .....	520	527	483	505	460	467	442	439	488	500	506	520	468
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	81,714	82,479	82,642	82,783	82,788	83,347	83,662	83,304	84,054	84,285	86,043	85,528	86,051
Full-time schedules .....	67,172	67,693	67,839	67,817	67,827	68,240	68,574	68,812	69,215	69,417	70,550	70,157	70,861
Part-time for economic reasons .....	3,390	3,464	3,253	3,306	3,263	3,285	3,220	2,986	3,193	3,164	3,327	3,243	3,458
Usually work full time .....	1,327	1,446	1,220	1,244	1,237	1,255	1,247	1,043	1,128	1,226	1,224	1,211	1,433
Usually work part time .....	2,063	2,018	2,033	2,062	2,026	2,030	1,973	1,943	2,065	1,938	2,103	2,032	2,025
Part time for noneconomic reasons .....	11,152	11,322	11,550	11,660	11,698	11,822	11,868	11,506	11,646	11,704	12,166	12,128	11,732

<sup>1</sup> 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					
	June 1977	May 1978	June 1978	June 1977	Feb. 1978	Mar. 1978	Apr. 1978	May 1978	June 1978
<b>VETERANS<sup>1</sup></b>									
<b>Total, 20 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	6,819	6,528	6,505	6,819	6,595	6,572	6,551	6,528	6,505
Civilian labor force	6,532	6,159	6,214	6,504	6,272	6,295	6,247	6,160	6,191
Employed	6,046	5,920	5,951	6,012	5,944	5,978	5,968	5,912	5,923
Unemployed	486	239	263	492	328	317	279	248	268
Unemployment rate	7.4	3.9	4.2	7.6	5.2	5.0	4.5	4.0	4.3
<b>20 to 24 years:</b>									
Civilian noninstitutional population <sup>2</sup>	1,058	784	768	1,058	829	813	800	784	768
Civilian labor force	953	685	696	938	736	725	723	681	684
Employed	785	642	631	772	644	629	646	634	620
Unemployed	168	43	65	166	92	96	77	47	64
Unemployment rate	17.6	6.3	9.3	17.7	12.5	13.2	10.7	6.9	9.4
<b>25 to 29 years:</b>									
Civilian noninstitutional population <sup>2</sup>	3,062	2,417	2,377	3,062	2,540	2,499	2,458	2,417	2,377
Civilian labor force	2,936	2,276	2,273	2,921	2,398	2,371	2,332	2,281	2,262
Employed	2,729	2,155	2,154	2,714	2,268	2,261	2,228	2,155	2,143
Unemployed	207	121	119	207	130	110	104	126	119
Unemployment rate	7.1	5.3	5.2	7.1	5.4	4.6	4.5	5.5	5.3
<b>30 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	2,699	3,327	3,360	2,699	3,226	3,260	3,293	3,327	3,360
Civilian labor force	2,643	3,198	3,245	2,645	3,138	3,199	3,192	3,198	3,245
Employed	2,532	3,123	3,166	2,526	3,032	3,088	3,094	3,123	3,160
Unemployed	111	75	79	119	106	111	98	75	85
Unemployment rate	4.2	2.3	2.4	4.5	3.4	3.5	3.1	2.3	2.6
<b>35 to 39 years:</b>									
Civilian noninstitutional population <sup>2</sup>	613	1,081	1,104	613	988	1,010	1,041	1,081	1,104
Civilian labor force	586	1,048	1,066	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	567	1,014	1,035	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	19	34	31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	3.2	3.2	2.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>NONVETERANS</b>									
<b>Total, 20 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	17,556	18,387	18,459	17,556	18,162	18,234	18,308	18,387	18,459
Civilian labor force	16,294	16,593	17,164	15,864	16,527	16,566	16,655	16,687	16,714
Employed	15,132	15,664	16,204	14,739	15,412	15,430	15,569	15,710	15,789
Unemployed	1,162	929	960	1,125	1,115	1,136	1,086	977	925
Unemployment rate	7.1	5.6	5.6	7.1	6.7	6.9	6.5	5.9	5.5
<b>20 to 24 years:</b>									
Civilian noninstitutional population <sup>2</sup>	8,133	8,381	8,398	8,133	8,308	8,334	8,356	8,381	8,398
Civilian labor force	7,327	7,067 <sup>c</sup>	7,600	6,914	7,105	7,162	7,182	7,148	7,176
Employed	6,614	6,530	6,975	6,270	6,413	6,482	6,550	6,596	6,611
Unemployed	713	537	625	644	692	680	632	552	565
Unemployment rate	9.7	7.6	8.2	9.3	9.7	9.5	8.8	7.7	7.9
<b>25 to 29 years:</b>									
Civilian noninstitutional population <sup>2</sup>	5,276	6,015	6,069	5,276	5,860	5,910	5,962	6,015	6,069
Civilian labor force	5,017	5,672	5,753	5,000	5,600	5,582	5,642	5,679	5,729
Employed	4,712	5,420	5,544	4,682	5,322	5,260	5,298	5,404	5,511
Unemployed	305	252	209	318	278	322	344	275	218
Unemployment rate	6.1	4.4	3.6	6.4	5.0	5.8	6.1	4.8	3.8
<b>30 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	4,147	3,991	3,992	4,147	3,994	3,990	3,990	3,991	3,992
Civilian labor force	3,950	3,854	3,811	3,950	3,822	3,822	3,831	3,860	3,809
Employed	3,806	3,714	3,685	3,787	3,677	3,688	3,721	3,710	3,667
Unemployed	144	140	126	163	145	134	110	150	142
Unemployment rate	3.6	3.6	3.3	4.1	3.8	3.5	2.9	3.9	3.7
<b>35 to 39 years:</b>									
Civilian noninstitutional population <sup>2</sup>	3,502	3,559	3,605	3,502	3,529	3,546	3,566	3,559	3,605
Civilian labor force	3,337	3,418	3,465	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	3,228	3,309	3,371	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	109	109	94	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	3.3	3.2	2.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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

<sup>2</sup> Since seasonal variations are not present in the population figures, identical numbers appear in the unadjusted and seasonally adjusted columns.

N.A. = not available.

<sup>c</sup>corrected.

# HOUSEHOLD DATA SEASONALLY ADJUSTED QUARTERLY AVERAGES

## A-44. Employment status of the noninstitutional population by sex, age, and race, seasonally adjusted

[Numbers in thousands]

Employment status	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	153,056	153,820	154,477	155,115	155,717	156,368	156,990	157,582	158,223	158,898	159,531	160,126	160,715
Armed Forces <sup>1</sup> .....	2,185	2,180	2,159	2,144	2,141	2,144	2,147	2,136	2,130	2,135	2,132	2,122	2,110
Civilian noninstitutional population <sup>1</sup> .....	150,872	151,640	152,319	152,971	153,576	154,224	154,843	155,446	156,094	156,764	157,399	158,004	158,605
Civilian labor force.....	92,496	92,896	93,050	93,782	94,503	95,158	95,625	96,221	97,153	97,559	98,622	99,205	100,206
Percent of civilian population.....	61.3	61.3	61.1	61.3	61.5	61.7	61.8	61.9	62.2	62.2	62.7	62.8	63.2
Employed.....	84,305	84,999	85,321	86,558	87,392	87,795	88,182	89,059	90,264	90,823	92,069	93,050	94,244
Percent of total population.....	55.1	55.3	55.2	55.8	56.1	56.1	56.2	56.5	57.0	57.2	57.7	58.1	58.6
Agriculture.....	3,377	3,442	3,308	3,289	3,328	3,314	3,256	3,155	3,307	3,210	3,308	3,302	3,328
Nonagricultural industries.....	80,927	81,557	82,014	83,268	84,064	84,481	84,926	85,905	86,957	87,613	88,761	89,748	90,916
Unemployed.....	8,191	7,898	7,729	7,224	7,111	7,363	7,443	7,161	6,889	6,736	6,554	6,155	5,962
Unemployment rate.....	8.9	8.5	8.3	7.7	7.5	7.7	7.8	7.4	7.1	6.9	6.6	6.2	5.9
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	64,904	65,238	65,543	65,827	66,090	66,385	66,711	67,023	67,321	67,641	67,951	68,238	68,520
Civilian noninstitutional population <sup>1</sup> .....	63,181	63,510	63,828	64,139	64,400	64,690	65,014	65,338	65,635	65,949	66,261	66,556	66,844
Civilian labor force.....	50,841	50,988	50,955	51,121	51,423	51,917	52,140	52,310	52,395	52,944	53,179	53,400	53,400
Percent of civilian population.....	80.5	80.3	79.8	79.7	79.8	79.8	79.9	79.8	79.7	79.4	79.9	79.9	79.9
Employed.....	47,224	47,495	47,558	48,087	48,455	48,595	48,791	49,147	49,591	49,801	50,422	50,755	51,218
Percent of total population.....	72.8	72.8	72.6	73.1	73.3	73.2	73.1	73.3	73.7	73.6	74.2	74.4	74.7
Agriculture.....	2,418	2,436	2,378	2,361	2,405	2,369	2,295	2,247	2,333	2,314	2,334	2,322	2,353
Nonagricultural industries.....	44,805	45,059	45,180	45,726	46,050	46,226	46,497	46,899	47,259	47,487	48,088	48,433	48,864
Unemployed.....	3,617	3,493	3,397	3,034	2,968	3,026	3,125	2,994	2,719	2,594	2,522	2,424	2,182
Unemployment rate.....	7.1	6.8	6.7	5.9	5.8	5.9	6.0	5.7	5.2	5.0	4.8	4.6	4.1
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	71,531	71,904	72,214	72,535	72,839	73,169	73,468	73,746	74,079	74,429	74,770	75,094	75,413
Civilian noninstitutional population <sup>1</sup> .....	71,465	71,831	72,140	72,456	72,754	73,080	73,378	73,653	73,984	74,331	74,671	74,994	75,310
Civilian labor force.....	32,891	33,086	33,312	33,770	34,096	34,501	34,729	35,037	35,589	35,836	36,284	36,699	37,273
Percent of civilian population.....	46.0	46.1	46.2	46.6	46.9	47.2	47.3	47.6	48.1	48.2	48.6	48.9	49.5
Employed.....	30,094	30,474	30,701	31,281	31,638	31,869	32,130	32,549	33,094	33,338	33,823	34,546	35,005
Percent of total population.....	42.1	42.4	42.5	43.1	43.4	43.6	43.7	44.1	44.7	44.8	45.2	46.0	46.4
Unemployed.....	2,797	2,612	2,611	2,489	2,458	2,633	2,599	2,488	2,495	2,498	2,461	2,153	2,268
Unemployment rate.....	8.5	7.9	7.8	7.4	7.2	7.6	7.5	7.1	7.0	7.0	6.8	5.9	6.1
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,621	16,679	16,720	16,754	16,788	16,815	16,811	16,813	16,823	16,828	16,810	16,794	16,782
Civilian noninstitutional population <sup>1</sup> .....	16,226	16,298	16,351	16,376	16,422	16,454	16,451	16,454	16,475	16,484	16,468	16,454	16,452
Civilian labor force.....	8,764	8,822	8,783	8,890	8,984	9,035	8,979	9,044	9,253	9,328	9,394	9,326	9,533
Percent of civilian population.....	54.0	54.1	53.7	54.3	54.7	54.6	54.6	55.0	56.2	56.6	57.0	56.7	57.9
Employed.....	6,987	7,029	7,063	7,190	7,300	7,331	7,260	7,364	7,579	7,684	7,824	7,749	8,021
Percent of total population.....	42.0	42.1	42.2	42.9	43.5	43.6	43.2	43.8	45.0	45.7	46.5	46.1	47.8
Unemployed.....	1,777	1,793	1,720	1,701	1,685	1,704	1,718	1,680	1,675	1,643	1,570	1,578	1,512
Unemployment rate.....	20.3	20.3	19.6	19.1	18.8	18.9	19.1	18.6	18.1	17.6	16.7	16.9	15.9
<b>White</b>													
Total noninstitutional population <sup>1</sup> .....	135,046	135,585	136,104	136,611	137,087	137,602	138,105	138,574	139,084	139,620	140,107	140,568	141,028
Civilian noninstitutional population <sup>1</sup> .....	133,219	133,764	134,301	134,822	135,303	135,823	136,326	136,812	137,333	137,870	138,364	138,839	139,323
Civilian labor force.....	82,023	82,365	82,444	82,983	83,613	84,281	84,629	85,113	85,927	86,222	87,099	87,439	88,259
Percent of civilian population.....	61.6	61.6	61.4	61.5	61.8	62.1	62.1	62.2	62.6	62.5	62.9	63.0	63.3
Employed.....	75,334	75,903	76,154	77,206	77,923	78,305	78,635	79,403	80,492	80,998	82,062	82,742	83,749
Percent of total population.....	55.8	56.0	56.0	56.5	56.8	56.9	56.9	57.3	57.9	58.0	58.6	58.9	59.4
Unemployed.....	6,690	6,462	6,290	5,777	5,698	5,976	5,994	5,710	5,435	5,225	5,037	4,697	4,510
Unemployment rate.....	8.2	7.8	7.6	7.0	6.8	7.1	7.1	6.7	6.3	6.1	5.8	5.4	5.1
<b>Black and other</b>													
Total noninstitutional population <sup>1</sup> .....	18,010	18,235	18,374	18,504	18,631	18,766	18,885	19,008	19,139	19,279	19,424	19,557	19,687
Civilian noninstitutional population <sup>1</sup> .....	17,652	17,876	18,017	18,148	18,273	18,401	18,517	18,634	18,761	18,894	19,035	19,164	19,282
Civilian labor force.....	10,456	10,608	10,658	10,773	10,854	10,904	11,047	11,109	11,195	11,320	11,570	11,794	11,910
Percent of civilian population.....	59.2	59.3	59.2	59.4	59.4	59.7	59.7	59.6	59.9	59.9	60.8	61.5	61.8
Employed.....	8,974	9,115	9,187	9,353	9,452	9,478	9,570	9,681	9,764	9,784	10,026	10,344	10,479
Percent of total population.....	49.8	50.0	50.0	50.5	50.7	50.5	50.7	50.9	51.0	51.6	52.9	53.2	53.2
Unemployed.....	1,482	1,493	1,471	1,421	1,402	1,427	1,477	1,428	1,432	1,536	1,544	1,450	1,431
Unemployment rate.....	14.2	14.1	13.8	13.2	12.9	13.1	13.4	12.9	12.8	13.6	13.3	12.3	12.0

<sup>1</sup> The population and Armed Forces figures are not adjusted for seasonal variations.

NOTE: Detail for the household data shown in tables A-44 through A-53 and A-67 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-45. Full- and part-time status of the civilian labor force by sex and age, seasonally adjusted**

[Numbers in thousands]

Full- and part-time employment status, sex, and age	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>FULL TIME</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force .....	78,975	79,211	79,615	80,087	80,601	81,020	81,616	81,971	82,734	83,236	83,813	84,454	85,284
Employed <sup>1</sup> .....	72,199	72,658	73,248	74,296	74,867	75,063	75,585	76,347	77,294	77,812	78,633	79,653	80,678
Unemployed .....	6,776	6,552	6,367	5,791	5,734	5,957	6,031	5,623	5,440	5,424	5,180	4,800	4,606
Unemployment rate .....	8.6	8.3	8.0	7.2	7.1	7.4	7.4	6.9	6.6	6.5	6.2	5.7	5.4
<b>Males, 20 years and over:</b>													
Civilian labor force .....	48,219	48,455	48,493	48,535	48,811	49,156	49,342	49,409	49,608	49,764	50,196	50,410	50,642
Employed <sup>1</sup> .....	44,846	45,108	45,286	45,790	46,080	46,270	46,416	46,710	47,115	47,307	47,870	48,230	48,643
Unemployed .....	3,372	3,348	3,207	2,745	2,731	2,886	2,926	2,699	2,493	2,457	2,326	2,180	2,000
Unemployment rate .....	7.0	6.9	6.6	5.7	5.6	5.9	5.9	5.5	5.0	4.9	4.6	4.3	3.9
<b>Females, 20 years and over:</b>													
Civilian labor force .....	25,875	25,953	26,327	26,649	26,891	27,019	27,388	27,625	28,023	28,339	28,526	29,013	29,344
Employed <sup>1</sup> .....	23,568	23,817	24,173	24,602	24,897	24,913	25,267	25,646	26,021	26,289	26,548	27,263	27,557
Unemployed .....	2,306	2,137	2,154	2,046	1,994	2,106	2,122	1,979	2,003	2,050	1,978	1,750	1,787
Unemployment rate .....	8.9	8.2	8.2	7.7	7.4	7.8	7.7	7.2	7.1	7.2	6.9	6.0	6.1
<b>Both sexes, 16-19 years:</b>													
Civilian labor force .....	4,882	4,802	4,795	4,903	4,898	4,846	4,885	4,937	5,103	5,133	5,091	5,031	5,298
Employed <sup>1</sup> .....	3,784	3,734	3,789	3,904	3,889	3,880	3,902	3,991	4,159	4,216	4,214	4,160	4,478
Unemployed .....	1,097	1,068	1,006	999	1,009	966	983	946	944	917	876	870	820
Unemployment rate .....	22.5	22.2	21.0	20.4	20.6	19.9	20.1	19.2	18.5	17.9	17.2	17.3	15.5
<b>PART TIME</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force .....	13,503	13,806	13,493	13,689	13,870	14,232	14,042	14,259	14,361	14,371	14,812	14,764	14,841
Employed <sup>1</sup> .....	12,097	12,400	12,089	12,294	12,492	12,780	12,609	12,755	12,905	13,026	13,421	13,430	13,474
Unemployed .....	1,406	1,406	1,404	1,394	1,378	1,452	1,433	1,504	1,455	1,345	1,390	1,333	1,368
Unemployment rate .....	10.4	10.2	10.4	10.2	9.9	10.2	10.2	10.5	10.1	9.4	9.4	9.0	9.2
<b>Males, 20 years and over:</b>													
Civilian labor force .....	2,595	2,642	2,509	2,535	2,587	2,546	2,603	2,688	2,669	2,704	2,768	2,744	2,726
Employed <sup>1</sup> .....	2,360	2,412	2,281	2,308	2,350	2,331	2,385	2,452	2,439	2,507	2,558	2,546	2,541
Unemployed .....	235	230	228	228	238	215	218	236	229	197	210	198	185
Unemployment rate .....	9.1	8.7	9.1	9.0	9.2	8.4	8.4	8.8	8.6	7.3	7.6	7.2	6.8
<b>Females, 20 years and over:</b>													
Civilian labor force .....	6,988	7,133	6,999	7,170	7,170	7,471	7,349	7,456	7,535	7,467	7,768	7,733	7,895
Employed <sup>1</sup> .....	6,505	6,665	6,533	6,720	6,711	6,955	6,864	6,941	7,045	7,026	7,276	7,324	7,411
Unemployed .....	483	468	467	450	459	516	485	516	490	441	491	409	484
Unemployment rate .....	6.9	6.6	6.7	6.3	6.4	6.9	6.6	6.9	6.5	5.9	6.3	5.3	6.1
<b>Both sexes, 16-19 years:</b>													
Civilian labor force .....	3,920	4,031	3,985	3,983	4,113	4,215	4,090	4,115	4,157	4,201	4,276	4,287	4,220
Employed <sup>1</sup> .....	3,232	3,323	3,276	3,267	3,432	3,494	3,360	3,362	3,421	3,494	3,587	3,561	3,522
Unemployed .....	688	709	709	717	681	721	730	752	736	707	689	726	698
Unemployment rate .....	17.6	17.6	17.8	18.0	16.6	17.1	17.8	18.3	17.7	16.8	16.1	16.9	16.5

<sup>1</sup> 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  
QUARTERLY AVERAGES**

**A-46. Employment status by race, sex, and age, seasonally adjusted**

(Numbers in thousands)

Characteristics	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>WHITE</b>													
Total, 16 years and over:													
Civilian labor force .....	82,023	82,365	82,444	82,983	83,613	84,281	84,629	85,113	85,927	86,222	87,099	87,439	88,259
Employed .....	75,334	75,903	76,154	77,206	77,923	78,305	78,635	79,403	80,492	80,998	82,062	82,742	83,749
Unemployed .....	6,690	6,462	6,290	5,777	5,690	5,976	5,994	5,710	5,435	5,225	5,037	4,697	4,510
Unemployment rate .....	8.2	7.8	7.6	7.0	6.8	7.1	7.1	6.7	6.3	6.1	5.8	5.4	5.1
Males, 20 years and over:													
Civilian labor force .....	45,655	45,764	45,699	45,801	46,078	46,326	46,514	46,586	46,813	46,972	47,401	47,470	47,681
Employed .....	42,672	42,836	42,908	43,389	43,664	43,783	43,967	44,189	44,619	44,918	45,421	45,596	45,992
Unemployed .....	2,983	2,928	2,791	2,412	2,414	2,543	2,547	2,396	2,194	2,054	1,979	1,874	1,689
Unemployment rate .....	6.5	6.4	6.1	5.3	5.2	5.5	5.5	5.1	4.7	4.4	4.2	3.9	3.5
Females, 20 years and over:													
Civilian labor force .....	28,546	28,698	28,903	29,239	29,477	29,846	30,066	30,355	30,777	30,947	31,329	31,643	32,091
Employed .....	26,271	26,612	26,784	27,246	27,528	27,764	27,995	28,397	28,864	29,017	29,450	30,015	30,397
Unemployed .....	2,275	2,085	2,119	1,992	1,949	2,082	2,071	1,958	1,914	1,930	1,880	1,628	1,693
Unemployment rate .....	8.0	7.3	7.3	6.8	6.6	7.0	6.9	6.4	6.2	6.2	6.0	5.1	5.3
Both sexes, 16 to 19 years:													
Civilian labor force .....	7,823	7,904	7,842	7,943	8,057	8,109	8,049	8,172	8,337	8,303	8,369	8,327	8,487
Employed .....	6,391	6,455	6,462	6,571	6,731	6,758	6,673	6,816	7,009	7,063	7,191	7,131	7,359
Unemployed .....	1,431	1,449	1,380	1,373	1,327	1,351	1,376	1,356	1,327	1,240	1,178	1,195	1,128
Unemployment rate .....	18.3	18.3	17.6	17.3	16.5	16.7	17.1	16.6	15.9	14.9	14.1	14.4	13.3
<b>BLACK AND OTHER</b>													
Total, 16 years and over:													
Civilian labor force .....	10,456	10,608	10,658	10,773	10,854	10,904	11,047	11,109	11,195	11,320	11,570	11,794	11,910
Employed .....	8,954	9,115	9,187	9,353	9,452	9,478	9,570	9,681	9,764	9,784	10,026	10,344	10,479
Unemployed .....	1,482	1,493	1,471	1,421	1,402	1,427	1,477	1,428	1,432	1,536	1,544	1,450	1,431
Unemployment rate .....	14.2	14.1	13.8	13.2	12.9	13.1	13.4	12.9	12.8	13.6	13.3	12.3	12.0
Males, 20 years and over:													
Civilian labor force .....	5,187	5,304	5,288	5,252	5,349	5,357	5,431	5,497	5,500	5,462	5,571	5,680	5,716
Employed .....	4,564	4,661	4,655	4,685	4,804	4,808	4,830	4,956	4,984	4,871	5,007	5,171	5,231
Unemployed .....	622	644	633	567	545	549	601	542	516	591	564	509	485
Unemployment rate .....	12.0	12.1	12.0	10.8	10.2	10.3	11.1	9.9	9.4	10.8	10.1	9.0	8.5
Females, 20 years and over:													
Civilian labor force .....	4,320	4,370	4,433	4,570	4,583	4,626	4,685	4,719	4,781	4,856	4,979	5,095	5,151
Employed .....	3,809	3,857	3,932	4,055	4,086	4,092	4,150	4,167	4,214	4,304	4,390	4,546	4,590
Unemployed .....	511	513	501	515	497	534	536	552	567	552	588	548	561
Unemployment rate .....	11.8	11.7	11.3	11.3	10.9	11.5	11.4	11.7	11.9	11.4	11.8	10.8	10.9
Both sexes, 16 to 19 years:													
Civilian labor force .....	950	933	937	951	922	922	930	893	915	1,002	1,021	1,019	1,043
Employed .....	601	597	600	613	562	578	590	558	566	609	629	626	658
Unemployed .....	349	337	336	338	360	343	340	335	349	393	391	393	385
Unemployment rate .....	36.7	36.1	35.9	35.5	39.0	37.3	36.5	37.5	38.2	39.2	38.3	38.6	36.9

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**  
**QUARTERLY AVERAGES**

**A-47. Major unemployment indicators, seasonally adjusted**

[Unemployment rates]

Selected categories	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	8.9	8.5	8.3	7.7	7.5	7.7	7.8	7.4	7.1	6.9	6.6	6.2	5.9
Males, 20 years and over .....	7.1	6.8	6.7	5.9	5.8	5.9	6.0	5.7	5.2	5.0	4.8	4.6	4.1
Females, 20 years and over .....	8.5	7.9	7.8	7.4	7.2	7.6	7.5	7.1	7.0	7.0	6.8	5.9	6.1
Both sexes, 16-19 years .....	20.3	20.3	19.6	19.1	18.8	18.9	19.1	18.6	18.1	17.6	16.7	16.9	15.9
White .....	8.2	7.8	7.6	7.0	6.8	7.1	7.1	6.7	6.3	6.1	5.8	5.4	5.1
Black and other .....	14.2	14.1	13.8	13.2	12.9	13.1	13.4	12.9	12.8	13.6	13.3	12.3	12.0
Married men, spouse present .....	5.6	5.3	5.0	4.2	4.2	4.3	4.3	3.9	3.6	3.4	3.4	2.9	2.8
Married women, spouse present .....	8.5	7.6	7.4	7.0	6.9	7.4	7.2	6.7	6.6	6.5	6.3	5.3	5.5
Women who head families .....	10.1	10.0	10.3	9.9	9.5	10.4	10.2	9.4	9.3	9.8	8.9	8.0	9.4
Full-time workers .....	8.6	8.3	8.0	7.2	7.1	7.4	7.4	6.9	6.6	6.5	6.2	5.7	5.4
Part-time workers .....	10.4	10.2	10.4	10.2	9.9	10.2	10.2	10.5	10.1	9.4	9.4	9.0	9.2
Unemployed 15 weeks and over <sup>1</sup> .....	2.8	3.1	3.0	2.7	2.3	2.4	2.5	2.2	1.9	1.9	1.9	1.6	1.3
Labor force time lost <sup>2</sup> .....	9.5	9.1	8.9	8.3	8.1	8.3	8.4	8.0	7.5	7.5	7.2	6.7	6.4
<b>OCCUPATION</b>													
White-collar workers .....	5.0	4.7	4.8	4.6	4.6	4.7	4.6	4.6	4.3	4.2	4.1	3.5	3.6
Professional and technical .....	3.4	3.3	3.3	3.3	3.1	3.1	3.3	3.2	3.0	2.9	2.9	2.6	2.4
Managers and administrators, except farm .....	3.1	3.1	3.0	2.9	3.0	3.4	3.1	3.1	2.8	2.5	2.7	2.2	2.0
Sales workers .....	6.0	5.6	6.0	5.4	5.1	5.6	5.4	5.6	5.3	5.2	4.9	4.2	4.4
Clerical workers .....	7.0	6.6	6.6	6.2	6.5	6.6	6.2	6.2	5.8	5.7	5.7	4.8	5.2
Blue-collar workers .....	12.7	12.0	11.0	9.4	9.2	9.7	9.5	8.6	7.9	8.1	7.6	7.1	6.5
Craft and kindred workers .....	9.0	8.7	7.9	6.9	6.8	7.0	6.8	6.3	5.4	5.4	5.3	5.1	4.3
Operatives, except transport .....	16.2	14.7	13.1	10.6	10.6	11.1	11.1	9.5	9.3	9.9	9.2	8.0	8.0
Transport equipment operatives .....	8.7	9.1	8.9	8.0	7.0	7.9	7.9	7.3	6.5	6.8	5.7	5.2	5.3
Nonfarm laborers .....	16.5	16.0	15.4	13.8	13.3	14.2	13.5	13.0	12.1	11.5	11.4	11.4	9.5
Service workers .....	8.5	8.9	8.8	8.9	8.4	8.6	9.1	8.4	8.5	8.0	7.9	7.5	7.5
Farm workers .....	3.3	3.6	4.0	4.1	4.4	4.2	5.1	5.4	4.7	4.3	4.1	4.4	3.3
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	9.8	9.3	8.9	8.0	7.7	8.0	8.0	7.5	7.1	6.9	6.6	6.1	5.8
Construction .....	20.0	19.0	17.5	15.8	15.3	16.3	14.9	14.8	12.4	11.2	11.3	11.5	9.3
Manufacturing .....	12.1	11.1	9.9	7.9	7.7	7.9	8.0	7.0	6.5	6.9	6.3	5.5	5.5
Durable goods .....	12.5	11.8	10.2	8.0	7.6	7.4	7.6	6.6	5.9	6.3	5.9	5.0	4.7
Non-durable goods .....	11.4	10.0	9.4	7.8	7.8	8.6	8.4	7.5	7.5	7.7	6.9	6.3	6.5
Transportation and public utilities .....	6.1	5.6	5.1	4.8	4.9	5.1	5.4	4.8	4.4	4.8	4.8	3.7	3.7
Wholesale and retail trade .....	8.9	8.8	9.1	8.6	8.4	8.8	8.6	8.5	8.1	7.9	7.5	7.2	6.8
Finance and service industries .....	6.7	6.5	6.9	6.6	6.3	6.5	6.7	6.3	6.2	5.7	5.7	5.2	5.1
Government workers .....	4.1	4.1	4.2	4.4	4.6	4.3	4.3	4.3	4.1	4.1	4.2	3.8	4.0
Agricultural wage and salary workers .....	10.1	10.4	10.9	10.9	11.6	11.5	12.7	12.9	11.5	10.2	9.7	9.7	7.8

<sup>1</sup> Unemployment as a percent of civilian labor force.

as percent of potentially available labor force hours.

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

<sup>3</sup> Includes mining, not shown separately.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-48. Unemployed persons by duration of unemployment, seasonally adjusted**

[Numbers in thousands]

Weeks of unemployment	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>Duration</b>													
Less than 5 weeks	2,925	2,817	2,759	2,646	2,825	2,876	2,828	2,864	2,969	2,823	2,761	2,702	2,816
5 to 14 weeks	2,602	2,323	2,290	1,988	2,064	2,279	2,331	2,133	2,026	2,146	2,030	1,853	1,834
15 weeks and over	2,585	2,863	2,824	2,555	2,141	2,283	2,396	2,140	1,828	1,819	1,825	1,573	1,324
15 to 26 weeks	1,480	1,392	1,261	1,030	837	1,062	1,110	946	786	907	932	842	682
27 weeks and over	1,105	1,470	1,562	1,526	1,304	1,221	1,287	1,194	1,042	912	892	731	642
Average (mean) duration in weeks	13.9	15.5	16.2	16.5	15.9	15.5	15.3	14.8	14.5	13.9	13.8	12.6	12.1
Median duration, in weeks	8.8	9.0	9.1	8.7	7.8	7.9	8.2	7.5	6.8	7.1	7.1	6.6	5.6
<b>Percent distribution</b>													
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	36.1	35.2	35.0	36.8	40.2	38.7	37.4	40.1	43.5	41.6	41.7	44.1	47.1
5 to 14 weeks	32.1	29.0	29.1	27.6	29.4	30.6	30.8	29.9	29.7	31.6	30.7	30.2	30.7
15 weeks and over	31.9	35.8	35.9	35.5	30.5	30.7	31.7	30.0	26.8	26.8	27.6	25.7	22.2
15 to 26 weeks	18.2	17.4	16.0	14.3	11.9	14.3	14.7	13.3	11.5	13.4	14.1	13.7	11.4
27 weeks and over	13.6	18.4	19.8	21.2	18.5	16.4	17.0	16.7	15.3	13.4	13.5	11.9	10.7

**A-49. Rates of unemployment by sex and age, seasonally adjusted**

Sex and age	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>Total, 16 years and over</b>	8.9	8.5	8.3	7.7	7.5	7.7	7.8	7.4	7.1	6.9	6.6	6.2	5.9
16 to 19 years	20.3	20.3	19.6	19.1	18.8	18.9	19.1	18.6	18.1	17.6	16.7	16.9	15.9
16 to 17 years	21.4	22.0	21.0	20.7	21.5	21.1	21.3	20.9	20.5	19.9	18.6	19.8	18.6
18 to 19 years	19.5	19.1	18.4	18.1	16.9	17.3	17.5	17.0	16.5	16.0	15.3	14.9	13.9
20 to 24 years	14.2	13.8	13.4	12.2	11.8	11.7	12.3	11.6	10.9	10.8	10.4	10.3	9.4
25 years and over	6.4	6.1	5.9	5.3	5.3	5.7	5.5	5.2	5.0	4.9	4.7	4.0	4.0
25 to 54 years	6.8	6.4	6.2	5.5	5.5	5.9	5.8	5.4	5.2	5.0	4.8	4.2	4.2
55 years and over	4.9	4.7	5.0	4.6	4.6	4.8	4.5	4.4	4.0	4.0	4.1	3.3	3.1
<b>Males, 16 years and over</b>	8.3	8.0	7.7	7.1	6.9	7.0	7.2	6.8	6.3	6.0	5.8	5.6	5.0
16 to 19 years	20.8	20.6	19.3	19.4	19.2	18.8	19.4	18.2	17.5	17.3	16.1	16.4	14.8
16 to 17 years	22.2	22.3	20.4	21.1	22.0	20.9	21.7	20.4	20.1	20.0	17.8	19.7	18.1
18 to 19 years	19.9	19.2	18.4	18.3	17.4	17.0	17.6	16.8	15.8	15.2	14.7	14.0	12.5
20 to 24 years	15.0	14.9	14.0	12.3	11.7	11.8	12.4	11.5	10.6	10.8	9.8	10.3	8.4
25 years and over	5.8	5.6	5.5	4.7	4.7	5.0	4.9	4.6	4.2	4.0	3.9	3.5	3.3
25 to 54 years	6.0	5.9	5.7	4.8	4.8	5.1	5.1	4.7	4.4	4.1	3.9	3.5	3.3
55 years and over	4.7	4.6	4.8	4.5	4.5	4.5	4.2	4.3	3.7	3.7	3.9	3.2	3.2
<b>Females, 16 years and over</b>	9.7	9.2	9.1	8.6	8.4	8.9	8.7	8.4	8.3	8.2	7.9	7.1	7.3
16 to 19 years	19.6	20.0	19.9	18.9	18.2	19.0	18.8	19.0	18.8	17.9	17.4	17.5	17.0
16 to 17 years	20.4	21.6	21.8	20.2	20.9	21.3	20.7	21.5	21.1	19.8	19.5	19.9	19.2
18 to 19 years	19.1	18.9	18.4	17.9	16.4	17.5	17.4	17.2	17.3	16.8	15.9	15.8	15.5
20 to 24 years	13.1	12.4	12.7	12.1	11.8	11.6	12.1	11.6	11.2	10.9	11.0	10.3	10.6
25 years and over	7.5	6.9	6.7	6.3	6.2	6.8	6.4	6.1	6.1	6.1	5.8	4.9	5.1
25 to 54 years	8.0	7.3	7.1	6.7	6.5	7.1	6.9	6.5	6.4	6.4	6.2	5.2	5.6
55 years and over	5.3	5.0	5.3	4.8	4.6	5.3	4.9	4.5	4.5	4.5	4.6	3.4	3.1

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**  
**QUARTERLY AVERAGES**

**A-50. Unemployed persons by reason for unemployment, seasonally adjusted**

[Numbers in thousands]

Reason for unemployment	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	4,701	4,567	4,169	3,576	3,580	3,679	3,674	3,300	3,032	3,098	2,917	2,577	2,464
On layoff .....	1,958	1,705	1,419	1,009	1,034	1,116	1,016	914	806	896	769	712	627
Other job losers .....	2,744	2,862	2,750	2,568	2,546	2,563	2,658	2,386	2,226	2,202	2,148	1,865	1,837
Job leavers .....	824	801	854	828	868	955	881	910	906	867	878	872	847
Reentrants .....	1,921	1,856	1,883	1,883	1,805	1,932	1,961	1,984	1,957	1,870	1,894	1,843	1,755
New entrants .....	777	838	852	861	865	875	926	952	987	952	859	902	879
<b>PERCENT DISTRIBUTION</b>													
Job losers .....	57.2	56.6	53.7	50.0	50.3	49.4	49.4	46.2	44.1	45.6	44.5	41.6	41.4
On layoff .....	23.8	21.1	18.3	14.1	14.5	15.0	13.7	12.8	11.7	13.2	11.7	11.5	10.5
Other job losers .....	33.4	35.5	35.4	35.9	35.8	34.4	35.7	33.4	32.3	32.4	32.8	30.1	30.9
Job leavers .....	10.0	9.9	11.0	11.6	12.2	12.8	11.8	12.7	13.2	12.8	13.4	14.1	14.2
Reentrants .....	23.4	23.0	24.3	26.3	25.4	26.0	26.4	27.8	28.4	27.6	28.9	29.8	29.5
New entrants .....	9.4	10.4	11.0	12.0	12.2	11.8	12.4	13.3	14.3	14.0	13.1	14.6	14.8
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	5.1	4.9	4.5	3.8	3.9	3.9	3.8	3.4	3.1	3.2	3.0	2.6	2.5
Job leavers .....	.9	.9	.9	.9	.9	1.0	.9	.9	.9	.9	.9	.9	.8
Reentrants .....	2.1	2.0	2.0	2.0	1.9	2.0	2.1	2.1	2.0	1.9	1.9	1.9	1.8
New entrants .....	.8	.9	.9	.9	.9	.9	1.0	1.0	1.0	1.0	.9	.9	.9

**A-51. Employed persons by sex and age, seasonally adjusted**

[In thousands]

Sex and age	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>Total, 16 years and over .....</b>	<b>84,305</b>	<b>84,999</b>	<b>85,321</b>	<b>86,558</b>	<b>87,392</b>	<b>87,795</b>	<b>88,182</b>	<b>89,059</b>	<b>90,264</b>	<b>90,823</b>	<b>92,069</b>	<b>93,050</b>	<b>94,244</b>
16 to 19 years .....	6,987	7,029	7,063	7,190	7,300	7,331	7,260	7,364	7,579	7,684	7,824	7,749	8,021
16 to 17 years .....	2,879	2,868	2,902	2,924	2,912	2,971	2,895	2,966	3,049	3,113	3,207	3,157	3,302
18 to 19 years .....	4,115	4,179	4,159	4,264	4,381	4,362	4,366	4,414	4,525	4,554	4,612	4,606	4,715
20 to 24 years .....	11,545	11,692	11,703	12,028	12,292	12,353	12,417	12,643	12,776	12,923	13,071	13,201	13,491
25 years and over .....	65,767	66,273	66,566	67,343	67,791	68,098	68,514	69,064	69,895	70,201	71,184	72,135	72,698
25 to 54 years .....	52,230	52,798	53,154	53,881	54,353	54,605	54,907	55,524	56,153	56,546	57,205	58,152	58,529
55 years and over .....	13,513	13,491	13,421	13,483	13,407	13,503	13,612	13,557	13,719	13,662	13,983	13,990	14,158
<b>Males, 16 years and over .....</b>	<b>50,985</b>	<b>51,277</b>	<b>51,374</b>	<b>51,964</b>	<b>52,353</b>	<b>52,532</b>	<b>52,706</b>	<b>53,119</b>	<b>53,711</b>	<b>53,936</b>	<b>54,699</b>	<b>54,962</b>	<b>55,508</b>
16 to 19 years .....	3,762	3,782	3,816	3,877	3,898	3,937	3,914	3,972	4,119	4,135	4,278	4,207	4,290
16 to 17 years .....	1,594	1,576	1,590	1,595	1,579	1,630	1,597	1,616	1,688	1,712	1,800	1,748	1,782
18 to 19 years .....	2,174	2,222	2,218	2,274	2,315	2,313	2,313	2,364	2,425	2,417	2,473	2,470	2,503
20 to 24 years .....	6,275	6,348	6,384	6,595	6,748	6,765	6,853	6,953	6,971	7,045	7,151	7,160	7,370
25 years and over .....	40,951	41,141	41,189	41,487	41,707	41,815	41,953	42,196	42,618	42,736	43,285	43,606	43,838
25 to 54 years .....	32,435	32,663	32,823	33,138	33,329	33,394	33,515	33,770	34,065	34,218	34,613	34,970	35,091
55 years and over .....	8,498	8,482	8,378	8,354	8,358	8,426	8,455	8,436	8,531	8,517	8,688	8,646	8,733
<b>Females, 16 years and over .....</b>	<b>33,319</b>	<b>33,721</b>	<b>33,947</b>	<b>34,593</b>	<b>35,039</b>	<b>35,263</b>	<b>35,476</b>	<b>35,940</b>	<b>36,553</b>	<b>36,887</b>	<b>37,369</b>	<b>38,088</b>	<b>38,736</b>
16 to 19 years .....	3,225	3,247	3,246	3,313	3,401	3,394	3,346	3,392	3,459	3,550	3,546	3,542	3,731
16 to 17 years .....	1,284	1,292	1,312	1,329	1,334	1,341	1,298	1,349	1,361	1,401	1,407	1,410	1,520
18 to 19 years .....	1,941	1,956	1,941	1,990	2,066	2,049	2,053	2,050	2,100	2,137	2,139	2,135	2,212
20 to 24 years .....	5,270	5,344	5,320	5,434	5,543	5,588	5,564	5,691	5,805	5,878	5,920	6,041	6,120
25 years and over .....	24,817	25,131	25,377	25,856	26,084	26,283	26,561	26,868	27,277	27,465	27,899	28,529	28,861
25 to 54 years .....	19,794	20,135	20,330	20,743	21,024	21,212	21,392	21,754	22,088	22,328	22,592	23,183	23,438
55 years and over .....	5,015	5,009	5,043	5,129	5,049	5,078	5,157	5,121	5,189	5,145	5,295	5,344	5,425



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-52. Employed persons by selected social and economic categories, seasonally adjusted**

[In thousands]

Selected categories	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>CHARACTERISTICS</b>													
Total, 16 years and over .....	84,305	84,999	85,321	86,558	87,392	87,795	88,182	89,059	90,264	90,823	92,069	93,050	94,244
Married men, spouse present .....	37,822	37,911	37,880	38,045	38,140	38,119	38,002	38,243	38,482	38,337	38,546	38,592	38,655
Married women, spouse present .....	19,415	19,600	19,834	20,065	20,232	20,391	20,468	20,756	20,935	20,940	21,271	21,683	21,753
<b>OCCUPATION</b>													
White-collar workers .....	42,153	42,458	42,380	43,131	43,563	43,775	44,321	44,533	44,766	45,249	46,217	46,646	46,964
Professional and technical .....	12,718	12,848	12,893	13,170	13,233	13,416	13,498	13,466	13,579	13,747	13,980	14,044	14,307
Managers and administrators, except farm .....	8,873	8,952	8,968	9,154	9,310	9,329	9,466	9,537	9,508	9,687	9,915	10,123	10,084
Sales workers .....	5,506	5,505	5,372	5,359	5,485	5,501	5,635	5,709	5,704	5,727	5,773	5,903	5,901
Clerical workers .....	15,056	15,153	15,147	15,448	15,536	15,529	15,722	15,821	15,976	16,088	16,549	16,575	16,672
Blue-collar workers .....	27,717	27,881	28,260	28,744	29,025	28,934	29,124	29,821	30,253	30,213	30,552	31,060	31,627
Craft and kindred workers .....	10,888	10,970	11,115	11,219	11,225	11,313	11,348	11,672	11,880	11,926	12,043	12,167	12,329
Operatives, except transport .....	9,509	9,566	9,818	10,066	10,180	10,016	10,081	10,370	10,392	10,273	10,389	10,753	10,942
Transport equipment operatives .....	3,190	3,221	3,220	3,212	3,295	3,272	3,305	3,429	3,498	3,466	3,512	3,539	3,535
Nonfarm laborers .....	4,129	4,125	4,107	4,247	4,326	4,333	4,390	4,349	4,483	4,547	4,608	4,601	4,821
Service workers .....	11,533	11,628	11,831	11,871	11,999	12,160	11,985	12,068	12,442	12,501	12,560	12,660	12,902
Farm workers .....	2,933	2,995	2,868	2,840	2,832	2,839	2,781	2,700	2,809	2,720	2,790	2,810	2,760
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,249	1,336	1,278	1,319	1,317	1,313	1,329	1,280	1,334	1,310	1,399	1,374	1,441
Self-employed workers .....	1,734	1,711	1,680	1,632	1,653	1,655	1,604	1,527	1,592	1,567	1,591	1,573	1,594
Unpaid family workers .....	390	397	358	329	347	342	343	350	371	316	340	348	291
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	74,859	75,502	75,804	77,082	77,928	78,372	78,754	79,556	80,426	81,018	82,233	83,039	84,070
Government .....	14,484	14,644	14,629	14,866	14,874	15,100	14,981	14,956	15,020	15,215	15,433	15,219	15,244
Private industries .....	60,375	60,858	61,175	62,217	63,055	63,272	63,773	64,600	65,406	65,803	66,800	67,820	68,826
Private households .....	1,393	1,329	1,319	1,286	1,352	1,392	1,394	1,353	1,347	1,403	1,399	1,366	1,383
Other industries .....	58,982	59,530	59,855	60,931	61,702	61,880	62,379	63,247	64,059	64,400	65,401	66,454	67,443
Self-employed workers .....	5,600	5,629	5,729	5,679	5,664	5,669	5,739	5,877	5,989	6,041	6,115	6,318	6,318
Unpaid family workers .....	459	461	507	473	459	446	458	482	520	505	456	476	498
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	76,250	76,080	77,064	78,272	78,690	79,304	79,895	80,591	81,523	82,635	83,266	83,881	85,874
Full-time schedules .....	61,964	62,016	63,188	64,317	64,546	64,962	65,393	66,118	66,953	67,783	68,214	69,148	70,523
Part time for economic reasons .....	3,645	3,363	3,285	3,224	3,219	3,258	3,430	3,318	3,283	3,341	3,256	3,114	3,343
Usually work full time .....	1,697	1,498	1,399	1,293	1,347	1,349	1,283	1,225	1,262	1,303	1,246	1,132	1,289
Usually work part time .....	1,948	1,865	1,886	1,931	1,872	1,909	2,147	2,093	2,022	2,038	2,010	1,982	2,053
Part time for noneconomic reasons .....	10,641	10,701	10,591	10,731	10,925	11,084	11,071	11,154	11,287	11,511	11,796	11,619	12,009

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-53. Job desire of persons not in labor force by current activity, reasons for not seeking work, sex, and race, seasonally adjusted**

[In thousands]

Characteristic	1975			1976				1977				1978	
	II	III	IV	I	II	III	IV	I	II	III	IV	I	II
<b>TOTAL</b>													
Total not in labor force	58,376	58,744	59,268	59,189	59,073	59,066	59,218	59,225	58,941	59,205	58,777	58,799	58,399
Do not want job now	53,459	53,427	53,966	53,860	54,015	54,511	53,828	53,825	53,263	53,213	53,207	53,789	53,294
Current activity:													
Going to school	6,353	6,289	6,376	6,416	6,261	6,736	6,324	6,163	6,153	6,216	6,193	6,237	6,224
Ill, disabled	4,865	4,618	4,738	4,705	4,739	4,797	4,608	4,726	4,553	4,504	4,407	4,516	4,626
Keeping house	31,463	31,281	31,407	30,967	31,028	30,693	30,337	30,566	30,197	30,078	30,095	29,671	29,788
Retired	7,660	7,831	8,243	8,324	8,480	8,791	8,774	8,748	9,031	9,048	9,031	9,454	9,177
Other	3,117	3,409	3,201	3,448	3,506	3,494	3,785	3,622	3,329	3,366	3,482	3,911	3,479
Want a job now	5,078	5,377	5,285	5,321	5,416	4,357	5,464	5,539	5,739	5,936	5,581	5,448	5,281
Reason not looking:													
School attendance	1,403	1,534	1,524	1,405	1,540	1,168	1,536	1,516	1,466	1,680	1,556	1,411	1,265
Ill health, disability	615	677	747	705	743	491	649	672	802	795	766	680	786
Home responsibilities	1,060	1,083	1,119	1,199	1,214	1,038	1,280	1,229	1,286	1,288	1,211	1,221	1,245
Think cannot get job	1,129	1,148	975	961	913	803	994	942	1,062	1,067	969	903	842
Job-market factors	819	963	770	661	627	570	726	657	739	747	630	621	537
Personal factors	310	185	205	300	286	233	268	285	323	320	339	282	305
Other reasons <sup>1</sup>	872	935	920	1,051	1,006	858	1,006	1,180	1,123	1,106	1,080	1,233	1,144
<b>Males</b>													
Total not in labor force	15,613	15,825	16,241	16,319	16,289	16,379	16,392	16,497	16,503	16,728	16,386	16,510	16,577
Do not want job now	14,059	14,227	14,551	14,624	14,728	15,168	14,757	14,839	14,687	14,766	14,676	14,925	14,922
Want a job now	1,569	1,758	1,711	1,702	1,649	1,308	1,670	1,701	1,758	1,833	1,706	1,785	1,632
Reason not looking:													
School attendance	704	811	744	704	777	595	733	766	759	801	767	714	620
Ill health, disability	268	315	348	318	317	203	277	299	335	325	330	317	345
Think cannot get job	368	379	339	384	305	269	341	297	310	360	306	352	298
Other reasons <sup>1</sup>	228	254	280	295	250	241	318	339	354	347	303	401	368
<b>Females</b>													
Total not in labor force	42,762	42,919	43,028	42,870	42,785	42,688	42,826	42,729	42,438	42,476	42,391	42,289	41,822
Do not want job now	39,400	39,200	39,415	39,236	39,287	39,343	39,071	38,986	38,576	38,447	38,532	38,864	38,372
Want a job now	3,510	3,619	3,574	3,619	3,767	3,049	3,794	3,838	3,981	4,103	3,875	3,663	3,650
Reason not looking:													
School attendance	698	723	780	701	763	573	802	750	707	879	789	697	645
Ill health, disability	347	363	399	387	426	288	371	374	466	470	436	363	441
Home responsibilities	1,060	1,083	1,119	1,199	1,214	1,038	1,280	1,229	1,286	1,288	1,211	1,221	1,245
Think cannot get job	761	769	636	576	608	534	653	645	733	707	662	550	544
Other reasons	644	681	640	756	756	617	688	840	769	759	777	833	776
<b>White</b>													
Total not in labor force	51,196	51,399	51,857	51,839	51,690	51,542	51,697	51,699	51,406	51,648	51,265	51,400	51,064
Do not want job now	47,401	47,422	47,872	47,693	47,742	48,120	47,460	47,397	47,162	47,306	46,875	47,433	47,262
Want a job now	3,878	4,131	3,978	4,086	4,065	3,434	4,172	4,289	4,303	4,333	4,306	4,179	3,962
Reason not looking:													
School attendance	1,097	1,129	1,158	1,071	1,129	943	1,113	1,181	1,057	1,138	1,141	1,040	921
Ill health, disability	446	492	524	501	508	363	448	505	646	575	554	484	562
Home responsibilities	834	894	828	941	921	822	1,020	1,007	972	957	970	984	959
Think cannot get job	779	843	690	712	689	595	750	676	732	735	726	640	576
Other reasons	723	773	778	861	818	711	841	919	895	928	914	1,031	944
<b>Black and other</b>													
Total not in labor force	7,196	7,268	7,359	7,375	7,419	7,497	7,470	7,525	7,566	7,574	7,465	7,370	7,372
Do not want job now	6,010	6,064	6,113	6,104	6,089	6,526	6,206	6,230	6,100	6,064	6,247	6,076	6,083
Want a job now	1,144	1,216	1,289	1,266	1,301	920	1,284	1,307	1,368	1,553	1,265	1,320	1,276
Reason not looking:													
School attendance	304	340	360	347	407	207	416	349	409	447	412	384	341
Ill health, disability	169	189	204	219	241	127	194	180	162	218	197	212	230
Home responsibilities	236	230	311	303	291	242	280	269	286	338	237	271	264
Think cannot get job	316	322	292	237	210	214	254	283	298	329	248	274	249
Other reasons	120	135	122	161	152	130	140	226	213	221	171	178	192

<sup>1</sup> Includes small number of men not looking for work because of home responsibilities.

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-54. Job desire of persons not in labor force and reasons for not seeking work by age and sex**

(In thousands)

Reasons for not seeking work	Total		Age in years								
			16-19		20-24		25-59		60 and over		
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	
<b>TOTAL</b>											
Total not in labor force .....	59,042	58,488	7,095	6,792	4,685	4,507	23,089	22,600	24,174 <sup>c</sup>	24,589	
Do not want a job now .....	52,807	52,895	5,116	5,163	3,631	3,566	20,482	20,127	23,581	24,038	
Current activity:											
Going to school .....	5,549	5,684	3,703	3,875	1,318	1,229	509	569	19	9	
Ill, disabled .....	4,539	4,610	46	52	134	128	2,247	2,296	2,114	2,134	
Keeping house .....	30,359	29,935	592	561	1,814	1,811	15,928	15,310	12,024	12,253	
Retired .....	9,082	9,226	--	--	3	--	150	181	8,930	9,046	
Other .....	3,278	3,440	775	675	362	398	1,648	1,771	494	596	
Want a job now .....	6,198	5,593	1,980	1,629	1,055	940	2,606	2,473	554	553	
Reason not looking:											
School attendance .....	2,092	1,738	1,479	1,203	411	355	196	180	7	--	
Ill health, disability .....	766	747	34	24	43	69	510	487	178	168	
Home responsibilities .....	1,234	1,195	105	80	249	213	840	860	39	42	
Think cannot get job .....	1,039	826	145	114	166	133	516	399	211	180	
Job-market factors .....	759	550	109	87	130	103	433	278	85	82	
Personal factors .....	280	275	35	28	35	29	81	122	127	99	
Other reasons <sup>1</sup> .....	1,067	1,087	217	208	186	170	544	547	119	163	
<b>Males</b>											
Total not in labor force .....	16,399	16,460	3,049	3,003	1,338	1,282	3,079	3,094	8,934	9,082	
Do not want a job now .....	14,287	14,559	2,119	2,218	949	916	2,565	2,607	8,654	8,817	
Current activity:											
Going to school .....	2,669	2,759	1,728	1,849	700	639	239	269	2	--	
Ill, disabled .....	2,554	2,504	20	22	67	71	1,292	1,247	1,176	1,163	
Keeping house .....	260	248	24	4	--	5	59	66	178	173	
Retired .....	7,044	7,185	--	--	3	--	138	155	6,902	7,031	
Other .....	1,760	1,863	347	343	179	201	837	870	396	450	
Want a job now .....	2,112	1,901	929	786	389	367	514	488	280	265	
Reason not looking:											
School attendance .....	1,094	874	750	608	234	199	110	68	--	--	
Ill health, disability .....	342	349	11	16	23	31	216	209	92	95	
Think cannot get job .....	316	310	53	76	56	55	90	106	117	74	
Other reasons <sup>1</sup> .....	360	368	115	86	76	82	98	105	71	96	
<b>Females</b>											
Total not in labor force .....	42,643	42,028	4,046	3,790	3,347	3,225	20,009	19,506	15,241 <sup>c</sup>	15,507	
Do not want a job now .....	38,519	38,338	2,995	2,946	2,682	2,651	17,912	17,519	14,928	15,221	
Current activity:											
Going to school .....	2,879	2,925	1,974	2,026	617	590	270	301	17	9	
Ill, disabled .....	1,985	2,108	26	30	67	58	953	1,048	938	972	
Keeping house .....	30,099	29,687	568	557	1,814	1,806	15,869	15,243	11,847	12,079	
Retired .....	2,038	2,041	--	--	--	--	10	26	2,028	2,015	
Other .....	1,518	1,577	427	333	184	197	810	901	98	146	
Want a job now .....	4,085	3,691	1,051	844	665	574	2,096	1,985	275	286	
Reason not looking:											
School attendance .....	998	864	729	596	177	156	86	112	7	--	
Ill health, disability .....	424	397	23	9	20	38	296	278	86	72	
Home responsibilities .....	1,234	1,195	105	80	249	213	840	860	39	42	
Think cannot get job .....	723	516	92	38	109	79	427	293	95	106	
Other reasons <sup>1</sup> .....	706	719	102	121	110	88	447	442	48	66	

<sup>1</sup> Includes small number of men not looking for work because of "home responsibilities."

c = corrected.

NOTE: Detail in tables A-54, A-55, and A-57 may not add to not-in-labor-force totals because of differences in the weighting patterns used in aggregating these data.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-55. Job desire of persons not in labor force and reasons for not seeking work by age, race, and sex

(In thousands)

Reasons for not seeking work	Total		Age in years						Males		Females	
			16-24		25-59		60 and over					
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>WHITE</b>												
Total not in labor force	51,455	51,096	9,331	8,983	20,228	19,812	21,895	22,300	13,940	14,047	37,515	37,048
Do not want a job now	46,780	46,886	7,154	7,156	18,227	17,904	21,404	21,826	12,291	12,649	34,489	34,237
Current activity:												
Going to school	4,363	4,588	3,952	4,111	398	469	15	9	2,104	2,252	2,259	2,336
Ill, disabled	3,681	3,801	138	146	1,796	1,836	1,749	1,819	2,104	2,080	1,577	1,721
Keeping house	27,703	27,242	2,120	2,046	14,513	13,951	11,067	11,243	220	203	27,483	27,039
Retired	8,264	8,385	--	--	147	168	8,117	8,218	6,415	6,568	1,849	1,817
Other	2,767	2,870	939	853	1,372	1,480	458	537	1,448	1,546	1,319	1,324
Want a job now	4,675	4,207	2,177	1,828	2,001	1,908	491	476	1,649	1,397	3,026	2,810
Reason not looking:												
School attendance	1,579	1,308	1,429	1,177	141	131	7	--	825	663	754	645
Ill health, disability	602	523	69	67	388	319	144	139	289	253	313	270
Home responsibilities <sup>1</sup>	934	923	205	179	694	702	35	42	--	--	934	923
Think cannot get job	716	567	200	130	327	289	189	150	244	198	472	369
Other reasons	844	886	274	275	451	467	116	145	291	283	553	603
<b>BLACK AND OTHER</b>												
Total not in labor force	7,588	7,392	2,449	2,315	2,860	2,788	2,280	2,289	2,459	2,413	5,129	4,979
Do not want a job now	6,066	6,009	1,593	1,573	2,255	2,222	2,217	2,212	1,997	1,909	4,069	4,100
Current activity:												
Going to school	1,185	1,096	1,073	992	112	102	4	--	565	507	620	589
Ill, disabled	857	810	41	35	449	461	366	316	450	424	407	386
Keeping house	2,655	2,693	283	326	1,414	1,356	958	1,009	40	45	2,615	2,648
Retired	815	841	--	--	2	12	813	828	626	617	189	224
Other	514	569	200	220	276	291	36	59	315	316	199	253
Want a job now	1,522	1,384	856	744	605	568	63	77	462	504	1,060	880
Reason not looking:												
School attendance	513	430	458	382	53	50	--	--	269	211	244	219
Ill health, disability	164	223	9	27	122	169	34	29	52	96	112	127
Home responsibilities <sup>1</sup>	300	272	150	114	147	158	5	--	--	--	300	272
Think cannot get job	322	258	111	118	190	110	22	30	72	112	250	146
Other reasons	223	201	128	103	93	81	2	18	69	85	154	116

<sup>1</sup> Small number of men not looking for work because of "home responsibilities" are included in "other reasons."

## A-56. Persons not in labor force who desire work but think they cannot get jobs by age, race, sex, and detailed reason

(In thousands)

Detailed reason for not seeking work	Total	Age in years				Race	
		16-19	20-24	25-59	60 and over	White	Black and other
						White	Black and other
<b>TOTAL</b>							
Personal factors:							
Employers think too young or old	137	15	2	30	90	127	10
Lacks education or training	94	11	18	61	7	80	15
Other personal handicap	44	2	9	31	2	26	19
Job-market factors:							
Could not find job	347	64	74	176	32	173	175
Thinks no job available	203	23	29	102	50	163	41
<b>Males</b>							
Personal factors:							
Employers think too young or old	73	8	2	21	43	63	10
Lacks education or training	23	9	7	5	3	18	6
Other personal handicap	21	--	3	16	2	11	10
Job-market factors:							
Could not find job	133	47	29	46	11	60	73
Thinks no job available	60	13	13	18	15	47	13
<b>Females</b>							
Personal factors:							
Employers think too young or old	64	7	--	10	47	64	--
Lacks education or training	71	2	11	55	4	62	9
Other personal handicap	23	2	6	15	--	15	9
Job-market factors:							
Could not find job	214	17	46	130	20	113	102
Thinks no job available	143	10	16	83	35	116	28

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-57. Most recent work experience of persons not in labor force and reason for leaving last job for those who worked during previous 12 months by age, race, and sex**

[Numbers in thousands]

Most recent work experience and reason for leaving job	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over					
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>Total, not in labor force</b>	59,042	58,488	11,780	11,299	23,088	22,600	24,174	24,589	51,455	51,096	7,588	7,392
Never worked	9,844	9,850	5,016	4,975	2,298	2,283	2,529	2,592	7,893	7,910	1,951	1,940
Last worked over 5 years ago	28,388	28,423	297	319	11,607	11,405	16,483	16,698	25,416	25,361	2,972	3,061
Last worked 1 to 5 years ago	11,250	10,852	1,980	1,752	5,469	5,215	3,800	3,884	9,865	9,615	1,384	1,238
Left job during previous 12 months	9,521	9,361	4,484	4,253	3,713	3,695	1,324	1,413	8,280	8,209	1,241	1,152
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	40.0	39.7	51.0	51.8	39.3	38.3	5.0	6.7	40.5	40.9	36.8	30.9
Ill health, disability	8.3	8.6	2.4	2.5	13.0	13.0	15.2	15.9	8.4	8.3	8.1	11.2
Retirement, old age	8.1	8.9	--	--	2.5	4.1	51.6	48.0	8.8	9.3	4.0	5.8
Economic reasons	20.3	19.2	19.0	16.8	23.0	21.6	17.0	20.3	19.4	18.4	26.1	25.3
End of seasonal job	8.4	6.6	9.2	6.4	7.6	6.5	8.0	7.1	7.8	6.5	12.6	7.3
Slack work	6.2	5.8	5.0	4.2	8.4	7.7	3.8	5.2	5.8	5.1	8.8	10.2
End of temporary job	5.7	6.9	4.8	6.2	7.0	7.4	5.2	8.0	5.9	6.8	4.7	7.8
All other reasons	23.2	23.6	27.6	28.9	22.2	23.0	11.2	9.1	22.9	23.2	25.0	26.8
<b>Males, not in labor force</b>	16,399	16,460	4,387	4,285	3,079	3,094	8,934	9,082	13,940	14,047	2,459	2,413
Never worked	2,140	2,277	1,909	1,994	190	233	42	49	1,541	1,645	599	632
Last worked over 5 years ago	7,002	7,147	22	52	1,143	1,154	5,836	5,942	6,075	6,275	927	872
Last worked 1 to 5 years ago	3,814	3,716	481	406	1,037	1,000	2,294	2,311	3,382	3,271	431	445
Left job during previous 12 months	3,443	3,320	1,974	1,833	707	707	780	780	2,941	2,856	502	463
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	31.3	30.9	47.2	48.4	18.4	17.9	2.0	1.5	32.0	32.6	27.4	20.5
Ill health, disability	11.9	12.1	2.5	3.2	29.7	27.8	20.0	18.7	12.1	12.2	10.7	11.4
Retirement, old age	14.6	15.2	--	--	9.5	9.9	57.6	55.6	15.8	16.5	7.8	7.3
Economic reasons	18.1	17.7	19.9	17.8	17.8	17.7	13.6	17.3	17.0	15.8	24.3	29.5
End of seasonal job	9.1	6.9	11.4	7.6	4.0	4.7	7.8	7.1	8.5	6.4	12.3	9.9
Slack work	5.5	5.5	4.9	4.7	9.3	8.3	3.6	4.6	5.2	4.5	7.6	11.4
End of temporary job	3.5	5.4	3.6	5.5	4.5	4.7	2.2	5.6	3.3	4.9	4.4	8.2
All other reasons	24.0	24.1	30.4	30.5	24.7	26.7	6.8	6.8	23.1	23.0	29.8	31.3
<b>Females, not in labor force</b>	42,643	42,028	7,394	7,015	20,009	19,506	15,241	15,507	37,515	37,048	5,129	4,979
Never worked	7,704	7,573	3,109	2,981	2,110	2,049	2,487	2,543	6,352	6,265	1,352	1,308
Last worked over 5 years ago	21,386	21,276	274	266	11,031	10,253	10,648	10,757	19,341	19,086	2,045	2,189
Last worked 1 to 5 years ago	7,436	7,136	1,500	1,345	4,431	4,216	1,505	1,574	6,483	6,344	953	793
Left job during previous 12 months	6,078	6,042	2,509	2,421	3,005	2,989	563	633	5,339	5,353	739	689
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	45.0	44.5	54.0	54.3	44.2	43.1	9.1	13.1	45.2	45.3	43.2	38.0
Ill health, disability	6.3	6.7	2.4	1.9	9.1	9.4	8.7	12.2	6.3	6.1	6.2	11.0
Retirement, old age	4.5	5.4	--	--	.9	2.7	43.5	38.7	4.9	5.5	1.5	4.8
Economic reasons	21.5	20.1	18.2	16.1	24.3	22.5	21.8	24.0	20.7	19.8	27.3	22.5
End of seasonal job	8.0	6.4	7.5	5.5	8.4	7.0	8.5	7.1	7.3	6.5	12.9	5.5
Slack work	6.5	5.9	5.1	3.9	8.2	7.6	4.1	6.0	6.1	5.5	9.6	9.4
End of temporary job	7.0	7.8	5.7	6.7	7.6	8.0	9.2	10.9	7.3	7.8	4.9	7.5
All other reasons	22.7	23.3	25.5	27.7	21.6	22.2	16.9	12.0	22.9	23.3	21.8	23.8

**A-58. Work-seeking intentions of persons not in labor force and work history of those who intend to seek work within next 12 months by age, race, and sex**

[In thousands]

Work-seeking intentions and work history	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over					
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>Total</b>	49,946	49,988	6,780	6,755	19,550	19,150	23,615	24,082	44,301	44,309	5,645	5,680
Do not intend to seek work	9,057	8,499	4,999	4,544	3,536	3,450	522	507	7,154	6,786	1,904	1,712
Intend to seek work in the next 12 months	1,799	1,763	1,690	1,649	99	108	11	6	1,251	1,211	550	553
Never worked	1,153	1,157	66	60	955	975	132	123	935	919	218	237
Last worked over 5 years ago	2,009	1,880	769	614	1,055	1,066	185	201	1,537	1,435	472	445
Last worked 1 to 5 years ago	4,096	3,698	2,474	2,222	1,430	1,300	195	177	3,431	3,221	665	477
Worked during previous 12 months												
<b>Males</b>	13,382	13,541	2,220	2,211	2,482	2,517	8,679	8,813	11,539	11,769	1,843	1,773
Do not intend to seek work	3,017	2,918	2,166	2,072	596	578	255	268	2,401	2,278	616	640
Intend to seek work in the next 12 months	711	792	702	776	8	15	--	--	495	533	217	260
Never worked	129	140	4	16	80	69	44	56	94	102	35	38
Last worked over 5 years ago	529	516	258	208	176	188	95	120	427	395	102	121
Last worked 1 to 5 years ago	1,648	1,470	1,201	1,073	331	305	115	93	1,385	1,248	263	222
Worked during previous 12 months												
<b>Females</b>	36,564	36,447	4,560	4,545	17,067	16,633	14,935	15,269	32,762	32,540	3,802	3,907
Do not intend to seek work	6,040	5,580	2,833	2,470	2,940	2,872	267	238	4,753	4,508	1,288	1,072
Intend to seek work in the next 12 months	1,088	971	988	872	90	94	11	6	756	678	333	293
Never worked	1,024	1,017	62	44	873	905	88	67	841	817	183	199
Last worked over 5 years ago	1,480	1,364	511	406	880	878	89	81	1,110	1,040	370	324
Last worked 1 to 5 years ago	2,448	2,228	1,272	1,148	1,096	996	79	85	2,046	1,973	402	255
Worked during previous 12 months												

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-59. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin**

[Numbers in thousands]

Employment status	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>TOTAL</b>								
Civilian noninstitutional population .....	156,094	158,605	137,333	139,323	16,264	16,585	6,972	7,735
Civilian labor force .....	97,051	100,117	85,878	88,227	9,653	10,167	4,265	4,809
Percent of population .....	62.2	63.1	62.5	63.3	59.4	61.3	61.2	62.2
Employment .....	90,327	94,295	80,580	83,831	8,370	8,874	3,845	4,382
Agriculture .....	3,480	3,501	3,221	3,192	218	240	235	265
Nonagricultural industries .....	86,848	90,793	77,359	80,638	8,152	8,634	3,610	4,117
Unemployment .....	6,724	5,823	5,298	4,397	1,293	1,283	420	427
Unemployment rate .....	6.9	5.8	6.2	5.0	13.3	12.7	9.9	8.9
Not in labor force .....	59,042	58,488	51,455	51,096	6,611	6,418	2,706	2,926
<b>Males, 20 years and over</b>								
Civilian noninstitutional population .....	65,635	66,844	58,385	59,380	6,233	6,375	2,829	3,159
Civilian labor force .....	52,285	53,386	46,786	47,669	4,698	4,843	2,383	2,665
Percent of population .....	79.7	79.9	80.1	80.3	75.4	76.0	84.2	84.4
Employment .....	49,636	51,260	44,648	46,024	4,248	4,419	2,200	2,510
Agriculture .....	2,406	2,428	2,220	2,192	157	189	155	194
Nonagricultural industries .....	47,230	48,832	42,428	43,832	4,091	4,231	2,045	2,316
Unemployment .....	2,649	2,126	2,138	1,645	450	424	183	155
Unemployment rate .....	5.1	4.0	4.6	3.5	9.6	8.7	7.7	5.8
Not in labor force .....	13,350	13,458	11,599	11,711	1,535	1,532	446	494
<b>Females, 20 years and over</b>								
Civilian noninstitutional population .....	73,984	75,310	64,965	66,010	7,810	7,991	3,199	3,524
Civilian labor force .....	35,386	37,072	30,631	31,946	4,148	4,418	1,433	1,626
Percent of population .....	47.8	49.2	47.1	48.4	53.1	55.3	44.8	46.1
Employment .....	33,045	34,945	28,831	30,356	3,664	3,929	1,299	1,463
Agriculture .....	614	634	569	587	36	31	52	43
Nonagricultural industries .....	32,431	34,311	28,263	29,769	3,627	3,897	1,247	1,420
Unemployment .....	2,342	2,126	1,799	1,589	485	489	133	163
Unemployment rate .....	6.6	5.7	5.9	5.0	11.7	11.1	9.3	10.0
Not in labor force .....	38,597	38,238	34,334	34,064	3,662	3,572	1,766	1,898
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population .....	16,475	16,452	13,983	13,933	2,221	2,220	944	1,053
Civilian labor force .....	9,380	9,660	8,461	8,613	807	906	450	519
Percent of population .....	56.9	58.7	60.5	61.8	36.3	40.8	47.7	49.3
Employment .....	7,646	8,089	7,100	7,451	459	526	346	410
Agriculture .....	459	439	432	414	25	20	29	28
Nonagricultural industries .....	7,187	7,650	6,668	7,037	434	506	317	381
Unemployment .....	1,734	1,571	1,361	1,162	348	380	104	109
Unemployment rate .....	18.5	16.3	16.1	13.5	43.1	41.9	23.1	21.0
Not in labor force .....	7,095	6,792	5,521	5,320	1,415	1,314	494	534

<sup>1</sup> Data relate to black workers only. According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.

<sup>2</sup> Data on persons of Hispanic origin are tabulated separately, without regard to race, which means that they are also included in the data for white and black workers. At the time of the 1970 Census, approximately 96 percent of their population was white.

NOTE: Data for 1977 for total Hispanic origin are not strictly comparable with those published earlier. These estimates incorporate the expanded sample and revised estimation procedures introduced in the national sample in January 1978.

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-60 Employment status of persons of Mexican, Puerto Rican, and Cuban origin  
by sex and age**

[Numbers in thousands]

Employment status	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	II	II	II	II	II	II	II	II
	1977	1978	1977	1978	1977	1978	1977	1978
<b>TOTAL</b>								
Civilian noninstitutional population . . . . .	6,972	7,735	3,991	4,516	962	1,084	525	567
Civilian labor force . . . . .	4,265	4,809	2,548	2,928	432	538	335	370
Percent of population . . . . .	61.2	62.2	63.8	64.8	44.9	49.6	63.8	65.3
Employment . . . . .	3,845	4,382	2,282	2,667	387	467	305	349
Agriculture . . . . .	235	265	215	241	5	5	1	4
Nonagricultural industries . . . . .	3,610	4,117	2,068	2,426	382	462	304	345
Unemployment . . . . .	420	427	265	261	45	71	30	21
Unemployment rate . . . . .	9.9	8.9	10.4	8.9	10.4	13.1	8.9	5.6
Not in labor force . . . . .	2,706	2,926	1,443	1,588	531	547	190	197
<b>Males, 20 years and over</b>								
Civilian noninstitutional population . . . . .	2,829	3,159	1,662	1,724	347	392	212	230
Civilian labor force . . . . .	2,383	2,665	1,423	1,667	276	314	177	183
Percent of population . . . . .	84.2	84.4	85.6	96.7	79.5	80.1	83.5	79.6
Employment . . . . .	2,200	2,510	1,313	1,576	250	284	163	177
Agriculture . . . . .	155	194	141	178	4	4	--	2
Nonagricultural industries . . . . .	2,045	2,316	1,172	1,398	246	279	163	175
Unemployment . . . . .	183	155	110	91	26	31	14	6
Unemployment rate . . . . .	7.7	5.8	7.7	5.5	9.3	9.8	7.9	3.4
Not in labor force . . . . .	466	494	239	257	71	77	35	47
<b>Females, 20 years and over</b>								
Civilian noninstitutional population . . . . .	3,199	3,524	1,776	1,955	468	532	261	277
Civilian labor force . . . . .	1,433	1,626	825	932	127	159	135	155
Percent of population . . . . .	44.8	46.1	46.5	47.7	27.1	29.9	51.7	56.0
Employment . . . . .	1,299	1,463	737	833	116	136	123	146
Agriculture . . . . .	52	43	49	38	--	1	--	--
Nonagricultural industries . . . . .	1,247	1,420	688	796	116	135	123	146
Unemployment . . . . .	133	163	88	99	11	22	12	9
Unemployment rate . . . . .	9.3	10.0	10.7	10.6	8.7	14.1	8.8	5.9
Not in labor force . . . . .	1,766	1,898	951	1,023	341	373	126	122
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population . . . . .	944	1,053	553	636	147	160	52	60
Civilian labor force . . . . .	450	519	300	392	29	64	23	31
Percent of population . . . . .	47.7	49.3	54.2	51.7	19.7	40.0	44.2	51.7
Employment . . . . .	346	410	233	259	21	47	19	26
Agriculture . . . . .	29	28	25	26	--	--	--	1
Nonagricultural industries . . . . .	317	381	208	233	21	47	19	25
Unemployment . . . . .	104	109	67	70	8	17	4	5
Unemployment rate . . . . .	23.1	21.0	22.4	21.3	(2)	26.9	(2)	(2)
Not in labor force . . . . .	494	534	253	307	118	96	29	29

<sup>1</sup> Includes persons of Central or South American origin and other Hispanic origin, not shown separately.

NOTE: See note, table A-59.

<sup>2</sup> Percent not shown where base is less than 60,000.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-61. Employed persons by selected social and economic categories, race, and Hispanic origin

(In thousands)

Selected categories	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>CHARACTERISTICS</b>								
Total, 16 years and over .....	90,327	94,295	80,580	83,831	9,748	10,464	3,845	4,382
Males .....	53,858	55,655	48,567	50,071	5,291	5,584	2,410	2,730
Females .....	36,469	38,640	32,013	33,760	4,457	4,880	1,435	1,652
<b>OCCUPATION</b>								
White-collar workers .....	44,566	46,751	41,180	43,046	3,385	3,705	1,177	1,390
Professional and technical .....	13,435	14,154	12,326	12,940	1,109	1,214	281	312
Managers and administrators, except farm .....	9,427	9,996	8,935	9,504	492	492	204	260
Sales workers .....	5,735	5,935	5,483	5,653	253	282	131	166
Clerical workers .....	15,969	16,667	14,437	14,949	1,531	1,718	561	652
Blue-collar workers .....	30,376	31,748	26,626	27,747	3,751	4,002	2,668	2,011
Craft and kindred workers .....	11,882	12,330	11,038	11,402	843	929	519	563
Operatives, except transport .....	10,361	10,906	8,852	9,238	1,509	1,668	824	924
Transport equipment operatives .....	3,510	3,548	2,970	3,003	541	545	168	173
Nonfarm laborers .....	4,623	4,964	3,766	4,104	858	860	284	351
Service workers .....	12,411	12,870	10,018	10,373	2,393	2,497	668	761
Farm workers .....	2,974	2,926	2,755	2,665	219	261	205	221
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,395	1,506	1,217	1,281	177	225	226	243
Self-employed workers .....	1,639	1,642	1,579	1,568	60	74	9	21
Unpaid family workers .....	446	353	425	343	22	10	--	1
Nonegricultural industries:								
Wage and salary workers .....	80,241	83,879	71,146	74,149	9,097	9,730	3,436	3,900
Government .....	14,979	15,203	12,713	12,880	2,266	2,323	1	574
Private industries .....	65,262	68,675	58,432	61,269	6,831	7,406	2,908	3,326
Private households .....	1,359	1,396	897	979	463	417	70	88
Other industries .....	63,903	67,279	57,535	60,290	6,368	6,989	2,838	3,238
Self-employed workers .....	6,061	6,392	5,690	5,993	371	400	157	202
Unpaid family workers .....	545	523	523	497	21	26	17	15
<b>PERSONS AT WORK<sup>2</sup></b>								
Nonegricultural industries .....	81,937	86,295	72,971	76,678	8,966	9,617	N.A.	N.A.
Full-time schedules .....	67,150	70,710	59,719	62,774	7,432	7,935	N.A.	N.A.
Part-time for economic reasons .....	3,302	3,355	2,742	2,756	559	600	N.A.	N.A.
Usually work full time .....	1,281	1,311	1,077	1,103	203	209	N.A.	N.A.
Usually work part time .....	2,021	2,044	1,665	1,653	356	391	N.A.	N.A.
Part time for noneconomic reasons .....	11,485	12,230	10,510	11,148	975	1,082	N.A.	N.A.

<sup>1</sup> See footnote 2, table A-59.

as vacation, illness, or industrial dispute.

<sup>2</sup> Excludes persons "with a job but not at work" during the survey period for such reasons

N.A.=Not available.



## HOUSEHOLD DATA QUARTERLY AVERAGES

### A-62. Employed persons of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories

[In thousands]

Selected categories	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>CHARACTERISTICS</b>								
Total, 16 years and over .....	3,845	4,382	2,282	2,667	387	467	305	349
Males .....	2,410	2,730	1,457	1,712	262	309	173	194
Females .....	1,435	1,652	826	956	125	158	132	155
<b>OCCUPATION</b>								
White-collar workers .....	1,177	1,390	584	679	114	170	125	157
Professional and technical .....	281	312	118	141	28	30	36	37
Managers and administrators, except farm .....	204	260	100	139	10	23	26	30
Sales workers .....	131	166	67	75	19	22	14	22
Clerical workers .....	561	652	299	324	57	95	49	68
Blue-collar workers .....	2,668	2,011	1,698	1,328	270	214	179	137
Craft and kindred workers .....	519	563	338	390	41	36	38	40
Operatives, except transport .....	824	924	479	567	113	123	65	71
Transport equipment operatives .....	168	173	106	115	16	24	15	9
Nonfarm laborers .....	284	351	197	256	27	31	12	17
Service workers .....	668	761	387	455	69	82	49	55
Farm workers .....	205	221	191	205	4	4	--	2
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	226	243	208	225	5	5	--	2
Self-employed workers .....	9	21	7	15	--	--	1	1
Unpaid family workers .....	--	1	--	1	--	--	--	--
Nonagriculture industries:								
Wage and salary workers .....	3,436	3,900	1,973	2,297	371	451	281	318
Government .....	528	574	331	366	49	70	24	25
Private industries .....	2,908	3,326	1,642	1,931	321	381	256	294
Private households .....	70	88	45	58	1	2	1	1
Other industries .....	2,838	3,238	1,597	1,873	320	379	255	293
Self-employed workers .....	157	202	84	118	9	11	23	27
Unpaid family workers .....	17	15	10	11	2	--	--	1
<b>PERSONS AT WORK<sup>2</sup></b>								
Nonagricultural industries .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Full-time schedules .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Part time for economic reasons .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Usually work full time .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Usually work part time .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Part time for noneconomic reasons .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

<sup>1</sup> See footnote 1, table A-80.

as vacation, illness, or industrial dispute.

<sup>2</sup> Excludes persons "with a job but not at work" during the survey period for such reasons

N.A.=Not available.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-63. Employed persons by sex, age, race, and Hispanic origin

[In thousands]

Sex and age	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>Total, 16 years and over</b> .....	90,327	94,295	80,580	83,831	8,370	8,874	3,845	4,382
16 to 19 years .....	7,646	8,089	7,100	7,451	459	526	346	410
16 to 17 years .....	3,066	3,319	2,879	3,108	158	167	115	155
18 to 19 years .....	4,580	4,770	4,222	4,343	300	359	231	254
20 to 24 years .....	12,791	13,504	11,406	11,998	1,181	1,283	655	789
25 years and over .....	69,890	72,701	62,073	64,382	6,730	7,066	2,844	3,183
25 to 54 years .....	56,147	58,518	49,586	51,575	5,594	5,855	2,553	2,838
55 years and over .....	13,743	14,182	12,488	12,808	1,137	1,211	291	345
<b>Males, 16 years and over</b> .....	53,858	55,655	48,567	50,071	4,509	4,708	2,410	2,730
16 to 19 years .....	4,222	4,394	3,919	4,047	262	289	211	221
16 to 17 years .....	1,747	1,842	1,637	1,723	97	97	65	89
18 to 19 years .....	2,475	2,553	2,282	2,324	165	191	146	131
20 to 24 years .....	7,002	7,401	6,280	6,640	616	645	379	490
25 years and over .....	42,634	43,860	38,368	39,384	3,631	3,774	1,821	2,019
25 to 54 years .....	34,092	35,115	30,553	31,438	2,991	3,081	1,610	1,769
55 years and over .....	8,543	8,745	7,816	7,946	640	693	212	250
<b>Females, 16 years and over</b> .....	36,469	38,640	32,013	33,760	3,861	4,166	1,435	1,652
16 to 19 years .....	3,425	3,695	3,181	3,403	197	237	135	189
16 to 17 years .....	1,319	1,478	1,242	1,385	62	70	50	66
18 to 19 years .....	2,105	2,217	1,939	2,018	135	167	85	123
20 to 24 years .....	5,789	6,104	5,126	5,358	565	638	276	299
25 years and over .....	27,256	28,842	23,706	24,998	3,099	3,290	1,023	1,164
25 to 54 years .....	22,055	23,404	19,034	20,136	2,602	2,773	944	1,069
55 years and over .....	5,201	5,438	4,672	4,862	497	517	79	95

<sup>1</sup> See footnote 1, table A-59.

<sup>2</sup> See footnote 2, table A-59.

## A-64. Rates of unemployment by sex, age, race, and Hispanic origin

Sex and age	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>Total, 16 years and over</b> .....	6.9	5.8	6.2	5.0	13.3	12.7	9.9	8.9
16 to 19 years .....	18.5	16.3	16.1	13.5	43.1	41.9	23.1	21.0
16 to 17 years .....	21.5	19.6	18.9	16.8	49.1	49.6	29.1	29.8
18 to 19 years .....	16.4	13.8	14.0	10.9	39.4	37.5	19.7	14.5
20 to 24 years .....	10.7	9.2	9.1	7.6	23.2	21.7	12.6	9.4
25 years and over .....	4.7	3.8	4.3	3.4	7.9	7.3	7.2	6.9
25 to 54 years .....	4.9	4.0	4.4	3.5	8.5	7.9	7.0	7.1
55 years and over .....	3.9	3.1	3.8	2.9	5.0	4.4	9.1	5.5
<b>Males, 16 years and over</b> .....	6.2	5.0	5.5	4.2	12.2	11.5	9.1	7.3
16 to 19 years .....	17.5	15.0	15.2	12.3	40.0	39.5	21.3	21.4
16 to 17 years .....	20.3	18.4	17.9	15.6	45.1	47.7	31.2	28.9
18 to 19 years .....	15.5	12.3	13.3	9.8	37.2	34.2	15.9	15.4
20 to 24 years .....	10.7	8.4	9.2	6.9	22.0	20.9	13.5	7.9
25 years and over .....	4.1	3.2	3.8	2.9	7.1	6.3	6.4	5.3
25 to 54 years .....	4.2	3.2	3.8	2.8	7.5	6.8	6.2	5.4
55 years and over .....	3.6	3.1	3.4	3.0	5.2	4.1	7.8	4.9
<b>Females, 16 years and over</b> .....	8.0	7.0	7.1	6.1	14.5	14.1	11.2	11.4
16 to 19 years .....	19.6	17.8	17.1	14.8	46.4	44.7	25.7	20.6
16 to 17 years .....	23.0	21.0	20.3	18.3	54.3	52.0	26.1	30.9
18 to 19 years .....	17.3	15.5	14.9	12.2	41.8	41.0	25.5	13.6
20 to 24 years .....	10.8	10.2	9.0	8.4	24.4	22.4	11.3	11.8
25 years and over .....	5.7	4.7	5.2	4.2	9.2	8.5	8.8	9.6
25 to 54 years .....	6.0	5.1	5.4	4.5	9.9	9.1	8.5	9.8
55 years and over .....	4.4	3.0	4.3	2.8	5.0	4.8	12.2	6.9

<sup>1</sup> See footnote 1, table A-59.

<sup>2</sup> See footnote 2, table A-59.

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-65. Unemployed persons by duration of unemployment, race, and Hispanic origin**

[Numbers in thousands]

Weeks of unemployment	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>Duration</b>								
Total, 16 years and over .....	6,724	5,823	5,298	4,397	1,425	1,426	420	427
Less than 5 weeks .....	2,966	2,791	2,347	2,166	619	625	204	225
5 to 14 weeks .....	1,667	1,512	1,294	1,132	373	381	101	103
15 weeks and over .....	2,091	1,520	1,657	1,099	433	420	115	99
15 to 26 weeks .....	969	829	775	618	194	211	64	61
27 weeks and over .....	1,122	690	883	481	239	209	51	38
Average (mean) duration, in weeks .....	15.1	12.6	15.0	12.0	15.4	14.3	13.5	11.3
Median duration, in weeks .....	6.8	5.5	6.7	5.2	7.1	6.7	5.4	4.7
<b>Percent distribution</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	44.1	47.9	44.3	49.3	43.4	43.8	48.6	52.7
5 to 14 weeks .....	24.8	26.0	24.4	25.7	26.2	26.7	24.0	24.1
15 weeks and over .....	31.1	26.1	31.3	25.0	30.4	29.5	27.4	23.2
15 to 26 weeks .....	14.4	14.2	14.6	14.1	13.6	14.8	15.2	14.3
27 weeks and over .....	16.7	11.9	16.7	10.9	16.8	14.7	12.1	8.9

<sup>1</sup> See footnote 2, table A-59.

**A-66. Unemployed persons by reason for unemployment, race and Hispanic origin**

[Numbers in thousands]

Reason for unemployment	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	6,724	5,823	5,298	4,397	1,425	1,426	420	427
Job losers .....	2,893	2,351	2,351	1,842	542	509	203	197
On layoff .....	728	565	621	495	108	70	39	39
Other job losers .....	2,164	1,786	1,731	1,347	434	438	164	159
Job leavers .....	809	756	698	630	111	126	41	52
Reentrants .....	1,964	1,766	1,485	1,277	479	489	109	102
New entrants .....	1,058	950	764	647	295	303	67	75
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	43.0	40.4	44.4	41.9	38.0	35.8	48.3	46.1
On layoff .....	10.8	9.7	11.7	11.3	7.6	4.9	9.3	9.1
Other job losers .....	32.2	30.7	32.7	30.6	30.4	30.7	39.0	37.2
Job leavers .....	12.0	13.0	13.2	14.3	7.8	8.8	9.8	12.2
Reentrants .....	29.2	30.3	28.0	29.1	33.6	34.3	26.0	23.9
New entrants .....	15.7	16.3	14.4	14.7	20.7	21.2	16.0	17.6
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	3.0	2.4	2.7	2.1	4.9	4.3	4.8	4.1
Job leavers .....	.8	.8	.8	.7	1.0	1.1	1.0	1.1
Reentrants .....	2.0	1.8	1.7	1.4	4.3	4.1	2.6	2.1
New entrants .....	1.1	.9	.9	.7	2.6	2.5	1.6	1.6

<sup>1</sup> See footnote 2, table A-59.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-67. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years of age

[Numbers in thousands]

Employment status	Not seasonally adjusted		Seasonally adjusted								
	II 1977	II 1978	1976			1977				1978	
			II	III	IV	I	II	III	IV	I	II
<b>VETERANS<sup>1</sup></b>											
<b>Total, 20 to 34 years:</b>											
Civilian noninstitutional population <sup>2</sup>	6,848	6,528	6,668	6,710	6,797	6,853	6,848	6,815	6,753	6,592	6,528
Civilian labor force	6,494	6,198	6,307	6,336	6,417	6,489	6,495	6,528	6,438	6,283	6,199
Employed	6,006	5,934	5,822	5,817	5,893	6,015	6,005	6,029	6,018	5,949	5,934
Unemployed	488	264	485	519	524	473	491	499	420	333	265
Unemployment rate	7.5	4.3	7.7	8.2	8.2	7.3	7.6	7.6	6.5	5.3	4.3
<b>20 to 24 years</b>											
Civilian noninstitutional population <sup>2</sup>	1,069	784	1,088	1,071	1,083	1,084	1,069	1,042	968	827	784
Civilian labor force	933	697	948	934	953	965	935	944	862	737	696
Employed	793	637	788	762	790	804	788	776	743	642	633
Unemployed	140	60	160	172	163	161	147	168	120	95	63
Unemployment rate	15.0	8.6	16.9	18.4	17.1	16.7	15.7	17.8	13.9	12.9	9.1
<b>25 to 29 years</b>											
Civilian noninstitutional population <sup>2</sup>	3,039	2,417	3,328	3,250	3,186	3,109	3,039	2,994	2,813	2,539	2,417
Civilian labor force	2,896	2,290	3,159	3,067	3,009	2,938	2,896	2,872	2,670	2,400	2,292
Employed	2,673	2,173	2,938	2,841	2,768	2,725	2,675	2,682	2,499	2,270	2,175
Unemployed	223	117	222	225	241	212	221	190	170	130	116
Unemployment rate	7.7	5.1	7.0	7.3	8.0	7.2	7.6	6.6	6.4	5.4	5.1
<b>30 to 34 years</b>											
Civilian noninstitutional population <sup>2</sup>	2,740	3,327	2,252	2,389	2,528	2,660	2,740	2,779	2,972	3,226	3,327
Civilian labor force	2,665	3,211	2,199	2,335	2,455	2,586	2,665	2,712	2,906	3,145	3,212
Employed	2,540	3,124	2,096	2,214	2,335	2,486	2,542	2,571	2,776	3,037	3,126
Unemployed	125	87	103	122	120	100	123	141	130	109	86
Unemployment rate	4.7	2.7	4.7	5.2	4.9	3.9	4.6	5.2	4.5	3.5	2.7
<b>NONVETERANS</b>											
<b>Total, 20 to 34 years:</b>											
Civilian noninstitutional population <sup>2</sup>	17,445	18,385	16,640	16,849	16,999	17,191	17,445	17,711	17,988	18,164	18,385
Civilian labor force	15,746	16,714	15,003	15,181	15,448	15,619	15,717	15,955	16,242	16,503	16,685
Employed	14,612	15,733	13,781	13,889	14,082	14,342	14,569	14,763	15,104	15,363	15,689
Unemployed	1,134	981	1,221	1,293	1,366	1,278	1,148	1,192	1,137	1,140	996
Unemployment rate	7.2	5.9	8.1	8.5	8.8	8.2	7.3	7.5	7.0	6.9	6.0
<b>20 to 24 years</b>											
Civilian noninstitutional population <sup>2</sup>	8,106	8,379	7,885	7,951	7,982	8,037	8,106	8,181	8,299	8,311	8,379
Civilian labor force	6,904	7,209	6,694	6,732	6,867	6,914	6,864	6,949	7,065	7,119	7,169
Employed	6,209	6,614	5,962	5,994	6,058	6,167	6,182	6,262	6,406	6,422	6,586
Unemployed	695	595	732	738	809	747	682	687	659	697	583
Unemployment rate	10.1	8.3	10.9	11.0	11.8	10.8	9.9	9.9	9.3	9.8	8.1
<b>25 to 29 years</b>											
Civilian noninstitutional population <sup>2</sup>	5,301	6,015	4,972	5,120	5,173	5,240	5,301	5,355	5,574	5,860	6,015
Civilian labor force	4,982	5,679	4,678	4,833	4,878	4,953	4,988	5,031	5,249	5,567	5,683
Employed	4,701	5,422	4,372	4,462	4,516	4,591	4,684	4,713	4,951	5,268	5,404
Unemployed	281	257	306	371	362	362	304	318	298	299	279
Unemployment rate	5.6	4.5	6.5	7.7	7.4	7.3	6.1	6.3	5.7	5.4	4.9
<b>30 to 34 years</b>											
Civilian noninstitutional population <sup>2</sup>	4,038	3,991	3,783	3,778	3,844	3,914	4,038	4,175	4,115	3,993	3,991
Civilian labor force	3,860	3,826	3,631	3,616	3,703	3,753	3,866	3,975	3,928	3,818	3,833
Employed	3,702	3,697	3,448	3,433	3,508	3,584	3,703	3,789	3,747	3,673	3,699
Unemployed	158	129	184	184	194	169	163	186	181	144	134
Unemployment rate	4.1	3.4	5.1	5.1	5.2	4.5	4.2	4.7	4.6	3.8	3.5

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

<sup>2</sup> Since seasonal variations are not present in the population figures, identical numbers appear in the unadjusted and seasonally adjusted columns.

## HOUSEHOLD DATA QUARTERLY AVERAGES

### A-68. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years by age, race, and Hispanic origin

[Numbers in thousands]

Employment status	Veterans <sup>1</sup>						Nonveterans					
	White		Black and other		Hispanic origin <sup>2</sup>		White		Black and other		Hispanic origin <sup>2</sup>	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>Total, 20 to 34 years:</b>												
Civilian noninstitutional population .....	6,160	5,885	688	643	N.A.	241	15,163	15,974	2,282	2,411	N.A.	1,224
Civilian labor force .....	5,877	5,619	617	579	N.A.	225	13,820	14,676	1,926	2,038	N.A.	1,116
Employed .....	5,486	5,404	520	530	N.A.	213	12,941	13,971	1,671	1,762	N.A.	1,031
Unemployed .....	391	215	97	49	N.A.	12	879	705	255	276	N.A.	85
Unemployment rate .....	6.5	3.8	15.7	8.5	N.A.	5.3	6.4	4.8	13.2	13.5	N.A.	7.6
<b>20 to 24 years</b>												
Civilian noninstitutional population .....	887	685	182	99	N.A.	62	7,100	7,277	1,006	1,102	N.A.	540
Civilian labor force .....	786	620	147	77	N.A.	56	6,133	6,360	771	849	N.A.	470
Employed .....	690	572	103	65	N.A.	52	5,590	5,934	619	680	N.A.	434
Unemployed .....	96	48	44	12	N.A.	4	543	426	152	169	N.A.	36
Unemployment rate .....	12.2	7.7	29.9	15.6	N.A.	(3)	8.9	6.7	19.7	19.9	N.A.	7.7
<b>25 to 29 years</b>												
Civilian noninstitutional population .....	2,757	2,165	282	252	N.A.	91	4,600	5,254	701	761	N.A.	391
Civilian labor force .....	2,638	2,059	258	231	N.A.	86	4,352	4,990	630	689	N.A.	368
Employed .....	2,450	1,966	223	207	N.A.	82	4,132	4,803	569	619	N.A.	339
Unemployed .....	188	93	35	24	N.A.	4	220	187	61	70	N.A.	29
Unemployment rate .....	7.1	4.5	13.6	10.4	N.A.	4.7	5.1	3.7	9.7	10.2	N.A.	7.9
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	2,516	3,035	224	292	N.A.	88	3,463	3,443	575	548	N.A.	293
Civilian labor force .....	2,453	2,940	212	271	N.A.	83	3,335	3,326	525	500	N.A.	278
Employed .....	2,346	2,866	194	258	N.A.	79	3,219	3,234	483	463	N.A.	258
Unemployed .....	107	74	18	13	N.A.	4	116	92	42	37	N.A.	20
Unemployment rate .....	4.4	2.5	8.5	4.8	N.A.	4.8	3.5	2.8	8.0	7.4	N.A.	7.2

<sup>1</sup> Vietnam-Era veterans are those who served between August 5, 1964 and May 7, 1975.  
<sup>2</sup> See footnote 2, table A-59.

<sup>3</sup> Percent not shown where base is less than 60,000.  
 N.A.=Not available.

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-69. Employment status of the population in metropolitan and nonmetropolitan areas by sex, age, and race**

(Numbers in thousands)

Employment status	Metropolitan areas						Nonmetropolitan areas					
	Total		Central cities		Suburbs		Total		Farm		Nonfarm	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>Total</b>												
Civilian noninstitutional population	106,097	106,945	45,206	45,215	60,891	61,730	49,996	51,660	4,756	4,761	45,240	46,899
Civilian labor force	66,837	68,358	27,338	28,016	39,499	40,342	30,215	31,759	2,976	3,041	27,239	28,718
Percent of population	63.0	63.9	60.5	62.0	64.9	65.4	60.4	61.5	62.6	63.9	60.2	61.2
Employed	62,069	64,283	25,040	25,991	37,029	38,292	28,258	30,012	2,912	2,955	25,346	27,057
Unemployed	4,768	4,075	2,297	2,025	2,471	2,050	1,956	1,748	65	86	1,891	1,662
Unemployment rate	7.1	6.0	8.4	7.2	6.3	5.1	6.5	5.5	2.2	2.8	6.9	5.8
Not in labor force	39,261	38,587	17,868	17,200	21,393	21,387	19,782	19,901	1,780	1,721	18,002	18,180
<b>Males, 20 years and over</b>												
Civilian noninstitutional population	44,501	44,985	18,609	18,664	25,892	26,321	21,134	21,858	2,171	2,157	18,963	19,701
Civilian labor force	35,960	36,327	14,445	14,504	21,515	21,823	16,325	17,059	1,798	1,804	14,527	15,255
Percent of population	80.8	80.8	77.6	77.7	83.1	82.9	77.2	78.0	82.8	83.6	76.6	77.4
Employed	34,039	34,831	13,454	13,702	20,585	21,129	15,597	16,430	1,783	1,780	13,814	14,650
Unemployed	1,921	1,496	991	801	930	695	728	630	15	24	713	606
Unemployment rate	5.3	4.1	6.9	5.5	4.3	3.2	4.5	3.7	.8	1.3	4.9	4.0
Not in labor force	8,541	8,659	4,165	4,160	4,376	4,499	4,809	4,799	373	353	4,436	4,446
<b>Females, 20 years and over</b>												
Civilian noninstitutional population	50,553	51,002	22,146	22,124	28,407	28,878	23,431	24,308	2,037	2,042	21,394	22,266
Civilian labor force	24,606	25,666	10,625	11,136	13,981	14,530	10,780	11,405	839	869	9,941	10,536
Percent of population	48.7	50.3	48.0	50.3	49.2	50.3	46.0	46.9	41.2	42.6	46.5	47.3
Employed	22,953	24,193	9,862	10,413	13,391	13,780	10,091	10,752	808	838	9,283	9,914
Unemployed	1,653	1,473	763	723	890	750	688	653	32	31	656	622
Unemployment rate	6.7	5.7	7.2	6.5	6.4	5.2	6.4	5.7	3.8	3.5	6.6	5.9
Not in labor force	25,947	25,336	11,521	10,988	14,426	14,348	12,651	12,902	1,198	1,173	11,453	11,729
<b>Both sexes, 16-19 years</b>												
Civilian noninstitutional population	11,043	10,958	4,451	4,427	6,592	6,531	5,432	5,494	548	563	4,884	4,931
Civilian labor force	6,270	6,365	2,268	2,376	4,002	3,989	3,110	3,295	339	368	2,771	2,927
Percent of population	56.8	58.1	51.0	53.7	60.7	61.1	57.3	60.0	61.9	65.4	56.7	59.4
Employed	5,076	5,259	1,724	1,877	3,352	3,382	2,570	2,830	321	337	2,249	2,493
Unemployed	1,194	1,106	544	500	650	606	540	465	18	31	522	434
Unemployment rate	19.0	17.4	24.0	21.0	16.2	15.2	17.4	14.1	5.3	8.4	18.8	14.8
Not in labor force	4,773	4,593	2,184	2,051	2,589	2,542	2,321	2,199	209	195	2,112	2,004
<b>White</b>												
Civilian noninstitutional population	91,760	92,381	34,769	34,836	56,991	57,545	45,572	46,942	4,469	4,461	41,103	42,481
Civilian labor force	58,220	59,256	21,258	21,730	36,962	37,526	27,658	28,971	2,821	2,868	24,837	26,103
Percent of population	63.4	64.1	61.1	62.4	64.9	65.2	60.7	61.7	63.1	64.3	60.4	61.4
Employed	54,580	56,280	19,806	20,517	34,774	35,763	26,000	27,551	2,764	2,801	23,236	24,750
Unemployed	3,640	2,976	1,452	1,214	2,188	1,762	1,658	1,420	57	67	1,601	1,353
Unemployment rate	6.3	5.0	6.8	5.6	5.9	4.7	6.0	4.9	2.0	2.3	6.4	5.2
Not in labor force	33,540	33,124	13,510	13,106	20,030	20,108	17,914	17,971	1,648	1,593	16,266	16,378
<b>Black and other</b>												
Civilian noninstitutional population	14,337	14,565	10,437	10,379	3,900	4,186	4,424	4,718	287	300	4,137	4,418
Civilian labor force	8,617	9,102	6,079	6,286	2,538	2,816	2,557	2,789	156	173	2,401	2,616
Percent of population	60.1	62.5	58.2	60.6	65.1	67.3	57.8	59.1	54.3	57.5	58.0	59.2
Employed	7,489	8,003	5,233	5,475	2,256	2,528	2,258	2,461	148	154	2,110	2,307
Unemployed	1,127	1,099	845	811	282	288	298	327	8	19	290	308
Unemployment rate	13.1	12.1	13.9	12.9	11.1	10.2	11.7	11.7	5.0	10.8	12.1	11.8
Not in labor force	5,721	5,463	4,358	4,094	1,363	1,369	1,867	1,929	131	128	1,736	1,801

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**A-70. Employment status of the population in poverty and nonpoverty areas by race**

(Number in thousands)

Employment status	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>Total</b>												
Civilian noninstitutional population	28,937	29,073	127,156	129,532	11,480	11,137	94,617	95,808	17,457	17,936	32,539	33,724
Civilian labor force	15,923	16,394	81,128	83,723	6,019	6,020	60,818	62,338	9,904	10,374	20,310	21,385
Percent of population	55.0	56.4	63.8	64.6	52.4	54.1	64.3	65.1	56.7	57.8	62.4	63.4
Employed	14,506	14,989	75,821	79,305	5,251	5,269	56,818	59,014	9,255	9,720	19,004	20,292
Unemployed	1,417	1,405	5,307	4,418	768	751	4,000	3,325	649	654	1,307	1,094
Unemployment rate	8.9	8.6	6.5	5.3	12.8	12.5	6.6	5.3	6.6	6.3	6.4	5.1
Not in labor force	13,014	12,679	46,028	45,809	5,461	5,117	33,800	33,470	7,553	7,562	12,229	12,339
<b>White</b>												
Civilian noninstitutional population	20,442	20,606	116,891	118,716	5,987	5,836	85,773	86,544	14,455	14,770	31,117	32,172
Civilian labor force	11,519	11,851	74,359	76,376	3,255	3,243	54,965	56,014	8,263	8,609	19,395	20,362
Percent of population	56.3	57.5	63.6	64.3	54.4	55.6	64.1	64.7	57.2	58.3	62.3	63.3
Employed	10,754	11,126	69,826	72,705	2,945	2,950	51,634	53,330	7,808	8,175	18,192	19,375
Unemployed	765	726	4,533	3,671	310	292	3,330	2,684	455	433	1,203	987
Unemployment rate	6.6	6.1	6.1	4.8	9.5	9.0	6.1	4.8	5.5	5.0	6.2	4.8
Not in labor force	8,923	8,755	42,531	42,341	2,731	2,593	30,809	30,531	6,192	6,162	11,723	11,810
<b>Black and other</b>												
Civilian noninstitutional population	8,495	8,467	10,266	10,816	5,493	5,301	8,844	9,264	3,002	3,166	1,422	1,552
Civilian labor force	4,404	4,543	6,769	7,347	2,764	2,777	5,853	6,325	1,641	1,766	916	1,023
Percent of population	51.8	53.7	65.9	67.9	50.3	52.4	66.2	68.3	54.7	55.8	64.4	65.9
Employed	3,752	3,864	5,995	6,600	2,306	2,319	5,183	5,684	1,446	1,545	812	916
Unemployed	652	679	773	747	458	458	670	641	194	221	104	107
Unemployment rate	14.8	14.9	11.4	10.2	16.6	16.5	11.4	10.1	11.8	12.5	11.3	10.4
Not in labor force	4,091	3,924	3,497	3,468	2,729	2,524	2,991	2,939	1,361	1,400	506	529

**A-71. Unemployment rates for selected labor force groups in poverty and nonpoverty areas by sex, age, and race**

Sex, age, and race	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978	II 1977	II 1978
<b>Total</b>												
Both sexes, 16 years and over	8.9	8.6	6.5	5.3	12.8	12.5	6.6	5.3	6.6	6.3	6.4	5.1
Males, 20 years and over	6.7	5.9	4.8	3.6	10.8	9.2	4.8	3.6	4.3	4.1	4.6	3.5
Females, 20 years and over	8.3	8.3	6.3	5.2	10.5	10.9	6.3	5.2	6.9	6.7	6.1	5.3
Both sexes, 16-19 years	24.1	23.7	17.4	14.7	34.2	36.5	17.6	15.5	18.4	16.8	16.9	12.8
<b>White</b>												
Both sexes, 16 years and over	6.6	6.1	6.1	4.8	9.5	9.0	6.1	4.8	5.5	5.0	6.2	4.8
Males, 20 years and over	5.2	4.5	4.5	3.3	9.0	6.8	4.5	3.3	3.7	3.6	4.4	3.4
Females, 20 years and over	6.1	6.2	5.8	4.8	7.7	8.4	5.8	4.7	5.4	5.3	5.9	5.0
Both sexes, 16-19 years	17.5	15.4	15.9	13.2	20.1	25.6	15.7	13.7	16.6	12.1	16.3	11.8
<b>Black and other</b>												
Both sexes, 16 years and over	14.8	14.9	11.4	10.2	16.6	16.5	11.4	10.1	11.8	12.5	11.3	10.4
Males, 20 years and over	11.1	10.3	8.1	7.2	13.1	12.6	8.1	7.3	7.8	6.8	8.0	6.7
Females, 20 years and over	13.2	13.0	10.3	9.0	13.2	13.3	10.2	9.0	13.2	12.4	10.7	9.1
Both sexes, 16-19 years	41.7	44.2	39.6	34.8	49.9	47.4	41.4	35.2	27.9	39.2	30.7	32.6

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**A-72. Unemployed persons by family relationship and presence of employed family members**

(Numbers in thousands)

Family relationship	II 1977				II 1978			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
<b>TOTAL</b>								
Unemployed, total .....	6,724	38.1	61.9	55.7	5,823	38.2	61.8	55.7
Unemployed, in families <sup>1</sup> .....	5,852	28.9	71.1	63.9	5,047	28.7	71.3	64.2
Husbands <sup>2</sup> .....	1,386	51.7	48.3	38.4	1,079	51.5	48.5	39.0
Wives .....	1,299	14.0	86.0	80.6	1,075	13.1	86.9	81.2
Relatives in husband-wife families .....	2,051	11.0	89.0	85.1	1,786	8.5	91.5	86.5
Women who head families .....	376	81.6	18.4	10.9	420	82.4	17.6	11.4
Relatives of female heads .....	740	35.1	64.9	50.8	687	36.7	63.3	51.8
Unemployed, not in families <sup>3</sup> .....	872	--	--	--	776	--	--	--
<b>White</b>								
Unemployed, total .....	5,298	36.7	63.3	57.2	4,397	36.3	63.7	57.9
Unemployed, in families <sup>1</sup> .....	4,583	26.9	73.1	66.2	3,793	26.1	73.9	67.2
Husbands <sup>2</sup> .....	1,174	52.6	47.4	37.5	897	51.2	48.8	38.6
Wives .....	1,079	12.9	87.1	82.6	889	12.6	87.4	82.2
Relatives in husband-wife families .....	1,672	10.1	89.9	86.1	1,416	8.1	91.9	87.3
Women who head families .....	228	72.8	27.2	15.4	229	79.5	20.5	13.5
Relatives of female heads .....	430	32.3	67.7	53.0	362	33.7	66.3	56.1
Unemployed, not in families <sup>3</sup> .....	715	--	--	--	604	--	--	--
<b>Black<sup>4</sup></b>								
Unemployed, total .....	1,283	43.1	56.9	49.5	1,293	44.5	55.5	48.3
Unemployed, in families <sup>1</sup> .....	1,146	36.3	63.7	55.4	1,142	37.2	62.8	54.7
Husbands <sup>2</sup> .....	173	45.7	54.3	42.8	153	54.9	45.1	39.2
Wives .....	195	16.9	83.1	73.3	165	13.3	86.7	78.2
Relatives in husband-wife families .....	338	15.4	84.6	80.2	327	9.5	90.5	84.1
Women who head families .....	141	95.7	4.3	4.3	187	86.6	13.4	8.6
Relatives of female heads .....	299	39.1	60.9	47.2	310	40.6	59.4	46.8
Unemployed, not in families <sup>3</sup> .....	137	--	--	--	151	--	--	--

<sup>1</sup> In primary families only.

<sup>2</sup> Includes a small number of single, separated, widowed, or divorced men who head families.

<sup>3</sup> Includes unrelated individuals and persons in secondary families.

<sup>4</sup> According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.



**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-73. Employed persons by family relationship and presence of additional employed family members**

(Numbers in thousands)

Family relationship	II 1977				II 1978			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time
<b>TOTAL</b>								
Employed, total .....	90,327	37.9	62.1	53.0	94,295	37.4	62.6	53.6
Employed, in families <sup>1</sup> .....	78,866	28.9	71.1	60.7	81,294	27.4	72.6	62.2
Husbands <sup>2</sup> .....	39,043	42.5	57.5	41.8	39,280	40.7	59.3	43.4
Wives .....	20,634	9.0	91.0	86.4	21,368	8.2	91.8	87.5
Relatives in husband-wife families .....	12,195	6.2	93.8	90.1	12,884	6.0	94.0	90.6
Women who head families .....	3,983	68.2	31.8	21.8	4,404	65.7	34.3	24.2
Relatives of female heads .....	3,011	29.6	70.4	60.2	3,358	27.4	72.6	61.8
Employed, not in families <sup>3</sup> .....	11,461	--	--	--	13,001	--	--	--
<b>White</b>								
Employed, total .....	80,580	37.5	62.5	53.2	83,831	36.9	63.1	54.0
Employed, in families <sup>1</sup> .....	70,504	28.6	71.4	60.8	72,602	27.1	72.9	62.3
Husbands <sup>2</sup> .....	35,556	43.0	57.0	41.0	35,819	41.1	58.9	42.6
Wives .....	18,496	8.6	91.4	86.9	19,177	7.9	92.1	87.9
Relatives in husband-wife families .....	11,165	5.9	94.1	90.5	11,691	5.8	94.2	91.0
Women who head families .....	2,938	65.9	34.1	23.0	3,281	63.2	36.8	25.6
Relatives of female heads .....	2,349	29.7	70.3	60.1	2,634	26.8	73.2	62.7
Employed, not in families <sup>3</sup> .....	10,076	--	--	--	11,229	--	--	--
<b>Black<sup>4</sup></b>								
Employed, total .....	8,370	41.8	58.2	50.5	8,874	43.0	57.0	49.8
Employed, in families <sup>1</sup> .....	7,208	32.4	67.6	58.7	7,374	31.4	68.6	59.9
Husbands <sup>2</sup> .....	2,948	37.2	62.8	50.4	2,885	36.2	63.8	52.3
Wives .....	1,824	12.3	87.7	82.0	1,817	11.1	88.9	83.6
Relatives in husband-wife families .....	819	9.8	90.2	85.2	938	9.0	91.0	85.1
Women who head families .....	1,000	75.0	25.0	18.2	1,057	73.7	26.3	19.2
Relatives of female heads .....	617	29.8	70.2	59.5	677	30.1	69.9	57.5
Employed, not in families <sup>3</sup> .....	1,162	--	--	--	1,500	--	--	--

<sup>1</sup> See footnote 1, table A-72.

<sup>2</sup> See footnote 2, table A-72.

<sup>3</sup> See footnote 3, table A-72.

<sup>4</sup> See footnote 4, table A-72.

# 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
June.....	82,930	24,679	870	4,047	19,762	58,251	4,629	18,342	4,409	13,933	4,534	15,458	15,288	2,765	12,523
July.....	82,167	24,551	848	4,148	19,555	57,616	4,604	18,306	4,420	13,886	4,565	15,541	14,600	2,773	11,827
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	24,872	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.....	85,663	25,341	902	4,275	20,164	60,322	4,704	18,934	4,539	14,395	4,705	16,063	15,916	2,756	13,160
June.....	86,547	25,876	928	4,541	20,407	60,671	4,758	19,083	4,586	14,497	4,773	16,228	15,829	2,788	13,041

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 <sup>1</sup>				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
-	<b>TOTAL</b> .....	82,029	82,930	84,918	85,663	86,547	-	-	-	-	-
-	<b>PRIVATE SECTOR</b> .....	66,684	67,642	69,038	69,747	70,718	54,787	55,593	56,518	57,152	57,952
-	<b>MINING</b> .....	844	870	889	902	928	636	658	672	684	702
10	<b>METAL MINING</b> .....	97.2	99.5	95.4	95.7	-	75.0	76.7	73.9	74.1	-
101	Iron ores .....	26.1	26.8	25.0	25.8	-	21.0	21.6	20.0	20.7	-
102	Copper ores .....	36.7	37.3	35.4	35.5	-	28.2	28.8	27.6	27.5	-
11,12	<b>COAL MINING</b> .....	230.1	236.0	233.6	236.7	-	190.0	196.7	194.8	198.3	-
12	Bituminous coal and lignite mining .....	226.1	231.9	229.8	233.1	-	186.5	193.1	191.6	195.1	-
13	<b>OIL AND GAS EXTRACTION</b> .....	395.9	409.5	437.0	443.1	-	274.8	285.4	305.6	310.9	-
131,2	Crude petroleum and natural gas fields .....	172.0	176.7	183.0	184.4	-	85.5	87.8	89.8	90.9	-
138	Oil and gas field services .....	223.9	232.8	254.0	258.7	-	189.3	197.6	215.8	220.0	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	121.2	124.6	122.8	126.3	-	96.3	99.5	97.4	100.6	-
142	Crushed and broken stone .....	42.7	44.0	43.4	45.4	-	35.6	36.7	36.1	38.0	-
144	Sand and gravel .....	37.8	39.2	37.9	39.4	-	-	-	-	-	-
-	<b>CONTRACT CONSTRUCTION</b> .....	3,853	4,047	4,072	4,275	4,541	3,067	3,243	3,250	3,445	3,691
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,141.1	1,198.3	1,197.6	1,238.8	-	900.7	951.2	934.2	975.3	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	805.9	858.5	819.9	911.1	-	656.1	705.4	681.9	769.3	-
161	Highway and street construction .....	361.6	394.9	345.8	490.2	-	303.9	335.1	286.1	348.1	-
162	Heavy construction, nec. ....	444.3	463.6	474.1	501.9	-	352.2	370.3	395.8	421.2	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	1,906.0	1,990.4	2,054.7	2,125.2	-	1,510.0	1,586.3	1,633.5	1,700.3	-
171	Plumbing, heating, air conditioning .....	445.6	458.8	466.9	474.9	-	335.9	346.9	352.9	359.2	-
172	Painting, paper hanging, decorating .....	144.6	159.4	158.2	165.7	-	120.5	133.0	130.7	139.1	-
173	Electrical work .....	325.1	333.4	334.4	345.0	-	253.4	260.8	259.1	270.3	-
174	Masonry, stonework, and plastering .....	222.9	234.1	263.2	270.8	-	191.5	202.2	229.1	235.8	-
176	Roofing and sheet metal work .....	137.1	141.5	162.3	165.1	-	100.4	114.5	132.7	135.1	-
-	<b>MANUFACTURING</b> .....	19,470	19,762	20,040	20,164	20,407	14,021	14,258	14,432	14,539	14,713
19,24,25,32-39	<b>DURABLE GOODS</b> .....	11,442	11,598	11,931	12,020	12,151	8,207	8,334	8,578	8,654	8,744
20-23,26-31	<b>NONDURABLE GOODS</b> .....	8,028	8,164	8,109	8,144	8,256	5,814	5,924	5,854	5,885	5,969
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES</b> .....	155.2	156.5	156.8	156.0	157.5	71.4	71.9	72.5	71.4	71.5
192	Ammunition, except for small arms .....	99.3	99.8	99.1	97.6	98.4	36.1	35.6	35.9	34.3	33.6
1925	Complete guided missiles .....	81.3	81.4	80.2	79.7	-	23.0	22.2	22.4	21.8	-
1929	Ammunition, exc. for small arms, nec. ....	18.0	18.4	18.9	17.9	-	13.1	13.4	13.5	12.5	-
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	637.0	659.9	660.0	672.3	687.5	542.8	564.5	561.4	572.4	586.9
241	Logging camps and logging contractors .....	71.9	76.6	70.7	74.8	79.8	-	-	-	-	-
242	Sawmills and planing mills .....	216.5	223.0	216.4	218.4	222.5	192.8	199.2	193.3	195.3	198.7
2421	Sawmills and planing mills, general .....	184.0	189.5	182.8	184.9	184.9	163.9	169.4	163.5	165.6	-
243	Millwork, plywood and related products .....	223.2	232.2	244.7	250.1	255.0	186.6	194.8	202.4	207.1	212.1
2431	Millwork .....	100.6	104.2	112.3	113.5	-	82.5	85.8	92.1	93.2	-
2432	Veneer and plywood .....	76.9	79.0	81.8	82.1	-	68.7	70.5	71.8	72.0	-
244	Wooden containers .....	21.8	22.4	21.1	21.8	22.2	19.3	19.9	18.6	19.1	19.5
2441,2	Wooden boxes, shooks, and crates .....	17.6	18.2	16.8	17.4	-	15.7	16.3	14.9	15.4	-
249	Miscellaneous wood products .....	103.6	105.7	107.1	107.2	108.0	85.5	87.7	90.4	90.3	91.3

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 <sup>1</sup>				
		May 1977	June 1977	Apr. 1978	May 1978P	June 1978P	May 1977	June 1977	Apr. 1978	May 1978P	June 1978P
<b>DURABLE GOODS—Continued</b>											
26	<b>FURNITURE AND FIXTURES</b> .....	504.1	511.1	532.8	532.5	536.0	414.8	420.8	439.6	438.9	441.3
261	Household furniture .....	365.7	369.7	386.9	386.4	387.2	309.8	312.7	328.3	327.6	327.5
2611	Wood household furniture .....	186.8	190.0	196.8	196.8	—	163.7	166.6	172.6	172.5	—
2612	Upholstered household furniture .....	105.1	106.5	113.0	113.4	—	86.5	87.7	93.3	93.7	—
2615	Mattresses and bedspings .....	33.0	33.4	35.1	34.9	—	25.6	25.8	27.5	27.3	—
262	Office furniture .....	41.5	42.4	43.4	43.7	—	33.9	34.4	35.2	35.4	—
264	Partitions and fixtures .....	53.2	54.5	56.7	56.6	—	39.4	40.9	42.4	42.2	—
263,9	Other furniture and fixtures .....	43.7	44.5	45.8	45.8	46.6	31.7	32.8	33.7	33.7	34.2
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> ...	655.7	672.2	679.8	691.0	705.5	523.5	539.1	540.4	550.1	562.1
321	Flat glass .....	16.3	16.8	17.0	17.0	—	13.1	13.8	13.7	13.7	—
322	Glass and glassware, pressed or blown .....	137.4	138.6	137.6	137.8	138.7	119.2	120.5	118.4	118.9	119.2
3221	Glass containers .....	79.3	80.5	79.2	79.5	—	70.5	71.7	70.0	70.5	—
3229	Pressed and blown glass, nec .....	58.1	58.1	58.4	58.3	—	48.7	48.8	48.4	48.4	—
324	Cement, hydraulic .....	29.8	30.7	30.6	31.0	31.9	23.5	24.5	24.2	24.7	25.5
325	Structural clay products .....	50.7	52.2	51.9	52.3	53.8	40.8	42.1	41.1	41.5	42.8
3251	Brick and structural clay tile .....	22.9	23.7	23.5	23.8	—	19.0	19.8	19.5	20.0	—
326	Pottery and related products .....	41.2	42.0	41.2	41.6	—	34.8	35.4	34.7	35.0	—
327	Concrete, gypsum, and plaster products .....	202.4	210.0	215.8	222.7	229.6	157.7	164.6	168.7	174.9	181.2
328,9	Other stone and nonmetallic mineral products .....	138.2	141.5	143.4	145.4	147.9	105.0	108.0	109.4	110.7	112.6
3291	Abrasive products .....	23.9	24.5	25.9	26.3	—	16.9	17.4	18.3	18.5	—
33	<b>PRIMARY METAL INDUSTRIES</b> .....	1,217.8	1,233.9	1,214.0	1,225.9	1,239.4	954.9	968.3	953.7	966.6	974.8
331	Blast furnace and basic steel products .....	556.9	565.7	535.4	541.9	(*)	435.5	442.5	420.4	427.3	(*)
3312	Blast furnaces and steel mills .....	483.6	491.7	463.0	469.4	—	379.8	386.0	365.0	371.7	—
332	Iron and steel foundries .....	219.3	223.3	223.4	225.5	228.0	179.5	183.5	183.0	185.5	187.5
3321	Gray iron foundries .....	141.4	144.2	144.7	145.3	—	117.6	120.3	120.7	121.9	—
3322	Malleable iron foundries .....	20.5	20.9	20.7	20.8	—	16.7	17.2	16.7	16.8	—
3323	Steel foundries .....	57.4	58.2	58.0	59.4	—	45.2	46.0	45.6	46.8	—
333,4	Nonferrous metals .....	84.5	85.8	87.6	88.5	90.0	63.9	64.9	67.3	68.2	68.5
3334	Primary aluminum .....	34.4	34.8	36.2	36.8	—	27.7	28.0	29.3	29.9	—
335	Nonferrous rolling and drawing .....	201.5	201.7	202.4	206.3	207.4	149.5	149.4	148.4	152.0	152.2
3351	Copper rolling and drawing .....	37.4	38.3	37.6	39.5	—	28.8	29.8	28.8	30.3	—
3352	Aluminum rolling and drawing .....	64.4	63.2	66.6	67.6	—	46.5	45.4	47.9	48.9	—
3357	Nonferrous wire drawing and insulating .....	79.7	79.8	78.2	78.8	—	60.1	60.0	58.3	59.0	—
336	Nonferrous foundries .....	82.8	83.3	87.5	86.5	87.4	68.8	69.0	72.9	72.1	72.5
3361	Aluminum castings .....	46.3	46.3	49.1	48.3	—	39.2	39.0	41.4	40.7	—
3362,9	Other nonferrous castings .....	36.5	37.0	38.4	38.2	—	29.6	30.0	31.5	31.4	—
339	Miscellaneous primary metal products .....	72.8	74.1	77.7	77.2	(*)	57.7	59.0	61.7	61.5	(*)
3391	Iron and steel forgings .....	46.1	47.0	49.1	48.7	—	36.7	37.6	39.4	39.1	—
34	<b>FABRICATED METAL PRODUCTS</b> .....	1,440.1	1,463.6	1,508.9	1,521.3	1,534.7	1,092.5	1,112.6	1,148.7	1,159.3	1,170.5
341	Metal cans .....	61.4	62.9	61.8	61.7	52.2	52.2	53.8	52.3	52.3	52.8
342	Cutlery, hand tools, and hardware .....	174.8	176.6	186.7	186.5	186.8	136.6	138.3	147.1	147.0	147.2
3421,3,5	Cutlery and hand tools, including saws ..	70.3	71.0	76.8	76.8	—	54.3	54.8	60.0	60.1	—
3429	Hardware, nec .....	104.5	105.6	109.9	109.7	—	82.3	83.5	87.1	86.9	—
343	Plumbing and heating, except electric .....	74.7	75.4	78.2	77.8	78.1	55.5	56.0	58.1	57.9	57.4
3431,2	Sanitary ware and plumbers' brass goods ..	34.0	34.6	35.2	35.2	—	26.3	26.9	27.3	27.3	—
3433	Heating equipment, except electric .....	40.7	40.8	43.0	42.6	—	29.2	29.1	30.8	30.6	—
344	Fabricated structural metal products .....	461.0	470.6	485.9	492.8	501.9	322.7	331.1	341.1	347.2	356.2
3441	Fabricated structural steel .....	94.4	96.6	96.8	98.3	—	66.3	68.5	68.9	70.1	—
3442	Metal doors, sash, and trim .....	76.5	79.6	81.5	83.7	—	57.6	60.4	60.7	63.0	—
3443	Fabricated plate work (boiler shops) .....	137.5	138.3	141.3	141.7	—	89.5	90.1	92.1	92.3	—
3444	Sheet metal work .....	92.9	94.2	101.6	102.6	—	67.9	69.0	74.1	74.9	—
3446,9	Architectural and miscellaneous metal work ..	59.7	61.9	64.7	66.5	—	41.4	43.1	45.3	46.9	—
345	Screw machine products, bolts, etc .....	104.8	106.3	111.6	112.1	113.6	82.5	83.6	88.2	88.4	89.5
3451	Screw machine products .....	50.5	51.3	55.7	55.9	—	41.6	42.1	46.4	46.2	—
3452	Bolts, nuts, rivets, and washers .....	54.3	55.0	55.9	56.2	—	40.9	41.5	41.8	42.2	—
346	Metal stampings .....	236.0	238.1	242.3	244.6	(*)	193.0	194.5	198.6	200.2	(*)
347	Metal services, nec .....	95.2	96.3	101.5	101.9	102.8	77.9	78.9	84.0	84.3	85.2
348	Miscellaneous fabricated wire products .....	59.8	60.8	62.5	63.0	63.4	46.4	47.2	49.1	49.6	49.8
349	Miscellaneous fabricated metal products .....	172.4	176.6	178.4	180.9	184.1	125.7	129.2	130.2	132.4	134.6
3494,8	Valves, pipe, and pipe fittings .....	113.7	116.3	117.5	118.9	—	78.8	80.8	81.8	83.1	—

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 <sup>1</sup>				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
<b>DURABLE GOODS--Continued</b>											
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2,161.0	2,180.8	2,313.5	2,315.4	2,342.2	1,401.4	1,416.4	1,520.7	1,520.9	1,537.9
351	Engines and turbines	111.9	108.9	120.5	120.0	121.0	70.5	68.5	77.9	77.4	78.6
3511	Steam engines and turbines	42.4	42.4	42.3	42.6	—	22.2	22.1	22.1	22.3	—
3519	Internal combustion engines, nec.	69.5	66.5	78.2	77.4	—	48.3	46.4	55.8	55.1	—
352	Farm machinery	148.2	147.6	145.2	137.1	—	103.5	102.6	100.6	94.3	—
353	Construction and related machinery	342.9	347.1	375.3	379.2	382.5	222.3	225.6	249.6	252.7	254.7
3531,2	Construction and mining machinery	177.5	179.4	191.5	193.1	—	114.8	116.1	127.7	129.0	—
3533	Oil field machinery	70.3	71.5	79.6	81.0	—	49.4	50.3	56.0	57.1	—
3535,6	Conveyors, hoists, cranes, monorails	49.6	50.0	52.2	52.8	—	29.1	29.6	31.5	31.9	—
3537	Industrial trucks and tractors	33.5	34.0	39.0	39.2	—	22.5	22.9	27.1	27.3	—
354	Metal working machinery	327.1	329.8	348.7	349.1	(*)	240.5	242.7	258.0	258.1	—
3541	Machine tools, metal cutting types	61.7	62.2	67.7	68.1	—	40.0	40.3	45.0	45.3	—
3544	Special dies, tools, jigs, and fixtures	133.0	133.8	140.8	140.2	—	107.1	108.1	114.2	113.5	—
3545	Machine tool accessories	57.3	58.1	61.0	61.5	—	40.9	41.5	43.4	43.8	—
3542,8	Miscellaneous metal working machinery	75.1	75.7	79.2	79.3	—	52.5	52.8	55.4	55.5	—
355	Special industry machinery	176.7	179.6	183.7	183.7	185.4	112.0	114.2	117.7	117.7	118.8
3551	Food products machinery	41.7	42.5	43.2	43.0	—	26.4	27.5	27.5	27.5	—
3552	Textile machinery	30.2	30.4	30.5	30.5	—	21.8	22.0	22.1	22.1	—
3555	Printing trades machinery	26.2	26.7	28.9	29.0	—	15.4	15.8	17.4	17.5	—
356	General industrial machinery	295.4	298.8	311.5	312.5	315.5	193.2	195.3	207.0	208.0	210.1
3561	Pumps and compressors	84.7	85.8	88.0	88.0	—	51.4	52.1	53.3	53.0	—
3562	Ball and roller bearings	56.8	57.3	60.2	60.5	—	42.0	42.5	46.0	46.3	—
3564	Blowers and fans	34.3	34.8	36.6	36.7	—	22.0	22.2	23.6	23.9	—
3566	Power transmission equipment	47.6	47.9	48.9	49.2	—	33.5	33.7	35.0	35.3	—
357	Office and computing machines	315.7	321.4	353.6	356.0	(*)	130.8	134.7	152.2	153.2	(*)
3573	Electronic computing equipment	240.9	246.8	276.7	278.4	—	87.3	91.0	106.4	107.0	—
358	Service industry machines	173.3	173.7	186.5	187.8	190.1	121.7	122.2	133.0	133.8	135.4
3585	Refrigeration machinery	121.9	122.1	131.7	132.2	—	87.4	87.8	95.6	95.6	—
359	Miscellaneous machinery, except electrical	269.8	273.9	288.5	290.0	294.6	206.9	210.6	224.7	225.7	230.3
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	1,915.1	1,938.8	2,026.3	2,035.0	2,057.4	1,274.8	1,291.6	1,345.8	1,351.6	1,363.1
361	Electric test and distributing equipment	201.6	204.4	219.2	220.5	222.4	137.1	139.3	148.8	150.5	151.9
3611	Electric measuring instruments	75.1	76.6	87.4	88.3	—	45.9	46.9	53.5	54.9	—
3612	Transformers	49.8	50.4	52.5	52.8	—	36.7	37.1	38.4	38.6	—
3613	Switchgear and switchboard apparatus	76.7	77.4	79.3	79.4	—	54.5	55.3	56.9	57.0	—
362	Electrical industrial apparatus	223.6	225.3	232.9	233.6	235.8	160.1	161.6	166.8	166.8	168.2
3621	Motors and generators	109.0	109.6	114.2	114.1	—	82.3	83.0	87.0	86.5	—
3622	Industrial controls	70.8	71.4	73.7	74.6	—	46.3	46.7	47.6	48.3	—
363	Household appliances	179.3	181.3	188.5	188.2	190.3	141.6	143.2	149.4	149.5	151.4
3632	Household refrigerators and freezers	39.1	39.8	45.6	46.0	—	30.6	31.3	36.5	37.0	—
3633	Household laundry equipment	28.2	28.4	28.0	28.0	—	22.4	22.6	22.1	22.1	—
3634	Electric housewares and fans	52.9	53.4	52.9	52.2	—	42.0	42.0	42.5	42.1	—
364	Electric lighting and wiring equipment	206.0	207.6	213.5	214.0	217.0	157.6	159.0	162.3	162.3	164.8
3641	Electric lamps	37.5	37.7	37.7	37.6	—	33.4	33.5	33.3	33.3	—
3642	Lighting fixtures	66.0	66.4	70.3	69.8	—	50.5	50.8	54.3	53.7	—
3643,4	Wiring devices	102.5	103.5	105.5	106.6	—	73.7	74.7	74.7	75.3	—
365	Radio and TV receiving equipment	132.8	134.3	134.1	134.2	135.7	95.9	97.4	97.6	97.6	98.6
366	Communication equipment	432.5	438.8	460.2	461.0	465.6	216.2	219.6	230.7	230.4	232.3
3661	Telephone and telegraph apparatus	142.6	144.8	149.6	148.3	—	95.6	97.4	102.8	101.8	—
3662	Radio and TV communication equipment	289.9	294.0	310.6	312.7	—	120.6	122.2	127.9	128.6	—
367	Electronic components and accessories	386.2	392.3	410.0	413.7	422.5	247.4	251.7	261.0	264.1	269.2
3671-3	Electron tubes	42.8	43.2	43.9	44.1	—	27.3	27.8	29.0	29.3	—
3674,9	Other electronic components	343.4	349.1	366.1	369.6	—	220.1	223.9	232.0	234.8	—
369	Miscellaneous electrical equipment and supplies	153.1	154.8	167.9	169.8	(*)	118.9	119.8	129.2	130.4	(*)
3694	Engine electrical equipment	80.1	79.9	86.6	87.3	—	64.6	64.1	69.1	69.9	—
37	<b>TRANSPORTATION EQUIPMENT</b>	1,811.0	1,827.5	1,873.7	1,897.4	1,901.6	1,287.1	1,299.3	1,340.5	1,362.6	1,359.9
371	Motor vehicles and equipment	892.2	902.4	920.1	925.7	(*)	696.2	704.5	719.2	725.0	(*)
3711	Motor vehicles	368.9	373.0	380.5	382.8	—	276.9	280.6	284.2	286.6	—
3712	Passenger car bodies	47.8	48.2	46.0	46.0	—	36.8	37.0	35.5	35.5	—
3713	Truck and bus bodies	41.6	41.2	46.3	45.3	—	32.2	31.9	37.1	36.3	—
3714	Motor vehicle parts and accessories	408.2	413.5	417.9	421.3	—	330.2	334.2	339.3	342.7	—
3715	Truck trailers	25.7	26.5	29.4	30.3	—	20.1	20.8	23.1	23.9	—
372	Aircraft and parts	483.3	487.2	500.8	514.1	(*)	246.4	249.2	261.0	271.8	(*)
3721	Aircraft	259.7	261.7	261.8	273.2	—	122.8	123.9	123.2	132.2	—
3722	Aircraft engines and engine parts	131.5	132.1	141.4	142.4	—	68.1	68.8	78.1	79.2	—
3723,9	Other aircraft parts and equipment	92.1	93.4	97.6	98.5	—	55.5	56.5	59.7	60.4	—
373	Ship and boat building and repairing	227.9	227.4	228.9	(*)	(*)	180.9	180.0	182.6	(*)	(*)
3731	Ship building and repairing	175.8	176.1	177.9	(*)	—	137.8	137.7	140.6	(*)	—

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 <sup>1</sup>				
		May 1977	June 1977	Apr. 1978	May <sup>P</sup> 1978	June <sup>P</sup> 1978	May 1977	June 1977	Apr. 1978	May <sup>P</sup> 1978	June <sup>P</sup> 1978
	<b>DURABLE GOODS—Continued</b>										
	<b>TRANSPORTATION EQUIPMENT—Continued</b>										
3732	Boat building and repairing	52.1	51.3	51.0	51.7	—	43.1	42.3	42.0	42.7	—
374	Railroad equipment	47.4	48.3	48.1	48.4	—	35.1	35.7	35.9	36.0	—
375.9	Other transportation equipment	160.2	162.2	175.8	180.7	—	128.5	129.9	141.8	146.5	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	525.4	530.4	544.6	548.5	556.2	322.2	325.1	333.3	336.0	343.1
381	Engineering and scientific instruments	59.0	59.6	63.0	63.0	—	27.8	28.1	30.1	29.7	—
382	Mechanical measuring and control devices	121.0	123.0	127.9	128.1	129.4	78.8	79.8	83.2	83.6	84.7
3821	Mechanical measuring devices	80.2	81.4	84.1	84.6	—	49.3	50.0	52.0	52.5	—
3822	Automatic temperature controls	40.8	41.6	43.8	43.5	—	29.5	29.8	31.2	31.1	—
383.5	Optical and ophthalmic goods	69.0	70.2	72.0	72.6	73.0	46.6	47.4	48.1	48.3	49.1
385	Ophthalmic goods	44.6	45.4	45.1	45.5	—	32.4	32.8	32.8	33.2	—
384	Medical instruments and supplies	115.9	116.8	123.1	124.7	126.3	78.6	79.1	82.4	83.4	84.6
386	Photographic equipment and supplies	130.2	130.3	129.5	130.8	133.5	66.9	67.1	67.0	68.3	70.9
387	Watches, clocks, and watchcases	30.3	30.5	29.1	29.3	—	23.5	23.6	22.5	22.7	—
	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>										
39	INDUSTRIES	419.9	423.4	420.8	424.3	433.4	321.7	324.3	321.3	324.4	332.4
391.4	Jewelry, silverware, and plated ware	55.0	55.5	57.6	57.9	58.9	40.2	40.8	42.4	42.7	43.7
394	Toys and sporting goods	120.6	121.7	112.6	114.4	—	93.2	93.6	85.4	87.2	—
3941-3	Games, toys, dolls, and play vehicles	62.6	65.1	57.3	58.7	—	46.7	49.1	41.9	43.2	—
3949	Sporting and athletic goods, nec	58.0	56.6	55.3	55.7	—	46.5	44.5	43.5	44.0	—
395	Pens, pencils, office, and art supplies	33.7	33.8	33.2	33.2	—	24.3	24.3	24.4	24.4	—
396	Costume jewelry and notions	50.6	50.5	51.8	52.0	—	40.7	40.8	41.8	42.0	—
393.9	Other manufacturing industries	160.0	161.9	165.6	166.8	(*)	123.3	124.8	127.3	128.1	(*)
393	Musical instruments and parts	23.7	23.5	24.7	25.0	—	19.3	19.1	20.2	20.5	—
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS</b>	1,673.9	1,727.0	1,663.9	1,671.5	1,711.9	1,123.4	1,168.4	1,112.2	1,118.3	1,150.3
201	Meat products	358.1	363.6	361.2	367.6	(*)	294.7	299.6	297.3	303.5	(*)
2011	Meat packing plants	170.0	170.8	170.6	172.7	—	136.0	136.4	136.2	138.5	—
2013	Sausages and other prepared meats	67.8	68.3	67.0	68.3	—	49.2	49.6	49.1	50.1	—
2015	Poultry dressing plants	120.3	124.5	123.6	126.6	—	109.5	113.6	112.0	114.9	—
202	Dairy products	194.0	198.9	193.6	194.8	200.6	101.4	105.1	101.1	102.3	106.0
2024	Ice cream and frozen desserts	23.2	25.2	23.9	24.5	—	12.6	14.3	13.3	13.8	—
2026	Fluid milk	124.4	126.2	123.9	124.2	—	53.4	54.5	53.4	53.9	—
203	Canned, cured, and frozen foods	255.1	288.6	238.6	240.5	—	205.9	236.7	188.1	189.5	—
2031.6	Canned, cured, and frozen sea foods	42.1	44.4	40.6	41.6	—	36.8	38.8	35.1	36.4	—
2032.3	Canned food, except sea foods	110.1	130.2	104.5	105.5	—	84.9	103.6	77.0	77.4	—
2037	Frozen fruits and vegetables	63.4	65.7	55.4	55.0	—	54.7	56.8	47.7	47.1	—
204	Grain mill products	145.9	148.0	146.8	144.9	149.3	101.2	103.3	101.0	99.3	103.0
2041	Flour and other grain mill products	28.2	28.7	29.1	28.8	—	19.2	19.8	19.4	19.0	—
2042	Prepared feeds for animals and fowls	73.3	74.1	73.5	72.6	—	48.3	49.4	48.7	48.0	—
205	Bakery products	239.7	240.7	236.1	234.6	236.3	138.5	139.0	137.5	136.6	138.0
2051	Bread, cake, and related products	200.6	202.3	196.4	196.5	—	107.2	108.3	105.7	105.9	—
2052	Cookies and crackers	39.1	38.4	39.7	38.1	—	31.3	30.7	31.8	30.7	—
206	Sugar	26.9	27.0	27.7	28.2	—	19.7	19.2	19.7	20.3	—
207	Confectionery and related products	74.9	74.7	74.9	74.1	74.7	56.7	56.7	57.5	56.7	57.1
2071	Confectionery products	53.6	53.3	54.4	53.4	—	41.6	41.4	42.8	41.8	—
208	Beverages	231.5	237.8	235.4	236.2	244.5	109.7	114.3	112.4	112.0	117.8
2082	Malt liquors	51.7	52.6	49.5	49.6	—	37.2	38.2	34.5	34.3	—
2086	Bottled and canned soft drinks	135.9	140.9	140.1	141.9	—	48.9	52.2	51.0	52.0	—
209	Miscellaneous foods and kindred products	147.8	147.7	149.6	150.6	151.8	95.6	94.5	97.6	98.1	99.0
21	<b>TOBACCO MANUFACTURES</b>	63.2	64.8	62.0	61.7	62.3	49.8	51.4	48.4	47.8	48.3
211	Cigarettes	42.5	44.3	43.4	43.3	—	33.7	35.2	33.5	33.3	—
212	Cigars	9.3	9.2	9.0	9.1	—	8.0	8.0	7.8	7.9	—
22	<b>TEXTILE MILL PRODUCTS</b>	983.5	995.6	989.6	993.5	1,006.7	857.8	869.1	862.9	866.1	877.8
221	Weaving mills, cotton	172.4	173.5	165.6	163.2	163.2	155.8	156.9	149.1	146.6	146.5
222	Weaving mills, synthetics	121.2	122.0	117.3	116.7	118.2	108.8	109.4	105.0	104.5	105.7
223	Weaving and finishing mills, wool	23.5	23.8	22.9	22.9	23.3	19.8	20.0	19.2	19.3	19.5
224	Narrow fabric mills	26.0	26.0	27.8	27.7	28.0	22.7	22.6	24.4	24.3	24.6
225	Knitting mills	269.6	275.2	282.3	287.1	293.2	232.2	237.7	244.2	248.6	254.2
2251	Women's hosiery, except socks	37.8	38.1	39.4	40.3	—	33.5	33.7	35.0	36.0	—
2252	Hosiery, nec	35.8	36.3	38.5	38.6	—	31.9	32.6	35.0	35.0	—
2253	Knit outerwear mills	81.7	84.5	85.3	86.6	—	69.8	72.5	73.3	74.4	—
2254	Knit underwear mills	41.3	41.9	45.1	45.7	—	35.6	36.2	38.4	38.8	—

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 <sup>1</sup>				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
	<b>NONDURABLE GOODS—Continued</b>										
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
226	Textile finishing, except wool	82.1	83.4	80.9	82.0	82.4	69.5	70.9	68.5	69.5	69.8
227	Floor covering mills	63.9	64.3	65.5	65.6	—	50.8	50.8	52.1	52.4	—
228	Yarn and thread mills	157.1	159.0	160.9	161.0	163.2	143.7	145.7	147.0	146.9	149.0
229	Miscellaneous textile goods	67.7	68.4	66.4	67.3	68.8	54.5	55.1	53.4	54.0	55.4
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,295.9	1,316.3	1,299.3	1,304.5	1,313.5	1,112.4	1,131.7	1,116.6	1,122.4	1,128.9
231	Men's and boys' suits and coats	88.6	89.5	85.8	87.5	88.5	78.0	78.8	75.4	77.2	77.9
232	Men's and boys' furnishings	385.6	391.7	382.6	384.6	(*)	331.0	336.5	329.5	331.9	(*)
2321	Men's and boys' shirts and nightwear	115.9	118.0	109.4	111.1	—	100.4	102.4	94.6	96.5	—
2327	Men's and boys' separate trousers	86.8	88.5	85.7	85.2	—	76.3	77.7	74.7	74.2	—
2328	Men's and boys' work clothing	97.4	99.0	98.6	98.4	—	80.2	81.5	83.2	82.9	—
233	Women's and misses' outerwear	376.1	381.1	374.5	373.2	375.4	327.6	333.0	325.8	324.8	326.5
2331	Women's and misses' blouses and waists	48.7	49.3	48.4	48.3	—	42.6	43.3	42.3	42.4	—
2335	Women's and misses' dresses	165.0	165.9	162.9	161.2	—	146.4	147.7	144.6	142.8	—
2337	Women's and misses' suits and coats	51.1	55.4	48.2	49.6	—	42.3	46.5	40.4	41.5	—
2339	Women's and misses' outerwear, nec	111.3	110.5	115.0	114.1	—	96.3	95.5	98.5	98.1	—
234	Women's and children's undergarments	101.2	102.0	101.8	101.0	102.5	85.8	86.5	86.4	85.8	86.7
2341	Women's and children's underwear	77.2	77.8	78.2	77.9	—	66.6	67.1	67.4	67.1	—
2342	Corsets and allied garments	24.0	24.2	23.6	23.1	—	19.2	19.4	19.0	18.7	—
235	Hats, caps, and millinery	16.4	16.6	16.6	16.6	—	14.4	14.7	14.8	14.8	—
236	Children's outerwear	77.3	79.5	76.8	79.4	81.7	66.2	68.4	65.6	67.7	69.6
2361	Children's dresses and blouses	31.3	32.0	29.2	29.4	—	28.2	29.0	26.4	26.5	—
237.8	Fur goods and miscellaneous apparel	68.7	70.7	70.5	71.4	—	58.8	60.5	60.1	61.1	—
239	Miscellaneous fabricated textile products	182.0	185.2	190.7	190.8	191.1	150.6	153.3	159.0	159.1	158.7
2391.2	Housefurnishings	75.7	78.0	80.9	80.6	—	63.3	65.3	68.6	68.3	—
26	<b>PAPER AND ALLIED PRODUCTS</b>	696.0	709.6	712.1	716.8	728.9	523.2	534.6	532.8	539.0	547.1
261,2,6	Paper and pulp mills	202.6	205.0	200.5	201.8	205.9	155.2	157.4	151.7	153.7	157.3
263	Paperboard mills	71.2	72.5	70.5	70.9	71.6	55.9	57.0	56.0	56.3	56.7
264	Miscellaneous converted paper products	207.5	211.2	217.5	219.5	222.6	145.8	148.4	152.3	155.2	155.2
2643	Bags, except textile bags	44.7	45.3	48.2	48.1	—	35.6	36.0	38.1	38.1	—
265	Paperboard containers and boxes	214.7	220.9	223.6	224.6	228.8	166.3	171.8	172.8	173.8	177.9
2651,2	Folding and setup paperboard boxes	59.6	60.1	60.0	60.3	—	47.9	48.3	48.0	48.2	—
2653	Corrugated and solid fiber boxes	104.8	107.1	109.8	110.0	—	77.1	79.1	81.1	81.4	—
2654	Sanitary food containers	32.6	35.7	35.9	36.1	—	27.0	30.0	29.8	29.8	—
27	<b>PRINTING AND PUBLISHING</b>	1,105.4	1,112.6	1,135.2	1,137.5	1,146.2	641.0	641.8	650.4	649.4	650.7
271	Newspapers	390.9	394.7	398.2	399.4	403.8	166.3	165.7	159.6	159.5	160.2
272	Periodicals	71.4	71.9	74.1	74.2	—	20.0	20.0	20.9	20.1	—
273	Books	91.3	90.4	93.7	92.5	—	49.1	48.4	51.2	50.3	—
275	Commercial printing	365.8	367.0	373.9	376.0	378.0	274.2	274.7	280.3	281.3	281.5
2751	Commercial printing, except lithographic	205.4	206.3	208.2	210.5	—	156.1	156.5	157.8	159.2	—
2752	Commercial printing, lithographic	149.8	150.3	154.2	154.3	—	109.7	110.0	113.0	113.0	—
278	Blankbooks and bookbinding	51.6	52.2	53.6	53.4	54.4	42.0	42.6	44.1	43.9	44.8
274,6,7,9	Other publishing and printing ind	134.4	136.4	141.7	142.0	143.1	89.4	90.4	94.3	94.3	95.3
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1,056.4	1,067.5	1,069.6	1,073.7	1,085.9	607.7	613.6	617.8	620.9	630.0
281	Industrial chemicals	343.8	349.2	349.2	349.5	353.4	185.3	188.3	190.8	190.2	195.2
2812	Alkalies and chlorine	20.7	21.1	20.7	20.7	—	15.1	15.4	15.1	14.8	—
2818	Industrial organic chemicals, nec	141.5	144.4	142.7	142.7	—	65.3	67.1	69.3	68.8	—
2819	Industrial inorganic chemicals, nec	114.2	115.8	118.0	118.4	—	62.4	63.2	64.4	64.9	—
282	Plastics materials and synthetics	206.1	207.3	200.0	202.6	204.4	138.5	139.6	135.6	137.8	139.0
2821	Plastics materials and resins	89.6	90.7	88.7	89.1	—	56.2	57.3	55.5	55.9	—
2823,4	Synthetic fibers	102.9	102.8	97.5	99.8	—	71.9	71.8	69.8	71.6	—
283	Drugs	174.3	176.0	176.7	177.6	180.3	88.3	88.4	85.9	86.8	87.7
2834	Pharmaceutical preparations	139.4	140.5	141.3	142.1	—	68.3	68.1	66.3	67.3	—
284	Soap, cleaners, and toilet goods	122.3	124.2	129.3	129.8	130.9	72.5	74.3	79.4	80.2	80.6
2841	Soap and other detergents	39.9	40.5	41.2	41.3	—	25.9	26.5	27.1	27.2	—
2844	Toilet preparations	48.6	49.5	52.7	53.3	—	28.8	29.8	33.0	33.7	—
285	Paints and allied products	70.2	71.8	71.6	72.0	73.8	37.5	38.7	37.5	38.2	39.5
287	Agricultural chemicals	60.1	57.7	61.8	61.0	60.5	38.1	35.6	40.1	39.1	38.1
2871,2	Fertilizers, complete and mixing only	36.7	34.7	37.9	37.0	—	25.6	23.5	26.3	25.4	—
286,9	Other chemical products	79.6	81.3	81.0	81.2	82.6	47.5	48.7	48.5	48.6	49.9
2892	Explosives	13.8	14.0	13.6	13.8	—	9.2	9.4	9.4	9.6	—
29	<b>PETROLEUM AND COAL PRODUCTS</b>	209.8	213.7	213.2	215.5	219.1	137.7	141.7	139.6	141.7	145.3
291	Petroleum refining	160.3	162.9	161.7	162.4	165.2	100.9	103.7	101.7	102.8	105.0
295,9	Other petroleum and coal products	49.5	50.8	51.5	53.1	53.9	36.8	38.0	37.9	38.9	40.3

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 <sup>1</sup>				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>
<b>NONDURABLE GOODS—Continued</b>											
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC...</b>	673.9	684.3	699.1	702.0	711.8	529.6	538.4	547.7	550.6	559.4
301	Tires and inner tubes	123.1	124.4	118.0	118.6	121.6	91.5	92.4	85.6	86.0	88.7
302,3,6	Other rubber products	173.0	174.7	173.3	172.3	173.1	136.0	137.6	135.9	135.5	136.5
302	Rubber footwear	21.5	20.9	19.8	18.7	—	18.7	18.1	17.1	16.2	—
307	Miscellaneous plastics products	377.8	385.2	407.8	411.1	417.1	302.1	308.4	326.2	329.1	334.2
31	<b>LEATHER AND LEATHER PRODUCTS</b>	269.7	272.1	264.9	267.6	270.0	231.3	233.5	226.0	228.9	230.9
311	Leather tanning and finishing	23.7	24.2	23.5	23.7	23.8	20.2	20.8	20.2	20.4	20.4
314	Footwear, except rubber	168.3	168.5	164.8	166.9	168.7	147.2	147.4	143.6	145.7	147.6
312,3,5-7,9	Other leather products	77.7	79.4	76.6	77.0	77.5	63.9	65.3	62.2	62.8	62.9
316	Luggage	18.6	18.7	17.7	18.0	—	14.7	14.7	13.6	14.1	—
317	Handbags and personal leather goods	34.3	35.6	33.8	33.7	—	28.1	29.3	28.0	27.8	—
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>											
4,577 4,629 4,671 4,704 4,758 3,895 3,942 3,930 3,958 4,007											
40	<b>RAILROAD TRANSPORTATION</b>	537.9	547.4	521.4	533.1	—	—	—	—	—	—
4011	Class I railroads <sup>2</sup>	499.9	508.5	478.3	489.5	—	—	—	—	—	—
<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>											
271.3 263.3 264.2 262.2 — — — — — — —											
41	Local and suburban transportation	67.2	67.0	68.6	66.3	—	62.2	61.9	62.4	60.1	—
412	Taxis	72.8	71.8	68.5	67.9	—	—	—	—	—	—
413	Intercity highway transportation	39.0	39.9	36.7	36.8	—	35.3	36.3	33.4	63.3	—
42	<b>TRUCKING AND WAREHOUSING</b>	1,118.1	1,140.7	1,157.1	1,164.8	—	988.8	1,010.8	1,022.6	1,029.7	—
421,3	Trucking and trucking terminals	1,027.9	1,051.7	1,061.6	1,069.7	—	912.0	935.2	940.2	947.6	—
422	Public warehousing	90.2	89.0	95.5	95.1	—	76.8	75.6	82.4	82.1	—
45	<b>TRANSPORTATION BY AIR</b>	376.6	380.6	389.4	386.4	—	—	—	—	—	—
451,2	Air transportation	341.1	344.2	351.5	348.7	—	—	—	—	—	—
46	<b>PIPELINE TRANSPORTATION</b>	16.5	16.9	15.9	16.0	—	12.0	12.3	11.4	11.6	—
44,47	<b>OTHER TRANSPORTATION AND SERVICES</b>	354.3	358.3	369.0	375.2	—	—	—	—	—	—
44	<b>WATER TRANSPORTATION</b>	197.9	199.0	204.0	209.3	—	—	—	—	—	—
47	<b>TRANSPORTATION SERVICES</b>	156.4	159.3	165.0	165.9	—	—	—	—	—	—
48	<b>COMMUNICATION</b>	1,162.7	1,167.7	1,194.9	1,202.9	—	888.3	891.8	905.0	911.9	—
481	Telephone communication	947.3	951.4	971.1	976.4	—	714.2	717.7	724.9	729.1	—
482	Telegraph communication <sup>3</sup>	18.0	17.9	(*)	(*)	—	15.1	14.8	(*)	(*)	—
483	Radio and television broadcasting	161.9	162.4	167.0	168.2	—	128.2	127.9	131.3	132.6	—
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	740.0	754.1	759.1	762.9	—	611.5	624.3	619.9	622.7	—
491	Electric companies and systems	317.6	322.4	328.7	330.9	—	260.1	264.2	266.7	268.4	—
492	Gas companies and systems	156.6	160.7	158.2	158.9	—	129.1	133.1	129.5	130.0	—
493	Combination companies and systems	194.7	198.4	197.3	197.8	—	161.3	164.5	159.9	160.3	—
494,7	Water, steam, and sanitary systems	71.1	72.6	74.9	75.3	—	61.0	62.5	63.8	64.0	—
50	<b>WHOLESALE AND RETAIL TRADE</b>	18,176	18,342	18,735	18,934	19,083	16,039	16,186	16,463	16,648	16,789
50	<b>WHOLESALE TRADE</b>	4,353	4,409	4,514	4,539	4,586	3,597	3,645	3,711	3,732	3,772
501	Motor vehicles and automotive equipment	393.5	399.0	407.4	411.9	—	322.3	327.0	333.8	339.0	—
502	Drugs, chemicals, and allied products	244.0	247.6	253.0	254.3	—	193.6	196.4	201.7	203.4	—
503	Dry goods and apparel	158.8	160.0	160.7	160.4	—	122.2	123.1	124.5	124.0	—
504	Groceries and related products	612.4	628.5	630.9	633.1	—	530.7	546.6	547.5	549.8	—
506	Electrical goods	325.6	328.8	344.4	346.8	—	274.7	276.0	284.5	285.0	—
507	Hardware, plumbing and heating equipment	192.9	195.7	200.9	202.9	—	159.7	162.7	165.9	167.7	—
508	Machinery, equipment, and supplies	925.5	931.7	971.9	977.3	—	765.6	770.4	798.9	802.2	—
509	Miscellaneous wholesalers	1,391.4	1,409.1	1,428.0	1,435.7	—	1,141.0	1,155.6	1,160.9	1,167.1	—
52-59	<b>RETAIL TRADE</b>	13,823	13,933	14,221	14,395	14,497	12,442	12,541	12,752	12,916	13,017
53	<b>Retail General Merchandise</b>	2,464.1	2,477.6	2,537.1	2,560.6	—	2,268.1	2,278.4	2,342.6	2,363.6	—
531	Department stores	1,685.6	1,694.8	1,757.2	1,771.8	—	1,564.0	1,571.6	1,638.7	1,652.9	—
532	Mail order houses	105.2	104.9	110.1	108.7	—	99.7	99.5	104.8	103.5	—
533	Variety stores	303.8	303.0	293.6	300.3	—	283.3	281.6	274.7	279.8	—
54	<b>FOOD STORES</b>	2,098.9	2,106.2	2,176.0	2,189.0	—	1,940.2	1,944.7	2,009.8	2,021.6	—
541,3	Grocery, meat, and vegetable stores	1,904.2	1,910.0	1,981.4	1,990.5	—	1,759.7	1,763.6	1,832.1	1,840.4	—

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 <sup>1</sup>				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
	<b>WHOLESALE AND RETAIL TRADE—Continued</b>										
56	<b>APPAREL AND ACCESSORY STORES</b>	808.7	804.8	812.2	812.1	—	699.6	697.2	699.7	699.8	—
561	Men's and boys' clothing and furnishings	139.9	142.2	141.2	141.2	—	120.9	122.6	120.7	120.7	—
562	Women's ready-to-wear stores	292.8	289.0	292.1	292.2	—	254.6	251.7	253.1	253.4	—
565	Family clothing stores	126.9	127.2	125.3	126.7	—	113.3	113.7	110.7	112.0	—
566	Shoe stores	174.1	171.2	177.7	177.4	—	145.1	142.8	147.8	147.4	—
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b>	543.1	547.8	561.4	564.9	—	456.4	460.7	469.5	472.7	—
571	Furniture and home furnishings	323.9	328.5	333.4	334.8	—	274.5	278.7	281.4	282.2	—
58	<b>EATING AND DRINKING PLACES</b>	3,893.5	3,950.8	4,042.3	4,128.2	—	3,631.6	3,682.6	3,729.9	3,808.7	—
52,55,59	<b>OTHER RETAIL TRADE</b>	4,014.4	4,045.9	4,091.7	4,140.4	—	3,445.9	3,477.5	3,500.1	3,549.4	—
52	Building materials and farm equipment	652.4	670.6	671.3	680.1	—	556.9	573.8	571.0	579.0	—
55	Automotive dealers and service stations	1,776.1	1,793.8	1,807.3	1,813.6	—	—	—	—	—	—
551,2	Motor vehicle dealers	808.5	812.1	828.7	831.5	—	672.6	676.2	688.1	691.1	—
553,9	Other automotive and accessory dealers	346.2	354.0	352.4	356.4	—	293.7	300.5	297.0	300.8	—
554	Gasoline service stations	621.4	627.7	626.2	625.7	—	—	—	—	—	—
59	Miscellaneous retail stores	1,585.9	1,581.5	1,613.1	1,646.7	—	—	—	—	—	—
591	Drug stores and proprietary stores	482.0	485.3	494.7	494.9	—	426.4	430.5	438.9	439.5	—
594	Book and stationery stores	81.6	81.4	79.6	79.5	—	69.2	68.5	67.2	67.2	—
596	Farm and garden supply stores	151.3	148.4	156.8	158.5	—	—	—	—	—	—
598	Fuel and ice dealers	95.8	95.2	98.8	95.8	—	80.6	80.1	83.8	81.3	—
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>4</sup></b>	4,476	4,534	4,669	4,705	4,773	3,407	3,461	3,548	3,578	3,644
60	Banking	1,329.4	1,347.4	1,381.6	1,388.8	—	1,036.8	1,053.4	1,071.0	1,076.5	—
61	Credit agencies other than banks	492.6	498.6	531.7	535.9	—	379.0	385.3	409.6	412.9	—
612	Savings and loan associations	203.3	207.0	222.8	224.3	—	161.7	165.3	176.4	177.7	—
614	Personal credit institutions	202.8	203.6	214.9	216.8	—	—	—	—	—	—
62	Security, commodity brokers and services	181.1	181.6	179.4	180.1	—	148.2	148.3	147.2	146.3	—
63	Insurance carriers	1,142.0	1,149.9	1,177.9	1,180.6	—	774.5	781.0	797.5	799.5	—
631	Life insurance	518.3	519.4	519.7	519.8	—	294.2	294.5	294.9	295.2	—
632	Accident and health insurance	123.8	124.4	125.5	125.4	—	101.4	102.2	100.8	100.4	—
633	Fire, marine, and casualty insurance	432.8	437.6	461.0	463.4	—	323.4	327.7	343.1	344.9	—
64	Insurance agents, brokers, and service	360.0	364.0	384.5	387.3	—	—	—	—	—	—
65	Real estate	856.3	876.9	894.4	911.5	—	—	—	—	—	—
655	Subdividers and developers	123.6	127.2	122.1	127.3	—	—	—	—	—	—
656	Operative builders	64.4	66.4	70.1	70.9	—	—	—	—	—	—
66,67	Other finance, insurance, and real estate	114.8	115.9	119.9	121.1	—	—	—	—	—	—
—	<b>SERVICES</b>	15,288	15,458	15,962	16,063	16,228	13,722	13,845	14,223	14,300	14,406
70	Hotels and other lodging places	1,061.5	1,121.1	1,039.8	1,061.1	—	—	—	—	—	—
701	Hotels, tourist courts, and motels	866.8	905.3	874.8	894.4	—	801.1	836.9	804.7	823.9	—
72	Personal services	808.9	812.8	796.0	799.1	—	—	—	—	—	—
721	Laundries and dry cleaning plants	349.1	352.6	343.5	345.2	—	312.7	315.5	307.0	309.2	—
722	Photographic studios	39.3	38.5	39.2	39.4	—	35.0	34.2	35.3	35.5	—
73	Miscellaneous business services	2,226.5	2,246.0	2,365.1	2,381.0	—	—	—	—	—	—
731	Advertising	132.6	134.2	141.6	142.3	—	—	—	—	—	—
732	Credit reporting and collection	87.1	87.6	92.0	92.7	—	—	—	—	—	—
734	Services to buildings	426.9	427.2	447.7	450.7	—	—	—	—	—	—
76	Miscellaneous repair services	229.5	230.3	237.2	237.1	—	—	—	—	—	—
78	Motion pictures	200.6	209.8	192.5	191.7	—	—	—	—	—	—
781	Motion picture filming and distributing	60.8	66.8	60.0	57.4	—	50.2	55.3	49.7	47.6	—
782,3	Motion picture theaters and services	139.8	143.0	132.5	134.3	—	—	—	—	—	—
80	Medical and other health services	4,676.4	4,746.1	4,951.5	4,977.2	—	—	—	—	—	—
806	Hospitals	2,474.2	2,503.4	2,579.8	2,585.2	—	2,246.6	2,261.7	2,281.1	2,277.5	—
81	Legal services	394.7	418.4	426.2	427.8	—	—	—	—	—	—
82	Educational services	1,339.3	1,223.3	1,440.9	1,412.1	—	—	—	—	—	—
821	Elementary and secondary schools	445.1	432.5	467.9	466.8	—	—	—	—	—	—
822	Colleges and universities	703.7	605.2	755.7	726.9	—	—	—	—	—	—
89	Miscellaneous services	954.3	970.2	1,047.9	1,047.2	—	—	—	—	—	—
891	Engineering and architectural services	439.7	449.8	469.6	474.7	—	—	—	—	—	—
892	Nonprofit research agencies	162.3	164.9	175.8	177.4	—	—	—	—	—	—

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 <sup>1</sup>				
		May 1977	June 1977	Apr. 1978	May p 1978 <sup>2</sup>	June 1978 <sup>p</sup>	May 1977	June 1977	Apr. 1978	May p 1978 <sup>2</sup>	June 1978 <sup>p</sup>
—	<b>GOVERNMENT</b> .....	15,345	15,288	15,880	15,916	15,829			—		
91	<b>FEDERAL GOVERNMENT<sup>5</sup></b> .....	2,728	2,765	2,739	2,756	2,788	—	—	—	—	—
	Executive .....	2,675.8	2,712.3	2,686.7	2,702.9	—	—	—	—	—	
	Department of Defense .....	920.0	932.0	905.4	911.3	—	—	—	—	—	
	Postal Service .....	652.9	655.6	647.9	648.3	—	—	—	—	—	
	Other agencies .....	1,102.9	1,124.7	1,133.4	1,143.3	—	—	—	—	—	
	Legislative .....	39.8	40.4	39.5	40.0	—	—	—	—	—	
	Judicial .....	12.3	12.3	12.7	12.8	—	—	—	—	—	
92,93	<b>STATE AND LOCAL GOVERNMENT</b> .....	12,617	12,523	13,141	13,160	13,041	—	—	—	—	
92	State government .....	3,362.8	3,275.2	3,451.6	3,422.0	—	—	—	—	—	
	State education .....	1,440.7	1,315.8	1,462.0	1,427.1	—	—	—	—	—	
	Other State government .....	1,922.1	1,959.4	1,989.6	1,994.9	—	—	—	—	—	
93	Local government .....	9,253.8	9,248.2	9,689.8	9,738.2	—	—	—	—	—	
	Local education .....	5,338.8	5,187.9	5,533.7	5,553.3	—	—	—	—	—	
	Other local government .....	3,915.0	4,060.3	4,156.1	4,184.9	—	—	—	—	—	

<sup>1</sup> 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.

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

<sup>3</sup> Data for nonsupervisory workers exclude messengers.

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

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

<sup>p</sup> Not available.  
p—preliminary.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978	Apr. 1978
-	<b>TOTAL</b> .....	32,463	32,723	33,879	<sup>r</sup> 34,200	34,525
-	<b>PRIVATE SECTOR</b> .....	25,369	25,627	26,509	<sup>r</sup> 26,762	27,052
-	<b>MINING</b> .....	62	62	67	68	72
10	METAL MINING .....	5.5	5.7	6.1	6.2	6.3
11,12	COAL MINING .....	5.3	5.3	3.4	3.3	6.0
13	OIL AND GAS EXTRACTION .....	43.9	44.0	50.4	51.1	51.8
131.2	Crude petroleum and natural gas fields .....	28.4	28.6	33.1	33.7	34.1
138	Oil and gas field services .....	15.5	15.4	17.3	17.4	17.7
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	7.0	7.3	7.5	7.6	7.9
142	Crushed and broken stone .....	2.2	2.2	2.3	2.4	2.5
144	Sand and gravel .....	2.1	2.3	2.3	2.3	2.5
-	<b>CONTRACT CONSTRUCTION</b> .....	257	258	283	285	288
16	<b>GENERAL BUILDING CONTRACTORS</b> .....	81.4	81.3	90.2	90.5	91.2
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	43.9	43.7	44.5	45.3	47.3
161	Highway and street construction .....	15.6	15.9	16.8	17.2	18.6
162	Heavy construction, nec .....	28.3	27.8	27.7	28.1	28.7
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	131.6	132.8	147.9	149.3	149.9
171	Plumbing, heating, air conditioning .....	37.8	38.0	41.9	42.0	41.8
172	Painting, paper hanging, decorating .....	9.4	9.4	11.8	12.0	11.5
173	Electrical work .....	22.0	22.0	24.8	25.1	25.2
174	Masonry, stonework, and plastering .....	10.8	11.2	12.4	12.5	12.7
176	Roofing and sheet metal work .....	9.2	9.4	10.7	11.2	11.6
-	<b>MANUFACTURING</b> .....	5,681	5,730	5,916	<sup>r</sup> 5,978	6,021
19,24,26,32-39	<b>DURABLE GOODS</b> .....	2,536	2,569	2,714	<sup>r</sup> 2,743	2,772
20-23,26-31	<b>NONDURABLE GOODS</b> .....	3,145	3,161	3,202	3,235	3,249
	<b>DURABLE GOODS</b>					
19	<b>ORDNANCE AND ACCESSORIES</b> .....	34.8	35.2	35.0	35.3	35.5
192	Ammunition, except for small arms .....	23.0	23.1	22.7	22.9	22.9
1925	Complete guided missiles .....	17.1	17.1	16.3	16.5	16.5
1929	Ammunition, except for small arms, nec .....	5.9	6.0	6.4	6.4	6.4
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	80.2	82.5	87.7	88.8	91.4
241	Logging camps, and logging contractors .....	3.6	3.6	3.9	4.0	4.0
242	Sawmills and planing mills .....	17.7	17.8	18.0	18.5	18.9
2421	Sawmills and planing mills, general .....	13.1	13.2	12.8	13.3	13.5
243	Millwork, plywood and related products .....	30.7	31.9	36.5	36.7	38.4
2431	Millwork .....	17.1	17.8	20.5	20.5	21.3
2432	Veneer and plywood .....	9.9	10.2	11.4	11.6	11.9
244	Wooden containers .....	4.5	4.8	4.1	4.0	4.3
2441.2	Wooden boxes, shooks, and crates .....	3.5	3.7	3.3	3.1	3.4
249	Miscellaneous wood products .....	23.7	24.4	25.2	25.6	25.8
25	<b>FURNITURE AND FIXTURES</b> .....	140.9	142.5	153.4	154.1	154.2
251	Household furniture .....	112.7	114.3	122.8	123.2	123.1
2511	Wood household furniture .....	53.4	54.1	59.9	59.9	60.0
2512	Upholstered household furniture .....	36.3	36.7	39.7	39.8	40.0
2515	Mattresses and bedsprings .....	9.1	9.3	9.6	9.7	9.8
252	Office furniture .....	8.0	8.1	9.3	9.3	9.3
254	Partitions and fixtures .....	8.1	8.1	9.0	9.1	9.3
253.9	Other furniture and fixtures .....	12.1	12.0	12.3	12.5	12.5
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	113.6	114.8	119.6	119.3	120.2
321	Flat glass .....	1.3	1.3	1.4	1.5	1.6
322	Glass and glassware, pressed or blown .....	45.8	46.3	46.6	45.1	45.4
3221	Glass containers .....	28.1	28.2	28.0	26.5	26.7
3229	Pressed and blown glass nec .....	17.7	18.1	18.6	18.6	18.7
324	Cement, hydraulic .....	1.3	1.3	1.5	1.5	1.5
325	Structural clay products .....	5.9	6.1	6.3	6.5	6.5
3251	Brick and structural clay tile .....	1.1	1.3	1.3	1.4	1.4
326	Pottery and related products .....	13.2	13.3	13.9	13.8	13.5
327	Concrete, gypsum, and plaster products .....	12.4	12.7	14.2	14.2	14.6
328.9	Other stone and nonmetallic mineral products .....	23.0	23.3	25.1	25.7	26.3
3291	Abrasive products .....	5.3	5.3	5.8	5.8	5.8

r=revised.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978	Apr. 1978
<b>DURABLE GOODS—Continued</b>						
<b>33</b>	<b>PRIMARY METAL INDUSTRIES</b> .....	104.5	106.3	111.7	112.6	114.2
331	Blast furnaces and basic steel products .....	29.9	30.8	33.5	33.6	34.3
3312	Blast furnaces and steel mills .....	23.7	24.7	26.9	27.0	27.6
332	Iron and steel foundries .....	14.3	14.4	16.0	16.2	16.2
3321	Gray iron foundries .....	7.5	7.6	8.5	8.6	8.6
3322	Malleable iron foundries .....	1.4	1.4	1.3	1.4	1.4
3323	Steel foundries .....	5.4	5.4	6.2	6.2	6.2
333,4	Nonferrous metals .....	4.8	4.9	4.9	5.2	5.1
3334	Primary aluminum .....	1.3	1.4	1.5	1.6	1.6
335	Nonferrous rolling and drawing .....	36.8	37.2	36.7	36.9	37.9
3351	Copper rolling and drawing .....	3.3	3.5	3.5	3.6	3.8
3352	Aluminum rolling and drawing .....	7.5	7.5	9.0	9.0	9.1
3357	Nonferrous wire drawing and insulating .....	22.3	22.6	21.5	21.5	22.2
336	Nonferrous foundries .....	12.6	12.7	13.6	13.6	13.6
3361	Aluminum castings .....	6.0	6.1	6.7	6.7	6.7
3362,9	Other nonferrous castings .....	6.6	6.6	6.9	6.9	6.9
339	Miscellaneous primary metal products .....	6.1	6.3	7.0	7.1	7.1
3391	Iron and steel forgings .....	3.0	3.2	3.4	3.5	3.5
<b>34</b>	<b>FABRICATED METAL PRODUCTS</b> .....	283.1	287.3	303.8	<sup>r</sup> 305.3	309.6
341	Metal cans .....	10.4	10.2	10.2	10.3	10.7
342	Cutlery, hand tools, and hardware .....	57.8	58.4	62.9	<sup>r</sup> 62.7	63.0
3421,3,5	Cutlery and hand tools, including saws .....	21.6	21.6	23.3	23.5	23.6
3429	Hardware, nec .....	36.2	36.8	39.6	<sup>r</sup> 39.2	39.4
343	Plumbing and heating, except electric .....	14.3	15.0	17.3	17.3	17.6
3431,2	Sanitary ware and plumbers' brass goods .....	6.9	7.2	8.1	8.0	8.3
3433	Heating equipment, except electric .....	7.4	7.8	9.2	9.3	9.3
344	Fabricated structural metal products .....	60.3	62.1	66.6	66.2	67.4
3441	Fabricated structural steel .....	6.5	6.6	6.8	6.7	6.7
3442	Metal doors, sash, and trim .....	20.5	22.0	22.7	22.0	22.6
3443	Fabricated plate work (boiler shops) .....	13.2	13.3	14.4	14.4	14.4
3444	Sheet metal work .....	12.8	12.9	14.5	14.8	15.2
3446,9	Architectural and miscellaneous metal work .....	7.3	7.3	8.2	8.3	8.5
345	Screw machine products, bolts, etc. ....	22.1	22.4	23.9	24.1	24.2
3451	Screw machine products .....	12.0	12.1	13.2	13.3	13.3
3452	Bolts, nuts, rivets, and washers .....	10.1	10.3	10.7	10.8	10.9
346	Metal stampings .....	48.2	48.8	48.5	49.1	50.5
347	Metal services, nec .....	20.4	20.8	22.3	22.8	23.2
348	Misc. fabricated wire products .....	15.5	15.3	16.3	16.4	16.5
349	Misc. fabricated metal products .....	34.1	34.3	35.8	36.4	36.5
3494,8	Valves, pipe, and pipe fittings .....	21.7	21.6	22.9	23.1	23.1
<b>35</b>	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	367.3	369.1	406.4	411.5	416.4
351	Engines and turbines .....	19.1	19.1	19.9	20.0	20.3
3511	Steam engines and turbines .....	5.4	5.4	5.7	5.7	5.8
3519	Internal combustion engines, nec .....	13.7	13.7	14.2	14.3	14.5
352	Farm machinery .....	18.9	18.9	19.5	19.7	19.9
353	Construction and related machinery .....	35.5	35.3	37.3	37.9	38.6
3531,2	Construction and mining machinery .....	16.3	16.0	15.4	15.7	16.0
3533	Oil field machinery .....	7.8	7.7	8.9	9.0	9.2
3535,6	Conveyors, hoists, cranes, monorails .....	5.6	5.7	6.0	6.1	6.2
3537	Industrial trucks and tractors .....	3.6	3.8	4.8	4.9	5.0
354	Metal working machinery .....	45.8	46.2	50.4	50.9	51.4
3541	Machine tools, metal cutting types .....	6.7	6.8	7.4	7.6	7.8
3544	Special dies, tools, jigs and fixtures .....	12.5	12.6	14.0	14.0	14.1
3545	Machine tool accessories .....	10.8	10.8	11.9	12.0	12.2
3542,8	Miscellaneous metal working machinery .....	15.8	16.0	17.1	17.3	17.3
355	Special industry machinery .....	24.2	24.4	25.7	26.2	26.6
3551	Food products machinery .....	5.0	5.0	5.5	5.6	5.5
3552	Textile machinery .....	5.4	5.5	5.7	5.8	5.9
3555	Printing trades machinery .....	3.8	3.9	4.4	4.6	4.9
356	General industrial machinery .....	52.6	52.9	56.4	57.3	57.7
3561	Pumps and compressors .....	13.0	13.3	13.6	13.8	13.9
3562	Ball and roller bearings .....	12.9	12.9	13.9	14.1	14.1
3564	Blowers and fans .....	7.1	6.9	7.9	8.0	8.1
3566	Power transmission equipment .....	7.1	7.3	7.9	8.1	8.2
357	Office and computing machines .....	93.5	93.9	112.7	114.0	116.0
3573	Electronic computing equipment .....	70.2	70.0	86.2	87.3	88.4
358	Service industry machines .....	32.1	32.6	35.6	36.2	35.9
3585	Refrigeration machinery .....	21.4	22.0	24.8	25.2	24.8
359	Miscellaneous machinery, except electrical .....	45.6	45.8	48.9	49.3	50.0

r = revised.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978	Apr. 1978
<b>DURABLE GOODS — CONTINUED</b>						
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	781.8	792.2	841.4	847.0	854.2
361	Electrical test and distributing equipment	74.1	76.0	82.0	83.1	83.9
3611	Electric measuring instruments	33.2	33.5	38.1	38.9	40.0
3612	Transformers	15.1	16.6	16.6	16.8	16.5
3613	Switchgear and switchboard apparatus	25.8	25.9	27.3	27.4	27.4
362	Electrical industrial apparatus	83.5	84.1	89.3	90.2	90.6
3621	Motors and generators	40.2	40.2	44.1	44.4	44.6
3622	Industrial controls	31.7	31.8	32.1	32.7	32.8
363	Household appliances	56.4	60.2	61.9	62.6	65.2
3632	Household refrigerators and freezers	9.3	9.0	10.8	11.4	12.6
3633	Household laundry equipment	5.5	6.0	5.9	5.9	6.2
3634	Electric housewares and fans	28.0	28.7	27.7	28.3	28.4
364	Electric lighting and wiring equipment	91.3	92.7	96.3	97.9	98.3
3641	Electric lamps	23.8	24.2	24.6	24.5	24.4
3642	Lighting fixtures	23.9	24.1	24.6	25.1	25.8
3643,4	Wiring devices	43.6	44.4	47.1	48.3	48.1
365	Radio and TV receiving equipment	66.6	67.6	70.8	69.8	69.3
366	Communication equipment	153.6	154.4	168.5	168.5	167.8
3661	Telephone and telegraph apparatus	65.0	65.7	72.0	71.9	70.8
3662	Radio and TV communication equipment	88.6	88.7	96.5	96.6	97.0
367	Electronic components and accessories	204.9	205.0	215.5	216.7	219.6
3671-3	Electron tubes	16.0	16.1	16.7	16.7	16.9
3674,9	Other electronic components	188.9	188.9	198.8	200.0	202.7
369	Miscellaneous electrical equipment and supplies	51.4	52.2	57.1	58.2	59.5
3694	Engine electrical equipment	27.5	27.9	30.5	30.8	31.5
37	<b>TRANSPORTATION EQUIPMENT</b>	231.3	238.3	249.1	255.7	259.7
371	Motor vehicles and equipment	100.6	104.6	113.9	116.0	117.0
3711	Motor vehicles	32.3	35.2	39.7	41.4	41.9
3712	Passenger car bodies	5.3	5.6	5.1	5.6	5.8
3713	Truck and bus bodies	4.5	4.6	5.0	5.0	5.0
3714	Motor vehicle parts and accessories	56.9	57.5	62.2	62.1	62.4
3715	Truck trailers	1.6	1.7	1.9	1.9	1.9
372	Aircraft and parts	76.5	77.8	80.4	83.3	83.7
3721	Aircraft	42.9	43.6	42.7	45.4	45.3
3722	Aircraft engines and engine parts	18.3	18.9	20.6	20.9	21.2
3723,9	Other aircraft parts and equipment	15.3	15.3	17.1	17.0	17.2
373	Ship and boat building and repairing	22.1	22.2	22.0	22.0	22.1
3731	Ship building and repairing	13.6	13.8	14.3	14.1	14.2
3732	Boat building and repairing	8.5	8.4	7.7	7.9	7.9
374	Railroad equipment	4.6	4.7	3.8	3.9	4.6
375,9	Other transportation equipment	27.5	29.0	29.0	30.5	32.3
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	208.4	209.7	219.3	221.5	223.6
381	Engineering and scientific instruments	16.8	17.0	18.1	18.2	18.6
382	Mechanical measuring and control devices	48.1	48.0	52.0	52.1	52.3
3821	Mechanical measuring devices	28.5	28.5	29.8	30.0	30.2
3822	Automatic temperature controls	19.6	19.5	22.2	22.1	22.1
383,5	Optical and ophthalmic goods	30.4	30.7	32.9	33.1	33.6
385	Ophthalmic goods	22.2	22.6	24.0	24.1	24.5
384	Medical instruments and supplies	58.7	59.2	62.6	63.8	64.5
386	Photographic equipment and supplies	35.1	35.3	35.4	35.8	35.9
387	Watches, clocks, and watchcases	19.3	19.5	18.3	18.5	18.7
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	189.7	191.1	186.5	191.5	193.4
391	Jewelry, silverware, and plated ware	23.5	23.9	24.8	25.8	26.1
394	Toys and sporting goods	61.4	62.7	55.2	56.8	59.0
3941-3	Games, toys, dolls, and play vehicles	32.7	33.4	28.8	30.2	32.4
3949	Sporting and athletic goods, n e c	28.7	29.3	26.4	26.6	26.6
395	Pens, pencils, office and art supplies	19.0	18.9	19.0	19.0	19.0
396	Costume jewelry and notions	27.4	27.2	28.3	29.1	28.6
393,9	Other manufacturing industries	58.4	58.4	59.2	60.8	60.7
393	Musical instruments and parts	9.7	9.7	10.5	10.6	10.6
<b>NONDURABLE GOODS</b>						
20	<b>FOOD AND KINDRED PRODUCTS</b>	448.3	450.6	447.3	455.2	453.3
201	Meat products	106.6	107.6	110.6	110.4	110.8
2011	Meat packing plants	25.6	25.7	26.5	26.4	26.4
2013	Sausages and other prepared meats	18.8	19.0	19.4	19.3	19.2
2015	Poultry dressing plants	62.2	62.9	64.7	64.7	65.2
202	Dairy products	36.5	36.9	35.9	37.2	37.7
2024	Ice cream and frozen desserts	5.4	5.6	5.2	5.6	6.2

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978	Apr. 1978
<b>NONDURABLE GOODS - CONTINUED</b>						
<b>FOOD AND KINDRED PRODUCTS - Continued</b>						
2026	Fluid milk	19.6	20.0	19.3	20.0	20.1
203	Canned, cured, and frozen foods	105.3	106.5	96.3	102.6	99.2
2031,6	Canned, cured, and frozen sea foods	23.8	24.3	21.8	22.9	23.2
2032,3	Canned food, except sea foods	33.3	34.2	32.7	35.1	34.3
2037	Frozen fruits and vegetables	32.4	32.1	27.0	29.5	27.0
204	Grain mill products	25.9	25.6	26.3	26.9	26.8
2041	Flour and other grain mill products	4.8	4.7	4.8	4.9	4.9
2042	Prepared feeds for animals and fowls	12.0	11.7	12.4	12.7	12.5
205	Bakery products	61.0	61.8	62.3	62.8	63.5
2051	Bread, cake, and related products	41.9	42.5	43.4	43.8	44.2
2052	Cookies and crackers	19.1	19.3	18.9	19.0	19.3
206	Sugar	3.2	3.1	3.6	3.4	3.4
207	Confectionery and related products	35.8	34.1	35.7	34.6	33.8
2071	Confectionery products	27.2	26.1	28.3	27.5	26.5
208	Beverages	34.0	34.3	35.2	35.5	36.2
2082	Malt liquors	4.9	5.0	5.1	5.3	5.4
2086	Bottled and canned soft drinks	14.9	15.1	16.0	16.3	16.7
209	Miscellaneous foods and kindred products	40.0	40.7	41.4	41.8	41.9
21	<b>TOBACCO MANUFACTURES</b>	23.7	24.0	25.6	24.0	22.4
211	Cigarettes	12.3	13.9	13.8	13.7	13.5
212	Cigars	6.6	6.5	6.5	6.5	6.3
22	<b>TEXTILE MILL PRODUCTS</b>	454.2	458.9	468.5	469.8	470.9
221	Weaving mills, cotton	73.0	72.9	71.3	71.2	70.5
222	Weaving mills, synthetics	48.5	48.6	47.9	47.5	47.4
223	Weaving and finishing mills, wool	8.9	9.0	8.6	8.8	8.8
224	Narrow fabric mills	15.0	15.1	16.2	16.2	16.3
225	Knitting mills	168.5	170.3	177.3	179.3	181.3
2251	Women's hosiery, except socks	29.0	28.8	30.5	30.7	30.1
2252	Hosiery, n e c	25.1	25.4	27.4	27.5	28.0
2253	Knit outerwear mills	57.1	58.1	59.5	60.7	62.4
2254	Knit underwear mills	28.7	28.8	30.8	31.4	31.9
226	Textile finishing, except wool	23.5	24.1	24.0	23.7	23.4
227	Floor covering mills	23.5	23.6	25.2	25.3	25.7
228	Yarn and thread mills	74.0	75.6	78.1	77.9	77.9
229	Miscellaneous textile goods	19.3	19.7	19.9	19.9	19.7
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,040.6	1,039.9	1,034.2	1,046.3	1,051.1
231	Men's and boys' suits and coats	67.5	67.4	67.9	66.1	67.4
232	Men's and boys' furnishings	318.8	319.3	320.8	319.6	321.7
2321	Men's and boys' shirts and nightwear	100.0	99.7	94.6	94.9	95.5
2327	Men's and boys' separate trousers	70.5	70.3	70.5	69.4	70.2
2328	Men's and boys' work clothing	79.3	79.7	83.8	82.4	82.5
233	Women's and misses' outerwear	329.5	325.0	312.3	322.1	322.2
2331	Women's and misses' blouses and waists	42.9	43.2	41.9	42.5	42.5
2335	Women's and misses' dresses	149.2	148.2	134.5	141.8	142.1
2337	Women's and misses' suits and coats	39.9	37.3	38.2	39.6	39.5
2339	Women's and misses' outerwear, n e c	97.5	96.3	97.7	98.2	98.1
234	Women's and children's undergarments	86.2	86.4	86.8	88.5	87.6
2341	Women's and children's underwear	66.9	67.2	68.0	69.1	68.5
2342	Corsets and allied garments	19.3	19.2	18.8	19.4	19.1
235	Hats, caps, and millinery	12.2	12.3	12.8	13.0	12.7
236	Children's outerwear	65.1	65.4	65.1	64.9	65.8
2361	Children's dresses and blouses	27.2	27.2	26.2	26.1	26.0
237,8	Fur goods and miscellaneous apparel	50.4	51.1	51.5	53.0	53.3
239	Miscellaneous fabricated textile products	110.9	113.0	117.0	119.1	120.4
2391,2	Housefurnishings	51.8	52.1	56.7	57.2	56.6
26	<b>PAPER AND ALLIED PRODUCTS</b>	144.3	146.3	153.5	154.6	158.1
261,2,6	Paper and pulp mills	23.2	23.5	24.4	24.3	24.6
263	Paperboard mills	5.5	5.6	5.8	5.9	5.8
264	Miscellaneous converted paper products	67.0	67.9	71.1	71.8	74.2
2643	Bags, except textile bags	14.7	14.7	15.6	15.8	15.9
265	Paperboard containers and boxes	48.6	49.3	52.2	52.6	53.5
2651,2	Folding and setup paperboard boxes	17.7	18.0	17.5	17.5	18.1
2653	Corrugated and solid fiber boxes	15.2	15.3	16.9	17.1	17.3
2654	Sanitary food containers	10.3	10.6	12.4	12.6	12.7

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978	Apr. 1978
<b>NONDURABLE GOODS - CONTINUED</b>						
27	<b>PRINTING AND PUBLISHING</b>	392.3	395.1	412.0	417.8	420.4
271	Newspapers	128.1	127.6	133.8	134.9	135.2
272	Periodicals	37.1	36.9	39.5	41.0	41.2
273	Books	46.6	47.5	48.4	49.6	49.9
275	Commercial printing	105.7	107.5	111.4	112.5	113.5
2751	Commercial printing, ex. lithographic	60.3	60.7	63.3	63.9	64.9
2752	Commercial printing, lithographic	41.5	43.0	43.9	44.2	44.3
278	Blankbooks and bookbinding	25.9	26.2	27.1	27.5	27.6
274,6,7,9	Other publishing and printing ind.	48.9	49.4	51.8	52.3	53.0
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	233.2	235.0	240.6	244.1	244.9
281	Industrial chemicals	46.9	46.9	49.6	49.8	50.4
2812	Alkalies and chlorines	2.0	2.0	2.0	2.0	2.0
2818	Industrial organic chemicals, n e c	21.4	21.2	22.3	22.4	22.6
2819	Industrial inorganic chemicals, n e c	15.9	16.1	17.1	17.2	17.4
282	Plastics materials and synthetics	37.4	38.6	38.6	38.6	38.5
2821	Plastics materials and resins	9.5	9.9	10.6	10.8	10.8
2823,4	Synthetic fibers	26.8	27.6	26.7	26.5	26.4
283	Drugs	70.1	70.8	70.4	71.2	70.7
2834	Pharmaceutical preparations	58.6	58.9	58.9	59.7	59.3
284	Soap, cleaners, and toilet goods	46.3	45.9	48.2	50.3	50.4
2841	Soap and other detergents	8.4	8.3	8.4	8.8	8.7
2844	Toilet preparations	28.0	27.6	29.4	30.8	30.8
285	Paints and allied products	11.2	11.3	12.0	12.1	12.4
287	Agricultural chemicals	7.0	6.9	6.9	7.0	7.4
2871,2	Fertilizers, complete and mixing only	3.2	3.2	3.2	3.3	3.5
286,9	Other chemical products	14.3	14.6	14.9	15.1	15.1
2892	Explosives	2.2	2.3	2.2	2.3	2.3
29	<b>PETROLEUM AND COAL PRODUCTS</b>	22.7	23.0	24.8	25.0	25.5
291	Petroleum refining	17.3	17.6	19.1	19.3	19.6
296,9	Other petroleum and coal products	5.4	5.4	5.7	5.7	5.9
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b>	225.9	227.5	239.3	241.1	244.0
301	Tires and inner tubes	11.0	11.1	11.0	10.9	10.9
302,3,6	Other rubber products	62.7	62.7	62.7	62.5	62.9
302	Rubber footwear	12.9	13.0	12.1	12.2	12.2
307	Miscellaneous plastics products	152.2	153.7	165.6	167.7	170.2
31	<b>LEATHER AND LEATHER PRODUCTS</b>	159.8	160.4	156.2	156.9	158.7
311	Leather tanning and finishing	3.4	3.3	3.2	3.2	3.3
314	Footwear, except rubber	106.8	108.2	106.6	106.6	108.3
312,3,5-7,9	Other leather products	49.6	48.9	46.4	47.1	47.1
316	Luggage	10.8	10.9	9.2	9.5	9.5
317	Handbags and personal leather goods	25.8	24.4	23.7	24.2	24.0
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	1,016	1,023	1,054	1,062	1,069
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>	56.9	54.3	56.1	57.2	56.3
411	Local and suburban transportation	9.3	8.7	10.8	10.8	8.9
412	Taxicabs	6.0	6.0	6.5	6.7	6.9
413	Intercity highway transportation	4.3	4.3	4.0	4.0	4.2
42	<b>TRUCKING AND WAREHOUSING</b>	115.2	115.8	122.5	123.0	124.5
421,3	Trucking and trucking terminals	99.5	100.3	106.1	106.6	107.7
422	Public warehousing	15.7	15.5	16.4	16.4	16.8
45	<b>TRANSPORTATION BY AIR</b>	109.1	109.8	117.9	118.8	119.7
451,2	Air transportation	103.6	104.3	112.2	112.8	113.7
46	<b>PIPE LINE TRANSPORTATION</b>	1.4	1.5	1.4	1.5	1.5
44	<b>WATER TRANSPORTATION</b>	17.5	18.2	17.8	18.1	19.1
47	<b>TRANSPORTATION SERVICES</b>	44.3	45.4	54.6	55.0	55.9
48	<b>COMMUNICATION</b>	517.9	520.3	537.6	541.0	543.4
481	Telephone communication	457.5	459.7	474.9	478.2	480.4
483	Radio and television broadcasting	46.9	46.9	49.5	49.7	50.1
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	122.9	123.5	128.9	129.5	130.2
491	Electric companies and systems	51.5	51.7	54.4	54.5	54.7
492	Gas companies and systems	30.4	30.5	31.2	31.3	31.5

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978	Apr. 1978
<b>NONDURABLE GOODS — CONTINUED</b>						
<b>ELECTRIC, GAS, AND SANITARY SERVICES — Cont'd</b>						
493	Combination companies and systems	31.3	31.5	32.3	32.4	32.6
494-7	Water, steam, and sanitary systems	9.7	9.8	11.0	11.3	11.4
—	<b>WHOLESALE AND RETAIL TRADE</b>	<b>7,426</b>	<b>7,523</b>	<b>7,678</b>	<b>7,754</b>	<b>7,862</b>
50	<b>WHOLESALE TRADE</b>	<b>1,058</b>	<b>1,062</b>	<b>1,110</b>	<b>1,123</b>	<b>1,130</b>
501	Motor vehicles and automotive equipment	82.7	83.6	86.3	87.4	88.5
502	Drugs, chemicals, and allied products	82.8	83.3	85.8	86.9	88.3
503	Dry goods and apparel	77.9	77.9	77.0	79.1	80.2
504	Groceries and related products	135.2	138.2	134.8	137.9	139.1
506	Electrical goods	88.9	88.8	94.0	94.9	95.7
507	Hardware; plumbing and heating equipment	49.3	49.9	53.1	53.6	53.6
508	Machinery, equipment, and supplies	194.1	195.4	212.4	214.8	216.2
509	Miscellaneous wholesalers	317.4	318.1	335.7	337.3	339.6
52-59	<b>RETAIL TRADE</b>	<b>6,368</b>	<b>6,461</b>	<b>6,568</b>	<b>6,631</b>	<b>6,732</b>
53	Retail general merchandise	1,628.7	1,641.3	1,668.1	1,667.3	1,678.5
531	Department stores	1,117.7	1,124.9	1,154.1	1,148.5	1,158.3
532	Mail order houses	67.5	66.2	63.5	64.5	64.2
533	Variety stores	219.1	222.9	224.8	224.6	225.3
54	<b>Food stores</b>	<b>835.9</b>	<b>835.2</b>	<b>865.6</b>	<b>873.6</b>	<b>876.3</b>
541-3	Grocery, meat, and vegetable stores	719.6	717.1	751.9	756.9	763.2
56	<b>Apparel and accessory stores</b>	<b>532.4</b>	<b>536.4</b>	<b>530.3</b>	<b>537.4</b>	<b>539.9</b>
561	Men's and boys' clothing and furnishings	60.5	60.2	60.5	60.2	60.3
562	Women's ready-to-wear stores	257.6	256.5	250.4	253.7	255.8
565	Family clothing stores	89.9	91.0	92.0	92.6	93.4
566	Shoe stores	63.1	67.2	67.4	69.5	70.4
57	<b>Furniture and home furnishings stores</b>	<b>165.4</b>	<b>166.2</b>	<b>172.1</b>	<b>172.8</b>	<b>173.6</b>
571	Furniture and home furnishings	107.2	108.2	112.1	111.9	112.6
58	Eating and drinking places	2,101.2	2,164.7	2,168.3	2,213.3	2,283.3
52,55,59	<b>Other retail trade</b>	<b>1,104.0</b>	<b>1,116.7</b>	<b>1,163.9</b>	<b>1,166.8</b>	<b>1,180.1</b>
52	Building materials and farm equipment	123.0	123.9	130.3	130.7	133.4
55	Automotive dealers and service stations	256.8	258.8	268.9	269.6	275.0
551,2	Motor vehicle dealers	102.4	103.6	107.5	108.1	109.4
553,9	Other automotive and accessory dealers	53.1	54.1	56.4	56.8	59.1
59	Miscellaneous retail stores	724.2	734.0	764.7	766.5	771.7
591	Drug stores and proprietary stores	288.7	287.5	301.7	303.1	303.4
594	Book and stationery stores	40.3	40.6	41.2	41.7	40.4
596	Farm and garden supply stores	33.0	34.5	33.7	35.7	38.4
598	Fuel and ice dealers	20.8	20.0	21.8	21.7	21.4
—	<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	<b>2,471</b>	<b>2,481</b>	<b>2,612</b>	<b>2,632</b>	<b>2,646</b>
60	Banking	899.8	901.1	948.7	953.9	957.7
61	Credit agencies other than banks	302.6	304.8	334.6	338.1	340.6
612	Savings and loan associations	142.6	143.1	157.9	160.0	161.3
614	Personal credit institutions	106.7	108.2	118.3	119.1	120.3
62	Security, commodity brokers and services	64.8	65.2	67.1	67.1	67.5
63	Insurance carriers	637.4	639.4	667.0	670.4	673.2
631	Life insurance	247.0	246.6	250.5	250.0	249.9
632	Accident and health insurance	88.9	88.9	90.1	90.4	90.7
633	Fire, marine, and casualty insurance	259.1	260.7	279.1	281.8	284.1
64	Insurance agents, brokers, and service	206.6	207.6	221.2	223.5	224.7
65	Real estate	300.6	303.5	312.9	318.5	321.3
655	Subdividers and developers	29.8	30.3	30.3	30.9	32.2
656	Operative builders	12.5	12.5	14.8	14.9	14.7
66,67	Other finance, insurance, and real estate	59.2	58.9	60.2	60.4	60.5
—	<b>SERVICES</b>	<b>8,456</b>	<b>8,550</b>	<b>8,899</b>	<b>8,983</b>	<b>9,094</b>
<b>Hotels and other lodging places:</b>						
701	Hotels, tourist courts, and motels	440.7	453.5	444.4	451.7	473.5
72	Personal services	504.1	506.2	499.9	504.1	505.8
721	Laundries and dry cleaning plants	213.6	215.1	210.4	212.6	213.5
722	Photographic studios	23.3	22.8	22.9	22.8	22.3
73	Miscellaneous business services	819.3	824.9	883.5	899.1	905.9
731	Advertising	60.1	60.5	65.9	66.7	67.3
732	Credit reporting and collection	59.6	60.1	63.1	63.9	64.8
734	Services to buildings	163.9	164.5	166.4	167.8	168.8
76	Miscellaneous repair services	38.8	38.8	43.2	44.1	44.0
78	Motion pictures	73.0	74.8	69.5	70.9	72.0
781	Motion picture filming and distributing	23.5	23.2	22.6	22.7	21.4
782,3	Motion picture theaters and services	49.5	51.6	46.9	48.2	50.6



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	Mar. 1977	Apr. 1977	Feb. 1978	Mar. 1978	Apr. 1978
	<b>SERVICES — Continued</b>					
80	Medical and other health services . . . . .	3,743.0	3,763.5	3,992.5	4,010.3	4,028.9
806	Hospitals . . . . .	1,971.8	1,977.2	2,064.3	2,070.9	2,076.9
81	Legal services . . . . .	251.5	253.7	278.3	279.8	280.4
82	Educational services . . . . .	712.4	710.1	759.0	773.9	778.5
821	Elementary and secondary schools . . . . .	276.1	276.4	298.0	300.0	300.5
822	Colleges and universities . . . . .	339.1	335.7	348.4	358.2	359.7
89	Miscellaneous services . . . . .	278.7	279.4	317.8	325.0	327.5
891	Engineering and architectural services . . . . .	77.6	79.1	89.1	90.9	92.7
892	Nonprofit research agencies . . . . .	58.2	57.9	64.9	66.8	68.1
	<b>GOVERNMENT</b> . . . . .	7,094	7,096	7,370	7,438	7,473
91	<b>FEDERAL GOVERNMENT</b> . . . . .	864	866	855	859	868
92,93	<b>STATE AND LOCAL GOVERNMENT</b> . . . . .	6,230	6,230	6,515	6,579	6,605
92	State government . . . . .	1,527.9	1,524.2	1,540.1	1,549.4	1,549.2
	State education . . . . .	655.6	653.0	646.7	650.7	648.9
	Other State government . . . . .	872.3	871.2	893.4	898.7	900.3
93	Local government . . . . .	4,701.6	4,705.0	4,974.8	5,030.0	5,055.5
	Local education . . . . .	3,287.0	3,288.5	3,446.3	3,485.3	3,493.9
	Other local government . . . . .	1,414.6	1,417.1	1,528.5	1,544.7	1,561.6

**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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>p</sup>	June <sup>p</sup>
<b>TOTAL</b> .....	82,157	82,407	82,474	82,763	83,902	83,245	83,429	83,719	84,046	84,555	85,223	85,454	85,729
<b>GOODS-PRODUCING</b> .....	24,355	24,412	24,305	24,360	24,436	24,528	24,526	24,593	24,733	24,945	25,351	25,435	25,527
<b>MINING</b> .....	856	833	818	856	859	863	711	705	711	728	898	903	912
<b>CONTRACT CONSTRUCTION</b> .....	3,888	3,913	3,893	3,892	3,911	3,950	3,947	3,916	3,947	4,053	4,237	4,275	4,362
<b>MANUFACTURING</b> .....	19,611	19,666	19,594	19,612	19,666	19,715	19,868	19,972	20,075	20,164	20,216	20,257	20,253
<b>DURABLE GOODS</b> .....	11,484	11,548	11,527	11,545	11,604	11,625	11,748	11,828	11,909	11,965	11,992	12,028	12,034
Ordnance and accessories .....	157	156	156	155	150	152	155	156	157	157	157	157	158
Lumber and wood products .....	638	640	642	648	653	662	666	667	664	670	669	673	665
Furniture and fixtures .....	510	515	508	510	517	521	530	532	537	540	538	536	535
Stone, clay, and glass products .....	659	659	656	658	657	667	671	675	676	680	687	688	692
Primary metal industries .....	1,218	1,204	1,202	1,211	1,208	1,206	1,204	1,212	1,217	1,215	1,216	1,223	1,223
Fabricated metal products .....	1,452	1,459	1,460	1,456	1,473	1,479	1,492	1,499	1,515	1,515	1,520	1,526	1,523
Machinery, except electrical .....	2,170	2,202	2,210	2,217	2,243	2,237	2,257	2,265	2,279	2,295	2,311	2,320	2,331
Electrical equipment and supplies .....	1,931	1,959	1,951	1,944	1,961	1,974	1,987	1,998	2,017	2,035	2,041	2,045	2,049
Transportation equipment .....	1,802	1,813	1,802	1,809	1,801	1,782	1,830	1,862	1,879	1,885	1,876	1,882	1,875
Instruments and related products .....	527	527	526	528	530	532	536	539	541	545	548	551	553
Miscellaneous manufacturing .....	420	414	414	409	411	413	420	423	427	428	429	427	430
<b>NONDURABLE GOODS</b> .....	8,127	8,118	8,067	8,067	8,062	8,090	8,120	8,144	8,166	8,199	8,224	8,229	8,219
Food and kindred products .....	1,736	1,728	1,710	1,711	1,696	1,703	1,714	1,728	1,729	1,739	1,740	1,730	1,721
Tobacco manufactures .....	72	72	68	67	67	66	69	69	69	70	68	70	70
Textile mill products .....	986	992	982	985	987	993	991	991	995	995	991	995	997
Apparel and other textile products .....	1,301	1,292	1,286	1,285	1,285	1,291	1,291	1,289	1,283	1,292	1,303	1,301	1,298
Paper and allied products .....	703	705	704	702	702	700	705	707	710	714	718	722	722
Printing and publishing .....	1,113	1,114	1,114	1,116	1,117	1,120	1,123	1,125	1,129	1,133	1,137	1,140	1,146
Chemicals and allied products .....	1,061	1,064	1,061	1,058	1,058	1,059	1,064	1,066	1,070	1,071	1,074	1,079	1,079
Petroleum and coal products .....	210	210	210	210	211	212	212	214	217	217	216	215	215
Rubber and plastics products, nec .....	680	683	671	671	673	681	689	693	701	705	713	712	708
Leather and leather products .....	265	258	261	262	266	265	263	262	263	263	264	265	263
<b>SERVICE-PRODUCING</b> .....	57,802	57,995	58,169	58,403	58,466	58,717	58,903	59,126	59,313	59,610	59,872	60,019	60,202
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,588	4,572	4,581	4,616	4,610	4,634	4,652	4,628	4,651	4,672	4,709	4,713	4,716
<b>WHOLESALE AND RETAIL TRADE</b> ..	18,264	18,322	18,377	18,431	18,414	18,512	18,610	18,744	18,744	18,849	18,891	18,961	19,002
<b>WHOLESALE TRADE</b> .....	4,387	4,394	4,398	4,410	4,415	4,438	4,460	4,482	4,510	4,540	4,555	4,566	4,563
<b>RETAIL TRADE</b> .....	13,877	13,928	13,979	14,021	13,999	14,074	14,150	14,262	14,234	14,309	14,336	14,395	14,439
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,494	4,506	4,524	4,545	4,572	4,597	4,611	4,630	4,647	4,670	4,683	4,710	4,730
<b>SERVICES</b> .....	15,260	15,372	15,448	15,482	15,533	15,608	15,663	15,693	15,791	15,875	15,962	15,967	16,020
Hotels and other lodging places .....	1,066	1,082	1,081	1,073	1,074	1,077	1,058	1,053	1,059	1,076	1,081	1,073	—
Personal services .....	806	802	803	801	799	800	799	801	801	802	799	795	—
Medical and other health services .....	4,723	4,747	4,778	4,801	4,827	4,850	4,877	4,898	4,925	4,942	4,966	4,982	—
Educational services .....	1,285	1,314	1,327	1,356	1,342	1,346	1,338	1,342	1,345	1,343	1,359	1,359	—
<b>GOVERNMENT</b> .....	15,196	15,223	15,239	15,329	15,337	15,366	15,367	15,431	15,480	15,544	15,627	15,668	15,734
<b>FEDERAL</b> .....	2,735	2,721	2,732	2,728	2,730	2,727	2,718	2,736	2,736	2,736	2,744	2,753	2,758
<b>STATE AND LOCAL</b> .....	12,461	12,502	12,507	12,601	12,607	12,639	12,649	12,695	12,744	12,808	12,883	12,915	12,976

<sup>p</sup> = preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED EMPLOYMENT**

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

[In thousands]

Industry division and group	1977									1978			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
<b>TOTAL</b> .....	32,653	32,813	33,003	33,162	33,261	33,360	33,414	33,552	33,707	33,931	34,034	<sup>r</sup> 34,248	34,462
<b>GOODS-PRODUCING</b> .....	6,124	6,145	6,176	6,187	6,165	6,182	6,203	6,239	6,289	6,332	6,365	<sup>r</sup> 6,411	6,457
<b>MINING</b> .....	63	64	65	66	66	68	68	69	66	66	68	69	73
<b>CONTRACT CONSTRUCTION</b> .....	261	263	267	270	275	274	276	277	277	281	287	289	291
<b>MANUFACTURING</b> .....	5,800	5,818	5,844	5,851	5,824	5,840	5,859	5,893	5,946	5,985	6,010	<sup>r</sup> 6,053	6,093
<b>DURABLE GOODS</b> .....	2,589	2,601	2,618	2,629	2,622	2,635	2,652	2,666	2,709	2,733	2,751	<sup>r</sup> 2,774	2,795
Ordnance and accessories .....	35	35	35	35	35	35	34	34	35	35	35	35	36
Lumber and wood products .....	83	83	84	84	85	85	86	88	89	91	90	91	92
Furniture and fixtures .....	144	144	145	146	145	146	148	148	152	154	155	156	155
Stone, clay, and glass products .....	117	117	118	118	117	118	118	120	121	122	123	122	122
Primary metal industries .....	106	109	111	111	109	111	111	111	112	112	112	113	114
Fabricated metal products .....	290	292	293	293	294	296	296	299	303	307	310	<sup>r</sup> 310	312
Machinery, except electrical .....	370	372	375	381	385	385	391	393	400	404	406	412	418
Electrical equipment and supplies .....	800	805	807	815	812	808	818	823	837	842	853	859	863
Transportation equipment .....	238	239	245	242	238	250	248	247	250	252	249	256	260
Instruments and related products .....	211	212	213	214	213	214	214	215	217	220	222	223	225
Miscellaneous manufacturing .....	195	193	192	190	189	187	188	188	193	194	196	197	198
<b>NONDURABLE GOODS</b> .....	3,211	3,217	3,226	3,222	3,202	3,205	3,207	3,227	3,237	3,252	3,259	3,279	3,298
Food and kindred products .....	486	480	482	479	471	472	467	472	476	484	485	487	488
Tobacco manufactures .....	28	27	27	27	25	25	25	25	27	26	26	27	26
Textile mill products .....	460	463	463	466	463	464	467	471	468	470	471	473	472
Apparel and other textile products .....	1,041	1,043	1,047	1,043	1,038	1,038	1,037	1,039	1,041	1,039	1,036	1,042	1,052
Paper and allied products .....	148	150	151	151	151	151	152	153	154	155	156	157	160
Printing and publishing .....	395	399	402	404	404	406	407	408	409	412	414	419	420
Chemicals and allied products .....	238	237	238	238	238	239	238	240	241	243	244	247	248
Petroleum and coal products <sup>1</sup> .....	23	24	24	25	25	25	24	25	25	25	25	25	26
Rubber and plastics products, nec .....	231	233	233	234	229	227	230	234	239	241	243	244	247
Leather and leather products .....	161	161	159	155	158	158	160	160	157	157	159	158	159
<b>SERVICE-PRODUCING</b> .....	26,529	26,668	26,827	26,975	27,096	27,178	27,211	27,313	27,418	27,599	27,669	27,837	28,005
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,027	1,032	1,039	1,038	1,042	1,048	1,034	1,041	1,053	1,049	1,059	1,068	1,073
<b>WHOLESALE AND RETAIL TRADE</b> ..	7,614	7,636	7,667	7,689	7,719	7,734	7,760	7,778	7,823	7,908	7,885	7,929	7,957
<b>WHOLESALE TRADE</b> .....	1,074	1,076	1,079	1,080	1,084	1,088	1,083	1,094	1,098	1,108	1,121	1,135	1,143
<b>RETAIL TRADE</b> .....	6,540	6,560	6,588	6,609	6,635	6,646	6,677	6,684	6,725	6,800	6,764	6,794	6,814
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,489	2,500	2,515	2,532	2,543	2,557	2,568	2,582	2,596	2,614	2,625	2,640	2,654
<b>SERVICES</b> .....	8,542	8,576	8,625	8,698	8,744	8,763	8,788	8,827	8,856	8,903	8,971	9,019	9,085
<b>GOVERNMENT</b> .....	6,857	6,924	6,981	7,018	7,048	7,076	7,061	7,085	7,090	7,125	7,129	7,181	7,236
<b>FEDERAL</b> .....	849	862	867	870	870	872	857	856	840	854	852	855	867
<b>STATE AND LOCAL</b> .....	6,008	6,062	6,114	6,148	6,178	6,204	6,204	6,229	6,250	6,271	6,277	6,326	6,369

<sup>1</sup> 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.

<sup>r</sup>revised.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED EMPLOMENT**

**B-6. Production or nonsupervisory workers<sup>1</sup> on private 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 <sup>P</sup>	June <sup>P</sup>
<b>TOTAL</b> .....	54,968	55,122	55,117	55,267	55,337	55,644	55,790	55,928	56,132	56,515	57,017	57,189	57,284
<b>GOODS-PRODUCING</b> .....	17,877	17,888	17,784	17,829	17,890	17,985	17,970	18,002	18,118	18,318	18,677	18,752	18,794
<b>MINING</b> .....	645	624	609	643	645	649	518	512	516	532	679	685	688
<b>CONTRACT CONSTRUCTION</b> .....	3,100	3,119	3,097	3,095	3,113	3,152	3,146	3,087	3,114	3,230	3,410	3,445	3,529
<b>MANUFACTURING</b> .....	14,132	14,145	14,078	14,091	14,132	14,184	14,306	14,403	14,488	14,556	14,588	14,622	14,577
<b>DURABLE GOODS</b> .....	8,236	8,271	8,252	8,266	8,313	8,337	8,438	8,512	8,575	8,614	8,632	8,659	8,639
Ordnance and accessories .....	73	73	71	70	68	69	71	72	73	73	73	72	72
Lumber and wood products .....	544	544	548	553	556	567	570	570	566	572	570	572	565
Furniture and fixtures .....	420	423	416	418	424	429	436	439	443	446	445	443	440
Stone, clay, and glass products .....	527	527	523	524	522	531	535	538	536	540	547	548	549
Primary metal industries .....	954	943	937	948	946	944	943	951	957	954	955	964	960
Fabricated metal products .....	1,103	1,106	1,104	1,102	1,117	1,124	1,134	1,142	1,156	1,155	1,158	1,163	1,160
Machinery, except electrical .....	1,409	1,438	1,443	1,444	1,464	1,459	1,474	1,482	1,495	1,506	1,518	1,524	1,530
Electrical equipment and supplies .....	1,287	1,299	1,296	1,289	1,303	1,314	1,324	1,331	1,346	1,360	1,359	1,363	1,358
Transportation equipment .....	1,275	1,281	1,279	1,285	1,278	1,261	1,300	1,332	1,345	1,347	1,342	1,346	1,335
Instruments and related products .....	323	322	321	324	324	326	329	331	331	333	336	337	341
Miscellaneous manufacturing .....	321	315	314	309	311	313	322	324	327	328	329	327	329
<b>NONDURABLE GOODS</b> .....	5,896	5,874	5,826	5,825	5,819	5,847	5,868	5,891	5,913	5,942	5,956	5,963	5,938
Food and kindred products .....	1,181	1,170	1,156	1,157	1,141	1,149	1,157	1,172	1,177	1,185	1,184	1,176	1,163
Tobacco manufactures .....	59	57	54	54	54	53	55	55	55	56	54	55	55
Textile mill products .....	860	866	855	857	860	866	863	863	866	867	864	868	868
Apparel and other textile products .....	1,117	1,105	1,102	1,100	1,099	1,105	1,107	1,107	1,103	1,109	1,120	1,119	1,114
Paper and allied products .....	528	529	528	526	527	525	529	530	532	535	538	543	541
Printing and publishing .....	642	642	640	639	641	642	642	642	645	649	650	651	651
Chemicals and allied products .....	610	612	609	608	607	608	611	614	617	617	618	623	626
Petroleum and coal products .....	138	137	137	138	139	141	140	142	144	143	142	141	141
Rubber and plastics products, nec .....	534	536	522	522	524	532	540	542	550	556	560	560	555
Leather and leather products .....	227	220	223	224	227	226	224	224	224	225	226	227	224
<b>SERVICE-PRODUCING</b> .....	37,091	37,234	37,333	37,438	37,447	37,659	37,820	37,926	38,014	38,197	38,340	38,437	38,490
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	3,903	3,885	3,890	3,918	3,899	3,922	3,951	3,909	3,922	3,937	3,962	3,966	3,967
<b>WHOLESALE AND RETAIL TRADE</b> .....	16,114	16,165	16,208	16,234	16,202	16,293	16,383	16,511	16,490	16,582	16,603	16,674	16,715
<b>WHOLESALE TRADE</b> .....	3,623	3,627	3,629	3,639	3,637	3,659	3,673	3,692	3,714	3,738	3,748	3,758	3,750
<b>RETAIL TRADE</b> .....	12,491	12,538	12,579	12,595	12,565	12,634	12,710	12,819	12,776	12,844	12,855	12,916	12,965
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,420	3,437	3,439	3,459	3,476	3,496	3,505	3,527	3,539	3,551	3,566	3,582	3,601
<b>SERVICES</b> .....	13,654	13,747	13,796	13,827	13,870	13,948	13,981	13,979	14,063	14,127	14,209	14,215	14,207

<sup>1</sup> 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 employment<sup>1</sup> 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	77.3p
December.....	73.8	77.9	83.7	78.2p
1978				
January.....	66.9	80.5	85.2	
February.....	70.1	81.7	84.0p	
March.....	74.4	77.6	76.5p	
April.....	68.9	73.3p		
May.....	63.4p	65.1p		
June.....	57.8p			
July.....				
August.....				
September.....				
October.....				
November.....				
December.....				

<sup>1</sup> 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)

	Total			Mining			Construction			Manufacturing		
	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
1 ALABAMA .....	1,265.7	1,286.0	1,290.7	14.8	15.8	15.9	78.2	76.5	78.8	355.6	354.8	355.9
2 Birmingham .....	331.8	338.7	339.1	9.3	9.2	9.3	22.2	22.8	23.5	66.7	66.8	66.5
3 Huntsville .....	109.8	111.1	112.2	(1)	(1)	(1)	4.1	3.9	4.0	31.5	33.1	33.7
4 Mobile .....	138.6	142.8	142.9	(1)	(1)	(1)	11.3	11.5	11.8	28.4	29.6	29.5
5 Montgomery .....	93.9	97.8	98.2	(1)	(1)	(1)	6.4	6.2	6.4	14.8	15.3	15.5
6 Tuscaloosa .....	49.7	48.7	48.3	.8	1.0	1.0	3.5	3.6	3.6	10.6	9.0	8.9
7 ALASKA .....	168.6	155.3	159.0	4.5	4.9	4.9	22.8	14.4	15.9	11.4	9.7	10.0
8 ARIZONA .....	795.2	835.1	836.2	24.3	19.7	19.7	47.3	59.6	60.9	111.2	115.3	117.3
9 Phoenix .....	480.5	511.5	510.4	.6	.6	.6	28.7	36.7	37.4	82.1	86.3	87.1
10 Tucson .....	152.7	155.7	155.8	8.1	5.8	5.8	9.2	11.2	11.4	13.1	13.5	13.9
11 ARKANSAS .....	693.0	726.0	730.5	4.5	5.0	5.0	37.9	41.1	42.3	208.8	218.2	218.7
12 Fayetteville-Springdale .....	55.8	58.5	58.2	(1)	(1)	(1)	2.8	3.5	3.5	17.4	18.2	17.9
13 Fort Smith .....	63.3	65.3	65.7	.6	.7	.7	2.9	2.7	2.7	23.7	25.0	24.8
14 Little Rock-North Little Rock .....	163.7	169.4	170.1	(1)	(1)	(1)	9.3	9.5	9.8	30.1	31.6	31.6
15 Pine Bluff .....	28.1	29.5	29.7	(1)	(1)	(1)	1.1	1.0	1.1	6.1	6.3	6.3
16 CALIFORNIA .....	8,507.4	8,836.1	8,937.1	34.7	35.7	35.9	353.1	377.0	388.2	1,705.9	1,758.9	1,775.1
17 Anaheim-Santa Ana-Garden Grove .....	668.2	712.9	719.6	2.1	2.4	2.4	38.7	41.4	42.6	171.5	183.5	184.7
18 Bakersfield .....	111.6	114.8	115.8	9.0	9.5	9.6	5.4	5.5	5.5	8.6	9.0	9.1
19 Fresno .....	162.2	168.5	170.5	.7	.8	.8	8.5	9.1	9.4	21.4	21.7	22.2
20 Los Angeles-Long Beach .....	3,203.9	3,303.6	3,326.6	11.1	11.3	11.4	96.3	100.7	103.1	816.4	834.1	842.1
21 Modesto .....	75.7	80.0	79.5	.1	.1	.1	5.1	5.3	5.6	15.8	16.9	16.3
22 Oxnard-Simi Valley-Ventura .....	127.1	129.5	131.0	2.2	2.3	2.3	5.9	5.4	5.6	19.8	19.9	19.7
23 Riverside-San Bernardino-Ontario .....	368.7	386.0	388.9	2.2	2.5	2.5	17.7	18.8	19.3	57.3	58.9	59.7
24 Sacramento .....	349.2	363.6	366.9	.4	.4	.4	17.5	18.2	19.7	24.1	24.9	24.8
25 Salinas-Seaside-Monterey .....	81.1	81.4	82.8	.6	.6	.6	3.1	3.1	3.3	10.1	9.2	9.7
26 San Diego .....	534.2	561.6	566.1	.8	.8	.8	31.0	32.8	34.2	75.2	82.4	83.2
27 San Francisco-Oakland .....	1,391.0	1,423.9	1,429.0	1.8	1.8	1.8	59.7	60.4	61.4	187.6	191.4	191.2
28 San Jose .....	526.9	557.5	564.2	.1	.1	.1	21.2	22.2	23.0	170.1	180.9	182.9
29 Santa Barbara-Santa Maria-Lompoc .....	106.7	106.6	107.0	.9	1.0	1.0	4.1	4.1	4.2	14.3	13.8	13.9
30 Santa Rosa .....	74.1	77.2	78.4	.3	.3	.3	4.2	4.0	4.3	10.2	11.2	11.3
31 Stockton .....	107.7	109.0	110.6	.1	.1	.1	4.5	4.6	4.8	19.5	19.0	18.9
32 Vallejo-Fairfield-Napa .....	88.9	92.2	93.5	.2	.2	.2	3.8	3.8	4.0	8.3	9.0	9.2
33 COLORADO <sup>2</sup> .....	(*)	1,014.7	1,017.5	(*)	23.0	23.0	(*)	60.9	60.9	(*)	145.6	146.1
34 Denver-Boulder <sup>2</sup> .....	(*)	645.3	646.1	(*)	10.5	10.5	(*)	40.8	40.3	(*)	100.0	100.3
35 CONNECTICUT .....	1,286.8	1,308.3	(*)	(3)	(3)	(*)	44.0	40.7	(*)	406.9	408.3	(*)
36 Bridgeport .....	154.1	155.6	156.8	(3)	(3)	(3)	4.3	4.3	4.6	61.1	62.0	62.7
37 Hartford .....	349.4	358.1	360.5	(3)	(3)	(3)	10.5	9.2	10.0	83.8	85.8	86.4
38 New Britain .....	56.0	57.2	57.7	(3)	(3)	(3)	1.8	1.6	1.7	27.1	28.2	28.2
39 New Haven-West Haven .....	178.4	176.1	178.3	(3)	(3)	(3)	6.0	5.4	5.8	44.1	44.2	44.5
40 Stamford .....	97.9	100.7	101.6	(3)	(3)	(3)	4.3	4.3	4.5	29.2	29.7	29.6
41 Waterbury .....	84.1	84.6	85.7	(3)	(3)	(3)	2.8	2.4	2.6	34.0	32.4	32.7
42 DELAWARE .....	237.0	241.1	241.7	(1)	(1)	(1)	14.6	14.8	15.1	67.6	68.9	69.0
43 Wilmington .....	210.2	214.7	214.9	(1)	(1)	(1)	13.4	14.3	14.4	64.2	65.6	65.5
44 DISTRICT OF COLUMBIA .....	579.3	575.0	576.4	(1)	(1)	(1)	14.6	14.4	14.7	14.8	14.9	14.9
45 Washington SMSA .....	1,385.9	1,402.7	1,412.8	(1)	(1)	(1)	71.4	70.6	72.6	49.4	50.5	50.8
46 FLORIDA .....	2,865.6	3,020.4	2,995.2	9.0	8.8	8.7	167.4	192.6	192.9	372.6	396.2	399.7
47 Fort Lauderdale-Hollywood .....	255.1	272.7	267.7	(1)	(1)	(1)	18.5	19.5	19.5	29.8	33.0	33.0
48 Jacksonville .....	262.5	268.1	268.6	(1)	(1)	(1)	14.9	14.7	14.0	31.8	33.5	34.1
49 Miami .....	611.2	627.6	626.6	(1)	(1)	(1)	26.3	28.6	29.1	86.7	91.3	92.2
50 Orlando .....	223.3	231.1	232.6	(1)	(1)	(1)	12.2	12.8	13.3	27.0	29.6	30.3
51 Pensacola .....	89.0	91.6	91.9	(1)	(1)	(1)	6.4	6.8	6.8	13.4	13.0	12.9
52 Tampa-St. Petersburg .....	437.3	457.4	457.1	(1)	(1)	(1)	26.1	29.6	30.8	60.5	63.3	63.5
53 West Palm Beach-Boca Raton .....	152.2	161.4	158.8	(1)	(1)	(1)	10.6	11.7	11.7	20.1	21.4	21.5
54 GEORGIA .....	1,886.9	1,940.2	1,943.1	7.0	7.2	7.2	88.6	97.7	97.8	489.6	498.8	499.8
55 Albany .....	37.7	38.4	38.6	(1)	(1)	(1)	2.5	3.5	3.5	9.5	9.5	9.7
56 Atlanta .....	792.9	803.0	802.6	(1)	(1)	(1)	33.5	34.5	34.6	130.3	133.4	132.6
57 Augusta .....	110.7	114.9	115.1	(1)	(1)	(1)	6.9	6.8	6.9	35.4	35.8	35.7
58 Columbus .....	77.8	79.1	80.3	(1)	(1)	(1)	4.9	4.8	4.8	20.3	19.3	20.3
59 Macon .....	94.5	94.9	94.6	(1)	(1)	(1)	5.0	4.3	4.1	16.6	15.6	15.6
60 Savannah .....	79.3	79.4	79.9	(1)	(1)	(1)	5.0	4.6	4.8	16.3	16.6	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			
MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	
64.5	68.2	68.1	257.4	262.1	262.6	55.7	57.1	57.2	177.4	181.6	181.6	262.1	269.9	270.6	1
24.5	25.8	25.8	80.1	81.6	81.8	22.0	23.1	23.2	57.5	59.1	58.6	49.5	50.3	50.4	2
2.6	2.6	2.6	20.7	21.0	21.2	3.0	3.1	3.1	16.1	16.2	16.4	31.8	31.2	31.2	3
10.6	11.3	11.3	33.9	34.6	34.7	6.4	6.5	6.6	26.1	26.1	26.2	21.9	23.2	22.8	4
4.3	4.7	4.7	22.1	24.3	24.3	5.5	5.7	5.7	17.2	17.7	17.6	23.6	23.9	24.0	5
1.8	1.8	1.8	9.4	9.4	9.3	1.6	1.6	1.7	5.2	5.3	5.0	16.8	17.0	17.0	6
15.2	14.6	15.3	28.7	27.4	28.1	7.5	7.8	7.9	28.5	23.7	23.8	50.0	52.8	53.1	7
40.7	43.3	43.4	193.0	203.4	202.5	44.8	46.6	46.8	149.0	155.5	154.4	184.9	191.7	191.2	8
24.7	26.5	26.5	126.5	133.2	132.5	34.3	35.6	35.7	92.6	97.1	95.9	91.0	95.5	94.7	9
7.8	7.7	7.8	34.5	35.8	35.5	6.6	7.0	7.0	30.1	31.8	31.5	43.3	42.9	42.9	10
38.0	39.0	39.3	148.5	155.4	156.8	28.9	30.1	30.4	97.3	99.9	100.5	129.1	137.3	137.5	11
2.9	2.9	2.9	13.0	14.0	13.9	2.0	2.0	2.1	7.0	7.3	7.3	10.7	10.6	10.6	12
2.9	3.0	3.1	13.2	13.6	13.9	2.2	2.3	2.3	10.2	10.6	10.7	7.6	7.4	7.5	13
11.1	11.4	11.5	38.0	39.0	39.3	11.7	12.2	12.2	29.3	30.0	30.1	34.2	35.7	35.6	14
3.5	3.5	3.5	5.7	5.8	5.8	1.2	1.2	1.2	4.5	4.7	4.8	6.0	7.0	7.0	15
470.8	478.9	485.8	1,956.6	2,041.5	2,082.6	497.5	516.9	520.2	1,730.7	1,813.3	1,831.2	1,758.1	1,813.9	1,818.1	16
20.3	21.8	22.0	161.0	172.1	175.3	38.7	42.2	42.6	131.8	141.6	142.1	104.1	107.9	107.9	17
6.7	6.8	6.9	28.5	29.0	29.5	4.1	4.1	4.1	18.1	18.7	18.8	31.2	32.2	32.3	18
8.8	8.9	9.1	41.9	43.2	44.4	8.8	9.2	9.3	30.0	31.4	31.2	42.1	44.2	44.1	19
175.4	180.0	180.3	737.6	757.6	765.1	195.9	200.6	201.5	683.3	711.6	715.0	487.9	507.7	508.1	20
3.3	3.4	3.4	18.6	19.7	19.6	2.5	2.6	2.6	14.4	14.9	14.9	15.9	17.1	17.0	21
5.3	5.2	5.4	29.6	30.8	32.2	5.1	5.1	5.1	22.0	22.3	22.3	37.2	38.5	38.4	22
19.9	20.4	20.7	88.6	92.6	93.3	14.4	15.0	15.1	74.8	79.0	79.0	93.8	98.8	99.3	23
18.1	18.6	18.8	77.5	81.0	81.3	16.7	17.6	17.9	59.4	63.0	63.2	135.5	139.9	140.8	24
4.6	4.7	4.8	20.6	20.7	21.4	3.5	3.7	3.7	15.8	16.3	16.4	22.8	23.1	22.9	25
24.2	25.1	25.2	122.3	129.8	131.1	29.9	31.5	31.7	113.4	117.2	117.7	137.4	142.0	142.2	26
119.4	120.3	120.6	316.9	325.2	327.0	121.3	124.6	125.1	289.9	300.7	301.9	294.4	299.5	300.0	27
18.2	18.7	18.8	100.3	107.2	108.3	21.3	21.9	22.0	114.9	119.7	122.1	80.8	86.8	87.0	28
3.8	3.8	3.8	25.4	26.1	26.2	4.6	4.5	4.5	27.0	26.9	27.0	26.6	26.4	26.4	29
3.8	4.0	4.1	17.5	18.3	18.7	4.1	4.3	4.3	14.4	14.8	14.9	19.6	20.3	20.5	30
7.2	7.4	7.6	24.2	24.5	25.3	4.5	4.6	4.6	20.0	20.5	20.9	27.7	28.3	28.4	31
3.8	3.7	3.9	16.9	18.3	18.6	2.9	3.0	3.1	15.9	16.6	16.9	37.1	37.6	37.6	32
(*)	65.9	66.0	(*)	238.2	239.1	(*)	62.0	62.3	(*)	195.2	196.1	(*)	224.0	224.2	33
(*)	44.5	44.4	(*)	157.7	158.2	(*)	46.1	46.2	(*)	125.1	125.4	(*)	120.7	120.7	34
56.1	56.3	(*)	268.4	274.6	(*)	89.9	93.2	(*)	242.9	254.4	(*)	178.7	180.8	(*)	35
5.6	5.6	5.7	31.4	32.1	32.0	6.3	6.4	6.4	28.2	28.3	28.5	17.1	16.9	16.8	36
14.4	14.8	14.9	73.2	73.9	74.6	51.6	54.2	54.6	65.2	67.6	67.5	50.8	52.6	52.4	37
1.3	1.3	1.4	9.6	9.6	9.8	1.5	1.5	1.5	8.2	8.4	8.5	6.5	6.6	6.6	38
14.3	14.0	14.3	37.1	36.4	37.0	9.6	9.8	9.9	43.4	42.3	42.9	24.0	24.0	24.0	39
3.4	3.4	3.5	22.4	23.1	23.3	6.5	6.8	6.8	22.2	22.7	23.2	10.0	10.8	10.8	40
3.0	2.9	3.0	15.1	15.5	15.8	2.8	3.0	3.1	15.3	16.7	17.0	11.0	11.6	11.6	41
12.2	12.4	12.3	51.3	52.1	52.3	11.0	11.2	11.2	39.1	39.8	39.9	41.2	41.9	41.9	42
11.2	11.4	11.4	42.3	42.8	42.9	9.9	10.0	10.0	34.4	35.3	35.5	34.8	35.3	35.2	43
25.2	25.5	25.7	64.0	64.8	65.2	33.4	32.5	32.7	151.8	151.6	151.2	275.5	271.3	272.0	44
62.9	63.3	64.0	265.2	270.4	273.0	80.8	81.2	82.1	331.8	338.1	338.9	524.4	528.6	531.4	45
183.4	183.3	183.1	750.2	781.9	771.8	199.1	206.6	206.7	623.3	670.1	649.7	560.6	580.9	582.6	46
13.3	13.9	13.9	74.2	79.3	77.0	21.2	22.1	22.3	58.8	63.4	60.4	39.3	41.5	41.6	47
21.5	21.7	21.7	67.9	68.8	69.3	27.3	28.0	28.1	48.2	48.9	49.0	50.9	52.5	52.4	48
58.6	60.0	60.3	159.7	159.4	159.4	44.8	46.2	45.9	147.1	150.6	148.6	88.0	91.5	91.1	49
11.3	11.4	11.3	61.6	62.5	62.8	15.3	15.7	15.7	57.7	60.1	60.2	38.2	39.0	39.0	50
4.3	4.4	4.5	20.5	20.5	20.7	3.7	3.7	3.7	16.1	17.3	17.4	24.6	25.9	25.9	51
26.0	25.9	25.8	124.8	127.8	127.2	31.4	33.4	33.8	95.5	99.0	97.5	73.0	78.4	78.5	52
6.9	6.8	6.8	40.0	42.3	41.3	11.9	12.8	12.7	36.8	39.6	38.0	25.9	26.8	26.8	53
118.4	123.1	123.8	429.1	441.8	442.5	99.4	100.8	101.2	281.9	285.0	285.2	372.8	385.8	385.6	54
1.8	1.9	1.9	8.6	8.6	8.6	1.8	1.8	1.8	4.9	4.8	4.8	8.5	8.3	8.3	55
70.5	72.6	72.6	221.5	224.5	225.0	56.8	57.1	57.1	147.8	147.1	147.2	132.5	133.7	133.4	56
3.8	3.8	3.8	18.7	20.6	20.5	4.1	4.2	4.2	14.0	14.8	14.9	27.7	29.0	29.1	57
3.1	3.2	3.2	16.1	17.3	17.4	4.6	4.9	5.0	10.8	10.8	10.9	17.9	18.7	18.6	58
4.4	4.4	4.4	18.4	18.9	18.9	5.5	5.8	5.8	14.7	15.6	15.5	29.8	30.3	30.2	59
8.0	7.6	7.8	17.9	18.3	18.5	3.7	3.8	3.9	13.3	12.9	12.9	15.0	15.6	15.5	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		
		MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
1	HAWAII	359.0	363.7	364.0	(1)	(1)	(1)	20.9	19.5	19.7	23.6	23.3	23.9
2	Honolulu	298.7	302.6	302.6	(1)	(1)	(1)	17.5	16.5	16.7	17.6	17.1	17.8
3	IDAHO	304.4	306.4	311.2	3.1	3.9	4.0	19.0	17.3	18.8	52.9	53.2	53.3
4	Boise City	69.9	74.2	75.6	(1)	(1)	(1)	5.6	6.6	7.2	7.1	7.8	8.0
5	ILLINOIS	4,601.7	4,680.9	4,706.7	27.4	25.7	26.0	173.6	168.3	179.2	1,236.2	1,235.7	1,239.6
6	Bloomington—Normal	48.7	50.4	50.3	(3)	(3)	(3)	1.5	1.2	1.3	7.4	7.9	8.0
7	Champaign—Urbana—Rantoul	67.3	67.9	68.2	(3)	(3)	(3)	2.6	2.8	2.9	6.3	6.5	6.5
8	Chicago—Gary	(*)	3,397.0	(*)	(*)	4.5	(*)	(*)	133.4	(*)	(*)	947.0	(*)
9	Chicago SMSA	3,110.3	3,155.8	3,174.9	4.5	4.4	4.4	109.3	120.0	128.4	838.0	849.1	851.1
10	Davenport—Rock Island—Moline	155.9	156.0	156.0	(3)	(3)	(3)	6.6	6.6	6.7	47.6	46.9	46.4
11	Decatur	54.4	56.4	56.7	(3)	(3)	(3)	3.6	3.7	3.8	17.4	18.4	18.6
12	Peoria	146.4	150.8	151.4	(3)	(3)	(3)	8.4	8.5	8.7	49.7	52.6	52.5
13	Rockford	115.8	118.4	119.2	(3)	(3)	(3)	3.5	3.2	3.6	52.0	53.9	54.0
14	Springfield	82.7	85.0	85.5	(3)	(3)	(3)	4.4	4.5	4.7	8.9	9.3	9.3
15	INDIANA	2,094.7	2,143.0	2,165.5	8.7	8.7	9.0	91.2	86.5	94.6	709.3	724.8	728.1
16	Anderson	51.6	52.9	53.4	(1)	(1)	(1)	1.1	1.2	1.2	25.6	26.2	26.2
17	Evansville	118.0	120.5	122.1	2.4	2.4	2.4	6.3	6.2	6.6	37.5	39.6	40.1
18	Fort Wayne	163.8	165.4	167.3	(1)	(1)	(1)	6.5	6.5	6.9	59.5	60.1	60.5
19	Gary—Hammond—East Chicago	248.5	247.7	252.1	(1)	(1)	(1)	14.6	13.4	14.9	101.7	100.3	101.6
20	Indianapolis	484.0	492.5	496.5	(1)	(1)	(1)	19.0	18.9	20.2	123.5	126.3	126.4
21	Lafayette—West Lafayette	52.0	55.9	53.3	(1)	(1)	(1)	2.7	1.7	2.0	11.2	12.4	12.6
22	Muncie	49.7	49.5	50.1	(1)	(1)	(1)	2.2	1.9	2.1	15.0	13.9	14.1
23	South Bend	105.5	107.5	107.5	(1)	(1)	(1)	4.2	4.4	4.5	32.3	33.5	32.9
24	Terre Haute	58.8	61.5	60.8	1.1	1.1	1.1	2.3	2.3	2.4	15.6	16.2	16.3
25	IOWA	1,066.9	1,087.5	1,096.9	2.5	2.3	2.4	49.3	52.0	55.8	241.4	243.2	242.7
26	Cedar Rapids	79.4	81.0	81.3	(1)	(1)	(1)	3.7	3.9	4.0	27.4	28.5	28.4
27	Des Moines	166.1	170.5	172.2	(1)	(1)	(1)	4.1	7.0	7.4	24.6	23.9	24.2
28	Dubuque	42.9	43.2	43.7	(1)	(1)	(1)	1.6	1.7	1.8	16.6	16.3	16.4
29	Sioux City	51.5	52.0	52.2	(1)	(1)	(1)	2.2	4.0	4.0	11.8	9.9	9.9
30	Waterloo—Cedar Falls	63.2	63.1	63.3	(1)	(1)	(1)	2.5	2.5	2.7	21.8	21.6	21.4
31	KANSAS	866.7	887.6	894.3	11.6	12.6	12.7	45.5	42.7	42.6	170.4	179.4	181.0
32	Topeka	81.3	83.9	84.6	.2	.2	.2	3.5	3.4	3.6	11.4	11.8	12.0
33	Wichita	179.4	182.8	185.2	1.7	2.2	2.2	9.8	8.8	9.2	51.3	56.2	57.1
34	KENTUCKY	1,161.9	1,213.2	1,221.6	51.2	56.8	58.0	60.5	68.1	71.5	283.9	290.2	289.9
35	Lexington—Fayette	134.0	139.0	139.3	(1)	(1)	(1)	6.9	8.1	8.4	29.1	30.7	30.7
36	Louisville	374.7	392.0	392.7	(1)	(1)	(1)	18.2	19.7	20.8	107.3	111.4	107.6
37	Owensboro	28.3	29.7	29.9	.6	.7	.7	1.7	2.1	2.2	7.3	6.9	6.9
38	LOUISIANA	1,337.9	1,352.9	1,351.8	65.0	65.9	66.0	105.3	105.8	102.7	200.8	200.1	200.6
39	Alexandria	46.7	46.9	47.3	(1)	(1)	(1)	3.0	2.9	3.1	5.9	5.8	6.0
40	Baton Rouge	175.1	179.2	178.4	1.0	.8	.8	23.1	21.9	22.4	23.9	24.2	24.2
41	Lafayette	56.6	56.9	57.3	9.0	9.3	9.6	4.7	5.0	5.1	3.0	3.3	3.2
42	Lake Charles	52.5	54.0	52.0	1.4	1.5	1.5	5.6	5.9	4.0	11.3	12.0	11.8
43	Monroe	46.2	47.1	47.7	.4	.3	.3	4.2	5.2	5.3	7.7	8.0	8.0
44	New Orleans	444.8	456.7	456.9	14.2	14.1	14.1	26.9	26.4	26.5	51.0	51.0	51.1
45	Shreveport	132.9	135.8	136.7	5.0	4.5	4.6	8.4	9.0	9.2	27.7	28.2	28.2
46	MAINE	387.0	394.2	400.7	(1)	(1)	(1)	20.7	17.9	20.2	104.6	109.0	108.8
47	Lewiston—Auburn	32.9	33.8	34.0	(1)	(1)	(1)	1.3	1.3	1.4	12.4	12.3	12.4
48	Portland	82.4	84.0	85.3	(1)	(1)	(1)	3.9	3.6	4.0	15.4	16.6	16.9
49	MARYLAND	1,529.4	1,554.1	1,566.7	1.6	1.5	1.6	91.2	86.4	90.0	237.1	239.2	241.2
50	Baltimore	866.9	884.2	889.7	(1)	(1)	(1)	42.7	42.0	43.9	164.5	164.9	165.6
51	MASSACHUSETTS	(*)	2,474.9	2,492.8	(*)	(1)	(1)	(*)	69.4	74.7	(*)	641.8	643.8
52	Boston	1,273.3	1,297.6	1,306.3	(1)	(1)	(1)	40.2	38.6	41.0	258.7	264.4	266.1
53	Brockton	50.8	52.8	53.3	-	-	-	1.5	1.3	1.5	11.8	12.3	12.4
54	Fall River	52.0	53.6	54.2	(1)	(1)	(1)	1.4	1.3	1.3	20.6	20.8	21.1
55	Lawrence—Haverhill	96.9	103.8	104.6	(1)	(1)	(1)	2.5	2.5	2.7	37.2	40.0	40.1
56	Lowell	62.7	64.4	64.8	(1)	(1)	(1)	2.4	2.2	2.4	21.4	22.7	22.8
57	New Bedford	61.6	62.6	63.2	(1)	(1)	(1)	1.6	1.6	1.7	25.0	25.2	25.5
58	Springfield—Chicopee—Holyoke	217.4	220.6	221.5	(1)	(1)	(1)	5.3	4.9	5.3	64.5	65.7	65.5
59	Worcester	148.9	152.4	153.0	(1)	(1)	(1)	3.8	3.4	3.5	45.0	45.9	46.0
60	MICHIGAN	3,418.7	3,509.0	3,541.4	13.8	13.6	13.7	125.7	133.2	140.5	1,106.2	1,136.1	1,141.4
61	Ann Arbor	122.8	130.8	128.0	(1)	(1)	(1)	2.5	2.9	2.9	39.5	42.2	42.6
62	Battle Creek	64.6	66.4	66.6	(1)	(1)	(1)	1.4	1.5	1.6	23.4	23.7	23.6



**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		
MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
28.3	28.2	28.2	90.3	92.3	92.0	24.4	25.0	24.9	84.3	87.5	86.9	87.2	87.9	88.4
23.3	23.3	23.3	75.7	77.2	76.7	21.5	22.3	22.1	68.5	71.4	70.8	74.6	74.8	75.2
17.9	18.7	18.8	76.5	76.5	78.7	16.2	16.3	16.4	51.3	53.4	53.2	67.5	67.1	68.0
4.3	4.5	4.5	18.7	19.6	20.0	5.7	6.1	6.1	11.9	12.9	13.0	16.6	16.7	16.8
275.0	277.6	279.5	1,052.9	1,062.9	1,068.1	266.1	274.0	274.9	839.1	865.2	870.8	731.5	771.5	768.5
2.8	3.0	3.0	10.9	11.6	11.7	6.9	7.3	7.3	7.8	7.7	7.8	11.3	11.8	11.2
2.4	2.4	2.5	14.8	14.7	14.8	2.1	2.2	2.2	9.8	9.8	9.7	29.3	29.6	29.6
(*)	204.7	(*)	(*)	767.1	(*)	(*)	215.1	(*)	(*)	645.7	(*)	(*)	479.6	(*)
189.6	191.5	192.1	722.9	718.7	720.2	202.1	205.9	206.2	613.9	616.9	621.1	430.0	449.4	451.5
7.5	7.6	7.5	38.6	38.8	39.2	6.5	6.6	6.6	23.7	24.1	24.1	25.5	25.4	25.4
4.7	4.6	4.6	11.6	11.9	11.9	2.3	2.4	2.4	9.4	9.9	9.8	5.3	5.5	5.5
7.7	8.0	8.1	34.3	34.7	35.0	6.8	7.0	7.0	25.6	26.8	27.0	13.9	13.1	13.1
4.4	4.7	4.6	23.6	24.3	24.5	3.6	3.8	3.7	16.4	16.5	16.6	12.3	12.1	12.3
5.2	4.9	4.9	16.5	18.0	18.2	6.4	6.8	6.8	16.3	16.5	16.5	25.0	24.9	25.0
104.7	106.5	107.4	455.7	467.7	474.6	92.4	93.5	94.4	296.6	296.7	300.7	336.1	358.6	356.6
1.4	1.5	1.6	9.7	10.1	10.3	1.6	1.6	1.6	6.4	6.5	6.5	5.8	5.8	6.0
6.4	6.3	6.4	27.8	28.3	28.5	3.9	4.0	4.1	21.5	21.4	21.7	12.2	12.3	12.3
10.3	10.4	10.4	38.3	38.3	39.0	9.0	9.3	9.4	24.7	25.4	25.6	15.5	15.4	15.5
18.4	18.3	18.5	47.3	48.6	49.1	8.5	8.7	8.8	31.9	32.5	33.1	30.1	29.9	30.1
29.5	29.6	29.7	118.2	119.1	120.3	33.6	34.0	34.3	76.0	77.0	78.1	84.2	87.6	87.5
1.5	1.5	1.5	10.4	10.7	10.7	2.6	2.7	2.7	7.8	7.9	8.0	15.8	19.0	15.8
2.0	2.0	2.0	11.3	11.7	11.8	1.5	1.5	1.5	6.8	7.2	7.2	10.9	11.3	11.4
5.1	5.1	5.1	24.9	25.5	25.7	4.9	4.9	4.9	22.2	22.5	22.7	11.9	11.6	11.7
4.0	3.8	3.8	14.3	15.0	15.1	1.9	2.0	2.0	8.6	8.9	8.9	11.0	12.2	11.2
54.9	54.0	54.4	270.1	274.3	276.3	51.5	51.8	52.4	189.8	194.9	197.2	207.5	215.0	215.7
3.7	3.8	3.8	17.2	16.9	17.1	3.8	4.0	4.0	14.0	14.1	14.2	9.6	9.8	9.8
10.7	10.9	10.9	45.3	45.8	46.1	18.4	18.8	18.9	34.6	35.1	35.5	28.4	29.0	29.2
1.7	1.7	1.7	9.0	9.4	9.5	1.2	1.2	1.2	8.8	9.1	9.1	3.9	3.9	4.0
3.6	3.7	3.7	13.8	13.6	13.7	2.7	2.7	2.7	10.9	10.8	10.9	6.6	7.3	7.3
2.6	2.5	2.5	13.5	13.4	13.6	1.9	1.9	1.9	10.1	10.1	10.2	10.8	11.2	11.1
58.3	58.6	59.2	207.9	212.3	215.2	42.7	48.3	43.7	150.2	155.5	156.2	180.1	183.2	183.7
7.4	7.6	7.5	17.6	18.0	18.3	5.7	5.7	5.7	14.8	15.6	15.6	20.9	21.6	21.7
10.1	10.1	10.1	40.8	40.4	41.1	9.0	8.9	9.1	34.2	33.6	33.7	22.7	22.6	22.7
64.3	66.4	67.1	245.1	258.9	260.9	45.9	49.8	50.4	187.1	189.1	189.4	223.9	233.9	234.4
6.3	6.7	6.7	29.7	31.8	31.9	6.1	6.3	6.4	23.7	24.9	24.6	32.2	30.5	30.6
23.4	24.3	24.7	83.1	85.3	86.5	20.4	21.6	21.9	70.0	71.7	73.0	52.3	58.0	58.2
2.0	2.0	2.0	6.6	7.4	7.4	1.1	1.2	1.2	4.8	5.2	5.3	4.2	4.2	4.2
101.7	104.2	104.5	317.2	322.5	323.6	64.1	66.7	67.0	224.5	227.9	226.8	259.3	259.8	260.6
2.3	2.3	2.3	11.0	10.6	10.6	2.7	2.6	2.6	8.8	9.0	9.0	13.0	13.7	13.7
8.3	9.0	9.0	36.6	37.1	37.1	9.9	10.6	10.4	26.4	26.3	26.1	45.9	49.3	48.4
4.1	4.0	4.0	15.0	15.2	15.3	1.8	1.9	2.0	10.0	9.4	9.3	9.0	8.8	8.8
2.9	2.9	2.9	12.1	12.5	12.5	2.1	2.2	2.3	8.4	8.3	8.3	8.7	8.7	8.7
2.3	2.2	2.3	12.0	11.4	11.7	3.1	3.1	3.2	7.0	7.2	7.2	9.5	9.7	9.7
46.0	47.4	47.3	116.6	119.3	119.3	26.9	27.3	27.4	93.6	97.8	97.6	69.6	73.4	73.6
9.3	9.2	9.4	33.7	34.8	34.8	6.1	6.1	6.1	22.0	22.5	22.9	20.7	21.5	21.5
18.0	17.3	17.6	83.3	84.8	87.3	15.1	15.1	15.3	67.0	68.4	69.7	78.3	81.7	81.8
1.1	1.0	1.0	7.6	8.1	8.1	1.4	1.4	1.4	6.1	6.6	6.5	3.0	3.1	3.2
5.0	4.9	5.0	21.3	21.6	21.8	6.5	6.7	6.7	17.3	17.0	17.4	13.0	13.6	13.5
79.0	79.1	79.6	364.6	367.6	370.8	81.5	82.5	83.0	294.5	305.0	307.3	379.9	392.8	393.2
53.8	53.9	54.3	195.8	200.0	201.2	50.3	50.5	50.8	163.4	169.5	170.2	196.4	203.4	203.7
(*)	116.6	116.2	(*)	544.0	551.1	(*)	141.3	142.0	(*)	565.0	568.3	(*)	396.8	396.7
66.5	66.6	66.5	295.2	297.2	300.0	94.2	96.4	96.7	328.0	338.7	340.1	190.5	195.7	195.9
3.7	3.9	3.9	14.0	14.3	14.4	1.8	1.9	1.9	8.6	8.7	8.9	9.4	10.4	10.3
1.9	1.9	1.9	11.1	11.6	11.7	2.3	2.3	2.3	8.9	9.1	9.2	5.8	6.6	6.7
3.5	3.6	3.6	19.8	20.5	20.7	3.5	3.7	3.7	14.1	15.3	15.6	16.3	18.2	18.2
3.0	3.1	3.1	13.7	13.7	13.9	1.9	1.9	1.9	9.9	10.2	10.2	10.4	10.6	10.5
2.7	2.6	2.6	11.9	12.0	12.1	1.8	1.8	1.8	10.6	11.1	11.3	8.0	8.3	8.2
8.7	8.8	8.7	44.3	44.5	44.8	10.9	11.1	11.2	39.6	41.4	42.0	44.1	44.2	44.0
6.6	6.5	6.5	32.2	32.4	33.0	8.0	8.1	8.2	28.4	30.2	29.8	24.9	25.9	26.0
146.7	149.8	150.4	698.0	704.5	714.2	138.8	142.9	143.4	572.1	590.3	594.5	617.5	638.6	643.3
2.2	2.2	2.2	17.4	18.0	18.1	3.5	3.6	3.7	18.0	17.8	17.7	39.7	44.1	40.8
2.1	2.2	2.1	10.7	11.0	11.1	3.5	3.6	3.6	11.1	11.5	11.6	12.4	12.9	13.0

**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		
	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
<b>MICHIGAN—Continued</b>												
1 Bay City	34.8	36.0	36.5	(1)	(1)	(1)	1.5	1.4	1.5	10.6	11.1	11.2
2 Detroit	1,690.8	1,730.6	1,746.2	1.2	1.2	1.2	60.3	65.2	70.2	572.8	582.3	584.2
3 Flint	192.5	199.1	202.1	(1)	(1)	(1)	6.5	6.4	7.0	83.4	86.6	87.3
4 Grand Rapids	238.9	244.8	248.4	(1)	(1)	(1)	9.9	9.7	11.2	82.2	86.7	86.9
5 Jackson	50.3	51.0	51.3	(1)	(1)	(1)	1.5	1.1	1.2	15.6	16.2	16.2
6 Kalamazoo-Portage	102.6	106.6	105.7	(1)	(1)	(1)	3.8	4.4	4.5	35.2	35.5	35.6
7 Lansing-East Lansing	180.8	185.4	187.6	(1)	(1)	(1)	5.1	4.6	4.6	41.2	41.9	42.5
8 Muskegon-Norton Shores-Musk. Hgts	58.1	58.8	60.2	(1)	(1)	(1)	2.6	2.3	2.7	20.3	21.0	21.3
9 Saginaw	85.9	90.3	91.4	(1)	(1)	(1)	2.6	2.5	1.9	34.9	37.0	37.8
<b>MINNESOTA</b>												
10 Duluth-Superior	57.9	56.8	57.9	(1)	(1)	(1)	2.5	2.2	2.5	7.1	7.0	7.1
12 Minneapolis-St. Paul	968.8	957.1	968.8	(1)	(1)	(1)	37.1	33.7	37.1	218.9	218.1	218.9
<b>MISSISSIPPI</b>												
13 Jackson	127.7	132.6	133.0	1.0	1.1	1.1	7.2	7.3	7.5	18.6	18.6	18.5
<b>MISSOURI</b>												
15 Kansas City	585.3	598.2	598.3	5	5	5	21.2	25.3	26.3	118.6	123.8	123.7
17 St. Joseph	36.2	36.2	36.6	(3)	(3)	(3)	1.8	1.9	2.1	9.6	9.7	9.9
18 St. Louis	925.6	938.5	943.2	2.7	2.6	2.6	37.3	35.4	36.5	244.0	251.7	252.1
19 Springfield	76.0	78.5	78.1	(3)	(3)	(3)	3.1	3.6	3.8	17.2	17.9	17.6
<b>MONTANA</b>												
20 Billings	42.6	43.5	43.8	(1)	(1)	(1)	2.8	3.0	3.0	3.6	3.5	3.5
22 Great Falls	29.6	29.7	29.9	(1)	(1)	(1)	1.9	1.7	1.8	1.8	1.7	1.7
<b>NEBRASKA</b>												
23 Lincoln	94.0	94.0	95.1	-	-	-	4.3	4.2	4.4	13.8	13.5	13.6
26 Omaha	252.3	257.3	259.7	(3)	(3)	(3)	13.0	12.6	13.4	34.8	35.7	35.7
<b>NEVADA</b>												
27 Las Vegas	166.1	178.1	180.5	2	2	2	10.2	11.9	12.4	5.6	5.9	6.0
28 Reno	87.5	96.8	101.0	6	6	6	6.4	8.9	9.1	6.5	7.4	7.4
<b>NEW HAMPSHIRE</b>												
29 Manchester	64.3	70.3	71.2	(3)	(3)	(3)	3.0	2.9	3.2	18.6	19.6	19.6
30 Nashua	49.2	51.4	52.0	(3)	(3)	(3)	2.3	2.2	2.4	22.0	22.5	22.7
<b>NEW JERSEY</b>												
32 Atlantic City	67.8	65.9	69.3	-	-	-	3.2	3.8	4.4	8.7	7.7	7.9
33 Camden	303.0	310.5	312.6	1	1	1	12.5	11.3	12.0	65.8	68.1	68.1
34 Hackensack	370.0	380.7	383.1	(1)	(1)	(1)	13.1	14.4	15.5	108.9	111.4	111.5
36 Jersey City	230.6	229.3	229.5	-	-	-	4.1	4.5	4.5	71.6	70.8	70.7
37 Long Branch-Asbury Park	144.8	148.8	151.3	(1)	(1)	(1)	6.0	6.0	7.3	23.2	24.2	23.9
38 New Bruns-Perth Amboy-Sayreville	256.8	265.8	267.4	(1)	(1)	(1)	8.7	7.3	7.5	85.2	88.8	89.0
39 Newark	890.9	911.6	917.5	8	1.0	1.0	29.8	31.9	33.4	244.1	248.4	249.3
40 Paterson-Clifton-Passaic	182.0	187.4	189.1	(1)	(1)	(1)	5.5	5.5	5.8	65.6	66.2	67.0
41 Trenton	155.3	160.3	160.5	(1)	(1)	(1)	3.0	2.7	2.9	37.0	38.0	37.2
42 Vineland-Millville-Bridgeton	54.4	56.4	56.7	(1)	(1)	(1)	1.5	1.7	1.9	19.5	19.6	19.2
<b>NEW MEXICO</b>												
43 Albuquerque	163.6	174.9	176.7	(1)	(1)	(1)	12.1	13.2	14.2	16.0	17.3	17.2
<b>NEW YORK</b>												
45 Albany-Schenectady-Troy	320.3	324.5	327.0	(1)	(1)	(1)	10.6	10.1	11.3	63.1	63.5	62.9
47 Binghamton	111.9	112.3	113.7	(1)	(1)	(1)	4.2	3.8	4.3	40.2	40.9	41.1
48 Buffalo	498.5	498.9	503.9	(1)	(1)	(1)	18.0	16.9	18.3	146.6	142.6	143.2
49 Elmira	35.7	36.9	37.2	(1)	(1)	(1)	1.4	1.5	1.6	10.5	11.4	11.3
50 Moroe County	321.4	322.4	324.8	(1)	(1)	(1)	9.6	8.6	9.3	128.6	127.3	127.9
51 Nassau-Suffolk	823.3	848.8	855.8	(1)	(1)	(1)	33.3	33.4	35.3	150.3	154.2	154.8
52 New York-Northeastern New Jersey	6,328.5	6,409.6	6,442.6	3.3	3.5	3.5	176.0	174.9	185.5	1,350.1	1,366.5	1,370.5
53 New York and Nassau-Suffolk	4,398.3	4,434.9	4,458.6	1.8	1.8	1.9	114.8	111.3	119.6	774.8	781.0	782.1
54 New York SMSA	3,575.0	3,586.0	3,602.8	1.6	1.6	1.7	81.5	77.9	84.3	624.5	626.8	627.3
55 New York City <sup>10</sup>	3,175.1	3,178.2	3,189.8	1.4	1.5	1.5	66.5	63.5	68.8	542.9	542.5	542.8
56 Poughkeepsie	86.7	90.2	90.7	(1)	(1)	(1)	2.7	2.7	2.9	27.9	30.1	30.1
57 Rochester	394.1	395.9	399.1	(1)	(1)	(1)	11.6	10.8	11.5	147.6	146.4	147.2
58 Rockland County <sup>10</sup>	74.3	75.4	76.5	(1)	(1)	(1)	2.2	2.0	2.3	14.8	15.0	15.2
59 Syracuse	245.0	250.0	252.5	(1)	(1)	(1)	10.4	10.3	11.0	57.7	56.5	57.7
60 Utica-Rome	111.2	113.1	114.8	(1)	(1)	(1)	2.9	2.6	3.1	29.9	31.0	31.2
61 Westchester County <sup>10</sup>	314.3	320.9	324.9	(1)	(1)	(1)	12.1	11.7	12.4	65.6	68.0	68.0

**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			
MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	
2.1	2.1	2.1	8.4	9.0	9.2	1.1	1.1	1.1	6.0	6.1	6.2	5.1	5.2	5.2	1
80.3	82.6	83.1	331.0	339.4	343.9	81.3	82.5	82.5	307.0	318.4	320.1	257.0	259.0	261.0	2
6.3	6.1	6.1	36.9	38.1	39.2	5.4	5.6	5.7	25.7	28.1	28.1	28.3	28.2	28.7	3
9.5	9.7	9.7	55.6	55.5	56.7	8.5	8.6	8.7	43.2	43.8	43.9	30.0	30.8	31.3	4
4.4	4.4	4.4	9.7	9.9	10.0	1.5	1.6	1.6	9.0	9.2	9.0	8.6	8.6	8.9	5
3.3	3.4	3.4	20.0	19.6	20.0	3.4	3.7	3.7	17.5	18.0	18.2	19.5	22.0	20.3	6
4.2	4.4	4.4	32.7	33.3	33.9	8.3	8.6	8.6	24.4	25.0	25.0	64.9	67.6	68.6	7
3.1	3.0	3.0	11.1	11.2	11.5	1.7	1.7	1.7	8.7	8.9	9.0	10.6	10.7	11.0	8
3.9	3.9	4.0	17.2	17.8	18.4	3.7	3.9	4.0	11.9	12.5	12.7	11.7	12.7	12.6	9
93.2	91.7	93.2	405.7	397.6	405.7	81.5	81.0	81.5	312.6	309.5	312.6	290.3	288.9	290.3	10
6.5	6.1	6.5	15.9	15.5	15.9	2.0	2.0	2.0	12.2	12.1	12.2	11.8	11.8	11.8	11
59.9	59.2	59.9	240.3	236.5	240.3	61.2	60.9	61.2	199.3	198.1	199.3	152.1	150.7	152.1	12
35.7	37.0	37.2	148.5	155.0	155.4	29.7	30.9	30.9	107.6	112.5	112.7	159.2	164.5	165.5	13
7.9	8.2	8.2	30.4	33.1	33.4	9.7	10.2	10.2	24.5	25.3	25.4	28.4	28.8	28.8	14
127.6	132.3	133.2	442.3	445.7	452.3	96.1	96.4	97.1	338.2	342.5	346.0	330.2	331.8	331.3	15
51.0	52.1	52.1	149.6	150.8	149.4	38.8	39.0	39.2	116.1	116.2	117.3	89.5	90.5	89.8	16
2.4	2.5	2.5	8.7	8.4	8.4	1.8	1.9	1.9	6.2	6.1	6.1	5.7	5.7	5.7	17
64.3	66.4	66.9	207.0	208.5	209.3	49.9	50.1	50.5	184.0	185.8	186.9	136.4	138.0	138.4	18
5.6	5.7	5.7	21.3	21.7	22.0	3.0	3.0	3.0	14.9	15.8	15.3	10.9	10.8	10.7	19
20.0	20.8	20.8	66.0	68.0	68.2	11.1	11.7	11.8	48.1	48.7	48.8	68.7	73.9	74.1	20
3.7	3.6	3.7	13.8	14.7	14.7	2.0	2.1	2.1	8.2	8.4	8.6	8.5	8.2	8.2	21
1.8	1.8	1.8	9.7	10.0	10.0	1.9	1.8	1.9	6.3	6.5	6.5	6.2	6.2	6.2	22
42.2	42.7	43.1	152.9	155.1	154.9	37.5	38.7	38.8	102.4	102.4	103.5	127.5	128.1	129.7	23
6.7	6.5	6.7	20.2	20.5	20.5	6.7	6.8	6.9	15.0	15.3	15.4	27.3	27.2	27.7	24
21.4	22.3	22.4	64.5	64.5	65.0	21.5	22.3	22.4	52.4	53.9	54.7	44.6	46.0	45.9	25
18.9	19.4	19.6	59.6	64.7	65.6	12.5	13.7	13.8	125.6	134.7	139.8	49.4	52.1	52.2	26
10.5	10.9	11.1	33.5	36.5	37.0	6.6	7.3	7.3	77.7	82.3	83.3	21.8	23.1	23.2	27
5.9	6.1	6.1	18.1	19.8	20.1	4.7	5.1	5.1	31.1	34.4	38.1	14.2	14.5	14.5	28
12.2	12.5	12.6	72.2	77.4	79.3	16.0	17.3	17.4	61.1	64.9	66.5	51.7	55.6	55.9	29
3.9	4.0	4.0	15.3	17.9	18.4	4.6	5.3	5.3	11.5	12.2	12.3	7.4	8.4	8.4	30
1.6	1.7	1.7	9.7	10.3	10.3	1.6	1.7	1.7	7.3	7.8	8.0	4.7	5.2	5.2	31
179.6	186.0	189.1	635.7	635.6	647.4	142.6	147.9	149.6	515.1	536.9	544.0	500.0	513.6	514.1	32
3.2	3.5	3.5	18.4	17.0	18.2	4.1	4.3	4.3	16.3	15.4	16.9	13.8	14.2	14.1	33
14.3	14.6	14.6	79.3	81.9	82.6	14.8	15.0	15.1	57.7	59.9	60.5	58.5	59.6	59.6	34
18.5	17.9	18.0	107.6	111.4	111.5	14.3	14.3	14.4	64.7	67.9	68.6	42.9	43.4	43.6	35
28.0	28.2	27.9	43.7	45.4	45.7	8.8	8.9	8.9	30.0	28.2	28.5	44.4	43.3	43.3	36
6.0	6.1	6.2	36.5	37.0	37.6	6.4	6.9	7.0	34.5	35.0	36.0	32.2	33.6	33.7	37
16.7	17.5	17.7	58.2	59.7	60.1	8.4	8.3	8.4	34.2	36.4	36.9	45.4	47.8	47.8	38
68.9	68.1	68.7	171.9	172.5	173.6	60.2	62.0	63.5	168.9	176.9	177.8	146.2	150.8	150.2	39
6.7	6.5	6.5	41.2	42.2	42.4	9.0	9.3	9.3	28.5	28.9	29.2	25.6	28.8	28.9	40
5.5	5.5	5.5	23.5	24.0	24.1	6.2	6.5	6.6	37.2	37.4	37.8	42.8	46.2	46.4	41
3.0	2.9	2.8	8.4	8.7	9.0	3.1	3.2	3.2	7.7	8.0	8.1	11.1	12.3	12.5	42
24.7	26.2	26.3	94.8	100.4	102.4	18.0	19.2	19.4	79.1	85.8	87.2	112.1	117.4	117.7	43
9.3	10.0	10.1	42.1	44.6	45.5	9.2	9.8	9.8	37.2	39.3	39.6	37.7	40.7	40.3	44
425.2	423.3	424.5	1,426.3	1,423.8	1,442.4	576.8	578.5	580.9	1,486.5	1,503.7	1,508.8	1,252.0	1,301.9	1,308.8	45
15.4	14.6	14.7	63.6	64.3	65.4	14.4	14.5	14.6	62.4	62.6	63.0	90.9	94.8	95.0	46
4.7	4.6	4.7	20.7	21.1	21.5	3.6	3.6	3.7	15.7	15.5	15.6	22.8	22.8	22.9	47
25.9	27.5	27.8	111.3	109.9	111.6	21.2	21.8	21.9	90.3	92.0	92.8	85.3	88.2	88.2	48
1.4	1.4	1.4	8.0	8.2	8.3	1.0	1.0	1.0	6.5	6.4	6.3	6.8	7.0	7.3	49
10.2	9.9	10.0	60.0	60.3	61.2	13.9	14.3	14.3	60.7	61.9	62.1	38.4	40.1	39.9	50
36.0	35.4	35.6	219.4	223.1	226.7	45.3	45.9	46.3	172.6	174.9	175.6	166.5	181.9	181.5	51
455.1	450.2	451.0	1,356.9	1,363.8	1,372.7	578.9	581.9	584.5	1,369.1	1,392.1	1,398.3	1,039.1	1,076.7	1,078.6	52
316.3	312.0	312.6	934.3	932.5	939.6	478.1	479.1	480.3	1,043.4	1,054.4	1,056.6	734.7	762.7	765.9	53
280.3	276.6	276.9	714.9	709.4	712.9	432.9	433.2	434.0	871.0	879.7	881.2	568.3	580.8	584.5	54
258.4	254.7	255.0	622.1	614.4	616.9	443.9	444.0	444.7	775.2	784.0	783.4	494.6	503.6	506.7	55
2.9	2.8	2.8	14.8	15.0	15.2	2.5	2.4	2.5	15.3	15.2	15.1	20.7	22.0	22.2	56
13.0	12.7	12.7	76.6	76.9	78.2	15.4	15.8	15.9	71.5	72.2	72.5	58.3	61.1	61.1	57
3.5	3.6	3.6	15.8	16.0	16.1	2.2	2.2	2.2	16.0	16.2	16.5	19.6	20.4	20.6	58
13.9	13.9	14.0	54.7	55.5	56.7	14.8	14.8	14.9	46.6	49.8	48.8	46.9	49.2	49.5	59
3.9	3.9	3.9	20.7	21.0	21.6	5.3	5.4	5.5	19.5	19.8	20.0	29.0	29.5	29.5	60
17.7	17.6	17.7	73.9	75.9	76.8	16.4	16.6	16.7	77.6	77.4	79.2	51.1	53.7	54.1	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		
		MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
1	<b>NORTH CAROLINA</b>	2,120.2	2,183.1	2,189.0	4.8	5.0	5.1	105.4	107.6	109.6	772.7	787.1	788.6
2	Asheville	63.5	66.0	66.8	(1)	(1)	(1)	3.4	3.1	3.2	20.9	21.4	21.5
3	Charlotte—Gastonia	290.9	297.5	298.6	(1)	(1)	(1)	14.4	14.1	14.4	83.9	84.7	84.8
4	Greensboro—Winston-Salem—High Pt.	350.8	358.8	359.2	(1)	(1)	(1)	15.7	15.2	15.2	139.8	142.7	143.0
5	Raleigh—Durham	223.1	234.7	232.3	(1)	(1)	(1)	10.9	11.6	11.6	35.1	36.6	37.1
6	<b>NORTH DAKOTA</b> <sup>5</sup>	(*)	224.9	228.8	(*)	3.4	3.4	(*)	14.6	17.0	(*)	15.6	15.1
7	Fargo—Moorhead	(*)	60.2	61.0	(*)	(3)	(3)	(*)	3.9	4.5	(*)	4.8	4.8
8	<b>OHIO</b>	4,236.9	4,309.5	4,356.6	27.5	29.8	30.1	163.6	166.5	175.8	1,339.0	1,358.1	1,362.9
9	Akron	260.6	263.5	265.4	.3	.3	.4	7.4	7.5	8.0	85.2	84.5	83.7
10	Canton	149.2	151.6	152.6	.9	.9	.9	5.7	5.9	6.2	55.2	55.4	55.5
11	Cincinnati	561.9	578.1	582.9	.4	.4	.5	24.8	25.6	26.6	159.6	165.2	165.7
12	Cleveland	881.0	894.4	902.8	1.5	1.4	1.5	29.4	29.8	31.4	270.6	274.0	276.2
13	Columbus	469.4	479.0	483.0	.7	.8	.8	18.2	19.5	20.4	98.5	99.1	100.1
14	Dayton	343.3	353.4	355.6	.4	.4	.4	12.8	13.9	14.4	108.9	110.4	110.2
15	Toledo	293.1	298.1	304.8	.6	.6	.6	11.3	11.1	11.8	86.9	89.2	89.5
16	Youngstown—Warren	210.8	210.0	212.7	.3	.3	.3	7.4	7.8	8.1	82.2	78.5	79.2
17	<b>OKLAHOMA</b>	972.8	1,012.8	1,025.3	47.9	51.5	52.2	48.2	53.9	55.7	161.3	165.4	168.0
18	Oklahoma City	329.0	357.7	362.0	10.9	13.0	13.2	15.8	21.7	23.1	42.6	46.3	46.6
19	Tulsa	251.0	258.9	262.9	15.3	16.1	16.4	13.4	14.7	15.1	53.0	52.5	54.7
20	<b>OREGON</b>	922.9	969.8	979.5	1.6	1.8	1.9	40.5	44.8	45.9	198.6	211.8	215.0
21	Eugene—Springfield	95.4	98.7	99.5	(1)	(1)	(1)	4.5	4.9	5.0	20.0	19.7	20.0
22	Jackson County	-	-	-	-	-	-	-	-	-	7.4	7.5	7.8
23	Portland	482.5	511.4	516.0	(1)	(1)	(1)	21.6	24.9	25.5	96.8	105.4	107.0
24	Salem	78.4	82.2	82.7	(1)	(1)	(1)	4.0	5.0	5.1	11.3	11.7	11.8
25	<b>PENNSYLVANIA</b>	4,572.3	4,608.3	4,642.7	50.2	47.2	47.4	183.3	179.1	189.5	1,344.6	1,350.6	1,356.2
26	Allentown—Bethlehem—Easton	262.4	261.0	261.6	(1)	(1)	(1)	9.3	9.2	8.8	107.5	106.6	106.8
27	Altoona	51.9	52.0	52.2	(1)	(1)	(1)	2.2	2.5	2.6	13.3	12.8	12.5
28	Delaware Valley <sup>11</sup>	1,524.1	1,540.0	1,541.3	(1)	(1)	(1)	51.7	52.4	53.6	383.0	382.5	382.8
29	Erie	111.1	112.5	114.3	(1)	(1)	(1)	3.3	3.2	3.7	42.3	43.4	43.7
30	Harrisburg	206.8	207.7	209.3	(1)	(1)	(1)	9.9	9.0	9.8	38.6	39.8	39.9
31	Johnstown	90.2	84.5	85.7	9.5	9.2	9.6	2.9	2.5	2.7	22.5	18.3	18.3
32	Lancaster	139.9	142.9	143.6	(1)	(1)	(1)	7.1	6.9	7.3	56.2	57.8	57.6
33	Northeast Pennsylvania	230.0	229.7	231.1	1.4	1.4	1.4	11.0	9.8	10.1	70.1	70.1	70.2
34	Philadelphia SMSA	1,823.2	1,850.3	1,853.8	(1)	(1)	(1)	62.7	63.7	65.5	448.2	450.6	450.9
35	Philadelphia City <sup>12</sup>	799.1	808.9	805.5	(1)	(1)	(1)	16.2	16.4	16.6	155.6	157.6	156.8
36	Pittsburgh	912.6	916.0	923.7	11.8	11.5	11.5	45.0	45.5	47.8	249.6	245.4	246.2
37	Reading	132.6	135.3	136.2	(1)	(1)	(1)	4.3	4.8	4.8	50.7	52.0	52.3
38	Scranton <sup>13</sup>	82.9	81.6	81.6	(1)	(1)	(1)	2.5	2.0	2.1	26.1	26.5	26.6
39	Wilkes-Barre—Hazleton <sup>14</sup>	121.2	121.8	122.9	1.2	1.2	1.2	7.3	6.7	7.0	39.4	39.0	39.2
40	Williamsport	44.2	46.6	47.1	(1)	(1)	(1)	1.3	1.7	1.9	16.7	18.0	18.2
41	York	140.9	145.3	146.5	(1)	(1)	(1)	6.2	5.8	6.1	58.4	61.4	61.6
42	<b>RHODE ISLAND</b>	378.8	390.7	395.5	(1)	(1)	(1)	13.0	12.0	13.0	126.5	133.5	134.6
43	Providence—Warwick—Pawtucket	389.0	403.3	408.2	(1)	(1)	(1)	13.2	12.2	13.2	142.8	150.9	152.0
44	<b>SOUTH CAROLINA</b>	1,083.0	1,114.7	1,120.2	1.8	1.8	1.8	65.8	71.7	72.2	380.9	383.2	385.0
45	Charleston—North Charleston	130.5	134.4	134.8	(1)	(1)	(1)	10.2	10.5	10.4	18.0	18.4	18.6
46	Columbia	158.3	169.5	169.9	(1)	(1)	(1)	7.9	8.3	8.4	23.9	25.1	25.3
47	Greenville—Spartanburg	243.1	246.0	246.9	(1)	(1)	(1)	14.5	15.4	15.3	103.1	101.4	101.8
48	<b>SOUTH DAKOTA</b>	226.3	229.8	231.9	2.7	2.7	2.8	12.5	13.0	14.0	22.5	23.4	23.6
49	Rapid City	27.0	27.3	27.6	(3)	(3)	(3)	2.2	2.8	2.8	2.5	2.5	2.6
50	Sioux Falls	48.9	51.1	51.8	(3)	(3)	(3)	2.9	3.4	3.5	6.7	7.2	7.5
51	<b>TENNESSEE</b>	1,620.0	1,686.9	1,694.0	9.2	9.1	9.2	75.6	81.8	83.0	504.5	523.9	526.9
52	Chattanooga	162.6	163.9	163.4	1.1	1.1	1.2	5.7	5.9	5.7	55.9	55.3	54.8
53	Knoxville	183.2	185.3	185.4	1.6	1.7	1.6	11.5	11.2	11.3	51.2	52.3	52.4
54	Memphis	335.0	343.6	343.0	.1	.1	.2	13.8	14.2	14.1	60.3	63.3	63.3
55	Nashville—Davidson	325.0	338.6	341.4	(1)	(1)	(1)	17.2	18.3	18.7	81.1	83.1	82.9
56	<b>TEXAS</b>	4,858.3	5,037.9	5,067.8	152.4	166.0	166.3	341.5	345.8	352.3	887.9	931.9	936.7
57	Amarillo	68.6	69.9	70.1	(1)	(1)	(1)	4.6	5.1	5.0	8.8	8.3	8.3
58	Austin	199.1	210.8	211.9	(1)	(1)	(1)	10.9	12.5	12.9	22.0	24.0	24.2
59	Beaumont—Port Arthur—Orange	142.0	138.8	143.2	(1)	(1)	(1)	16.5	10.3	14.2	39.7	41.4	41.5
60	Corpus Christi	102.4	106.2	106.3	4.0	4.3	4.2	8.9	10.2	10.5	12.7	13.2	13.2
61	Dallas-Fort Worth	1,177.9	1,229.2	1,236.5	13.8	14.9	15.2	55.9	56.7	57.8	263.9	276.8	278.3
62	El Paso	140.2	141.1	141.1	(1)	(1)	(1)	7.9	8.5	8.6	29.0	28.5	27.4
63	Galveston—Texas City	67.5	69.4	71.4	(1)	(1)	(1)	4.9	5.3	5.2	11.8	11.4	11.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	
102.2	106.4	106.6	410.3	419.5	420.7	83.8	84.8	84.7	293.5	306.4	308.3	347.5	366.3	365.4	1
3.3	3.3	3.3	13.0	13.3	13.3	2.3	2.3	2.3	10.7	10.9	11.3	9.9	11.7	11.8	2
26.7	27.0	27.2	69.2	70.5	70.6	18.4	18.5	18.5	43.9	45.9	46.3	34.4	36.8	36.8	3
19.6	20.5	20.6	69.9	70.9	71.3	16.3	16.5	16.3	49.1	50.9	51.1	40.4	42.1	41.7	4
10.5	10.9	11.1	45.1	46.2	46.5	13.7	13.8	13.9	46.2	49.5	48.9	61.6	66.1	63.2	5
(*)	14.1	14.4	(*)	63.6	64.6	(*)	10.2	10.2	(*)	44.0	44.4	(*)	59.4	59.7	6
(*)	3.8	3.8	(*)	19.3	19.5	(*)	3.5	3.5	(*)	12.6	12.6	(*)	12.3	12.3	7
220.6	221.0	223.0	921.5	937.6	948.6	182.6	188.7	190.3	735.2	755.2	767.4	647.0	652.6	658.4	8
14.4	14.4	14.5	57.1	59.0	59.8	8.9	9.4	9.5	45.0	46.6	47.6	42.2	41.7	41.9	9
7.4	7.4	7.4	32.0	32.7	33.1	5.4	5.8	5.8	25.5	25.7	25.8	17.1	17.7	17.7	10
31.4	32.6	32.8	130.0	133.1	133.7	29.8	30.0	30.4	105.9	108.3	110.8	80.1	83.0	82.6	11
47.2	46.7	47.1	201.8	203.3	205.3	44.4	45.5	45.5	168.0	173.5	175.5	118.2	120.2	120.3	12
23.1	23.6	23.7	110.7	113.2	114.3	31.4	32.4	32.7	89.5	92.3	92.6	97.2	98.2	98.4	13
12.4	12.7	12.9	71.7	72.9	73.7	11.8	12.3	12.4	62.4	65.4	65.9	62.9	65.3	65.6	14
19.5	20.0	20.1	66.4	68.4	69.5	9.7	10.3	10.4	53.5	56.1	57.1	45.2	42.3	45.6	15
10.1	10.1	10.3	44.3	45.3	45.9	6.8	7.0	7.0	34.4	35.3	35.7	25.3	25.6	26.1	16
58.9	60.2	60.5	231.8	238.1	241.5	48.5	50.6	51.0	159.0	168.9	170.3	217.2	224.2	226.1	17
20.3	20.9	21.1	81.3	87.2	87.9	21.1	22.3	22.6	55.3	60.4	60.8	81.7	85.9	86.7	18
19.2	19.6	19.7	62.7	62.7	63.2	13.3	13.5	13.5	48.0	51.9	52.3	26.1	27.9	28.0	19
53.0	55.1	55.7	221.3	230.5	232.8	56.6	60.8	61.2	161.2	169.0	169.8	190.1	196.0	197.2	20
4.8	4.9	4.9	23.2	24.4	24.3	4.6	4.7	4.7	17.0	17.5	17.6	21.3	22.6	23.0	21
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
31.6	33.0	33.2	121.6	129.1	130.7	36.6	39.2	39.5	95.6	100.2	100.2	78.7	79.6	79.9	23
3.0	3.2	3.3	16.5	16.9	17.2	4.6	5.0	5.1	12.6	13.0	12.9	26.4	27.4	27.3	24
259.4	256.6	256.6	923.4	923.4	931.3	217.1	222.3	224.0	870.6	885.1	890.7	723.7	744.0	747.0	25
12.4	13.0	13.0	46.5	45.2	45.5	7.9	8.0	8.0	39.5	40.3	40.6	39.3	38.7	38.9	26
8.3	8.2	8.3	11.2	11.1	11.3	1.4	1.4	1.4	8.0	7.9	8.0	7.5	8.1	8.1	27
82.2	81.2	81.6	319.6	322.2	323.2	99.3	100.0	100.2	346.8	358.0	355.6	241.5	243.7	244.3	28
5.3	5.3	5.3	21.6	21.4	21.9	4.5	4.6	4.7	19.6	19.7	20.1	14.5	14.9	14.9	29
15.3	14.8	14.9	40.6	41.0	40.8	11.6	11.8	11.8	35.8	35.1	36.2	55.0	56.2	55.9	30
5.7	5.5	5.6	16.7	15.8	15.9	3.4	3.7	3.8	15.0	15.2	15.2	14.5	14.3	14.6	31
6.2	6.5	6.6	30.1	29.5	30.1	4.3	4.5	4.4	21.9	22.3	22.2	14.1	15.4	15.4	32
12.3	12.3	12.5	48.1	47.4	47.6	8.8	9.0	9.0	40.9	40.1	40.4	37.4	39.6	39.9	33
97.3	95.7	96.2	399.2	404.0	405.8	113.5	115.0	115.3	402.6	417.9	416.1	299.7	303.4	304.0	34
55.9	54.5	55.1	153.2	156.3	156.2	65.5	66.5	66.6	199.4	207.2	203.7	153.3	150.4	150.5	35
57.0	56.1	56.1	195.6	199.0	202.4	41.6	42.0	42.3	186.7	187.1	187.2	125.3	129.4	130.2	36
6.4	6.3	6.4	24.9	25.2	25.3	5.2	5.4	5.5	21.8	21.8	22.2	19.3	19.8	19.7	37
4.6	4.4	4.4	18.4	17.9	17.7	3.2	3.4	3.3	16.9	16.1	16.1	11.2	11.3	11.4	38
6.1	6.1	6.2	25.0	24.9	25.1	4.8	4.8	4.7	17.9	17.8	17.9	19.5	21.3	21.6	39
2.3	2.3	2.3	8.7	9.1	9.2	1.8	1.9	1.9	7.5	7.7	7.6	5.9	5.9	6.0	40
6.8	6.7	6.7	29.7	30.8	30.9	3.4	3.7	3.7	19.1	19.2	19.6	17.3	17.7	17.9	41
13.2	13.2	13.3	76.4	77.6	78.6	19.1	19.9	20.2	72.5	74.2	75.1	58.1	60.3	60.7	42
13.0	13.1	13.2	76.8	77.8	78.8	19.0	20.1	20.4	69.6	71.8	72.9	54.8	57.4	57.7	43
45.1	47.5	47.9	197.8	204.9	206.0	41.3	42.7	43.1	135.4	140.0	141.0	214.9	222.9	223.2	44
7.7	8.3	8.4	27.9	28.2	28.2	5.4	5.8	5.8	19.5	20.5	20.5	41.8	42.7	42.9	45
8.4	8.7	8.7	32.4	35.2	35.2	11.8	12.8	12.8	23.9	25.2	25.4	50.0	54.2	54.1	46
9.5	9.6	9.6	44.9	45.5	45.8	8.5	8.7	8.8	31.6	32.5	32.7	31.0	32.9	32.9	47
12.5	12.1	12.2	62.6	63.1	63.4	10.0	10.1	10.3	46.3	48.5	48.4	57.2	56.9	57.2	48
1.8	1.8	1.8	7.9	7.5	7.6	1.3	1.2	1.2	5.7	5.9	5.8	5.6	5.6	5.8	49
3.9	4.0	4.1	15.6	15.9	15.7	2.7	2.8	2.8	10.8	11.2	11.3	6.3	6.6	6.9	50
77.1	79.4	80.6	345.2	359.8	360.8	70.8	71.5	71.7	249.8	254.8	255.2	287.8	306.6	306.6	51
6.5	6.3	6.3	29.7	30.1	30.1	8.5	8.3	8.4	25.6	25.8	25.8	29.6	31.1	31.1	52
7.4	7.6	7.5	37.7	37.6	37.7	6.9	6.9	6.9	27.7	27.8	27.8	39.2	40.2	40.2	53
23.4	24.4	24.5	88.6	90.1	90.2	18.6	18.8	18.9	65.8	66.3	66.7	64.4	66.4	65.1	54
17.0	18.2	18.3	70.5	74.4	75.3	19.6	19.5	19.6	60.8	61.9	63.0	58.8	63.2	63.6	55
306.6	318.6	320.6	1,192.1	1,230.7	1,242.0	271.9	283.5	285.5	834.5	873.5	875.7	871.4	887.9	888.7	56
6.5	6.7	6.8	20.6	20.9	20.9	3.5	3.6	3.6	13.2	13.3	13.4	11.4	12.0	12.1	57
6.1	6.6	6.7	40.5	43.5	43.7	11.5	12.2	12.3	33.2	34.8	34.9	74.9	77.2	77.2	58
10.6	11.1	11.3	29.7	29.2	29.4	5.0	5.3	5.4	22.1	21.9	21.9	18.4	19.6	19.5	59
6.1	6.0	6.0	25.4	25.8	25.9	5.2	5.5	5.6	17.2	17.4	17.2	22.9	23.8	23.7	60
77.5	81.5	82.3	314.3	325.7	328.8	88.1	93.0	93.5	203.9	215.2	215.3	160.5	165.4	165.3	61
9.6	9.1	9.3	35.5	35.5	35.6	6.7	6.9	7.0	23.0	24.4	24.4	28.5	28.2	28.8	62
6.5	6.7	7.1	12.4	12.4	13.3	4.5	4.8	4.8	10.2	10.6	10.9	17.2	18.2	18.2	63

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-8 Employees on nonagricultural payrolls for Stated areas, by industry division—Continued**

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
<b>TEXAS—Continued</b>												
1 Houston	1,154.8	1,222.3	1,228.0	49.7	52.2	52.3	125.1	135.9	135.7	191.5	199.5	200.7
2 Lubbock	81.1	84.6	85.0	(1)	(1)	(1)	5.0	4.8	5.1	11.6	12.6	13.0
3 San Antonio	341.2	352.6	353.7	1.7	1.8	1.7	20.7	24.1	24.4	41.4	44.4	44.7
4 Waco	63.6	65.1	65.3	(1)	(1)	(1)	3.1	3.5	3.8	15.4	15.7	15.9
5 Wichita Falls	47.6	48.8	49.2	2.4	2.5	2.5	2.4	2.5	2.6	8.0	8.9	9.0
<b>UTAH</b>												
6 Salt Lake City—Ogden	477.2	509.0	513.8	14.7	15.9	16.3	27.4	32.4	35.2	73.3	77.3	78.0
7	349.1	363.8	367.6	7.1	7.1	7.1	21.7	22.4	24.1	49.8	52.0	52.5
<b>VERMONT</b>												
8 Burlington <sup>13</sup>	173.3	178.1	181.1	.7	.7	.8	8.5	7.1	8.4	43.2	46.4	46.9
9 Springfield <sup>15</sup>	46.3	48.2	49.2	-	-	-	-	-	-	10.5	11.6	11.8
10	12.7	13.3	13.5	-	-	-	-	-	-	5.4	5.9	5.9
<b>VIRGINIA</b>												
11	1,900.7	1,971.0	1,989.2	22.9	22.4	22.4	114.9	118.5	121.1	395.4	401.5	402.7
12 Bristol	24.5	25.4	25.5	(1)	(1)	(1)	1.1	1.1	1.2	8.5	8.9	8.9
13 Lynchburg	63.3	64.8	65.0	(1)	(1)	(1)	3.1	3.3	3.4	27.4	28.5	28.6
14 Newport News—Hampton	135.4	140.1	141.4	(1)	(1)	(1)	5.6	6.1	6.3	34.0	34.6	34.6
15 Norfolk—Virginia Beach—Portsmouth	257.4	263.7	266.6	(1)	(1)	(1)	16.3	16.4	16.7	27.2	28.1	28.5
16 Northern Virginia <sup>16</sup>	373.3	385.7	390.0	.3	.4	.4	24.9	25.8	26.7	14.1	14.7	14.8
17 Petersburg-Colonial Heights-Hopewell	44.4	44.8	45.0	(1)	(1)	(1)	2.2	2.1	2.1	12.6	12.6	12.6
18 Richmond	294.0	303.5	305.8	.3	.4	.4	17.0	18.3	18.5	51.6	51.6	53.0
19 Roanoke	98.0	100.6	102.5	.2	.2	.2	5.8	5.5	5.5	21.1	21.2	21.3
<b>WASHINGTON</b>												
20 Seattle—Everett	1,339.6	1,424.2	1,444.7	2.2	2.2	2.3	74.4	81.0	84.6	259.4	281.5	288.4
21 Spokane	625.0	671.9	680.0	(1)	(1)	(1)	30.3	35.2	37.4	127.1	139.6	142.0
22 Tacoma	111.7	117.7	118.9	(1)	(1)	(1)	6.1	7.1	7.8	14.9	16.3	16.6
23	123.6	130.5	130.8	(1)	(1)	(1)	6.5	6.9	7.0	20.1	22.2	22.1
<b>WEST VIRGINIA</b>												
24 Charleston	616.4	620.8	623.5	72.0	74.3	74.8	39.5	36.9	37.6	124.5	122.7	123.3
25 Huntington—Ashland	108.0	105.8	106.7	6.6	6.6	6.6	7.7	5.7	6.1	19.6	19.0	19.2
26 Parkersburg—Marietta	101.0	98.5	99.1	1.0	1.0	1.0	6.5	5.8	5.9	29.0	27.8	28.1
27 Wheeling	52.3	53.2	53.2	.5	.5	.5	2.8	2.5	2.6	16.2	16.7	16.7
28	64.4	63.5	63.3	7.1	7.0	7.1	3.0	2.5	2.6	14.3	13.6	13.2
<b>WISCONSIN</b>												
29 Appleton—Oshkosh	1,782.7	1,835.0	1,867.6	2.6	2.2	2.5	74.2	79.8	88.6	526.4	543.5	546.0
30 Eau Claire	111.3	113.2	113.9	(1)	(1)	(1)	5.2	4.6	5.0	42.9	45.4	45.2
31 Green Bay	41.0	41.5	42.3	(1)	(1)	(1)	1.5	1.4	1.5	8.9	8.3	8.6
32 Kenosha	69.1	70.4	71.0	(1)	(1)	(1)	3.6	3.4	3.6	19.7	20.0	20.2
33 La Crosse	41.5	39.6	40.1	(1)	(1)	(1)	1.3	1.1	1.3	17.2	15.2	15.3
34 Madison	39.2	41.0	41.4	(1)	(1)	(1)	2.2	1.8	1.9	9.9	10.2	10.3
35 Milwaukee	149.3	153.4	157.6	(1)	(1)	(1)	7.4	7.2	7.8	18.0	18.3	18.6
36 Racine	611.8	626.3	630.9	(1)	(1)	(1)	21.3	22.9	23.9	196.8	203.3	203.2
37	66.0	68.2	68.8	(1)	(1)	(1)	2.4	2.5	2.6	28.1	29.4	29.4
<b>WYOMING</b>												
38 Casper	165.9	173.0	179.5	24.0	28.0	28.4	16.6	16.8	18.6	8.6	8.7	9.0
39 Cheyenne	30.2	32.9	34.1	5.7	6.6	6.7	2.9	3.1	3.5	1.7	1.7	1.8
40	24.0	25.0	25.3	(1)	(1)	(1)	1.7	1.8	2.0	1.5	1.5	1.5

<sup>1</sup> Combined with services.  
<sup>2</sup> Based on the 1967 Standard Industrial Classification Manual.  
<sup>3</sup> Combined with construction.  
<sup>4</sup> Area included in Chicago—Gary Standard Consolidated Statistical Area.  
<sup>5</sup> Revised to 1977 benchmark; not strictly comparable with previously published data.  
<sup>6</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.  
<sup>7</sup> Subarea of New York—Northeastern New Jersey.  
<sup>8</sup> Subarea of Rochester Standard Metropolitan Statistical Area.  
<sup>9</sup> Area included in New York and Nassau—Suffolk combined SMSA's.  
<sup>10</sup> Subarea of New York Standard Metropolitan Statistical Area.  
<sup>11</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.  
<sup>12</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.  
<sup>13</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.  
<sup>14</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.  
<sup>15</sup> Total includes data for industry divisions not shown separately.  
<sup>16</sup> 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			
MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	
84.8	89.7	90.2	282.0	298.8	301.0	68.1	72.9	73.7	222.9	235.7	236.8	130.7	137.6	137.6	1
4.7	4.9	4.9	25.1	26.1	26.0	3.9	4.1	4.1	13.6	13.9	13.7	17.2	18.2	18.2	2
14.9	15.4	15.7	86.4	86.5	86.7	22.8	23.9	24.0	63.9	66.4	66.1	89.4	90.1	90.4	3
3.1	3.2	3.2	14.7	15.0	14.8	3.6	3.7	3.7	12.9	13.0	13.0	10.8	11.0	10.9	4
2.4	2.4	2.5	12.2	12.3	12.4	2.2	2.3	2.3	7.2	7.4	7.4	10.8	10.5	10.5	5
29.0	30.7	30.7	115.9	121.8	124.0	21.7	23.3	23.7	77.7	88.0	86.0	117.5	119.7	119.9	6
22.8	24.3	24.5	87.6	90.9	92.3	18.5	19.1	19.3	55.6	60.0	59.9	86.0	88.0	87.7	7
8.3	8.5	8.6	35.6	37.3	37.8	7.0	7.2	7.3	38.0	38.9	39.2	32.1	32.2	32.3	8
2.1	2.1	2.2	9.8	10.1	10.3	-	-	-	10.1	10.4	10.8	-	-	-	9
.7	.7	.8	2.0	2.2	2.2	-	-	-	2.3	2.4	2.4	-	-	-	10
106.8	107.4	107.6	393.3	406.2	411.0	90.0	91.7	92.6	325.7	336.4	340.1	451.7	486.9	491.7	11
.9	.9	.9	5.9	5.9	6.0	.8	.8	.8	3.0	3.1	3.0	4.3	4.7	4.7	12
2.6	2.4	2.4	10.4	10.7	10.6	2.8	2.8	2.9	8.5	8.7	8.7	8.5	8.4	8.4	13
4.3	4.5	4.7	24.5	25.1	25.4	4.3	4.5	4.6	25.2	26.5	27.0	37.5	38.8	38.8	14
18.2	17.5	17.4	62.1	62.8	63.8	12.8	12.8	13.0	45.9	45.6	46.5	74.9	80.5	80.7	15
26.5	26.6	27.0	88.6	92.0	93.3	23.3	24.6	25.0	86.7	90.8	91.2	108.9	110.8	111.6	16
1.3	1.4	1.4	8.1	8.0	8.0	1.1	1.1	1.1	5.0	5.2	5.2	14.1	14.4	14.6	17
18.0	18.2	18.1	67.2	69.4	69.3	23.0	23.1	23.1	50.7	51.8	52.2	66.2	70.7	71.2	18
10.0	9.8	10.2	23.5	23.9	24.1	5.4	5.7	5.7	17.8	17.7	17.9	14.2	16.6	17.6	19
77.2	80.7	80.1	323.3	345.8	351.1	73.7	80.1	80.9	246.2	262.9	265.6	283.2	290.0	291.7	20
43.8	45.4	44.5	153.6	163.1	165.7	43.5	46.8	47.2	117.9	128.3	129.1	108.8	113.5	114.1	21
7.4	7.8	7.7	31.1	31.9	32.3	7.1	7.7	7.6	24.8	26.0	26.2	20.3	20.9	20.7	22
5.9	6.0	6.2	29.0	30.5	30.8	6.1	6.3	6.3	25.5	27.5	27.4	30.5	31.1	31.0	23
41.0	41.3	41.4	121.8	122.7	123.0	19.5	20.0	20.1	87.0	88.2	88.7	111.1	114.8	114.6	24
9.0	9.0	9.0	24.0	24.1	24.1	4.6	4.7	4.7	18.1	18.0	18.1	18.4	18.8	18.8	25
9.4	9.1	8.8	20.4	20.4	20.6	3.5	3.6	3.6	14.0	13.7	13.9	17.2	17.1	17.2	26
2.4	2.4	2.4	11.2	11.5	11.6	1.8	1.9	1.9	8.1	8.1	8.1	9.3	9.7	9.6	27
3.6	3.7	3.7	14.0	14.2	14.3	2.4	2.4	2.4	12.4	12.4	12.2	7.6	7.6	7.8	28
85.1	85.8	86.3	403.2	413.8	423.6	78.8	81.7	82.5	319.9	328.3	333.9	292.5	299.9	304.0	29
4.0	4.0	3.9	22.2	22.2	22.5	4.2	4.4	4.5	17.5	17.6	17.9	15.3	15.0	15.0	30
2.3	2.3	2.3	10.1	10.4	10.6	1.3	1.3	1.3	7.9	8.2	8.3	9.1	9.6	9.6	31
4.4	4.3	4.3	16.8	16.9	17.0	2.2	2.5	2.6	12.7	13.2	13.1	9.9	10.2	10.4	32
1.4	1.4	1.4	7.7	7.7	7.9	.8	.8	.8	7.1	7.2	7.3	6.0	6.1	6.1	33
2.1	2.2	2.2	10.3	10.6	10.9	.9	.9	.9	8.1	8.5	8.6	5.7	6.6	6.7	34
4.9	5.2	5.1	32.2	33.7	34.0	9.8	10.7	10.9	24.7	24.9	24.9	52.2	53.5	56.3	35
31.6	32.1	31.2	134.0	135.8	137.3	32.4	32.9	33.0	120.5	124.1	126.1	75.3	75.1	76.1	36
2.6	2.5	2.5	12.1	12.4	12.7	2.0	2.1	2.2	10.1	10.3	10.4	8.9	9.0	8.9	37
13.2	13.3	13.5	36.9	36.2	40.1	5.5	5.9	6.0	23.1	23.7	25.1	38.0	38.4	38.8	38
2.1	2.2	2.2	7.6	8.6	8.9	1.3	1.3	1.3	4.4	4.7	4.8	4.5	4.7	4.9	39
3.2	3.4	3.5	5.5	6.0	6.1	1.3	1.4	1.4	3.9	4.2	4.2	6.9	6.7	6.6	40

## ESTABLISHMENT DATA HISTORICAL HOURS AND EARNINGS

**C-1. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry division, 1955 to date**

Year and month	Average												Hourly earnings excl. overtime
	Weekly earnings	Weekly hours	Hourly earnings									Hourly earnings	
				Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours		
Total private <sup>1</sup>			Mining			Contract construction			Manufacturing				
1955.....	\$67.72	39.6	\$1.71	\$89.54	40.7	\$2.20	\$90.90	37.1	\$2.45	\$75.70	40.7	\$1.86	\$1.79
1956.....	70.74	39.3	1.80	95.06	40.8	2.33	96.38	37.5	2.57	78.78	40.4	1.95	<sup>2</sup> 1.89
1957.....	73.33	38.8	1.89	98.65	40.1	2.46	100.27	37.0	2.71	81.59	39.8	2.05	1.99
1958.....	75.08	38.5	1.95	96.08	38.9	2.47	103.78	36.8	2.82	82.71	39.2	2.11	2.05
1959 <sup>3</sup> .....	78.78	39.0	2.02	103.68	40.5	2.56	108.41	37.0	2.93	88.26	40.3	2.19	2.12
1960.....	80.67	38.6	2.09	105.44	40.4	2.61	113.04	36.7	3.08	89.72	39.7	2.26	2.20
1961.....	82.60	38.6	2.14	106.92	40.5	2.64	118.08	36.9	3.20	92.34	39.8	2.32	2.25
1962.....	85.91	38.7	2.22	110.43	40.9	2.70	122.47	37.0	3.31	96.56	40.4	2.39	2.31
1963.....	88.46	38.8	2.28	114.40	41.6	2.75	127.19	37.3	3.41	99.63	40.5	2.46	2.37
1964.....	91.33	38.7	2.36	117.74	41.9	2.81	132.06	37.2	3.55	102.97	40.7	2.53	2.44
1965.....	95.06	38.8	2.45	123.52	42.3	2.92	138.38	37.4	3.70	107.53	41.2	2.61	2.51
1966.....	98.82	38.6	2.56	130.24	42.7	3.05	146.26	37.6	3.89	112.34	41.3	2.72	2.59
1967.....	101.84	38.0	2.68	135.89	42.6	3.19	154.95	37.7	4.11	114.90	40.6	2.83	2.72
1968.....	107.73	37.8	2.85	142.71	42.6	3.35	164.49	37.3	4.41	122.51	40.7	3.01	2.88
1969.....	114.61	37.7	3.04	155.23	43.0	3.61	181.54	37.9	4.79	129.51	40.6	3.19	3.06
1970.....	119.46	37.1	3.22	164.40	42.7	3.85	195.45	37.3	5.24	133.73	39.8	3.36	3.24
1971.....	127.28	37.0	3.44	172.14	42.4	4.06	211.67	37.2	5.69	142.44	39.9	3.57	3.44
1972.....	136.16	37.1	3.67	187.43	42.5	4.41	222.51	36.9	6.03	154.69	40.6	3.81	3.66
1973.....	145.43	37.1	3.92	201.03	42.5	4.73	235.69	37.0	6.37	166.06	40.7	4.08	3.89
1974.....	154.45	36.6	4.22	220.90	42.4	5.21	249.08	36.9	6.75	176.40	40.0	4.41	4.24
1975.....	163.89	36.1	4.54	249.57	42.3	5.90	265.35	36.6	7.25	189.51	39.4	4.81	4.66
1976.....	176.29	36.2	4.87	274.78	42.8	6.42	284.93	37.1	7.68	207.60	40.0	5.19	5.00
1977.....	189.53	36.1	5.25	303.41	44.1	6.88	296.68	36.9	8.04	226.89	40.3	5.63	5.41
June.....	190.01	36.4	5.22	306.85	44.6	6.88	298.08	37.4	7.97	228.48	40.8	5.60	5.37
July.....	191.63	36.5	5.25	309.81	44.9	6.90	302.40	37.8	8.00	226.57	40.1	5.65	5.43
Aug.....	191.99	36.5	5.26	303.21	44.2	6.86	301.44	37.4	8.06	227.70	40.3	5.65	5.42
Sept.....	194.03	36.2	5.36	315.14	44.7	7.05	304.22	37.1	8.20	233.45	40.6	5.75	5.50
Oct.....	195.48	36.2	5.40	319.31	45.1	7.08	310.20	37.6	8.25	234.09	40.5	5.78	5.53
Nov.....	195.30	36.1	5.41	320.14	44.9	7.13	299.94	36.4	8.24	235.89	40.6	5.81	5.56
Dec.....	196.75	36.3	5.42	292.58	43.8	6.68	301.03	36.4	8.27	241.67	41.1	5.88	5.63
1978:													
Jan.....	193.25	35.2	5.49	290.28	42.5	6.83	276.72	33.1	8.36	231.86	39.1	5.93	5.70
Feb.....	195.61	35.5	5.51	297.29	43.4	6.85	288.84	34.8	8.30	235.22	39.6	5.94	5.69
Mar.....	198.89	35.9	5.54	302.97	44.1	6.87	304.30	36.4	8.36	240.78	40.4	5.96	5.72
Apr.....	201.99	36.0	5.61	331.01	43.9	7.54	308.67	37.1	8.32	242.00	40.4	5.99	5.75
May <sup>p</sup> .....	201.55	35.8	5.63	327.99	43.5	7.54	310.48	36.7	8.46	242.61	40.3	6.02	5.78
June <sup>p</sup> .....	205.46	36.3	5.66	330.25	43.8	7.54	322.06	37.8	8.52	246.04	40.6	6.06	5.81
	Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			
1955.....	-	-	-	\$55.16	39.4	\$1.40	\$63.92	37.6	\$1.70	-	-	-	
1956.....	-	-	-	57.48	39.1	1.47	65.68	36.9	1.78	-	-	-	
1957.....	-	-	-	59.60	38.7	1.54	67.53	36.7	1.84	-	-	-	
1958.....	-	-	-	61.76	38.6	1.60	70.12	37.1	1.89	-	-	-	
1959 <sup>3</sup> .....	-	-	-	64.41	38.8	1.66	72.74	37.3	1.95	-	-	-	
1960.....	-	-	-	66.01	38.6	1.71	75.14	37.2	2.02	-	-	-	
1961.....	-	-	-	67.41	38.3	1.76	77.12	36.9	2.09	-	-	-	
1962.....	-	-	-	69.91	38.2	1.83	80.94	37.3	2.17	-	-	-	
1963.....	-	-	-	72.01	38.1	1.89	84.38	37.5	2.25	-	-	-	
1964.....	\$118.37	41.1	\$2.88	74.28	37.9	1.96	85.79	37.3	2.30	\$69.84	36.0	\$1.94	
1965.....	125.14	41.3	3.03	76.53	37.7	2.03	88.91	37.2	2.39	73.60	35.9	2.05	
1966.....	128.13	41.2	3.11	79.02	37.1	2.13	92.13	37.3	2.47	77.04	35.5	2.17	
1967.....	131.22	40.5	3.24	81.76	36.5	2.24	95.46	37.0	2.58	80.38	35.1	2.29	
1968.....	138.85	40.6	3.42	86.40	36.0	2.40	101.75	37.0	2.75	83.97	34.7	2.42	
1969.....	148.15	40.7	3.64	90.78	35.6	2.55	108.70	37.1	2.93	90.57	34.7	2.61	
1970.....	155.93	40.5	3.85	95.66	35.3	2.71	113.34	36.8	3.08	96.66	34.4	2.81	
1971.....	169.24	40.2	4.21	100.39	35.1	2.86	120.66	36.9	3.27	103.28	34.2	3.02	
1972.....	187.92	40.5	4.64	105.65	35.1	3.01	126.88	37.1	3.42	110.14	34.1	3.23	
1973.....	204.62	40.6	5.04	111.04	34.7	3.20	132.10	36.9	3.58	117.64	34.0	3.46	
1974.....	218.29	40.2	5.43	118.33	34.1	3.47	140.19	36.7	3.82	127.46	33.9	3.76	
1975.....	234.43	39.6	5.92	126.75	33.8	3.75	150.75	36.5	4.13	137.23	33.8	4.06	
1976.....	257.75	39.9	6.46	133.39	33.6	3.97	159.58	36.6	4.36	146.06	33.5	4.36	
1977.....	278.29	40.1	6.94	142.52	33.3	4.28	168.36	36.6	4.60	157.31	33.4	4.71	
June.....	275.25	40.3	6.83	143.14	33.6	4.26	166.16	36.6	4.54	156.11	33.5	4.66	
July.....	280.89	40.3	6.97	145.95	34.1	4.28	168.45	36.7	4.59	158.18	33.8	4.68	
Aug.....	282.40	40.4	6.99	145.52	34.0	4.28	169.28	36.8	4.60	157.72	33.7	4.68	
Sept.....	284.71	40.1	7.10	144.52	33.3	4.34	169.73	36.5	4.65	159.36	33.2	4.80	
Oct.....	286.08	39.9	7.17	145.85	33.3	4.38	173.22	36.7	4.72	161.99	33.4	4.85	
Nov.....	290.56	40.3	7.21	144.87	33.0	4.39	172.39	36.6	4.71	161.68	33.2	4.87	
Dec.....	291.77	40.3	7.24	147.07	33.5	4.39	173.85	36.6	4.75	163.50	33.3	4.91	
1978:													
Jan.....	287.96	39.5	7.29	146.64	32.3	4.54	176.78	36.6	4.83	166.50	33.3	5.00	
Feb.....	293.53	40.1	7.32	147.42	32.4	4.55	177.14	36.6	4.84	166.16	33.1	5.02	
Mar.....	293.86	40.2	7.31	149.99	32.8	4.57	176.30	36.5	4.83	167.17	33.3	5.02	
Apr.....	295.66	39.9	7.41	151.54	32.8	4.62	180.69	36.8	4.91	167.33	33.2	5.04	
May <sup>p</sup> .....	294.57	39.7	7.42	151.54	32.8	4.62	179.09	36.4	4.92	167.49	33.1	5.06	
June <sup>p</sup> .....	297.14	40.1	7.41	154.18	33.3	4.63	179.45	36.4	4.93	167.83	33.3	5.04	

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

<sup>2</sup>Prior to January 1956, data were based on the application of adjustment factors to gross average hourly earnings. (See Explanatory Note.)

<sup>p</sup> = preliminary.

<sup>3</sup>Data include Alaska and Hawaii beginning 1959.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>	May 1977	June 1977	Apr. 1978	May <sup>p</sup> 1978	June <sup>p</sup> 1978
-	TOTAL PRIVATE .....	\$187.35	\$190.01	\$201.96	\$201.55	\$205.46	\$5.19	\$5.22	\$5.61	\$5.63	\$5.66
-	<b>MINING .....</b>	300.32	305.85	331.01	327.99	330.25	6.81	6.88	7.54	7.54	7.54
10	<b>METAL MINING .....</b>	296.95	302.02	327.54	328.41	-	7.19	7.26	7.95	8.01	-
101	Iron ores .....	323.09	337.59	364.76	356.90	-	7.62	7.69	8.29	8.30	-
102	Copper ores .....	283.87	280.39	315.56	319.16	-	7.26	7.34	8.05	8.08	-
11,12	<b>COAL MINING .....</b>	343.61	354.90	390.32	385.15	-	8.34	8.43	9.52	9.44	-
12	Bituminous coal and lignite mining .....	344.01	356.17	391.96	386.38	-	8.37	8.46	9.56	9.47	-
13	<b>OIL AND GAS EXTRACTION .....</b>	284.90	287.99	311.64	308.95	-	6.14	6.18	6.76	6.79	-
131,2	Crude petroleum and natural gas fields .....	297.78	301.46	340.00	329.06	-	7.09	7.11	8.00	7.91	-
138	Oil and gas field services .....	278.78	281.20	300.36	300.50	-	5.76	5.81	6.31	6.38	-
14	<b>NONMETALLIC MINERALS, EXCEPT</b>										
	<b>FUELS .....</b>	260.93	267.93	275.40	277.31	-	5.76	5.85	6.12	6.19	-
142	Crushed and broken stone .....	261.13	264.12	275.68	276.46	-	5.64	5.68	5.98	6.01	-
-	<b>CONTRACT CONSTRUCTION .....</b>	296.63	298.08	308.67	310.48	322.06	7.91	7.97	8.32	8.46	8.52
15	<b>GENERAL BUILDING CONTRACTORS .....</b>	285.51	289.34	294.67	294.63	-	7.84	7.82	8.14	8.23	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS .....</b>	291.21	294.03	306.53	306.52	-	7.12	7.26	7.55	7.76	-
161	Highway and street construction .....	291.90	292.22	289.39	293.78	-	6.95	7.11	6.99	7.40	-
162	Heavy construction, nec .....	290.47	296.00	318.80	317.56	-	7.28	7.40	7.97	8.06	-
17	<b>SPECIAL TRADE CONTRACTORS .....</b>	304.41	306.12	318.20	321.48	-	8.34	8.41	8.79	8.93	-
171	Plumbing, heating, air conditioning .....	326.61	329.38	341.41	346.46	-	8.55	8.60	9.08	9.19	-
172	Painting, paper hanging, decorating .....	277.73	275.96	270.48	274.72	-	7.89	7.95	7.84	8.08	-
173	Electrical work .....	351.36	352.49	370.33	378.24	-	9.32	9.45	9.72	9.85	-
174	Masonry, stonework, and plastering .....	276.96	272.90	289.67	287.97	-	8.17	8.22	8.57	8.70	-
176	Roofing and sheetmetal work .....	245.25	246.51	261.74	249.16	-	7.50	7.47	7.86	7.86	-
-	<b>MANUFACTURING .....</b>	224.07	228.48	242.00	242.61	246.04	5.56	5.60	5.99	6.02	6.06
19,24,25, 32-39	<b>DURABLE GOODS .....</b>	243.95	249.00	261.99	262.58	267.21	5.95	6.00	6.39	6.42	6.47
20-23,26-31	<b>NONDURABLE GOODS .....</b>	196.11	200.19	212.37	213.15	215.82	4.99	5.03	5.39	5.41	5.45
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES .....</b>	252.56	252.15	268.80	268.11	273.06	6.16	6.15	6.67	6.62	6.66
192	Ammunition, except for small arms .....	256.94	259.43	270.64	270.64	272.92	6.36	6.39	6.80	6.80	6.84
1925	Complete guided missiles .....	284.38	289.34	300.45	302.30	-	6.97	7.04	7.53	7.52	-
1929	Ammunition, exc. for small arms, nec .....	209.35	210.54	221.13	215.60	-	5.26	5.29	5.57	5.50	-
24	<b>LUMBER AND WOOD PRODUCTS .....</b>	200.29	203.91	215.46	216.76	224.56	4.97	5.01	5.40	5.46	5.60
242	Sawmills and planing mills .....	200.57	203.35	218.12	220.46	(*)	4.88	4.90	5.32	5.43	(*)
2421	Sawmills and planing mills, general .....	209.30	212.07	228.66	230.77	-	5.08	5.11	5.55	5.67	-
243	Millwork, plywood and related products .....	207.55	209.61	221.84	222.48	225.36	5.15	5.15	5.56	5.59	5.62
2431	Millwork .....	196.11	200.40	210.65	214.09	-	4.99	5.01	5.36	5.42	-
2432	Veneer and plywood .....	229.32	229.87	249.37	247.20	-	5.46	5.46	5.98	6.00	-
244	Wooden containers .....	143.89	149.23	162.54	162.51	162.39	3.68	3.74	4.20	4.21	4.24
2441,2	Wooden boxes, shooks, and crates .....	142.69	147.29	158.56	157.73	-	3.64	3.71	4.14	4.14	-
249	Miscellaneous wood products .....	165.13	169.24	176.91	177.80	178.99	4.17	4.21	4.49	4.49	4.52
25	<b>FURNITURE AND FIXTURES .....</b>	162.43	167.78	178.75	179.01	182.95	4.23	4.28	4.56	4.59	4.62
251	Household furniture .....	152.00	156.35	169.30	169.17	172.57	4.00	4.04	4.33	4.36	4.38
2511	Wood household furniture .....	145.50	148.93	159.96	161.52	-	3.75	3.78	4.06	4.11	-
2512	Upholstered household furniture .....	158.18	163.81	179.96	176.99	-	4.31	4.38	4.65	4.67	-
2515	Mattresses and bedsprings .....	168.63	172.21	192.27	192.27	-	4.57	4.58	4.88	4.93	-
252	Office furniture .....	196.17	206.24	203.31	201.89	-	4.82	4.83	5.07	5.06	-
254	Partitions and fixtures .....	201.94	206.04	214.34	218.55	-	5.14	5.19	5.44	5.45	-
253,9	Other furniture and fixtures .....	183.85	189.92	201.11	201.63	202.80	4.69	4.76	5.17	5.17	5.20
32	<b>STONE, CLAY, AND GLASS PRODUCTS .....</b>	239.51	243.18	256.65	258.74	263.97	5.73	5.79	6.14	6.19	6.27
321	Flat glass .....	309.15	306.43	321.17	326.36	-	7.24	7.21	7.93	7.96	-
322	Glass and glassware, pressed or blown .....	243.61	246.44	265.77	265.68	264.77	6.03	6.07	6.53	6.56	6.57
3221	Glass containers .....	256.82	260.12	279.34	276.35	-	6.31	6.36	6.78	6.79	-
3229	Pressed and blown glass, nec .....	224.24	226.73	246.00	249.64	-	5.62	5.64	6.15	6.21	-
324	Cement, hydraulic .....	338.82	345.35	349.82	344.87	(*)	8.01	8.05	8.27	8.31	(*)
325	Structural clay products .....	189.15	191.63	207.33	209.58	(*)	4.58	4.64	4.96	5.05	(*)
3251	Brick and structural clay tile .....	170.16	171.81	188.66	190.26	-	4.13	4.16	4.46	4.53	-
326	Pottery and related products .....	196.32	196.00	208.26	211.18	-	4.97	5.00	5.34	5.36	-
327	Concrete, gypsum, and plaster products .....	249.29	251.94	261.76	263.18	(*)	5.64	5.70	5.99	6.05	(*)
328,9	Other stone and nonmetallic mineral products .....	225.09	231.99	247.52	252.84	255.78	5.49	5.59	5.95	6.02	6.09
3291	Abrasive products .....	219.49	221.13	238.86	242.08	-	5.46	5.46	5.84	5.89	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
-	<b>TOTAL PRIVATE</b> .....	36.1	36.4	36.0	35.8	36.3	-	-	-	-	-
-	<b>MINING</b> .....	44.1	44.6	43.9	43.5	43.8	-	-	-	-	-
10	<b>METAL MINING</b> .....	41.3	41.6	41.2	41.0	-	-	-	-	-	
101	Iron ores .....	42.4	43.9	44.0	43.0	-	-	-	-	-	
102	Copper ores .....	39.1	38.2	39.2	39.5	-	-	-	-	-	
11,12	<b>COAL MINING</b> .....	41.2	42.1	41.0	40.8	-	-	-	-	-	
12	Bituminous coal and lignite mining .....	41.1	42.1	41.0	40.8	-	-	-	-	-	
13	<b>OIL AND GAS EXTRACTION</b> .....	46.4	46.6	46.1	45.5	-	-	-	-	-	
131,2	Crude petroleum and natural gas fields .....	42.0	42.4	42.5	41.6	-	-	-	-	-	
138	Oil and gas field services .....	48.4	48.4	47.6	47.1	-	-	-	-	-	
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	45.3	45.8	45.0	44.8	-	-	-	-	-	
142	Crushed and broken stone .....	46.3	46.5	46.1	46.0	-	-	-	-	-	
-	<b>CONTRACT CONSTRUCTION</b> .....	37.5	37.4	37.1	36.7	37.8	-	-	-	-	
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	36.8	37.0	36.2	35.8	-	-	-	-	-	
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	40.9	40.5	40.6	39.5	-	-	-	-	-	
161	Highway and street construction .....	42.0	41.1	41.4	39.7	-	-	-	-	-	
162	Heavy construction, nec .....	39.9	40.0	40.0	39.4	-	-	-	-	-	
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	36.5	36.4	36.2	36.0	-	-	-	-	-	
171	Plumbing, heating, air conditioning .....	38.2	38.3	37.6	37.7	-	-	-	-	-	
172	Painting, paper hanging, decorating .....	35.2	34.8	34.5	34.0	-	-	-	-	-	
173	Electrical work .....	37.7	37.3	38.1	38.4	-	-	-	-	-	
174	Masonry, stonework, and plastering .....	33.9	33.2	33.8	33.1	-	-	-	-	-	
176	Roofing and sheetmetal work .....	32.7	33.0	33.3	31.7	-	-	-	-	-	
-	<b>MANUFACTURING</b> .....	40.3	40.8	40.4	40.3	40.6	3.3	3.5	3.4	3.4	
19,24,25,32-39	<b>DURABLE GOODS</b> .....	41.0	41.5	41.0	40.9	41.3	3.5	3.7	3.7	3.6	
20-23,26-31	<b>NONDURABLE GOODS</b> .....	39.3	39.8	39.4	39.4	39.6	3.0	3.2	3.1	3.0	
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES</b> .....	41.0	41.0	40.3	40.5	41.0	2.6	2.6	2.8	2.7	
192	Ammunition, except for small arms .....	40.4	40.6	39.8	39.8	39.9	2.4	2.5	2.3	2.2	
1925	Complete guided missiles .....	40.8	41.1	39.9	30.2	-	-	-	-	-	
1929	Ammunition, exc. for small arms, nec .....	39.8	39.8	39.7	39.2	-	-	-	-	-	
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	40.3	40.7	39.9	39.7	40.1	3.8	4.0	3.8	3.7	
242	Sawmills and planing mills .....	41.1	41.5	41.0	40.6	(*)	4.3	4.5	4.5	4.2	
2421	Sawmills and planing mills, general .....	41.2	41.5	41.2	40.7	-	-	-	-	-	
243	Millwork, plywood and related products .....	40.3	40.7	39.9	39.8	40.1	3.7	3.8	3.3	3.3	
2431	Millwork .....	39.3	40.0	39.3	39.5	-	-	-	-	-	
2432	Veneer and plywood .....	42.0	42.1	41.7	41.2	-	-	-	-	-	
244	Wooden containers .....	39.1	39.9	38.7	38.6	38.3	2.6	3.1	3.2	3.5	
2441,2	Wooden boxes, shooks, and crates .....	39.2	39.7	38.3	38.1	-	-	-	-	-	
249	Miscellaneous wood products .....	39.6	40.2	39.4	39.6	39.6	3.3	3.6	3.4	3.5	
25	<b>FURNITURE AND FIXTURES</b> .....	38.4	39.2	39.2	39.0	39.6	2.2	2.5	2.4	2.4	
251	Household furniture .....	38.0	38.7	39.1	38.8	39.4	2.1	2.3	2.5	2.3	
2511	Wood household furniture .....	38.8	39.4	39.4	39.3	-	2.7	2.8	2.9	2.9	
2512	Upholstered household furniture .....	36.7	37.4	38.7	37.9	-	-	-	-	-	
2515	Mattresses and bedsprings .....	36.9	37.6	39.4	39.0	-	-	-	-	-	
252	Office furniture .....	40.7	42.7	40.1	39.9	-	3.1	4.0	3.0	2.9	
254	Partitions and fixtures .....	39.2	39.7	39.4	40.1	-	2.1	2.5	2.2	2.5	
253,9	Other furniture and fixtures .....	39.2	39.9	38.9	39.0	39.0	1.6	2.2	1.9	2.1	
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	41.8	42.0	41.8	41.8	42.1	4.7	4.8	5.0	5.1	
321	Flat glass .....	42.7	42.5	40.5	41.0	-	7.0	7.1	5.3	5.8	
322	Glass and glassware, pressed or blown .....	40.4	40.6	40.7	40.5	40.3	3.9	3.9	4.0	4.1	
3221	Glass containers .....	40.7	40.9	41.2	40.7	-	-	-	-	-	
3229	Pressed and blown glass, nec .....	39.9	40.2	40.0	40.2	-	3.0	2.8	3.1	3.3	
324	Cement, hydraulic .....	42.3	42.9	42.3	41.5	(*)	3.8	4.2	4.3	4.2	
325	Structural clay products .....	41.3	41.3	41.8	41.5	(*)	4.0	4.2	4.5	4.6	
3251	Brick and structural clay tile .....	41.2	41.3	42.3	42.0	-	-	-	-	-	
326	Pottery and related products .....	39.5	39.2	39.0	39.4	-	2.1	2.2	2.2	2.3	
327	Concrete, gypsum, and plaster products .....	44.2	44.2	43.7	43.5	(*)	6.9	6.8	7.0	7.1	
328,9	Other stone and nonmetallic mineral products .....	41.0	41.5	41.6	42.0	42.0	3.7	3.8	3.9	3.9	
3291	Abrasive products .....	40.2	40.5	40.9	41.1	-	-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>
<b>DURABLE GOODS—Continued</b>											
33	<b>PRIMARY METAL INDUSTRIES</b>	\$306.69	\$310.67	\$331.20	\$334.46	\$343.51	\$7.39	\$7.45	\$8.00	\$8.04	\$8.14
331	Blast furnace and basic steel products	346.88	348.57	376.79	379.86	(*)	8.44	8.44	9.19	9.22	(*)
3312	Blast furnaces and steel mills	355.06	355.93	385.97	389.63	—	8.66	8.66	9.46	9.48	—
332	Iron and steel foundries	272.17	279.64	293.82	296.90	(*)	6.59	6.69	7.08	7.12	(*)
3321	Gray iron foundries	283.40	294.04	300.46	304.41	—	6.78	6.87	7.24	7.30	—
3322	Malleable iron foundries	271.96	272.83	295.94	299.09	—	6.92	6.96	7.38	7.44	—
3323	Steel foundries	243.98	244.42	276.18	277.91	—	5.98	6.08	6.56	6.57	—
333.4	Nonferrous metals	290.87	301.67	331.93	333.11	337.40	7.06	7.34	7.96	7.95	8.13
3334	Primary aluminum	320.95	342.37	371.29	375.36	—	7.79	8.31	8.99	8.98	—
335	Nonferrous rolling and drawing	278.42	282.96	299.33	304.87	(*)	6.49	6.55	7.01	7.09	(*)
3351	Copper rolling and drawing	279.40	282.19	287.31	291.84	—	6.35	6.37	6.62	6.74	—
3352	Aluminum rolling and drawing	296.67	301.80	329.99	344.96	—	6.82	6.97	7.71	7.84	—
3357	Nonferrous wire drawing and insulating	267.55	273.48	278.04	278.88	—	6.34	6.36	6.62	6.64	—
336	Nonferrous foundries	231.69	232.82	242.00	246.23	(*)	5.61	5.61	6.02	6.11	(*)
3361	Aluminum castings	240.51	240.66	252.10	255.91	—	5.74	5.73	6.24	6.35	—
3362.9	Other nonferrous castings	219.92	223.04	229.03	233.16	—	5.43	5.44	5.74	5.80	—
339	Miscellaneous primary metal products	286.88	293.02	313.65	314.91	(*)	6.98	7.01	7.45	7.48	(*)
3391	Iron and steel forgings	304.37	312.00	336.97	339.04	—	7.46	7.50	7.91	7.94	—
34	<b>FABRICATED METAL PRODUCTS</b>	236.57	243.36	253.59	254.20	256.47	5.77	5.85	6.17	6.20	6.21
341	Metal cans	328.70	345.33	352.66	351.65	(*)	7.37	7.54	8.07	8.14	(*)
342	Cutlery, hand tools, and hardware	229.75	227.51	244.36	246.82	(*)	5.59	5.59	5.96	6.02	(*)
3421,3.5	Cutlery and hand tools, incl. saws	205.57	207.25	226.46	223.58	—	5.10	5.13	5.47	5.48	—
3429	Hardware, nec	243.67	239.90	256.82	262.63	—	5.90	5.88	6.31	6.39	—
343	Plumbing and heating, except electric	201.73	204.73	215.60	218.51	(*)	5.12	5.17	5.50	5.55	(*)
3431,2	Sanitary ware and plumbers' brass goods	201.89	206.19	220.41	221.36	—	5.19	5.26	5.58	5.59	—
3433	Heating equipment, except electric	201.50	204.11	211.77	216.22	—	5.05	5.09	5.43	5.53	—
344	Fabricated structural metal products	224.07	229.30	238.79	240.59	244.39	5.56	5.62	5.94	5.97	5.99
3441	Fabricated structural steel	240.02	247.94	252.10	253.26	—	5.84	5.96	6.24	6.30	—
3442	Metal doors, sash, and trim	175.82	179.15	183.35	187.20	—	4.44	4.49	4.75	4.80	—
3443	Fabricated plate work (boiler shops)	244.62	246.84	261.30	263.81	—	6.07	6.11	6.50	6.53	—
3444	Sheet metal work	229.31	235.18	249.70	248.88	—	5.69	5.75	6.12	6.13	—
3446,9	Architectural and misc. metal work	215.20	223.27	229.19	236.17	—	5.34	5.38	5.59	5.65	—
345	Screw machine products, bolts, etc	236.88	242.09	254.07	252.11	254.32	5.60	5.63	5.95	5.96	5.97
3451	Screw machine products	220.92	225.46	240.69	238.14	—	5.26	5.28	5.65	5.67	—
3452	Bolts, nuts, rivets, and washers	253.04	258.93	268.16	267.53	—	5.94	5.98	6.28	6.28	—
346	Metal stampings	276.55	294.55	306.00	303.54	(*)	6.68	6.85	7.20	7.21	(*)
347	Metal services, nec	188.00	191.09	196.75	196.58	196.98	4.70	4.73	4.87	4.89	4.90
348	Miscellaneous fabricated wire products	198.19	204.00	215.06	216.12	220.71	4.93	5.00	5.31	5.31	5.37
349	Miscellaneous fabricated metal products	234.58	239.04	251.73	252.56	254.41	5.68	5.76	6.11	6.16	6.19
3494,8	Valves, pipe, and pipe fittings	238.46	244.95	256.27	255.85	—	5.76	5.86	6.19	6.21	—
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	252.54	257.69	274.86	274.39	279.36	6.10	6.15	6.56	6.58	6.62
351	Engines and turbines	281.39	289.58	320.90	319.84	(*)	7.07	7.15	7.77	7.82	(*)
3511	Steam engines and turbines	250.90	259.52	276.12	279.18	—	6.50	6.57	7.08	7.05	—
3519	Internal combustion engines, nec	295.00	303.81	338.44	336.17	—	7.32	7.41	8.02	8.12	—
352	Farm machinery	262.63	271.65	277.67	273.32	—	6.39	6.53	6.89	6.85	—
353	Construction and related machinery	268.04	275.04	297.23	295.24	(*)	6.49	6.58	7.06	7.08	(*)
3531.2	Construction and mining machinery	285.42	296.23	319.49	317.29	—	7.03	7.19	7.68	7.72	—
3533	Oil field machinery	260.40	261.44	282.72	282.09	—	6.00	6.01	6.44	6.47	—
3535,6	Conveyors, hoists, cranes, monorails	235.35	248.17	271.65	266.56	—	5.84	5.98	6.53	6.47	—
3537	Industrial trucks and tractors	242.19	239.95	260.41	259.56	—	5.85	5.81	6.29	6.30	—
354	Metal working machinery	272.21	278.19	299.40	298.66	(*)	6.36	6.41	6.82	6.85	(*)
3541	Machine tools, metal cutting types	285.94	290.79	318.05	316.15	—	6.44	6.52	6.99	7.01	—
3544	Special dies, tools, jigs and fixtures	296.12	301.27	323.18	319.85	—	6.73	6.77	7.23	7.22	—
3545	Machine tool accessories	247.28	251.69	271.30	272.19	—	5.93	5.95	6.28	6.33	—
3542,8	Miscellaneous metal working machinery	231.60	241.84	258.13	260.38	—	5.79	5.87	6.22	6.32	—
355	Special industry machinery	233.70	238.88	255.65	257.51	261.88	5.70	5.77	6.19	6.22	6.28
3551	Food products machinery	243.79	247.25	262.04	269.21	—	5.99	6.06	6.47	6.55	—
3552	Textile machinery	191.75	196.11	201.17	204.00	—	4.77	4.76	5.08	5.10	—
3555	Printing trades machinery	246.43	251.74	270.94	268.39	—	6.04	6.17	6.39	6.36	—
356	General industrial machinery	250.69	255.01	269.21	268.96	274.32	6.07	6.13	6.55	6.56	6.61
3561	Pumps and compressors	255.92	259.01	273.16	272.74	—	6.05	6.08	6.63	6.62	—
3562	Ball and roller bearings	256.06	258.96	268.87	267.96	—	6.17	6.21	6.59	6.60	—
3564	Blowers and fans	235.09	234.43	244.01	246.24	—	5.72	5.69	6.07	6.08	—
3566	Power transmission equipment	245.83	253.17	276.18	278.46	—	6.04	6.13	6.56	6.63	—
357	Office and computing machines	224.13	226.80	231.01	228.52	(*)	5.44	5.40	5.58	5.56	(*)
3573	Electronic computing equipment	229.91	232.78	232.82	231.13	—	5.54	5.49	5.61	5.61	—
358	Service industry machines	220.02	222.96	243.72	241.94	(*)	5.57	5.56	5.93	5.93	(*)
3585	Refrigeration machinery	218.23	221.43	246.60	245.40	—	5.61	5.62	6.00	6.00	—
359	Miscellaneous machinery, except electrical	247.97	250.84	267.55	269.86	(*)	5.89	5.93	6.34	6.41	(*)

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
	<b>DURABLE GOODS—Continued</b>										
	<b>PRIMARY METAL INDUSTRIES</b>										
33	PRIMARY METAL INDUSTRIES	41.5	41.7	41.4	41.6	42.2	3.7	3.8	3.9	4.0	—
331	Blast furnace and basic steel products	41.1	41.3	41.0	41.2	(*)	2.8	2.9	3.0	3.1	—
3312	Blast furnaces and steel mills	41.0	41.1	40.8	41.1	—	2.7	2.7	2.9	3.0	—
332	Iron and steel foundries	41.3	41.8	41.5	41.7	(*)	4.3	4.6	4.6	4.8	—
3321	Gray iron foundries	41.8	42.8	41.5	41.7	—	4.7	5.2	4.9	5.1	—
3322	Malleable iron foundries	39.3	39.2	40.1	40.2	—	—	—	—	—	—
3323	Steel foundries	40.8	40.2	42.1	42.3	—	3.8	3.8	3.9	4.2	—
333.4	Nonferrous metals	41.2	41.1	41.7	41.9	41.5	3.4	3.5	3.7	3.6	—
3334	Primary aluminum	41.2	41.2	41.3	41.8	—	—	—	—	—	—
335	Nonferrous rolling and drawing	42.9	43.2	42.7	43.0	(*)	5.3	5.3	5.3	5.5	—
3351	Copper rolling and drawing	44.0	44.3	43.4	43.3	—	—	—	—	—	—
3352	Aluminum rolling and drawing	43.5	43.3	42.8	44.0	—	6.4	6.3	6.3	6.4	—
3357	Nonferrous wire drawing and insulating	42.2	43.0	42.0	42.0	—	4.6	4.9	4.4	4.5	—
336	Nonferrous foundries	41.3	41.5	40.2	40.3	(*)	3.8	3.8	3.3	3.3	—
3361	Aluminum castings	41.9	42.0	40.4	40.3	—	—	—	—	—	—
3362.9	Other nonferrous castings	40.5	41.0	39.9	40.2	—	—	—	—	—	—
339	Miscellaneous primary metal products	41.1	41.8	42.1	42.1	(*)	4.3	4.3	4.9	5.0	—
3391	Iron and steel forgings	40.8	41.6	42.6	42.7	—	—	—	—	—	—
34	<b>FABRICATED METAL PRODUCTS</b>	41.0	41.6	41.1	41.0	41.3	3.5	3.8	3.7	3.6	—
341	Metal cans	44.6	45.8	43.7	43.2	(*)	4.3	4.7	4.1	3.8	—
342	Cutlery, hand tools, and hardware	41.1	40.7	41.0	41.0	(*)	3.4	3.2	3.3	3.4	—
3421,3,5	Cutlery and hand tools, incl. saws	40.7	40.4	41.4	40.8	—	—	—	—	—	—
3429	Hardware, nec	41.3	40.8	40.7	41.1	—	—	—	—	—	—
343	Plumbing and heating, except electric	39.4	39.6	39.2	39.3	(*)	2.6	2.5	2.6	2.8	—
3431,2	Sanitary ware and plumbers' brass goods	38.9	39.2	39.5	39.6	—	—	—	—	—	—
3433	Heating equipment, except electric	39.9	40.1	49.0	39.1	—	—	—	—	—	—
344	Fabricated structural metal products	40.3	40.8	40.2	40.3	40.8	2.8	3.2	3.0	3.1	—
3441	Fabricated structural steel	41.1	41.6	40.4	40.2	—	2.9	3.3	2.8	3.0	—
3442	Metal doors, sash, and trim	39.6	39.9	38.6	39.0	—	—	—	—	—	—
3443	Fabricated plate work (boiler shops)	40.3	40.4	40.2	40.4	—	2.7	3.1	3.1	2.9	—
3444	Sheet metal work	40.3	40.9	40.8	40.6	—	—	—	—	—	—
3446.9	Architectural and misc. metal work	40.3	41.5	41.0	41.8	—	—	—	—	—	—
345	Screw machine products, bolts, etc	42.3	43.0	42.7	42.3	42.6	4.5	4.9	5.2	4.9	—
3451	Screw machine products	42.0	42.7	42.6	42.0	—	—	—	—	—	—
3452	Bolts, nuts, rivets, and washers	42.6	43.3	42.7	42.6	—	—	—	—	—	—
346	Metal stampings	41.4	43.0	42.5	42.1	(*)	4.7	5.6	5.2	5.0	—
347	Metal services, nec	40.0	40.4	40.4	40.2	40.2	3.4	3.5	3.3	3.4	—
348	Miscellaneous fabricated wire products	40.2	40.8	40.5	40.7	41.1	2.7	2.9	2.9	3.0	—
349	Miscellaneous fabricated metal products	41.3	41.5	41.2	41.0	41.1	3.3	3.7	3.6	3.4	—
3494.8	Valves, pipe, and pipe fittings	41.4	41.8	41.4	41.2	—	—	—	—	—	—
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	41.4	41.9	41.9	41.7	42.2	3.5	3.8	3.9	3.8	—
351	Engines and turbines	39.8	40.5	41.3	40.9	(*)	2.5	2.7	3.5	3.4	—
3511	Steam engines and turbines	38.6	39.5	39.0	39.6	—	—	—	—	—	—
3519	Internal combustion engines, nec	40.3	41.0	42.2	41.4	—	—	—	—	—	—
352	Farm machinery	41.1	41.6	40.3	39.9	—	3.4	3.7	3.0	2.8	—
353	Construction and related machinery	41.3	41.8	42.1	41.7	(*)	2.9	3.1	3.6	3.5	—
3531.2	Construction and mining machinery	40.6	41.2	41.6	41.1	—	2.2	2.5	2.8	2.8	—
3533	Oil field machinery	43.4	43.5	43.9	43.6	—	—	—	—	—	—
3535.6	Conveyors, hoists, cranes, monorails	40.3	41.5	41.6	41.2	—	—	—	—	—	—
3537	Industrial trucks and tractors	41.4	41.3	41.4	41.2	—	—	—	—	—	—
354	Metal working machinery	42.8	43.4	43.9	43.6	(*)	5.0	5.3	5.8	5.5	—
3541	Machine tools, metal cutting types	44.4	44.6	45.5	45.1	—	4.8	5.2	6.3	6.1	—
3544	Special dies, tools, jig and fixtures	44.0	44.5	44.7	44.3	—	—	—	—	—	—
3545	Machine tool accessories	41.7	42.3	43.2	43.0	—	4.0	4.2	4.5	4.4	—
3542.8	Miscellaneous metal working machinery	40.0	41.2	41.5	41.2	—	—	—	—	—	—
355	Special industry machinery	41.0	41.4	41.3	41.4	41.7	3.2	3.4	3.7	3.7	—
3551	Food products machinery	40.7	40.8	40.5	41.1	—	—	—	—	—	—
3552	Textile machinery	40.2	41.2	39.6	40.0	—	—	—	—	—	—
3555	Printing trades machinery	40.8	40.8	42.4	42.2	—	—	—	—	—	—
356	General industrial machinery	41.3	41.6	41.1	41.0	41.5	3.4	3.7	3.8	3.6	—
3561	Pumps and compressors	42.3	42.6	41.2	41.2	—	4.2	4.6	3.9	3.8	—
3562	Ball and roller bearings	41.5	41.7	40.8	40.6	—	3.9	3.9	4.2	3.9	—
3564	Blowers and fans	41.1	41.2	40.2	40.5	—	—	—	—	—	—
3566	Power transmission equipment	40.7	41.3	42.1	42.0	—	2.7	3.3	3.9	3.8	—
357	Office and computing machines	41.2	42.0	41.4	41.1	(*)	2.7	3.0	3.2	2.8	—
3573	Electronic computing equipment	41.5	42.4	41.5	41.2	—	—	—	—	—	—
358	Service industry machines	39.5	40.1	41.1	40.8	(*)	2.5	2.8	2.5	2.4	—
3585	Refrigeration machinery	38.9	39.4	41.1	40.9	—	2.5	2.8	2.5	2.4	—
359	Miscellaneous machinery, except electrical	42.1	42.3	42.2	42.1	(*)	4.1	4.4	4.4	4.5	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>
<b>DURABLE GOODS—Continued</b>											
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	\$209.72	\$214.77	\$227.37	\$227.60	\$230.28	\$5.23	\$5.29	\$5.67	\$5.69	\$5.70
361	Electric test and distributing equipment	214.40	218.97	233.92	233.16	235.76	5.36	5.38	5.79	5.80	5.85
3611	Electric measuring instruments	208.43	209.60	230.27	231.74	—	5.25	5.24	5.63	5.68	—
3612	Transformers	204.12	210.43	225.89	224.92	—	5.04	5.12	5.55	5.54	—
3613	Switchgear and switchboard apparatus	226.80	233.45	243.58	241.35	—	5.67	5.68	6.12	6.11	—
362	Electrical industrial apparatus	215.46	218.41	231.90	232.53	235.58	5.32	5.34	5.74	5.77	5.76
3621	Motors and generators	221.95	226.74	238.95	239.57	—	5.44	5.49	5.90	5.93	—
3622	Industrial controls	193.94	196.42	209.33	211.29	—	4.96	4.96	5.34	5.39	—
363	Household appliances	203.19	206.71	227.60	224.93	228.17	5.21	5.22	5.69	5.68	5.69
3632	Household refrigerators and freezers	206.42	222.50	254.71	247.42	—	5.32	5.44	6.05	6.02	—
3633	Household laundry equipment	229.28	230.14	260.43	257.28	—	6.18	6.17	6.61	6.58	—
3634	Electric housewares and fans	172.27	172.72	192.37	189.54	—	4.44	4.44	4.87	4.86	—
364	Electric lighting and wiring equipment	194.44	199.89	218.70	219.37	(*)	4.91	4.96	5.40	5.43	(*)
3641	Electric lamps	213.91	216.52	236.12	238.50	—	5.23	5.23	5.83	5.86	—
3642	Lighting fixtures	190.30	198.58	226.06	224.19	—	4.93	5.04	5.68	5.69	—
3643.4	Wiring devices	188.65	192.63	205.91	207.46	—	4.74	4.78	5.01	5.06	—
365	Radio and TV receiving equipment	181.45	190.03	204.05	205.74	(*)	4.75	4.86	5.30	5.33	(*)
366	Communication equipment	248.63	251.49	257.44	258.24	262.04	6.02	6.06	6.42	6.44	6.47
3661	Telephone and telegraph apparatus	257.69	260.60	253.36	256.11	—	6.15	6.19	6.53	6.55	—
3662	Radio and TV communication equipment	241.13	243.36	260.57	259.72	—	5.91	5.95	6.34	6.35	—
367	Electronic components and accessories	176.40	181.04	190.32	189.85	192.96	4.41	4.47	4.77	4.77	4.80
3671-3	Electron tubes	228.25	235.06	256.43	253.34	—	5.54	5.61	6.12	6.09	—
3674.9	Other electronic components	169.55	174.10	181.76	182.16	—	4.26	4.32	4.59	4.60	—
369	Miscellaneous electrical equip. and supplies	245.62	258.32	262.04	267.15	(*)	6.02	6.18	6.47	6.58	(*)
3694	Engine electrical equipment	269.03	287.80	286.03	294.26	—	6.61	6.82	7.08	7.23	—
37	<b>TRANSPORTATION EQUIPMENT</b>	303.88	310.18	318.86	317.75	322.14	7.10	7.18	7.61	7.62	7.67
371	Motor vehicles and equipment	353.13	360.36	363.29	362.88	(*)	7.83	7.92	8.39	8.40	(*)
3711	Motor vehicles	378.98	383.87	389.40	384.56	—	8.15	8.22	8.79	8.78	—
3712	Passenger car bodies	390.39	404.76	367.88	375.87	—	8.58	8.78	9.29	9.35	—
3713	Truck and bus bodies	245.23	251.68	264.87	265.68	—	6.07	6.05	6.54	6.56	—
3714	Motor vehicle parts and accessories	345.65	355.27	360.26	363.66	—	7.75	7.86	8.32	8.36	—
3715	Truck trailers	212.13	213.20	225.33	223.67	—	5.29	5.33	5.55	5.55	—
372	Aircraft and parts	284.81	287.58	309.01	306.91	(*)	6.83	6.88	7.34	7.36	(*)
3721	Aircraft	292.86	295.81	312.33	309.41	—	7.04	7.06	7.49	7.51	—
3722	Aircraft engines and engine parts	280.85	286.34	316.35	313.40	—	6.85	6.95	7.55	7.57	—
3723.9	Other aircraft parts and equipment	271.15	271.58	294.25	291.54	—	6.35	6.39	6.78	6.78	—
373	Ship and boat building and repairing	232.44	234.81	253.37	(*)	(*)	5.96	5.99	6.48	(*)	(*)
3731	Ship building and repairing	247.40	250.49	267.63	(*)	(*)	6.36	6.39	6.88	(*)	(*)
3732	Boat building and repairing	184.39	182.52	206.04	203.97	—	4.68	4.68	5.19	5.19	—
374	Railroad equipment	289.76	297.75	312.33	315.46	—	7.19	7.28	7.75	7.77	—
375.9	Other transportation equipment	182.05	187.07	199.82	202.79	—	4.68	4.76	5.19	5.24	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	206.74	209.61	224.95	224.52	227.11	5.13	5.15	5.50	5.53	5.58
381	Engineering and scientific instruments	223.02	224.26	246.03	244.28	—	5.40	5.43	5.83	5.83	—
382	Mechanical measuring and control devices	204.53	206.86	221.27	223.16	223.41	5.05	5.07	5.45	5.51	5.53
3821	Mechanical measuring devices	211.45	214.65	228.80	230.16	—	5.17	5.21	5.54	5.60	—
3822	Automatic temperature controls	193.12	194.17	208.56	210.79	—	4.84	4.83	5.28	5.35	—
383.5	Optical and ophthalmic goods	183.60	188.03	200.56	200.38	199.79	4.59	4.62	4.94	4.96	4.97
385	Ophthalmic goods	164.94	167.42	178.94	177.06	—	4.24	4.26	4.53	4.54	—
384	Medical instruments and supplies	177.97	181.03	192.08	191.44	192.72	4.54	4.56	4.79	4.81	4.83
386	Photographic equipment and supplies	268.51	269.80	294.00	292.46	(*)	6.47	6.47	7.00	6.98	(*)
387	Watches, clocks, and watchcases	162.68	166.76	178.97	175.87	—	4.15	4.19	4.43	4.43	—
39	<b>MISC. MANUFACTURING INDUSTRIES</b>	168.09	169.81	179.93	179.33	180.96	4.31	4.31	4.59	4.61	4.64
391	Jewelry, silverware, and plated ware	173.18	177.36	183.52	180.59	182.58	4.51	4.49	4.73	4.74	4.73
394	Toys and sporting goods	154.40	155.59	168.13	167.18	—	4.00	4.01	4.30	4.32	—
3941-3	Games, toys, dolls and play vehicles	144.40	147.07	158.91	157.66	—	3.82	3.81	4.16	4.16	—
3949	Sporting and athletic goods, nec	164.32	165.78	176.36	176.17	—	4.16	4.24	4.42	4.46	—
395	Pens, pencils, office and art supplies	172.83	169.81	198.97	198.17	—	4.31	4.31	4.76	4.81	—
396	Costume jewelry and notions	148.22	152.08	155.17	153.12	—	3.82	3.86	4.02	4.04	—
393.9	Other manufacturing industries	182.42	183.41	191.59	192.47	(*)	4.63	4.62	4.90	4.91	(*)
393	Musical instruments and parts	167.35	167.42	179.90	178.94	—	4.28	4.26	4.52	4.53	—
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b>	209.62	211.73	224.40	226.34	227.88	5.28	5.28	5.71	5.73	5.74
201	Meat products	209.47	211.74	220.02	227.70	(*)	5.33	5.32	5.70	5.75	(*)
2011	Meat packing plants	259.75	263.53	278.39	283.31	—	6.32	6.35	6.84	6.91	—
2013	Sausages and other prepared meats	255.27	255.20	251.67	268.27	—	6.35	6.38	6.52	6.69	—
2015	Poultry dressing plants	126.27	130.47	135.01	141.75	—	3.45	3.47	3.74	3.77	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
	<b>ELECTRICAL EQUIPMENT AND SUPPLIES .</b>	40.1	40.6	40.1	40.0	40.4	2.4	2.6	2.5	2.5	—
361	Electric test and distributing equipment . . . . .	40.0	40.7	40.4	40.2	40.3	2.4	2.7	2.4	2.2	—
3611	Electric measuring instruments . . . . .	39.7	40.0	40.9	40.8	—	1.9	2.1	2.3	2.1	—
3612	Transformers . . . . .	40.5	41.1	40.7	40.6	—	—	—	—	—	—
3613	Switchgear and switchboard apparatus . . . . .	40.0	41.1	39.8	39.5	—	—	—	—	—	—
362	Electrical industrial apparatus . . . . .	40.5	40.9	40.4	40.3	40.9	2.6	2.9	2.7	2.7	—
3621	Motors and generators . . . . .	40.8	41.3	40.5	40.4	—	3.1	3.5	2.8	2.8	—
3622	Industrial controls . . . . .	39.1	39.6	39.2	39.2	—	1.4	1.8	2.0	2.0	—
363	Household appliances . . . . .	39.0	39.6	40.0	39.6	40.1	2.0	1.9	2.4	2.2	—
3632	Household refrigerators and freezers . . . . .	38.8	40.9	42.1	41.1	—	—	—	—	—	—
3633	Household laundry equipment . . . . .	37.1	37.3	39.4	39.1	—	—	—	—	—	—
3634	Electric housewares and fans . . . . .	38.8	38.9	39.5	39.0	—	1.7	1.7	2.4	2.3	—
364	Electric lighting and wiring equipment . . . . .	39.6	40.3	40.5	40.4	(*)	2.0	2.3	2.6	2.5	—
3641	Electric lamps . . . . .	40.9	41.4	40.5	40.7	—	1.8	1.9	2.2	2.2	—
3642	Lighting fixtures . . . . .	38.6	39.4	39.8	39.4	—	1.8	2.3	2.8	2.6	—
3643,4	Wiring devices . . . . .	39.8	40.3	41.1	41.0	—	2.3	2.5	2.6	2.6	—
365	Radio and TV receiving equipment . . . . .	38.2	39.1	38.5	38.6	(*)	1.8	2.0	1.8	2.1	—
366	Communication equipment . . . . .	41.3	41.5	40.1	40.1	40.5	2.6	2.8	2.2	2.4	—
3661	Telephone and telegraph apparatus . . . . .	41.9	42.1	38.8	39.1	—	—	—	—	—	—
3662	Radio and TV communication equipment . . . . .	40.8	40.9	41.1	40.9	—	2.3	2.5	2.6	2.4	—
367	Electronic components and accessories . . . . .	40.0	40.5	39.9	39.8	40.2	2.3	2.5	2.5	2.3	—
3671,3	Electron tubes . . . . .	41.2	41.9	41.9	41.6	—	2.0	2.4	2.7	2.5	—
3674,9	Other electronic components . . . . .	39.8	40.3	39.6	39.6	—	2.3	2.5	2.5	2.3	—
369	Miscellaneous electrical equip. and supplies . . . . .	40.8	41.8	40.5	40.6	(*)	3.6	3.9	3.4	3.7	—
3694	Engine electrical equipment . . . . .	40.7	42.2	40.4	40.7	—	—	—	—	—	—
37	<b>TRANSPORTATION EQUIPMENT . . . . .</b>	42.8	43.2	41.9	41.7	42.0	5.2	5.2	4.8	4.8	—
371	Motor vehicles and equipment . . . . .	45.1	45.5	43.3	43.2	(*)	7.1	7.0	6.0	6.1	—
3711	Motor vehicles . . . . .	46.5	46.7	44.3	43.8	—	8.1	7.4	6.4	6.4	—
3712	Passenger car bodies . . . . .	45.5	46.1	39.6	40.2	—	—	—	—	—	—
3713	Truck and bus bodies . . . . .	40.4	41.6	40.5	40.5	—	—	—	—	—	—
3714	Motor vehicle parts and accessories . . . . .	44.6	45.2	43.3	43.5	—	6.7	6.9	6.1	6.3	—
3715	Truck trailers . . . . .	40.1	40.0	40.6	40.3	—	—	—	—	—	—
372	Aircraft and parts . . . . .	41.7	41.8	42.1	41.7	(*)	3.2	3.3	4.0	3.7	—
3721	Aircraft . . . . .	41.6	41.9	41.7	41.2	—	2.4	2.6	3.2	3.0	—
3722	Aircraft engines and engine parts . . . . .	41.0	41.2	41.9	41.4	—	3.8	3.8	4.4	4.1	—
3723,9	Other aircraft parts and equipment . . . . .	42.7	42.5	43.4	43.0	—	4.2	4.3	5.0	4.6	—
373	Ship and boat building and repairing . . . . .	39.0	39.2	39.1	(*)	(*)	3.1	3.1	3.0	(*)	—
3731	Ship building and repairing . . . . .	38.9	39.2	38.9	(*)	—	—	—	—	—	—
3732	Boat building and repairing . . . . .	39.4	39.0	39.7	39.3	—	—	—	—	—	—
374	Railroad equipment . . . . .	40.3	40.9	40.3	40.6	—	2.3	2.6	2.9	3.2	—
375,9	Other transportation equipment . . . . .	38.9	39.3	38.5	38.7	—	2.6	2.7	2.8	2.8	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS.</b>	40.3	40.7	40.9	40.6	40.7	2.3	2.4	2.5	2.4	—
381	Engineering and scientific instruments . . . . .	41.3	41.3	42.2	41.9	—	3.0	2.9	2.7	2.8	—
382	Mechanical measuring and control devices . . . . .	40.5	40.8	40.6	40.5	40.4	2.6	2.6	2.5	2.4	—
3821	Mechanical measuring devices . . . . .	40.9	41.2	41.3	41.1	—	2.7	2.9	3.0	2.9	—
3822	Automatic temperature controls . . . . .	39.9	40.2	39.5	39.4	—	2.4	2.2	1.7	1.6	—
383,5	Optical and ophthalmic goods . . . . .	40.0	40.7	40.6	40.4	40.2	2.1	2.4	2.2	2.2	—
385	Ophthalmic goods . . . . .	38.9	39.3	39.5	39.0	—	1.7	1.8	1.7	1.6	—
384	Medical instruments and supplies . . . . .	39.2	39.7	40.1	39.8	39.9	2.1	2.2	2.1	1.9	—
386	Photographic equipment and supplies . . . . .	41.5	41.7	42.0	41.9	(*)	2.3	2.2	3.2	3.1	—
387	Watches, clocks, and watch cases . . . . .	39.2	39.8	40.4	39.7	—	1.7	1.9	1.9	1.8	—
39	<b>MISC. MANUFACTURING INDUSTRIES . . . . .</b>	39.0	39.4	39.2	38.9	39.0	2.0	2.0	2.1	2.0	—
391	Jewelry, silverware, and plated ware . . . . .	38.4	39.5	38.8	38.1	38.6	2.3	2.5	2.4	2.0	—
394	Toys and sporting goods . . . . .	38.6	38.8	39.1	38.7	—	1.7	1.6	1.7	1.4	—
3941,3	Games, toys, dolls and play vehicles . . . . .	37.8	38.6	38.2	37.9	—	—	—	—	—	—
3949	Sporting and athletic goods, nec . . . . .	39.5	39.1	39.9	39.5	—	—	—	—	—	—
395	Pens, pencils, office and art supplies . . . . .	40.1	39.4	41.8	41.2	—	2.3	1.9	3.0	2.5	—
396	Costume jewelry and notions . . . . .	38.8	39.4	38.6	37.9	—	1.8	1.9	2.1	2.1	—
393,9	Other manufacturing industries . . . . .	39.4	39.7	39.1	39.2	(*)	2.0	2.2	2.2	2.1	—
393	Musical instruments and parts . . . . .	39.1	39.3	39.8	39.5	—	1.4	1.3	1.9	1.9	—
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS . . . . .</b>	39.7	40.1	39.3	39.5	39.7	3.6	3.8	3.6	3.6	—
201	Meat products . . . . .	39.3	39.8	38.6	39.6	(*)	3.6	3.8	3.3	3.6	—
2011	Meat packing plants . . . . .	41.1	41.5	40.7	41.0	—	4.1	4.6	3.9	4.2	—
2013	Sausages and other prepared meats . . . . .	40.2	40.0	38.6	40.1	—	—	—	—	—	—
2015	Poultry dressing plants . . . . .	36.6	37.6	36.1	37.6	—	—	—	—	—	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>	May 1977	June 1977	Apr. 1978	May <sup>p</sup> 1978	June <sup>p</sup> 1978
<b>NONDURABLE GOODS—Continued</b>											
<b>FOOD AND KINDRED PRODUCTS—Continued</b>											
202	Dairy products .....	\$ 217.09	\$ 222.83	\$ 230.01	\$ 232.47	(*)	\$ 5.12	\$ 5.17	\$ 5.61	\$ 5.67	(*)
2024	Ice cream and frozen desserts .....	210.31	218.27	227.28	228.22	—	5.08	5.16	5.53	5.58	—
2026	Fluid milk .....	228.64	232.05	239.87	242.53	—	5.22	5.25	5.78	5.83	—
203	Canned, cured, and frozen foods .....	166.90	165.76	187.75	186.50	—	4.56	4.48	5.02	5.00	—
2031,6	Canned, cured, and frozen sea foods .....	135.79	137.09	169.26	161.88	—	4.09	4.08	4.65	4.56	—
2032,3	Canned food, except sea foods .....	181.76	173.82	203.84	202.23	—	4.86	4.66	5.35	5.35	—
2037	Frozen fruits and vegetables .....	155.06	158.42	170.66	173.04	—	4.26	4.27	4.60	4.59	—
204	Grain mill products .....	242.61	248.60	262.42	259.76	\$ 263.93	5.59	5.65	6.16	6.17	\$ 6.21
2041	Flour and other grain mill products .....	263.57	267.60	288.81	284.49	—	5.78	5.83	6.49	6.54	—
2042	Prepared feeds for animals and fowls .....	205.11	208.01	217.36	215.37	—	4.77	4.76	5.20	5.14	—
205	Bakery products .....	212.39	216.70	224.07	228.15	230.88	5.46	5.50	5.79	5.85	5.92
2051	Bread, cake, and related products .....	211.23	215.91	222.34	228.15	—	5.43	5.48	5.76	5.85	—
2052	Cookies and crackers .....	217.79	219.38	232.07	228.93	—	5.57	5.54	5.89	5.84	—
206	Sugar .....	241.00	244.80	251.90	261.20	—	6.04	6.12	6.56	6.53	—
207	Confectionery and related products .....	187.68	190.30	200.08	202.54	(*)	4.80	4.83	5.17	5.22	(*)
2071	Confectionery products .....	177.49	178.33	188.54	189.70	—	4.61	4.62	4.91	4.94	—
208	Beverages .....	257.86	262.03	269.74	263.03	(*)	6.32	6.36	6.71	6.71	(*)
2082	Malt liquors .....	363.10	368.83	380.10	376.57	—	8.29	8.44	9.05	9.14	—
2086	Bottled and canned soft drinks .....	186.76	194.00	200.27	197.37	—	4.74	4.79	5.07	5.10	—
209	Miscellaneous foods and kindred products .....	209.71	211.74	220.32	223.31	227.14	5.09	5.09	5.44	5.46	5.54
21	<b>TOBACCO MANUFACTURES .....</b>	<b>212.60</b>	<b>224.45</b>	<b>241.78</b>	<b>245.11</b>	<b>276.14</b>	<b>5.58</b>	<b>5.77</b>	<b>6.28</b>	<b>6.35</b>	<b>6.67</b>
211	Cigarettes .....	246.39	262.28	281.30	285.48	—	6.45	6.64	7.25	7.32	—
212	Cigars .....	123.58	125.09	132.94	130.85	—	3.34	3.39	3.48	3.48	—
22	<b>TEXTILE MILL PRODUCTS .....</b>	<b>156.72</b>	<b>159.51</b>	<b>168.05</b>	<b>168.87</b>	<b>170.93</b>	<b>3.86</b>	<b>3.90</b>	<b>4.17</b>	<b>4.18</b>	<b>4.21</b>
221	Weaving mills, cotton .....	161.99	164.02	170.80	171.65	172.51	3.98	4.02	4.27	4.27	4.27
222	Weaving mills, synthetics .....	166.43	169.31	182.68	183.52	183.52	4.02	4.07	4.36	4.38	4.38
223	Weaving and finishing mills, wool .....	161.57	164.42	175.48	178.42	177.53	3.96	4.02	4.28	4.32	4.33
224	Narrow fabric mills .....	143.78	147.53	156.40	157.58	157.99	3.64	3.67	3.91	3.92	3.93
225	Knitting mills .....	142.32	145.33	151.68	153.25	156.00	3.64	3.67	3.95	3.96	4.00
2251	Women's hosiery, except socks .....	126.71	129.16	137.96	138.30	—	3.37	3.39	3.64	3.63	—
2252	Hosiery, nec .....	130.56	134.16	138.00	139.85	—	3.40	3.44	3.68	3.69	—
2253	Knit outerwear mills .....	139.10	142.84	144.32	146.66	—	3.68	3.71	3.89	3.88	—
2254	Knit underwear mills .....	126.97	129.75	140.61	142.11	—	3.35	3.37	3.71	3.73	—
226	Textile finishing, except wool .....	170.98	174.30	184.70	185.95	186.82	4.13	4.16	4.44	4.47	4.48
227	Floor covering mills .....	165.62	171.77	183.08	184.34	—	4.02	4.08	4.38	4.41	—
228	Yarn and thread mills .....	149.14	152.67	160.74	161.13	(*)	3.62	3.67	3.93	3.93	(*)
229	Miscellaneous textile goods .....	177.61	178.90	187.27	190.94	(*)	4.29	4.28	4.59	4.68	(*)
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS .....</b>	<b>126.38</b>	<b>130.32</b>	<b>139.98</b>	<b>139.23</b>	<b>141.12</b>	<b>3.56</b>	<b>3.62</b>	<b>3.91</b>	<b>3.90</b>	<b>3.92</b>
231	Men's and boys' suits and coats .....	157.76	162.63	173.73	175.09	(*)	4.37	4.53	4.88	4.85	(*)
232	Men's and boys' furnishings .....	114.60	117.57	127.80	127.45	(*)	3.21	3.23	3.56	3.55	(*)
2321	Men's and boys' shirts and nightwear .....	110.18	114.03	125.24	124.85	—	3.13	3.15	3.45	3.43	—
2327	Men's and boys' separate trousers .....	114.05	116.32	129.22	126.34	—	3.24	3.24	3.64	3.62	—
2328	Men's and boys' work clothing .....	115.97	118.93	123.55	124.26	—	3.16	3.18	3.52	3.53	—
233	Women's and misses' outerwear .....	120.21	125.06	134.85	132.60	(*)	3.61	3.70	3.92	3.90	(*)
2331	Women's and misses' blouses and waists .....	119.68	122.42	128.34	127.65	—	3.52	3.59	3.72	3.70	—
2335	Women's and misses' dresses .....	117.94	121.60	135.81	131.20	—	3.64	3.73	4.03	4.00	—
2337	Women's and misses' suits and coats .....	132.68	143.06	141.37	145.27	—	4.07	4.22	4.22	4.26	—
2339	Women's and misses' outerwear, nec .....	117.99	122.13	133.52	130.96	—	3.41	3.45	3.74	3.71	—
234	Women's and children's undergarments .....	120.09	124.54	127.81	128.52	130.66	3.29	3.33	3.57	3.57	3.57
2341	Women's and children's underwear .....	115.34	119.31	124.24	124.24	—	3.16	3.19	3.49	3.48	—
2342	Corsets and allied garments .....	135.78	142.85	139.39	143.54	—	3.72	3.84	3.84	3.89	—
235	Hats, caps, and millinery .....	113.15	119.57	128.45	126.29	—	3.10	3.18	3.50	3.46	—
236	Children's outerwear .....	116.38	119.79	126.02	126.37	129.58	3.26	3.30	3.53	3.52	3.56
2361	Children's dresses and blouses .....	115.02	120.18	120.76	122.49	—	3.24	3.32	3.48	3.47	—
237,8	Fur goods and miscellaneous apparel .....	130.31	131.77	147.34	147.31	—	3.57	3.61	3.95	3.96	—
239	Miscellaneous fabricated textile products .....	157.41	160.99	170.75	169.93	171.26	4.11	4.16	4.47	4.46	4.46
2391,2	Housefurnishings .....	123.46	127.72	137.25	136.14	—	3.31	3.37	3.66	3.64	—
26	<b>PAPER AND ALLIED PRODUCTS .....</b>	<b>247.66</b>	<b>253.74</b>	<b>268.58</b>	<b>269.86</b>	<b>276.49</b>	<b>5.80</b>	<b>5.86</b>	<b>6.29</b>	<b>6.32</b>	<b>6.43</b>
261,2,6	Paper and pulp mills .....	292.58	298.14	320.23	321.57	328.99	6.56	6.64	7.18	7.21	7.36
263	Paperboard mills .....	299.49	305.33	320.73	323.07	(*)	6.70	6.77	7.24	7.26	(*)
264	Miscellaneous converted paper products .....	210.83	217.35	229.19	230.01	(*)	5.18	5.25	5.59	5.61	(*)
2643	Bags, except textile bags .....	203.36	212.01	216.40	217.87	—	4.96	5.06	5.33	5.34	—
265	Paperboard containers and boxes .....	220.92	226.41	240.66	242.34	247.46	5.26	5.29	5.73	5.77	5.85
2651,2	Folding and setup paperboard boxes .....	204.00	211.33	230.18	230.45	—	5.00	5.08	5.56	5.58	—
2653	Corrugated and solid fiber boxes .....	235.45	240.67	252.88	255.00	—	5.54	5.52	5.95	6.00	—
2654	Sanitary food containers .....	210.02	216.22	224.64	227.81	—	4.93	5.04	5.40	5.45	—

See footnotes at end of table.

ESTABLISHMENT DATA  
HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1977	June 1977	Apr. 1978	May <sup>p</sup> 1978 <sup>p</sup>	June <sup>p</sup> 1978 <sup>p</sup>	May 1977	June 1977	Apr. 1978	May <sup>p</sup> 1978 <sup>p</sup>	June <sup>p</sup> 1978 <sup>p</sup>
	<b>NONDURABLE GOODS—Continued</b>										
	<b>FOOD AND KINDRED PRODUCTS—Continued</b>										
202	Dairy products .....	42.4	43.1	41.0	41.0	(*)	4.2	4.7	4.1	4.2	—
2024	Ice cream and frozen desserts .....	41.4	42.3	41.1	40.9	—	—	—	—	—	—
2026	Fluid milk .....	43.8	44.2	41.5	41.6	—	—	—	—	—	—
203	Canned, cured, and frozen foods .....	36.6	37.0	37.4	37.3	—	2.4	2.9	2.5	2.7	—
2031,6	Canned, cured, and frozen sea foods .....	33.2	33.6	36.4	35.5	—	—	—	—	—	—
2032,3	Canned food, except sea foods .....	37.4	37.3	38.1	37.8	—	—	—	—	—	—
2037	Frozen fruits and vegetables .....	36.4	37.1	37.1	37.7	—	—	—	—	—	—
204	Grain mill products .....	43.4	44.0	42.6	42.1	42.5	5.5	5.7	5.9	5.2	—
2041	Flour and other grain mill products .....	45.6	45.9	44.5	43.5	—	—	—	—	—	—
2042	Prepared feeds for animals and fowls .....	43.0	43.7	41.8	41.9	—	—	—	—	—	—
206	Bakery products .....	38.9	39.4	38.7	39.0	39.0	3.5	3.4	3.3	3.7	—
2051	Bread, cake, and related products .....	38.9	39.4	38.6	39.0	—	—	—	—	—	—
2052	Cookies and crackers .....	39.1	39.6	39.4	39.2	—	—	—	—	—	—
206	Sugar .....	39.9	40.0	38.4	40.0	—	2.0	2.6	3.1	3.3	—
207	Confectionery and related products .....	39.1	39.4	38.7	38.8	(*)	2.2	2.2	2.4	2.4	—
2071	Confectionery products .....	38.5	38.6	38.4	38.4	—	—	—	—	—	—
208	Beverages .....	40.8	41.2	40.2	39.2	(*)	4.3	4.7	4.3	3.7	—
2082	Malt liquors .....	43.8	43.7	42.0	41.2	—	—	—	—	—	—
2088	Bottled and canned soft drinks .....	39.4	40.5	39.5	38.7	—	—	—	—	—	—
209	Miscellaneous foods and kindred products .....	41.2	41.6	40.5	40.9	41.0	4.0	4.2	3.9	4.1	—
21	<b>TOBACCO MANUFACTURES .....</b>	38.1	38.9	38.5	38.6	41.4	1.9	1.6	1.9	2.1	—
211	Cigarettes .....	38.2	39.5	38.8	39.0	—	2.1	1.9	2.1	2.5	—
212	Cigars .....	37.0	36.9	38.2	37.6	—	.7	.4	1.1	1.0	—
22	<b>TEXTILE MILL PRODUCTS .....</b>	40.6	40.9	40.3	40.4	40.6	3.7	3.7	3.5	3.6	—
221	Weaving mills, cotton .....	40.7	40.8	40.0	40.2	40.4	3.9	3.8	3.7	3.5	—
222	Weaving mills, synthetics .....	41.4	41.6	41.9	41.9	41.9	3.6	3.6	3.8	3.9	—
223	Weaving and finishing mills, wool .....	40.8	40.9	41.0	41.3	41.0	3.4	3.4	3.7	3.9	—
224	Narrow fabric mills .....	30.5	40.2	40.0	40.2	40.2	3.1	3.0	2.9	3.4	—
225	Knitting mills .....	39.1	39.6	38.4	38.7	39.0	3.1	3.2	2.8	3.0	—
2251	Women's hosiery, except socks .....	37.6	38.1	37.9	38.1	—	—	—	—	—	—
2252	Hosiery, nec .....	38.4	39.0	37.5	37.9	—	—	—	—	—	—
2253	Knit outerwear mills .....	37.8	38.5	37.1	37.8	—	—	—	—	—	—
2254	Knit underwear mills .....	37.9	38.5	37.9	38.1	—	—	—	—	—	—
226	Textile finishing, except wool .....	41.4	41.9	41.6	41.6	41.7	4.0	4.3	4.3	4.2	—
227	Floor covering mills .....	41.2	42.1	41.8	41.8	—	4.0	4.6	4.4	4.1	—
228	Yarn and thread mills .....	41.2	41.6	40.9	41.0	(*)	4.0	4.1	3.7	3.8	—
229	Miscellaneous textile goods .....	41.4	41.8	40.8	40.8	(*)	4.2	4.2	3.6	3.8	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	35.5	36.0	35.8	35.7	36.0	1.1	1.3	1.2	1.1	—
231	Men's and boys' suits and coats .....	36.1	35.9	35.6	36.1	(*)	.7	.7	.7	.7	—
232	Men's and boys' furnishings .....	35.7	36.4	35.9	35.9	(*)	1.0	1.1	.9	.8	—
2321	Men's and boys' shirts and nightwear .....	35.2	36.2	36.3	36.4	—	.8	1.0	.8	.8	—
2327	Men's and boys' separate trousers .....	35.2	35.9	35.5	34.9	—	.9	1.1	—	—	—
2328	Men's and boys' work clothing .....	36.7	37.4	35.1	35.2	—	1.4	1.4	.7	.6	—
233	Women's and misses' outerwear .....	33.3	33.8	34.4	34.0	(*)	.9	1.0	1.2	1.1	—
2331	Women's and misses' blouses and waists .....	34.0	34.1	34.5	34.5	—	—	—	—	—	—
2335	Women's and misses' dresses .....	32.4	32.6	33.7	32.8	—	.9	.8	1.1	1.0	—
2337	Women's and misses' suits and coats .....	32.6	33.9	33.5	34.1	—	.9	1.2	1.1	1.3	—
2339	Women's and misses' outerwear, nec .....	34.6	35.4	35.7	35.3	—	1.1	1.3	1.4	1.1	—
234	Women's and children's undergarments .....	36.5	37.4	35.8	36.0	36.6	1.1	1.5	.9	.9	—
2341	Women's and children's underwear .....	36.5	37.4	35.6	35.7	—	—	—	—	—	—
2342	Corsets and allied garments .....	36.5	37.2	36.3	36.9	—	—	—	—	—	—
235	Hats, caps, and millinery .....	36.5	37.6	36.7	36.5	—	1.2	1.4	1.4	1.1	—
236	Children's outerwear .....	35.7	36.3	35.7	35.9	36.4	1.3	1.6	1.5	1.4	—
2361	Children's dresses and blouses .....	35.5	36.2	34.7	35.3	—	—	—	—	—	—
237,8	Fur goods and miscellaneous apparel .....	36.5	36.5	37.3	37.2	—	1.1	1.0	1.1	1.4	—
239	Miscellaneous fabricated textile products .....	38.3	38.7	38.2	38.1	38.4	1.9	2.3	2.0	1.9	—
2391,2	Housefurnishings .....	37.3	37.9	37.5	37.4	—	—	—	—	—	—
26	<b>PAPER AND ALLIED PRODUCTS .....</b>	42.7	43.3	42.7	42.7	43.0	4.5	4.8	4.8	4.7	—
261,2,6	Paper and pulp mills .....	44.6	44.9	44.6	44.6	44.7	6.0	6.1	6.2	6.1	—
263	Paperboard mills .....	44.7	45.1	44.3	44.5	(*)	6.8	7.0	6.9	6.9	—
264	Miscellaneous converted paper products .....	40.7	41.4	41.0	41.0	(*)	3.0	3.5	3.7	3.6	—
2643	Bags, except textile bags .....	41.0	41.9	40.6	40.8	—	—	—	—	—	—
265	Paperboard containers and boxes .....	42.0	42.8	42.0	42.0	42.3	3.7	4.0	3.9	3.8	—
2651,2	Folding and setup paperboard boxes .....	40.8	41.6	41.4	41.3	—	—	—	—	—	—
2653	Corrugated and solid fiber boxes .....	42.5	43.6	42.5	42.5	—	4.3	4.5	4.2	4.3	—
2654	Sanitary food containers .....	42.6	42.9	41.6	41.8	—	—	—	—	—	—

See footnotes at end of table.



## ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1977	June 1977	Apr. 1978	May <sup>P</sup> 1978	June <sup>P</sup> 1978	May 1977	June 1977	Apr. 1978	May <sup>P</sup> 1978	June <sup>P</sup> 1978
<b>NONDURABLE GOODS—Continued</b>											
27	<b>PRINTING AND PUBLISHING</b> .....	\$225.75	\$228.46	\$240.53	\$239.09	\$242.79	\$6.02	\$6.06	\$6.38	\$6.41	\$6.44
271	Newspapers .....	224.43	228.80	238.36	239.04	239.04	6.64	6.69	6.99	7.01	7.01
272	Periodicals .....	237.50	234.25	243.27	231.58	—	6.25	6.23	6.47	6.31	—
273	Books .....	207.83	209.09	215.74	217.71	—	5.17	5.28	5.38	5.47	—
275	Commercial printing .....	232.93	235.68	251.16	249.72	251.79	6.05	6.09	6.49	6.52	6.54
2751	Commercial printing, except lithographic .....	222.68	228.13	242.69	240.92	—	5.86	5.91	6.32	6.34	—
2752	Commercial printing, lithographic .....	248.82	248.32	264.91	263.34	—	6.38	6.40	6.81	6.84	—
278	Blankbooks and bookbinding .....	183.77	183.53	190.61	190.90	195.13	4.70	4.67	4.90	4.92	4.94
274,6,7,9	Other publishing and printing ind .....	232.80	237.98	246.91	243.20	246.65	6.00	6.04	6.38	6.40	6.44
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> .....	262.29	266.70	286.86	287.85	290.22	6.29	6.35	6.83	6.87	6.91
281	Industrial chemicals .....	298.78	305.88	329.30	331.93	334.17	7.03	7.13	7.73	7.81	7.90
2812	Alkalies and chlorine .....	320.29	323.95	343.29	340.56	—	7.38	7.43	7.91	7.92	—
2818	Industrial organic chemicals, nec .....	324.09	333.41	359.93	365.93	—	7.59	7.70	8.39	8.51	—
2819	Industrial inorganic chemicals, nec. ....	284.85	288.65	307.97	309.74	—	6.75	6.84	7.35	7.41	—
282	Plastics materials and synthetics .....	258.74	263.75	284.01	284.01	289.33	6.19	6.25	6.73	6.73	6.76
2821	Plastics materials and resins .....	277.99	281.45	303.63	302.40	—	6.42	6.47	6.98	7.00	—
2823,4	Synthetic fibers .....	235.42	239.20	258.13	259.79	—	5.77	5.82	6.25	6.26	—
283	Drugs .....	235.17	235.71	257.72	258.34	259.17	5.85	5.82	6.21	6.24	6.23
2834	Pharmaceutical preparations .....	228.85	231.32	253.59	253.79	—	5.75	5.74	6.17	6.19	—
284	Soap, cleaners, and toilet goods .....	243.61	246.43	265.03	264.31	264.31	6.03	6.04	6.48	6.51	6.51
2841	Soap and other detergents .....	318.93	323.60	355.61	348.99	—	7.63	7.65	8.27	8.27	—
2844	Toilet preparations .....	194.82	194.93	206.58	213.44	—	4.97	4.96	5.27	5.39	—
285	Paints and allied products .....	242.53	247.21	258.13	260.21	(*)	5.83	5.90	6.25	6.27	(*)
287	Agricultural chemicals .....	244.16	247.39	262.80	263.77	(*)	5.60	5.74	6.00	6.12	(*)
2871,2	Fertilizers, complete and mixing only .....	229.60	232.85	245.31	247.54	—	5.23	5.39	5.55	5.73	—
286,9	Other chemical products .....	238.46	243.02	260.80	263.08	262.81	5.76	5.80	6.33	6.37	6.41
2892	Explosives .....	230.83	233.19	240.47	249.08	—	5.63	5.66	6.15	6.29	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	327.59	333.94	366.61	362.39	365.37	7.69	7.73	8.37	8.35	8.38
291	Petroleum refining .....	359.97	361.67	403.25	397.75	400.03	8.45	8.49	9.27	9.25	9.26
295,9	Other petroleum and coal products .....	240.40	256.00	269.09	268.78	(*)	5.63	5.74	6.02	6.04	(*)
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> .....	207.56	211.46	216.93	219.24	224.54	5.05	5.12	5.33	5.40	5.45
301	Tires and inner tubes .....	313.40	322.01	315.56	329.90	337.22	6.98	7.22	7.46	7.69	7.77
302,3,6	Other rubber products .....	203.18	208.88	217.89	220.05	224.54	4.98	5.07	5.38	5.42	5.49
302	Rubber footwear .....	130.31	132.45	146.30	145.16	—	3.58	3.57	3.80	3.80	—
307	Miscellaneous plastics products .....	177.24	179.38	190.69	190.88	194.14	4.42	4.44	4.72	4.76	4.77
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	135.40	137.94	147.03	147.42	148.58	3.63	3.63	3.90	3.90	3.91
311	Leather tanning and finishing .....	189.21	191.60	205.54	204.00	(*)	4.79	4.79	5.05	5.10	(*)
314	Footwear, except rubber .....	128.02	130.41	139.88	140.99	143.25	3.46	3.45	3.73	3.73	3.75
312,3,5,7,9	Other leather products .....	134.65	137.97	143.58	143.56	144.67	3.61	3.65	3.87	3.88	3.91
316	Luggage .....	139.48	143.98	151.07	147.10	—	3.78	3.86	4.05	4.03	—
317	Handbags and personal leather goods .....	131.00	134.55	135.03	137.96	—	3.55	3.55	3.73	3.79	—
—	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	273.20	275.25	295.66	294.57	297.14	6.83	6.83	7.41	7.42	7.41
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	310.03	315.86	328.60	(*)	—	7.16	7.13	7.75	(*)	—
411	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b> Local and suburban transportation .....	231.78	235.35	244.92	244.05	—	5.78	5.84	6.28	6.21	—
413	Intercity highway transportation .....	273.56	280.74	292.90	308.80	—	7.18	7.33	7.79	7.72	—
42	<b>TRUCKING AND WAREHOUSING</b> .....	278.64	284.41	309.42	309.94	—	6.88	6.92	7.64	7.71	—
421,3	Trucking and trucking terminals .....	286.12	291.58	317.90	318.77	—	7.03	7.06	7.83	7.91	—
422	Public warehousing .....	191.38	196.72	211.72	211.83	—	5.01	5.07	5.36	5.39	—
46	<b>PIPE LINE TRANSPORTATION</b> .....	342.36	340.37	377.15	369.35	—	8.21	7.99	9.11	8.90	—
48	<b>COMMUNICATION</b> .....	265.99	266.53	289.20	289.12	—	6.70	6.68	7.23	7.21	—
481	Telephone communication .....	270.64	270.80	292.00	293.06	—	6.80	6.77	7.30	7.29	—
4817	Switchboard operating employees <sup>3</sup> .....	199.63	201.14	208.64	208.45	—	5.82	5.78	6.03	5.99	—
4818	Line construction employees <sup>4</sup> .....	347.13	348.73	392.48	395.55	—	7.98	7.98	8.80	8.79	—
482	Telegraph communication <sup>5</sup> .....	288.00	295.91	(*)	(*)	—	6.89	6.93	(*)	(*)	—
483	Radio and television broadcasting .....	246.87	245.46	282.17	277.68	—	6.33	6.31	7.18	7.12	—

See footnotes at end of table.

ESTABLISHMENT DATA  
HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly hours					Average overtime hours					
		May 1977	June 1977	Apr. 1978	May p 1978 <sup>a</sup>	June p 1978 <sup>b</sup>	May 1977	June 1977	Apr. 1978	May p 1978 <sup>a</sup>	June p 1978 <sup>b</sup>	
	<b>NONDURABLE GOODS—Continued</b>											
27	<b>PRINTING AND PUBLISHING</b>	37.5	37.7	37.7	37.3	37.7	2.6	2.6	2.9	2.7	—	—
271	Newspapers	33.8	34.2	34.1	34.1	34.1	1.6	1.7	1.8	2.0	—	—
272	Periodicals	38.0	37.6	37.6	36.7	—	2.8	1.8	2.3	1.9	—	—
273	Books	40.2	39.6	40.1	39.8	—	4.5	4.0	4.1	3.7	—	—
275	Commercial printing	38.5	38.7	38.7	38.3	38.5	2.9	3.0	3.5	3.2	—	—
2751	Commercial printing, except lithographic	38.0	38.6	38.4	38.0	—	2.6	2.9	3.2	2.9	—	—
2752	Commercial printing, lithographic	39.0	38.8	38.9	38.5	—	3.3	3.1	3.7	3.4	—	—
278	Blankbooks and bookbinding	39.1	39.3	38.9	38.8	39.5	2.4	2.3	2.4	2.3	—	—
274,6,7,9	Other publishing and printing ind.	38.8	39.4	38.7	38.0	38.3	2.5	2.7	2.6	2.4	—	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	41.7	42.0	42.0	41.9	42.0	3.4	3.6	3.6	3.5	—	—
281	Industrial chemicals	42.5	42.9	42.6	42.5	42.3	3.6	4.0	3.8	3.7	—	—
2812	Alkalies and chlorine	43.4	43.6	43.4	43.0	—	—	—	—	—	—	—
2818	Industrial organic chemicals, nec.	42.7	43.3	42.9	43.0	—	3.7	4.0	3.7	3.7	—	—
2819	Industrial inorganic chemicals, nec.	42.2	42.2	41.9	41.8	—	3.2	3.5	3.4	3.3	—	—
282	Plastics materials and synthetics	41.8	42.2	42.2	42.2	42.8	3.3	3.5	3.5	3.4	—	—
2821	Plastics materials and resins	43.3	43.5	43.5	43.2	—	4.3	4.7	4.7	4.4	—	—
2823,4	Synthetic fibers	40.8	41.1	41.3	41.5	—	2.8	2.7	2.6	2.6	—	—
283	Drugs	40.2	40.5	41.5	41.4	41.6	2.6	2.6	2.7	2.7	—	—
2834	Pharmaceutical preparations	39.8	40.3	41.1	41.0	—	—	—	—	—	—	—
284	Soap, cleaners, and toilet goods	40.4	40.8	40.9	40.6	40.6	2.5	2.8	3.1	3.0	—	—
2841	Soap and other detergents	41.8	42.3	43.0	42.2	—	—	—	—	—	—	—
2844	Toilet preparations	39.2	39.3	39.2	39.6	—	—	—	—	—	—	—
285	Paints and allied products	41.6	41.9	41.3	41.5	(*)	3.7	3.9	3.6	3.6	—	—
287	Agricultural chemicals	43.6	43.1	43.8	43.1	(*)	5.4	4.9	6.4	5.2	—	—
2871,2	Fertilizers, complete and mixing only	43.9	43.2	44.2	43.2	—	—	—	—	—	—	—
286,9	Other chemical products	41.4	41.9	41.2	41.3	41.0	3.3	3.8	3.3	3.4	—	—
2892	Explosives	41.0	41.2	39.1	39.6	—	—	—	—	—	—	—
29	<b>PETROLEUM AND COAL PRODUCTS</b>	42.6	43.2	43.8	43.4	43.6	3.9	4.2	4.4	4.1	—	—
291	Petroleum refining	42.6	42.6	43.5	43.0	43.2	3.5	3.5	3.7	3.3	—	—
295,9	Other petroleum and coal products	42.7	44.6	44.7	44.5	(*)	5.1	6.1	6.2	6.1	—	—
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b>	41.1	41.3	40.7	40.6	41.2	3.6	3.8	3.4	3.4	—	—
301	Tires and inner tubes	44.9	44.6	42.3	42.9	43.4	5.4	5.6	4.2	4.6	—	—
302,3,6	Other rubber products	40.8	41.2	40.5	40.6	40.9	3.2	3.6	3.3	3.3	—	—
302	Rubber footwear	36.4	37.1	38.5	38.2	—	1.2	1.5	2.1	2.4	—	—
307	Miscellaneous plastics products	40.1	40.4	40.4	40.1	40.7	3.2	3.3	3.3	3.1	—	—
31	<b>LEATHER AND LEATHER PRODUCTS</b>	37.3	38.0	37.7	37.8	38.0	1.8	2.0	1.9	1.9	—	—
311	Leather tanning and finishing	39.5	40.0	40.7	40.0	(*)	3.1	2.9	3.3	3.2	—	—
314	Footwear, except rubber	37.0	37.8	37.5	37.8	38.2	1.6	1.8	1.9	2.0	—	—
312,3,5-7,9	Other leather products	37.3	37.8	37.1	37.0	37.0	2.0	2.0	1.4	1.3	—	—
316	Luggage	36.9	37.3	37.3	36.5	—	2.6	2.4	1.8	1.5	—	—
317	Handbags and personal leather goods	36.9	37.9	36.2	36.4	—	1.8	2.2	1.4	1.2	—	—
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	40.0	40.3	39.9	39.7	40.1						
	<b>RAILROAD TRANSPORTATION:</b>											
4011	Class I railroads <sup>2</sup>	43.3	44.3	42.4	(*)	—	—	—	—	—	—	—
	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b>											
411	Local and suburban transportation	40.1	40.3	39.0	39.3	—	—	—	—	—	—	—
413	Intercity highway transportation	38.1	38.3	37.6	40.0	—	—	—	—	—	—	—
42	<b>TRUCKING AND WAREHOUSING</b>	40.5	41.1	40.5	40.2	—	—	—	—	—	—	—
421,3	Trucking and trucking terminals	40.7	41.3	40.6	40.3	—	—	—	—	—	—	—
422	Public warehousing	38.2	38.8	39.5	39.3	—	—	—	—	—	—	—
46	<b>PIPE LINE TRANSPORTATION</b>	41.7	42.6	41.4	41.5	—	—	—	—	—	—	—
48	<b>COMMUNICATION</b>	39.7	39.9	40.0	40.1	—	—	—	—	—	—	—
481	Telephone communication	39.8	40.0	40.0	40.2	—	—	—	—	—	—	—
4817	Switchboard operating employees <sup>3</sup>	34.3	34.8	34.6	34.8	—	—	—	—	—	—	—
4818	Line construction employees <sup>4</sup>	43.5	43.7	44.6	45.0	—	—	—	—	—	—	—
482	Telegraph communication <sup>5</sup>	41.8	42.7	(*)	(*)	—	—	—	—	—	—	—
483	Radio and television broadcasting	39.0	38.9	39.3	39.0	—	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
—	<b>TRANSPORTATION AND PUBLIC UTILITIES—Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>										
	Electric companies and systems	\$288.27	\$285.93	\$310.67	\$310.84	—	\$6.98	\$6.94	\$7.45	\$7.49	—
491	Gas companies and systems	295.94	294.69	320.21	322.07	—	7.08	7.05	7.57	7.65	—
492	Combination companies and systems	268.21	264.96	284.61	283.61	—	6.59	6.51	7.01	7.02	—
493	Water, steam, and sanitary systems	314.06	308.97	340.25	339.04	—	7.66	7.61	8.14	8.15	—
494.7		230.45	232.40	248.87	248.06	—	5.58	5.60	6.07	6.08	—
—	<b>WHOLESALE AND RETAIL TRADE</b>	141.10	143.14	151.54	151.54	\$154.18	4.25	4.26	4.62	4.62	\$4.63
50	<b>WHOLESALE TRADE</b>	213.62	214.34	231.64	231.64	234.60	5.52	5.51	5.97	5.97	6.00
501	Motor vehicles and automotive equipment	190.61	193.45	209.67	209.06	—	4.90	4.91	5.39	5.43	—
502	Drugs, chemicals, and allied products	225.38	227.12	244.74	241.04	—	5.90	5.93	6.39	6.31	—
503	Dry goods and apparel	181.44	182.59	196.35	194.55	—	5.04	5.03	5.35	5.33	—
504	Groceries and related products	212.14	211.75	229.42	231.33	—	5.51	5.50	5.99	6.04	—
506	Electrical goods	223.26	221.48	246.71	246.76	—	5.71	5.65	6.23	6.20	—
507	Hardware, plumbing and heating equipment	203.31	204.36	218.23	215.39	—	5.24	5.24	5.61	5.58	—
508	Machinery, equipment, and supplies	236.59	236.16	254.40	254.40	—	5.90	5.86	6.36	6.36	—
509	Miscellaneous wholesalers	209.93	211.42	227.50	227.12	—	5.51	5.52	5.94	5.93	—
52-59	<b>RETAIL TRADE</b> <sup>†</sup>	120.08	122.62	128.44	128.44	130.82	3.80	3.82	4.13	4.13	4.14
53	Retail general merchandise	113.32	115.50	121.91	121.91	—	3.74	3.75	4.05	4.05	—
531	Department stores	116.91	119.56	124.20	125.04	—	3.91	3.92	4.21	4.21	—
532	Mail order houses	151.80	154.98	168.34	166.49	—	4.60	4.64	5.04	5.03	—
533	Variety stores	86.44	89.98	99.66	98.34	—	2.94	3.04	3.30	3.30	—
54	Food stores	149.59	155.04	158.57	159.71	—	4.66	4.67	5.05	5.07	—
541-3	Grocery, meat, and vegetable stores	154.22	159.80	162.74	164.72	—	4.76	4.77	5.15	5.18	—
56	Apparel and accessory stores	99.37	101.14	107.31	108.56	—	3.38	3.36	3.65	3.68	—
561	Men's and boys' clothing and furnishings	126.04	126.49	136.27	135.01	—	3.89	3.88	4.18	4.18	—
562	Women's ready-to-wear stores	85.47	88.48	94.19	95.03	—	3.02	3.03	3.34	3.37	—
565	Family clothing stores	98.94	104.16	106.44	107.21	—	3.32	3.36	3.56	3.55	—
566	Shoe stores	103.82	101.96	109.92	110.76	—	3.63	3.48	3.83	3.90	—
57	Furniture and home furnishings stores	155.30	158.12	164.62	163.21	—	4.35	4.38	4.69	4.69	—
571	Furniture and home furnishings	159.76	162.45	169.92	170.50	—	4.45	4.50	4.80	4.83	—
58	Eating and drinking places <sup>6</sup>	78.93	80.34	84.15	84.74	—	2.87	2.89	3.14	3.15	—
52,55,59	Other retail trade	151.06	152.67	161.10	161.46	—	4.15	4.16	4.50	4.51	—
52	Building materials and farm equipment	170.64	174.96	179.79	180.57	—	4.32	4.32	4.61	4.63	—
551,2	Motor vehicle dealers	206.06	210.00	225.43	224.46	—	5.23	5.33	5.81	5.83	—
553,9	Other automotive and accessory dealers	170.05	174.90	185.89	185.73	—	4.23	4.34	4.73	4.75	—
591	Drug stores and proprietary stores	109.70	111.20	114.16	112.88	—	3.55	3.53	3.78	3.75	—
594	Book and stationery stores	125.84	129.26	132.02	131.11	—	3.86	3.87	4.10	4.11	—
598	Fuel and ice dealers	186.51	185.89	200.07	195.71	—	4.77	4.73	5.13	5.11	—
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup></b>	167.63	166.16	180.69	179.09	179.45	4.58	4.54	4.91	4.92	4.93
60	Banking	139.73	139.39	151.62	148.73	—	3.86	3.84	4.12	4.12	—
61	Credit agencies other than banks	153.85	150.42	165.06	161.82	—	4.07	3.99	4.39	4.35	—
612	Savings and loan associations	148.06	144.69	157.68	153.61	—	3.98	3.90	4.25	4.22	—
62	Security, commodity brokers and services	293.71	286.52	297.94	(*)	—	7.77	7.56	7.62	(*)	—
63	Insurance carriers	179.15	178.29	189.86	189.58	—	4.79	4.78	5.09	5.11	—
631	Life insurance	175.11	174.27	183.26	183.50	—	4.72	4.71	4.98	5.00	—
632	Accident and health insurance	175.18	173.50	186.73	184.62	—	4.61	4.59	4.94	4.91	—
633	Fire, marine, and casualty insurance	182.63	181.76	193.13	193.07	—	4.87	4.86	5.15	5.19	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
-	<b>TRANSPORTATION AND PUBLIC UTILITIES—Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	41.3	41.2	41.7	41.5	-	-	-	-	-	
491	Electric companies and systems	41.8	41.8	42.3	42.1	-	-	-	-	-	
492	Gas companies and systems	40.7	40.7	40.6	40.4	-	-	-	-	-	
493	Combination companies and systems	41.0	40.6	41.8	41.6	-	-	-	-	-	
494-7	Water, steam, and sanitary systems	41.3	41.5	41.0	40.8	-	-	-	-	-	
-	<b>WHOLESALE AND RETAIL TRADE</b>	33.2	33.6	32.8	32.8	33.3	-	-	-	-	
50	<b>WHOLESALE TRADE</b>	38.7	38.9	38.8	38.8	39.1	-	-	-	-	
501	Motor vehicles and automotive equipment	38.9	39.4	38.9	38.5	-	-	-	-	-	
502	Drugs, chemicals, and allied products	38.2	38.3	38.3	38.2	-	-	-	-	-	
503	Dry goods and apparel	36.0	36.3	36.7	36.5	-	-	-	-	-	
504	Groceries and related products	38.5	38.5	38.3	38.3	-	-	-	-	-	
506	Electrical goods	39.1	39.2	39.6	39.8	-	-	-	-	-	
507	Hardware; plumbing and heating equipment	38.8	39.0	38.9	38.6	-	-	-	-	-	
508	Machinery, equipment, and supplies	40.1	40.3	40.0	40.0	-	-	-	-	-	
509	Miscellaneous wholesalers	38.1	38.3	38.3	38.3	-	-	-	-	-	
52-59	<b>RETAIL TRADE</b>	31.6	32.1	31.1	31.1	31.6	-	-	-	-	
53	Retail general merchandise	30.3	30.8	30.1	30.1	-	-	-	-	-	
531	Department stores	29.9	30.5	29.5	29.7	-	-	-	-	-	
532	Mail order houses	33.0	33.4	33.4	33.1	-	-	-	-	-	
533	Variety stores	29.4	29.6	30.2	29.8	-	-	-	-	-	
54	Food stores	32.1	33.2	31.4	31.5	-	-	-	-	-	
541-3	Grocery, meat, and vegetable stores	32.4	33.5	31.6	31.8	-	-	-	-	-	
56	Apparel and accessory stores	29.4	30.1	29.4	29.5	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	32.4	32.6	32.6	32.3	-	-	-	-	-	
562	Women's ready-to-wear stores	28.3	29.2	28.2	28.2	-	-	-	-	-	
565	Family clothing stores	29.8	31.0	29.9	30.2	-	-	-	-	-	
566	Shoe stores	28.6	29.3	28.7	28.4	-	-	-	-	-	
57	Furniture and home furnishings stores	35.7	36.1	35.1	34.8	-	-	-	-	-	
571	Furniture and home furnishings	35.9	36.1	35.4	35.3	-	-	-	-	-	
58	Eating and drinking places <sup>6</sup>	27.5	27.8	26.8	26.9	-	-	-	-	-	
52,55,59	Other retail trade	36.4	36.7	35.8	35.8	-	-	-	-	-	
52	Building materials and farm equipment	39.5	40.5	39.0	39.0	-	-	-	-	-	
551,2	Motor vehicle dealers	39.4	39.4	38.8	38.5	-	-	-	-	-	
553,9	Other automotive and accessory dealers	40.2	40.3	39.3	39.1	-	-	-	-	-	
591	Drug stores and proprietary stores	30.9	31.5	30.2	30.1	-	-	-	-	-	
594	Book and stationery stores	32.6	33.4	32.2	31.9	-	-	-	-	-	
598	Fuel and ice dealers	39.1	39.3	39.0	38.3	-	-	-	-	-	
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup></b>	36.6	36.6	36.8	36.4	36.4	-	-	-	-	
60	Banking	36.2	36.3	36.8	36.1	-	-	-	-	-	
61	Credit agencies other than banks	37.8	37.7	37.6	37.2	-	-	-	-	-	
612	Savings and loan associations	37.2	37.1	37.1	36.4	-	-	-	-	-	
62	Security, commodity brokers and services	37.8	37.9	39.1	(*)	-	-	-	-	-	
63	Insurance carriers	37.4	37.3	37.3	37.1	-	-	-	-	-	
631	Life insurance	37.1	37.8	36.8	36.7	-	-	-	-	-	
632	Accident and health insurance	38.0	37.8	37.8	37.6	-	-	-	-	-	
633	Fire, marine, and casualty insurance	37.5	37.4	37.5	37.2	-	-	-	-	-	

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>
	<b>SERVICES</b> .....	\$155.51	\$156.11	\$167.33	\$167.49	\$167.83	\$4.67	\$4.66	\$5.04	\$5.06	\$5.04
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels <sup>6</sup> .....	101.39	101.09	110.72	109.19	-	3.26	3.24	3.56	3.58	-
	Personal services:										
721	Laundries and dry cleaning plants .....	121.10	122.84	131.20	131.92	-	3.45	3.48	3.77	3.78	-
722	Photographic studios .....	124.68	128.90	136.54	137.53	-	3.86	3.93	4.15	4.13	-
	Motion pictures:										
781	Motion picture filming and distributing ...	280.39	304.94	373.23	361.94	-	7.34	7.72	9.57	9.14	-
806	Hospitals .....	156.28	158.00	171.37	173.39	-	4.61	4.62	5.07	5.13	-

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

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

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> Data relate to nonsupervisory employees except messengers.

<sup>6</sup> Money payments only; tips, not included.

<sup>7</sup> Data for nonoffice sales agents excluded from all series in this division.

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

<sup>\*</sup> Not available.

<sup>p</sup> preliminary.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>	May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>
	<b>SERVICES</b> .....	33.3	33.5	33.2	33.1	33.3	-	-	-	-	-
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels <sup>6</sup> .....	31.1	31.2	31.1	30.5	-	-	-	-	-	-
	Personal services:										
721	Laundries and dry cleaning plants .....	35.1	35.3	34.8	34.9	-	-	-	-	-	-
722	Photographic studios .....	32.3	32.8	32.9	33.3	-	-	-	-	-	-
	Motion pictures:										
781	Motion picture filming and distributing ...	38.2	39.5	39.0	39.6	-	-	-	-	-	-
806	Hospitals .....	33.9	34.2	33.8	33.8	-	-	-	-	-	-

# 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	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.
<b>Executive Branch</b>													
Total employment . . . . .	2,654.9	2,662.8	2,664.0	2,675.8	2,712.3	2,720.5	2,704.7	2,665.4	2,662.5	2,664.3	2,673.1	2,659.5	2,668.2
Average weekly hours . . . . .	39.5	39.3	39.2	39.2	39.3	39.7	39.7	39.4	39.8	39.4	40.0	39.6	39.9
Average overtime hours . . . . .	1.0	.9	.9	.9	1.0	1.1	1.2	1.3	1.2	1.1	1.6	1.2	1.2
Indexes (1967=100):													
Average weekly earnings . . . . .	209.2	208.7	208.7	209.2	208.9	211.1	212.7	214.9	226.9	225.9	230.5	229.0	230.2
Average hourly earnings . . . . .	208.6	209.2	209.7	210.3	209.5	209.5	211.1	214.9	224.6	225.9	227.0	227.8	227.3
<b>Department of Defense</b>													
Total employment . . . . .	917.6	918.4	917.4	920.0	932.0	931.6	922.0	909.1	907.8	909.8	907.7	906.4	906.0
Average weekly hours . . . . .	40.0	39.9	39.6	39.9	39.9	40.0	39.9	39.9	39.9	39.8	40.0	39.9	40.1
Average overtime hours . . . . .	.7	.7	.7	.7	.8	.7	.8	1.1	.9	.9	.8	.7	.8
Indexes (1967=100):													
Average weekly earnings . . . . .	204.2	203.9	204.3	204.8	203.7	203.4	204.2	208.0	217.4	220.9	220.4	221.8	222.3
Average hourly earnings . . . . .	205.7	206.0	207.9	206.8	205.7	204.9	205.7	210.1	219.6	223.7	222.1	224.0	223.4
<b>Postal service</b>													
Total employment . . . . .	649.9	652.3	650.7	652.9	655.6	657.5	656.8	655.0	649.2	650.2	668.2	645.6	646.9
Average weekly hours . . . . .	40.4	39.6	39.7	39.3	39.3	40.4	39.9	40.1	41.2	39.8	41.8	41.1	41.5
Average overtime hours . . . . .	1.4	1.2	1.2	1.0	1.1	1.5	1.4	1.7	2.0	1.5	3.5	2.5	2.1
Indexes (1967=100):													
Average weekly earnings . . . . .	238.0	233.3	234.9	235.6	235.0	241.9	248.6	251.5	259.0	253.4	271.7	263.9	266.5
Average hourly earnings . . . . .	227.4	227.4	228.4	231.4	230.8	231.1	240.5	242.1	242.7	245.7	250.9	247.9	247.9
<b>Other agencies</b>													
Total employment . . . . .	1,087.4	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	1,115.3
Average weekly hours . . . . .	38.5	38.5	38.6	38.6	38.6	39.0	39.3	38.7	38.8	38.9	38.8	38.5	38.9
Average overtime hours . . . . .	.9	.9	.9	1.0	1.1	1.3	1.5	1.2	1.1	1.1	1.0	.9	1.0
Indexes (1967=100):													
Average weekly earnings . . . . .	197.5	198.2	198.0	198.7	197.5	200.5	200.1	201.7	216.6	215.4	216.1	216.6	217.6
Average hourly earnings . . . . .	199.0	199.8	199.0	199.8	198.5	199.5	197.5	202.2	216.6	214.9	216.1	218.3	217.1

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 <sup>1</sup>				
	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
<b>MANUFACTURING</b> . . . . .	\$5.34	\$5.37	\$5.75	\$5.78	\$5.81
<b>DURABLE GOODS</b> . . . . .	5.70	5.74	6.12	6.15	6.18
Ordnance and accessories . . . . .	5.96	5.96	6.45	6.41	-
Lumber and wood products . . . . .	4.75	4.77	5.15	5.21	-
Furniture and fixtures . . . . .	4.12	4.15	4.45	4.45	-
Stone, clay, and glass products . . . . .	5.43	5.48	5.79	5.84	-
Primary metal industries . . . . .	7.08	7.12	7.64	7.68	-
Fabricated metal products . . . . .	5.50	5.56	5.90	5.93	-
Machinery, except electrical . . . . .	5.85	5.89	6.26	6.29	-
Electrical equipment and supplies . . . . .	5.10	5.12	5.50	5.52	-
Transportation equipment . . . . .	6.69	6.77	7.20	7.21	-
Instruments and related products . . . . .	4.99	5.00	5.34	5.37	-
Miscellaneous manufacturing industries . . . . .	4.20	4.20	4.47	4.50	-
<b>NONDURABLE GOODS</b> . . . . .	4.81	4.83	5.19	5.21	5.24
Food and kindred products . . . . .	5.06	5.04	5.46	5.48	-
Tobacco manufactures . . . . .	5.45	5.65	6.13	6.18	-
Textile mill products . . . . .	3.69	3.73	3.99	4.01	-
Apparel and other textile products . . . . .	3.51	3.55	3.85	3.84	-
Paper and allied products . . . . .	5.51	5.55	5.95	5.99	-
Printing and publishing . . . . .	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	( <sup>a</sup> )	-
Chemicals and allied products . . . . .	6.05	6.10	6.55	6.60	-
Petroleum and coal products . . . . .	7.36	7.37	7.97	7.97	-
Rubber and plastics products, nec . . . . .	4.84	4.84	5.12	5.19	-
Leather and leather products . . . . .	3.54	3.54	3.80	3.80	-

<sup>1</sup> Derived by assuming that overtime hours are paid at the rate of time and one-half.   
<sup>2</sup> Not available as average overtime rates are significantly above time and one-half. Inclusion of data for the group in the nondurable goods total has little effect.   
 P = preliminary.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-5. Gross and spendable average weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry division, in current and 1967 dollars**

Industry	Gross average weekly earnings			Spendable average weekly earnings <sup>2</sup>					
				Worker with no dependents			Married worker with 3 dependents		
	May 1977	Apr. 1978	May 1978 <sup>p</sup>	May 1977	Apr. 1978	May 1978 <sup>p</sup>	May 1977	Apr. 1978	May 1978 <sup>p</sup>
<b>TOTAL PRIVATE:</b>									
Current dollars	\$187.36	\$201.96	\$201.55	\$151.89	\$164.14	\$163.85	\$164.82	\$179.41	\$179.10
1967 dollars	103.74	105.52	104.27	84.10	85.76	84.76	91.26	93.74	92.65
<b>MINING:</b>									
Current dollars	300.32	331.01	327.99	233.03	251.15	249.25	250.71	275.16	272.99
1967 dollars	166.29	172.94	169.68	129.03	131.22	128.94	138.82	143.76	141.23
<b>CONTRACT CONSTRUCTION:</b>									
Current dollars	296.63	308.67	310.48	230.62	236.74	237.92	247.92	259.09	260.39
1967 dollars	164.25	161.27	160.62	127.70	123.69	123.08	137.28	135.37	134.71
<b>MANUFACTURING:</b>									
Current dollars	224.07	242.00	242.61	178.86	192.39	192.81	192.41	209.42	209.88
1967 dollars	124.07	126.44	125.51	99.04	100.52	99.75	106.54	109.41	108.58
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars	173.20	295.66	294.57	214.35	228.29	227.58	203.17	249.73	248.94
1967 dollars	151.27	154.47	152.39	118.69	119.27	117.73	127.45	130.48	128.78
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars	141.10	151.54	151.54	117.88	127.25	127.25	130.50	140.64	140.64
1967 dollars	78.13	79.17	78.40	65.27	66.48	65.83	72.26	73.48	72.76
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars	167.63	180.69	179.09	137.66	148.84	147.69	149.85	163.16	161.93
1967 dollars	92.82	94.40	92.65	76.22	77.76	76.40	82.97	85.25	83.77
<b>SERVICES:</b>									
Current dollars	155.51	167.33	167.49	128.71	139.08	139.20	140.49	152.77	152.90
1967 dollars	86.11	87.42	86.65	71.27	72.66	72.01	77.79	79.82	79.10
<b>CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)</b>	180.6	191.4	193.3	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).					

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>2</sup> 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 calculated from formulas which concentrate the full year's effect of tax reduction in those seven months. To compare tax liabilities over the year, these series should be calculated using annual average formulas which reflect the tax reduction impact spread over the entire twelve month period. A technical note on the calculation and uses of the spendable earnings series is available on request.

p = preliminary (applicable to earnings data only).



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry division and major manufacturing group**

[1967 = 100]

Industry division and group	May 1977	June 1977	Apr. 1978	May 1978 <sup>P</sup>	June 1978 <sup>P</sup>
	Hours				
<b>TOTAL</b> .....	115.2	118.0	118.4	119.4	122.4
<b>GOODS-PRODUCING</b> .....	100.8	104.2	104.3	105.6	109.3
<b>MINING</b> .....	140.2	146.7	147.6	149.0	153.9
<b>CONTRACT CONSTRUCTION</b> .....	112.7	119.0	118.3	124.0	136.6
<b>MANUFACTURING</b> .....	97.4	100.1	100.3	100.9	102.9
<b>DURABLE GOODS</b> .....	97.8	100.3	102.2	102.8	104.8
Ordnance and accessories .....	40.3	40.6	40.2	39.8	40.4
Lumber and wood products .....	104.7	110.2	107.4	109.0	112.9
Furniture and fixtures .....	105.3	109.0	113.9	113.2	115.5
Stone, clay, and glass products .....	105.2	108.9	108.7	110.5	113.8
Primary metal industries .....	90.9	92.8	90.7	92.4	94.6
Fabricated metal products .....	102.5	105.8	108.1	108.8	110.5
Machinery, except electrical .....	99.6	101.8	109.4	108.8	111.3
Electrical equipment and supplies .....	96.1	98.7	101.5	101.8	103.6
Transportation equipment .....	97.1	98.9	99.0	100.2	100.8
Instruments and related products .....	111.8	113.8	117.3	117.6	120.3
Miscellaneous manufacturing .....	94.1	95.7	94.3	94.6	97.2
<b>NONDURABLE GOODS</b> .....	96.9	99.7	97.6	98.1	100.2
Food and kindred products .....	91.9	96.5	90.1	91.0	94.0
Tobacco manufactures .....	66.6	70.3	65.3	64.8	70.2
Textile mill products .....	100.1	102.3	99.9	100.7	102.5
Apparel and other textile products .....	88.6	91.5	89.8	90.0	91.3
Paper and allied products .....	99.2	102.8	101.0	102.2	104.5
Printing and publishing .....	94.6	95.4	96.5	95.5	96.5
Chemicals and allied products .....	102.9	104.7	105.5	105.7	107.4
Petroleum and coal products .....	120.0	125.0	125.1	125.8	129.6
Rubber and plastics products, nec .....	132.5	135.5	135.8	136.2	140.2
Leather and leather products .....	74.4	76.5	73.5	74.6	75.7
<b>SERVICE-PRODUCING</b> .....	125.2	127.7	128.3	128.9	131.5
<b>TRANSPORTATION AND PUBLIC     UTILITIES</b> .....	103.6	105.7	104.1	104.5	106.9
<b>WHOLESALE AND RETAIL TRADE</b> .....	120.3	123.0	122.1	123.4	126.3
<b>WHOLESALE TRADE</b> .....	116.3	118.5	120.3	120.7	123.0
<b>RETAIL TRADE</b> .....	121.8	124.7	122.7	124.4	127.6
<b>FINANCE, INSURANCE, AND     REAL ESTATE</b> .....	131.2	133.3	137.3	136.9	139.6
<b>SERVICES</b> .....	140.1	142.4	145.1	145.3	147.5

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

p = preliminary.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

**C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry division and major manufacturing group—Continued**

[1967 = 100]

Industry division and group	May 1977	June 1977	Apr. 1978	May 1978 <sup>p</sup>	June 1978 <sup>p</sup>
	Payrolls				
<b>TOTAL</b> .....	223.5	229.9	248.1	251.2	258.9
<b>GOODS-PRODUCING</b> .....	199.7	208.3	222.0	226.9	237.4
<b>MINING</b> .....	299.6	316.5	349.0	352.4	364.3
<b>CONTRACT CONSTRUCTION</b> .....	216.8	230.4	239.4	254.9	283.0
<b>MANUFACTURING</b> .....	191.5	198.4	212.7	214.9	220.8
<b>DURABLE GOODS</b> .....	193.6	200.4	217.5	219.9	225.7
Ordnance and accessories .....	77.9	78.5	84.2	82.8	84.4
Lumber and wood products .....	220.1	233.2	245.0	251.5	267.2
Furniture and fixtures .....	191.6	200.5	223.3	223.3	229.5
Stone, clay, and glass products .....	213.8	223.5	236.6	242.6	252.9
Primary metal industries .....	201.2	206.8	217.2	222.6	230.5
Fabricated metal products .....	197.2	206.7	223.9	226.4	230.2
Machinery, except electrical .....	190.5	196.5	225.0	224.4	231.0
Electrical equipment and supplies .....	181.3	188.1	207.5	208.8	212.9
Transportation equipment .....	200.8	206.7	219.5	222.5	225.0
Instruments and related products .....	201.4	205.5	226.6	228.0	235.4
Miscellaneous manufacturing .....	172.5	175.5	184.5	185.7	192.2
<b>NONDURABLE GOODS</b> .....	187.9	195.0	204.6	206.3	212.3
Food and kindred products .....	184.0	193.0	194.7	197.7	204.7
Tobacco manufactures .....	163.8	178.7	180.8	181.4	206.5
Textile mill products .....	187.8	193.9	202.5	204.7	209.6
Apparel and other textile products .....	155.6	163.0	172.9	172.9	176.4
Paper and allied products .....	200.4	209.5	221.2	224.7	233.9
Printing and publishing .....	173.8	176.4	187.9	186.6	189.5
Chemicals and allied products .....	208.5	214.3	232.2	234.1	239.2
Petroleum and coal products .....	258.1	270.0	292.7	293.5	303.4
Rubber and plastics products, nec .....	243.6	252.4	263.7	268.1	278.1
Leather and leather products .....	130.5	134.5	138.4	140.8	143.2
<b>SERVICE-PRODUCING</b> .....	243.9	248.5	270.5	272.0	277.4
<b>TRANSPORTATION AND PUBLIC   UTILITIES</b> .....	218.6	223.3	238.5	239.8	244.8
<b>WHOLESALE AND RETAIL TRADE</b> .....	227.9	233.4	251.3	254.0	260.7
<b>WHOLESALE TRADE</b> .....	223.0	226.8	249.6	250.5	256.3
<b>RETAIL TRADE</b> .....	230.5	237.0	252.2	255.8	263.1
<b>FINANCE, INSURANCE, AND   REAL ESTATE</b> .....	232.6	234.1	261.2	260.6	266.5
<b>SERVICES</b> .....	285.6	289.8	319.9	320.8	324.4

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

p = preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED HOURS**

**C-7. Average weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted**

Industry	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>	June <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	36.2	36.1	36.0	36.0	36.2	36.2	36.2	35.6	35.8	36.2	36.3	36.0	36.0
<b>MINING</b> .....	44.1	44.8	44.2	44.3	44.6	44.6	43.7	43.2	43.6	44.6	44.3	43.5	43.3
<b>CONTRACT CONSTRUCTION</b> .....	36.8	36.9	36.5	36.4	36.8	36.9	36.8	34.6	35.7	36.8	37.4	36.6	37.2
<b>MANUFACTURING</b> .....	40.5	40.2	40.3	40.3	40.4	40.5	40.5	39.6	39.9	40.6	40.6	40.3	40.4
<i>Overtime hours</i> .....	3.4	3.4	3.3	3.3	3.5	3.5	3.5	3.5	3.8	3.7	3.6	3.5	3.5
<b>DURABLE GOODS</b> .....	41.2	40.9	40.9	41.0	41.2	41.1	41.2	40.2	40.5	41.2	41.2	40.9	41.0
<i>Overtime hours</i> .....	3.6	3.6	3.5	3.5	3.8	3.7	3.7	3.7	4.0	3.9	3.9	3.7	3.7
Ordnance and accessories .....	40.8	40.3	40.2	40.6	40.8	40.2	41.1	40.2	37.9	41.1	40.3	40.6	40.8
Lumber and wood products .....	39.9	40.4	39.6	40.0	40.1	40.3	40.2	39.4	39.4	39.9	39.9	39.4	39.3
Furniture and fixtures .....	38.9	38.8	39.0	39.2	39.5	39.4	39.5	37.7	39.8	39.9	39.8	39.3	39.2
Stone, clay, and glass products .....	41.6	41.4	41.4	41.0	41.1	41.8	41.6	40.3	40.9	41.6	42.1	41.6	41.7
Primary metal industries .....	41.5	41.1	41.0	40.9	41.3	41.3	41.4	41.0	41.5	41.5	41.4	41.6	41.9
Fabricated metal products .....	41.3	41.0	40.9	40.9	41.1	41.1	41.5	40.3	40.7	41.3	41.4	41.0	41.0
Machinery, except electrical .....	42.0	41.8	41.8	41.8	42.0	41.9	41.9	40.9	41.7	42.2	42.2	42.0	42.3
Electrical equipment and supplies .....	40.4	40.2	40.3	40.3	40.3	40.2	40.3	39.5	39.6	40.4	40.3	40.1	40.2
Transportation equipment .....	42.8	42.0	42.3	42.6	42.7	42.5	42.2	41.1	40.6	41.7	41.9	41.4	41.6
Instruments and related products .....	40.7	40.3	40.3	40.3	40.6	40.4	40.4	39.8	40.3	41.1	41.2	40.7	40.7
Miscellaneous manufacturing, Ind. ....	39.3	38.7	38.8	39.0	39.1	39.0	38.9	38.0	38.3	39.2	39.3	38.9	38.9
<b>NONDURABLE GOODS</b> .....	39.5	39.3	39.3	39.3	39.4	39.5	39.5	38.7	39.1	39.7	39.8	39.5	39.4
<i>Overtime hours</i> .....	3.1	3.0	3.1	3.0	3.1	3.2	3.1	3.1	3.4	3.3	3.4	3.2	3.1
Food and kindred products .....	40.0	39.8	39.7	39.5	39.5	39.8	39.7	39.1	39.6	40.0	40.0	39.8	39.6
Tobacco manufactures .....	38.7	38.6	37.8	38.6	38.2	38.8	38.3	37.5	38.5	39.0	38.9	38.9	41.2
Textile mill products .....	40.3	40.1	40.2	40.3	40.5	40.7	40.6	40.0	40.3	40.6	40.7	40.3	40.0
Apparel and other textile products .....	35.8	35.3	35.5	35.3	35.6	35.7	35.8	33.9	35.2	35.9	36.1	35.8	35.8
Paper and allied products .....	43.1	42.7	42.4	42.7	42.8	42.7	42.9	42.2	42.4	43.4	43.4	42.9	42.8
Printing and publishing .....	37.7	37.8	37.7	38.0	37.9	37.9	37.9	37.4	37.5	38.1	38.1	37.4	37.7
Chemicals and allied products .....	41.9	41.7	41.8	41.7	41.6	41.7	41.7	41.6	41.7	42.1	41.9	41.9	41.9
Petroleum and coal products .....	43.1	42.8	43.0	42.8	43.2	43.3	43.9	43.6	43.4	44.0	43.8	43.4	43.5
Rubber and plastics products, nec .....	41.2	40.6	40.8	40.7	40.9	40.9	40.7	39.8	39.4	40.6	41.0	40.8	41.1
Leather and leather products .....	37.2	36.8	37.3	37.6	37.7	37.8	37.2	36.6	36.6	37.4	38.3	37.6	37.2
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.1	39.9	40.0	39.9	39.7	40.3	40.2	39.8	40.4	40.6	40.1	40.0	39.9
<b>WHOLESALE AND RETAIL TRADE</b> .....	33.3	33.3	33.2	33.2	33.5	33.2	43.3	32.8	32.8	33.1	33.1	33.1	32.9
<b>WHOLESALE TRADE</b> .....	38.8	38.8	38.8	38.8	39.1	38.9	38.8	38.6	38.8	39.0	39.0	38.9	39.0
<b>RETAIL TRADE</b> .....	31.7	31.7	31.6	31.6	31.9	31.6	31.7	31.1	31.1	31.4	31.4	31.4	31.2
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.6	36.6	36.7	36.6	36.7	36.7	36.6	36.5	36.5	36.6	36.8	36.5	36.4
<b>SERVICES</b> .....	33.3	33.2	33.2	33.2	33.5	33.3	33.4	33.5	33.2	33.5	33.4	33.3	33.1

<sup>1</sup>For coverage of series, see footnote 1, table B-2.

p = preliminary.

**C-8. Average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted**

Industry	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>P</sup>	June <sup>P</sup>
<b>Average hourly earnings</b>													
<b>TOTAL PRIVATE</b> .....	\$5.22	\$5.27	\$5.28	\$5.32	\$5.38	\$5.41	\$5.42	\$5.49	\$5.52	\$5.56	\$5.62	\$5.64	\$5.67
<b>MINING</b> .....	6.91	6.95	6.92	7.03	7.13	7.12	6.64	6.76	6.80	6.86	7.53	7.56	7.57
<b>CONTRACT CONSTRUCTION</b> .....	8.04	8.06	8.08	8.09	8.17	8.18	8.21	8.32	8.32	8.40	8.40	8.52	8.60
<b>MANUFACTURING</b> .....	5.61	5.66	5.68	5.73	5.79	5.81	5.83	5.90	5.95	5.97	6.00	6.03	6.07
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	6.88	7.00	6.93	7.03	7.11	7.18	7.24	7.29	7.32	7.36	7.45	7.47	7.46
<b>WHOLESALE AND RETAIL TRADE</b> .....	4.26	4.30	4.31	4.33	4.37	4.39	4.43	4.51	4.52	4.57	4.62	4.61	4.63
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4.54	4.60	4.61	4.65	4.74	4.74	4.75	4.83	4.80	4.82	4.90	4.90	4.93
<b>SERVICES</b> .....	4.67	4.72	4.76	4.78	4.85	4.86	4.89	4.98	4.99	5.01	5.04	5.04	5.05
<b>Average weekly earnings</b>													
<b>TOTAL PRIVATE:</b>													
Current dollars .....	188.96	190.25	190.08	191.52	194.76	195.84	196.20	195.44	197.62	201.27	204.01	203.04	204.12
1967 dollars <sup>2</sup> .....	103.94	104.30	103.81	104.20	105.62	105.75	105.48	104.23	104.73	105.82	106.37	104.88	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) <sup>2,3</sup> .....	94.98	95.22	94.78	95.04	96.11	96.16	95.89	93.07	93.35	94.05	94.34	93.09	-

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

<sup>2</sup> A major revision in the CPI was introduced beginning with the January 1978 data (see note on table C-5, and Explanatory Notes).

<sup>3</sup> See footnote 2, table C-5.

p = preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED**

**C-9. Indexes of aggregate weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted**

[1967 = 100]

Industry division and group	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May <sup>p</sup>	June <sup>p</sup>
<b>TOTAL</b> .....	115.8	115.8	115.6	115.9	116.8	117.2	117.5	116.1	117.0	119.2	120.3	120.0	120.0
<b>GOODS-PRODUCING</b> .....	101.8	101.4	100.6	100.9	101.7	102.3	102.1	99.5	101.4	104.3	106.8	106.1	106.7
<b>MINING</b> .....	142.3	139.9	134.7	142.5	143.9	144.8	113.3	110.7	112.6	118.7	150.5	149.1	149.0
<b>CONTRACT CONSTRUCTION</b> .....	111.8	112.8	110.8	110.4	112.3	114.0	113.5	104.7	108.9	116.5	125.0	123.6	128.6
<b>MANUFACTURING</b> .....	98.7	98.0	97.6	97.8	98.4	98.8	99.7	98.2	99.7	101.7	102.1	101.5	101.4
<b>DURABLE GOODS</b> .....	98.7	98.3	98.1	98.4	99.3	99.5	100.8	99.3	100.9	103.0	103.3	102.9	103.0
Ordnance and accessories .....	41.0	40.5	39.3	39.1	38.2	38.2	40.2	39.8	38.1	41.3	40.5	40.2	40.4
Lumber and wood products .....	104.0	105.3	104.0	106.0	106.8	109.5	109.8	107.6	106.8	109.3	109.0	108.0	106.4
Furniture and fixtures .....	107.9	108.4	107.2	108.3	110.6	111.7	113.8	109.3	116.5	117.6	117.0	115.0	113.9
Stone, clay, and glass products .....	105.4	104.9	104.1	103.3	103.2	106.7	107.0	104.3	105.4	108.0	110.7	109.6	110.1
Primary metal industries .....	90.9	89.0	88.2	89.0	89.7	89.5	89.7	89.5	91.2	90.9	90.8	92.1	92.4
Fabricated metal products .....	104.2	103.7	103.3	103.1	105.0	105.7	107.7	105.3	107.6	109.1	109.7	109.1	108.8
Machinery, except electrical .....	101.6	103.2	103.5	103.6	105.5	104.9	106.0	104.0	107.0	109.1	110.0	109.9	111.1
Electrical equipment and supplies .....	97.9	98.3	98.3	97.8	98.8	99.4	100.4	98.9	100.3	103.4	103.1	102.9	102.7
Transportation equipment .....	96.5	94.8	95.4	96.5	96.2	94.5	96.7	96.5	96.3	99.0	99.1	98.2	97.9
Instruments and related products .....	113.2	111.7	111.3	112.4	113.2	113.4	114.4	113.4	114.8	117.8	119.2	118.1	119.5
Miscellaneous manufacturing, Ind. ....	94.6	91.4	91.3	90.3	91.1	91.5	93.9	92.3	93.9	96.4	96.9	95.3	95.9
<b>NONDURABLE GOODS</b> .....	98.7	97.7	96.9	96.9	97.1	97.8	98.1	96.5	97.8	99.9	100.3	99.6	99.2
Food and kindred products .....	97.3	95.9	94.5	94.1	92.8	94.2	94.6	94.4	96.0	97.6	97.5	96.4	94.8
Tobacco manufactures .....	80.2	77.2	71.7	73.2	72.4	72.2	74.0	72.4	74.4	76.7	73.8	75.1	79.6
Textile mill products .....	99.7	99.9	98.9	99.4	100.2	101.4	100.8	99.3	100.4	101.3	101.2	100.6	99.9
Apparel and other textile products .....	89.8	87.6	87.8	87.2	87.8	88.6	89.0	84.2	87.2	89.4	90.8	89.9	89.5
Paper and allied products .....	101.1	100.3	99.4	99.7	100.2	99.6	100.8	99.3	100.2	103.1	103.7	103.5	102.8
Printing and publishing .....	95.3	95.6	95.1	95.7	95.7	95.9	95.9	94.6	95.3	97.4	97.6	95.9	96.7
Chemicals and allied products .....	103.8	103.7	103.4	103.0	102.6	103.0	103.5	103.8	104.5	105.5	105.2	106.0	106.6
Petroleum and coal products .....	121.6	119.9	120.4	120.8	122.8	124.8	125.7	126.6	127.8	128.6	127.2	125.1	125.4
Rubber and plastics products, nec .....	133.9	132.5	129.7	129.3	130.5	132.5	133.8	131.3	131.9	137.4	139.8	139.1	138.9
Leather and leather products .....	72.9	69.9	71.8	72.7	73.8	73.7	71.9	70.7	70.7	72.6	74.7	73.6	71.9
<b>SERVICE-PRODUCING</b> .....	125.6	125.8	126.1	126.4	127.2	127.5	128.2	127.6	127.8	129.4	129.7	129.7	129.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	104.1	103.1	103.5	103.9	102.9	105.1	105.6	103.5	105.4	106.3	105.6	105.5	105.2
<b>WHOLESALE AND RETAIL TRADE</b> .....	121.2	121.6	121.6	121.8	122.7	122.4	123.2	122.3	122.3	124.1	124.2	124.7	124.4
<b>WHOLESALE TRADE</b> .....	117.3	117.5	117.5	117.8	118.7	118.8	118.9	118.9	120.3	121.7	122.0	122.0	122.1
<b>RETAIL TRADE</b> .....	122.7	123.1	123.1	123.3	124.2	123.7	124.8	123.5	123.1	124.9	125.0	125.6	125.3
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	131.7	132.3	132.7	133.2	134.2	134.9	134.9	135.4	135.9	136.7	138.0	137.5	137.9
<b>SERVICES</b> .....	139.6	140.1	140.6	140.9	142.7	142.6	143.4	143.8	143.4	145.3	145.7	145.3	144.4

<sup>1</sup> For coverage of series, see footnote 1, table B-2.

p = preliminary.

**C-10. Hours of wage and salary workers<sup>1</sup> in nonagricultural establishments, by industry division**

Industry division	Millions of hours (Annual rate) <sup>2</sup>			Percent change		
	APRIL 1978	MAY 1978 <sup>p</sup>	JUNE 1978 <sup>p</sup>	June 1977 to June 1978	April 1978 to May 1978	May 1978 to June 1978
<b>TOTAL</b> .....	162,929	162,490	163,045	4.0	-0.3	0.3
<b>PRIVATE SECTOR</b> .....	132,014	131,585	132,066	4.1	-0.3	0.4
<b>MINING</b> .....	2,073	2,044	2,063	4.9	-1.4	0.9
<b>CONTRACT CONSTRUCTION</b> .....	8,241	8,118	8,490	13.4	-1.5	4.6
<b>MANUFACTURING</b> .....	42,370	42,268	42,248	3.0	-0.2	-0.0
<b>DURABLE GOODS</b> .....	25,440	25,408	25,443	4.5	-0.1	0.1
<b>NONDURABLE GOODS</b> .....	16,930	16,860	16,804	0.9	-0.4	-0.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	9,830	9,802	9,815	2.4	-0.3	0.1
<b>WHOLESALE AND RETAIL TRADE</b> .....	32,715	32,712	32,728	3.0	-0.0	0.0
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	8,991	8,932	8,983	4.8	-0.7	0.6
<b>SERVICES</b> .....	27,794	27,709	27,740	4.5	-0.3	0.1
<b>GOVERNMENT</b> .....	30,915	30,904	30,979	3.5	-0.0	0.2

<sup>1</sup> 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.

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

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

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

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1975		1976				1977				1978
	1976	1977	III	IV	I	II	III	IV	I	II	III	IV	I
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons	116.5	119.5	113.8	113.3	115.4	116.4	117.2	117.3	118.9	118.6	120.2	120.8	119.9
Output	126.9	134.7	120.6	121.8	124.9	126.7	127.7	128.4	131.3	134.0	135.7	137.7	137.3
Hours	108.9	112.7	106.0	107.5	108.2	108.9	109.0	109.5	110.5	113.0	113.0	113.9	114.5
Compensation per hour	196.5	214.0	181.1	184.6	190.5	194.4	198.6	202.8	208.3	211.6	216.0	220.0	227.5
Real compensation per hour	115.3	117.9	111.3	111.7	113.9	114.8	115.7	116.8	117.6	117.0	117.9	118.8	120.6
Unit labor costs	168.7	179.0	159.1	163.0	165.1	167.1	169.4	173.0	175.2	178.4	179.7	182.1	189.7
Unit nonlabor payments	159.9	164.9	159.8	159.0	158.7	160.5	160.8	159.5	160.4	163.0	167.0	169.0	162.9
Implicit price deflator	165.6	174.1	159.4	161.6	162.9	164.8	166.5	168.3	170.1	173.1	175.4	177.6	180.5
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons	114.3	116.9	112.0	111.0	112.9	114.4	115.2	114.7	116.0	116.3	117.4	118.0	117.2
Output	127.4	135.0	120.6	121.8	125.2	127.2	128.3	128.7	131.6	134.5	136.0	137.9	137.9
Hours	111.4	115.5	107.7	109.7	111.0	111.2	111.4	112.2	113.4	115.6	115.9	116.9	117.6
Compensation per hour	193.1	210.0	179.1	181.9	186.9	191.3	195.2	198.9	204.2	208.0	211.8	216.0	223.0
Real compensation per hour	113.3	115.7	110.1	110.1	111.7	112.9	113.7	114.5	115.3	115.0	115.7	116.6	118.2
Unit labor costs	168.9	179.7	160.0	163.9	165.6	167.1	169.5	173.3	176.0	178.9	180.5	183.0	190.2
Unit nonlabor payments	157.4	162.9	154.4	153.6	155.3	156.8	159.2	158.1	157.2	160.7	166.3	166.9	160.7
Implicit price deflator	165.0	173.9	158.1	160.3	162.1	163.6	166.0	168.1	169.6	172.7	175.6	177.5	180.2
<b>MANUFACTURING:</b>													
Output per hour of all persons	124.2	126.9	120.5	121.2	122.1	124.3	125.5	125.0	125.0	126.2	127.8	127.5	126.4
Output	120.0	127.1	111.2	114.3	117.8	119.9	121.1	121.2	123.0	126.5	128.3	129.4	129.2
Hours	96.6	100.1	92.3	94.3	96.4	96.5	96.5	97.0	98.4	100.3	100.4	101.5	102.3
Compensation per hour	194.8	212.0	180.8	183.5	189.0	193.7	196.7	200.0	206.1	210.1	213.6	217.8	225.4
Real compensation per hour	114.3	116.8	111.1	111.0	113.0	114.4	114.6	115.2	116.4	116.2	116.7	117.6	119.4
Unit labor costs	156.9	167.0	150.0	151.5	154.8	155.9	156.7	160.0	164.9	166.5	167.2	170.8	178.4
<b>DURABLE GOODS</b>													
Output per hour of all persons	120.3	122.2	116.8	116.8	118.0	120.7	121.9	120.8	120.3	122.1	123.2	122.6	121.0
Output	114.9	122.3	105.6	107.7	111.7	114.9	116.8	116.2	117.6	121.8	124.0	125.2	124.7
Hours	95.5	100.0	90.4	92.2	94.6	95.2	95.8	96.2	97.7	99.8	100.6	102.1	103.0
Compensation per hour	197.0	213.8	182.9	185.8	191.6	196.4	198.8	201.1	207.5	212.3	215.3	219.6	226.7
Real compensation per hour	115.5	117.8	112.4	112.4	114.5	116.0	115.8	115.9	117.2	117.4	117.6	118.6	120.1
Unit labor costs	163.7	174.9	156.6	159.1	162.4	162.8	163.1	166.6	172.5	173.9	174.8	179.0	187.3
<b>NONDURABLE GOODS</b>													
Output per hour of all persons	130.5	134.5	126.6	128.2	128.8	130.1	131.3	131.8	132.6	132.8	135.2	135.3	135.0
Output	128.3	134.9	120.3	124.9	127.6	128.1	128.1	129.4	131.7	134.2	135.3	136.2	136.6
Hours	98.3	100.3	95.0	97.4	99.1	98.4	97.5	98.2	99.3	101.1	100.0	100.6	101.1
Compensation per hour	191.7	208.9	178.3	180.8	185.5	189.9	193.4	198.4	204.0	206.6	210.6	214.3	222.8
Real compensation per hour	112.5	115.1	109.6	109.4	110.9	112.1	112.7	114.3	115.2	114.2	115.0	115.7	118.0
Unit labor costs	147.0	155.3	140.8	141.0	144.0	145.9	147.3	150.6	153.9	155.6	155.7	158.4	165.0
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour	117.2	119.9	115.4	114.8	116.2	117.5	118.0	117.2	118.9	119.4	120.7	121.1	120.5
Output	133.9	141.9	126.9	128.2	131.8	134.0	135.0	135.0	138.0	141.4	143.1	145.0	144.7
Hours	114.3	118.3	110.0	111.7	113.4	114.1	114.4	115.2	116.1	118.4	118.6	119.8	120.1
Compensation per hour	194.9	212.3	180.8	183.8	189.1	193.2	196.9	200.6	206.7	210.5	214.2	218.3	225.8
Real compensation per hour	114.3	117.0	111.1	111.2	113.0	114.0	114.7	115.5	116.7	116.4	117.0	117.9	119.6
Total unit costs	172.1	181.8	164.4	167.6	168.8	170.3	172.5	176.8	179.0	180.6	182.3	185.1	191.7
Unit labor costs	166.3	177.0	156.6	160.2	162.7	164.5	166.8	171.2	173.9	176.2	177.4	180.3	187.4
Unit nonlabor costs	190.1	196.8	188.5	190.6	187.7	188.3	190.1	194.1	195.0	194.3	197.5	200.1	205.2
Unit profits	113.2	115.5	111.2	107.8	113.1	115.0	117.7	107.0	103.7	115.5	123.1	119.1	97.9
Implicit price deflator	163.4	172.0	156.5	158.7	160.5	162.1	164.3	166.4	167.8	170.9	173.5	175.3	177.8

p=preliminary.

r=revised.

N.A. = Not available.

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	III 1976 to IV 1976	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	IV 1975 to IV 1976	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
<b>PRIVATE BUSINESS SECTOR:</b>												
Output per hour of all persons .....	0.2	5.7	-1.0	5.3	2.3	-2.9	3.5	3.0	1.9	2.5	3.0	0.9
Output .....	2.1	9.6	8.5	5.2	5.9	-1.0r	5.4	5.1	5.8	6.3	7.3	4.6
Hours .....	1.8	3.7	9.6	-0.2	3.5	2.0	1.8	2.1	3.8	3.7	4.1	3.7
Compensation per hour .....	8.9	11.3	6.5	8.4	7.7	14.4	9.9	9.4	8.8	8.8	8.5	9.2
Real compensation per hour .....	4.1	2.8	-2.1	3.2	2.9	6.1	4.6	3.3	1.9	2.0	1.7	2.5
Unit labor costs .....	8.7	5.3	7.5	2.9	5.3	17.8	6.1	6.2	6.8	6.1	5.3	8.3
Unit nonlabor payments .....	-3.3	2.4	6.6	10.2	4.9	-13.8	0.3	1.1	1.6	3.8	6.0	1.5
Implicit price deflator .....	4.6	4.4	7.2	5.2	5.2	6.6	4.1	4.5	5.1	5.3	5.5	6.1
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons .....	-1.6	4.7	0.8	3.8	2.3	-2.7	3.3	2.8	1.6	1.9	2.9	1.0
Output .....	1.3	9.5	8.8	4.8	5.7	-0.3	5.6	5.1	5.7	6.1	7.2	4.7
Hours .....	2.9	4.6	8.0	0.9	3.3	2.5	2.2	2.2	4.0	4.1	4.2	3.7
Compensation per hour .....	7.7	11.3	7.6	7.5	8.2	13.6	9.3	9.3	8.8	8.5	8.6	9.2
Real compensation per hour .....	3.0	2.7	-1.1	2.3	3.4	5.3	4.1	3.2	1.9	1.7	1.8	2.5
Unit labor costs .....	9.4	6.3	6.8	3.5	5.8	16.8	5.8	6.3	7.1	6.5	5.6	8.1
Unit nonlabor payments .....	-2.8	-2.2	9.0	14.8	1.4	-14.0	3.0	1.3	2.5	4.4	5.5	2.2
Implicit price deflator .....	5.3	3.5	7.5	7.0	4.3	6.1	4.9	4.6	5.6	5.8	5.6	6.2
<b>MANUFACTURING:</b>												
Output per hour of all persons .....	-1.6	0.1	3.8	5.2	-0.9	-3.5	3.1	2.3	1.5	1.8	2.0	1.1
Output .....	0.5	5.8	12.2	5.6	3.5	-0.5	6.1	4.4	5.5	5.9	6.7	5.1
Hours .....	2.1	5.7	8.1	.4	4.5	3.1	2.9	2.0	3.9	4.0	4.6	4.0
Compensation per hour .....	6.9	12.8	8.1	6.9	8.0	14.7	9.0	9.0	8.4	8.6	8.9	9.4
Real compensation per hour .....	2.2	4.1	-0.7	1.7	3.2	6.4	3.7	3.0	1.6	1.8	2.1	2.6
Unit labor costs .....	8.7	12.7	4.1	1.6	9.0	18.9	5.6	6.5	6.8	6.7	6.8	8.2
<b>DURABLE GOODS</b>												
Output per hour of all persons .....	-3.6	-1.5	6.1	3.5	-1.7	-5.1	3.4	1.9	1.2	1.1	1.6	0.6
Output .....	-2.0	4.8	15.4	7.2	4.0	-1.5	7.8	5.2	6.0	6.2	7.8	6.1
Hours .....	1.6	6.5	8.7	3.5	5.8	3.8	4.3	3.3	4.8	5.0	6.1	5.4
Compensation per hour .....	4.8	13.2	9.6	5.7	8.3	13.5	8.2	8.3	8.1	8.3	9.2	9.2
Real compensation per hour .....	0.2	4.5	0.7	0.7	3.4	5.3	3.1	2.3	1.2	1.5	2.3	2.5
Unit labor costs .....	8.7	15.0	3.3	2.1	10.1	19.7	4.7	6.2	6.8	7.2	7.5	8.6
<b>NONDURABLE GOODS</b>												
Output per hour of all persons .....	1.3	2.5	0.5	7.7	0.3	-1.0	2.8	2.9	2.0	3.0	2.7	1.8
Output .....	4.3	7.2	7.7	3.3	2.8	1.1	3.6	3.2	4.7	5.6	5.2	3.7
Hours .....	2.9	4.6	7.2	-4.1	2.5	2.1	0.8	0.3	2.7	2.5	2.4	1.8
Compensation per hour .....	10.7	11.8	5.3	7.9	7.3	16.6	9.7	10.0	8.8	8.9	8.0	9.2
Real compensation per hour .....	5.8	3.2	-3.2	2.7	2.5	8.2	4.5	3.9	1.9	2.1	1.3	2.5
Unit labor costs .....	9.2	9.0	4.7	0.2	7.0	17.8	6.8	6.8	6.7	5.7	5.2	7.2
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour .....	-2.9	6.0	1.9	4.4	1.1	-2.0	2.1	2.3	1.7	2.3	3.3	1.3
Output .....	-0.1	9.4	10.1	5.0	5.3	-1.0	5.3	4.7	5.5	6.1	7.5	4.8
Hours .....	2.9	3.3	8.1	0.6	4.2	1.0	3.1	2.4	3.8	3.7	4.0	3.4
Compensation per hour .....	7.7	12.8	7.5	7.2	8.0	14.4	9.1	9.3	9.0	8.8	8.9	9.2
Real compensation per hour .....	2.9	4.2	-1.2	2.1	3.2	6.0	3.9	3.3	2.0	2.0	2.0	2.5
Total unit costs .....	10.3	5.2	3.6	3.7	6.4	15.1	5.5	6.1	6.1	5.7	4.7	7.1
Unit labor costs .....	10.9	6.4	5.5	2.7	6.8	16.7	6.9	6.9	7.1	6.3	5.3	7.8
Unit nonlabor costs .....	8.9	1.7	-1.3	6.7	5.4	10.5	1.9	3.9	3.2	3.9	3.1	5.2
Unit profits .....	-31.7	-11.6	53.5	29.1	-12.3	-54.3	-0.7	-8.3	0.4	4.6	11.3	-5.6
Implicit price deflator .....	5.1	3.5	7.6	6.1	4.3	5.8	4.9	4.6	5.5	5.6	5.4	5.9

p=preliminary.  
r=revised.  
N.A. = Not available.

**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		
	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
<b>ALABAMA</b> .....	\$197.88	\$215.13	\$219.18	40.8	40.9	41.2	\$4.85	\$5.26	\$5.32
Birmingham .....	236.12	250.88	259.94	40.5	40.4	41.0	5.83	6.21	6.34
Mobile .....	237.84	257.70	258.67	41.8	41.1	40.8	5.69	6.27	6.34
<b>ALASKA</b> .....	391.55	464.07	515.36	44.8	46.5	48.3	8.74	9.98	10.67
<b>ARIZONA</b> .....	218.14	233.63	240.38	40.1	39.8	40.4	5.44	5.87	5.95
Phoenix .....	218.56	235.41	242.19	40.4	39.9	40.5	5.41	5.90	5.98
Tucson .....	220.70	220.25	218.18	39.2	39.4	39.1	5.63	5.59	5.58
<b>ARKANSAS</b> .....	167.56	183.08	184.27	39.8	39.8	39.8	4.21	4.60	4.63
Fayetteville-Springdale .....	152.02	165.48	164.97	39.9	39.4	39.0	3.81	4.20	4.23
Fort Smith .....	166.88	188.25	194.62	38.1	39.3	39.8	4.38	4.79	4.89
Little Rock-North Little Rock .....	195.91	208.28	207.50	40.9	39.9	39.3	4.79	5.22	5.28
Pine Bluff .....	204.60	233.24	232.11	41.5	41.8	41.3	4.93	5.58	5.62
<b>CALIFORNIA</b> .....	237.79	253.49	253.60	40.1	40.3	40.0	5.93	6.29	6.34
Anaheim-Santa Ana-Garden Grove .....	221.82	238.27	237.51	40.7	40.8	40.6	5.45	5.84	5.85
Bakersfield .....	251.65	274.19	277.26	40.2	40.5	40.3	6.26	6.77	6.88
Fresno .....	216.65	221.57	227.94	40.8	38.4	39.3	5.31	5.77	5.80
Los Angeles-Long Beach .....	223.41	237.69	237.37	40.4	40.7	40.3	5.53	5.84	5.89
Modesto .....	224.63	248.61	253.44	37.5	39.4	39.6	5.99	6.31	6.40
Oxnard-Simi Valley-Ventura .....	199.68	211.80	218.90	39.0	38.3	39.3	5.12	5.53	5.57
Riverside-San Bernardino-Ontario .....	240.20	259.94	257.26	39.9	40.3	39.7	6.02	6.45	6.48
Sacramento .....	247.92	262.36	268.66	38.2	38.3	38.6	6.49	6.85	6.96
Salinas-Seaside-Monterey .....	217.34	239.40	244.97	38.4	37.7	38.7	5.66	6.35	6.33
San Diego .....	224.23	239.85	240.79	38.2	39.0	38.9	5.87	6.15	6.19
San Francisco-Oakland .....	290.07	306.03	303.76	39.9	39.9	39.5	7.27	7.67	7.69
San Jose .....	257.75	272.00	273.88	39.9	40.0	40.1	6.46	6.80	6.83
Santa Barbara-Santa Maria-Lompoc .....	207.64	222.72	225.23	39.4	38.6	38.7	5.27	5.77	5.82
Santa Rosa .....	220.41	232.54	232.86	38.2	38.5	38.3	5.77	6.04	6.08
Stockton .....	249.38	274.22	274.79	37.9	39.4	39.2	6.58	6.96	7.01
Vallejo-Fairfield-Napa .....	242.65	258.23	262.82	38.7	38.2	37.6	6.27	6.76	6.99
<b>COLORADO</b> .....	225.72	244.11	244.73	39.6	39.5	39.6	5.70	6.18	6.18
Denver-Boulder .....	225.72	244.67	243.49	39.8	39.4	39.4	5.66	6.21	6.18
<b>CONNECTICUT</b> .....	229.08	246.87	(*)	41.5	42.2	(*)	5.52	5.85	(*)
Bridgeport .....	236.30	265.20	268.18	42.5	44.2	44.4	5.56	6.00	6.04
Hartford .....	254.07	274.52	271.14	42.7	43.3	42.7	5.95	6.34	6.35
New Britain .....	239.97	257.14	255.17	42.7	43.0	42.6	5.62	5.98	5.99
New Haven-West Haven .....	225.89	246.92	247.20	40.7	41.5	41.2	5.55	5.95	6.00
Stamford .....	233.23	242.67	246.20	42.1	41.2	41.8	5.54	5.89	5.89
Waterbury .....	195.52	211.42	216.15	41.6	42.2	42.3	4.70	5.01	5.11
<b>DELAWARE</b> .....	224.83	268.66	257.75	39.1	40.4	39.9	5.75	6.65	6.46
Wilmington .....	265.73	303.81	291.60	39.9	41.0	40.0	6.66	7.41	7.29
<b>DISTRICT OF COLUMBIA;</b> Washington SMSA .....	211.80	214.95	213.95	38.3	38.8	38.9	5.53	5.54	5.50
<b>FLORIDA</b> .....	185.14	201.87	202.37	40.6	40.7	40.8	4.56	4.96	4.96
Fort Lauderdale-Hollywood .....	183.87	197.41	192.04	41.6	41.3	40.6	4.42	4.78	4.73
Jacksonville .....	223.44	248.46	249.40	40.7	42.4	42.2	5.49	5.86	5.91
Miami .....	161.57	171.14	176.00	39.6	39.8	40.0	4.08	4.30	4.40
Orlando .....	200.28	216.94	220.81	41.9	41.4	41.9	4.78	5.24	5.27
Panama .....	229.27	259.62	264.74	42.3	42.7	43.4	5.42	6.08	6.10
Tampa-St. Petersburg .....	194.00	210.01	207.98	40.5	40.7	40.7	4.79	5.16	5.11
West Palm Beach-Boca Raton .....	212.13	233.10	241.53	40.1	41.7	42.9	5.29	5.59	5.63
<b>GEORGIA</b> .....	178.61	194.71	196.49	40.5	39.9	40.1	4.41	4.88	4.90
Atlanta .....	220.58	225.94	230.45	40.4	39.5	39.9	5.46	5.72	5.78
Savannah .....	233.60	258.77	252.66	43.1	43.2	41.9	5.42	5.99	6.03
<b>HAWAII</b> .....	205.53	235.82	222.88	37.1	39.5	38.1	5.54	5.97	5.85
Honolulu .....	198.74	233.58	214.02	36.2	38.8	36.9	5.49	6.02	5.80
<b>IDAHO</b> .....	218.66	236.56	244.44	38.7	39.1	38.8	5.65	6.05	6.30
Boise City .....	215.34	222.51	222.32	40.1	38.9	38.2	5.37	5.72	5.82

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		
	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
<b>ILLINOIS</b> .....	\$253.43	\$267.57	\$268.02	40.8	40.3	40.1	\$6.22	\$6.63	\$6.68
Bloomington—Normal .....	192.76	216.33	222.64	38.2	38.2	38.2	5.05	5.67	5.82
Champaign—Urbana—Rantoul .....	227.96	254.28	244.64	38.7	39.3	37.6	5.90	6.48	6.51
Chicago SMSA .....	260.14	266.93	266.81	41.8	41.3	41.1	6.22	6.46	6.49
Davenport—Rock Island—Moline .....	252.54	270.32	271.08	39.2	38.2	37.9	6.44	7.08	7.15
Decatur .....	256.18	290.22	290.57	39.2	41.8	41.3	6.53	6.95	7.04
Peoria .....	297.89	296.93	299.13	39.9	37.0	37.2	7.46	8.04	8.05
Rockford .....	250.52	275.92	273.40	41.6	41.8	41.5	6.03	6.60	6.59
Springfield .....	290.73	294.96	304.37	43.1	42.1	42.4	6.75	7.01	7.17
<b>INDIANA</b> .....	268.38	288.93	288.93	41.1	41.1	41.1	6.53	7.03	7.03
Gary—Hammond—East Chicago .....	353.22	388.84	(*)	41.9	41.5	(*)	8.43	9.36	(*)
Indianapolis .....	281.40	286.34	(*)	42.0	41.2	(*)	6.70	6.95	(*)
<b>IOWA</b> .....	252.40	272.28	274.40	40.0	40.1	40.0	6.31	6.79	6.86
Cedar Rapids .....	248.03	292.50	295.91	40.2	42.7	42.7	6.17	6.85	6.93
Des Moines .....	259.68	271.93	266.40	38.7	38.3	37.0	6.71	7.10	7.20
Dubuque .....	311.98	331.29	332.80	40.1	40.5	40.0	7.78	8.18	8.32
Sioux City .....	208.19	240.47	242.31	38.2	39.1	39.4	5.45	6.15	6.15
Waterloo—Cedar Falls .....	316.61	343.13	343.07	40.8	40.8	40.6	7.76	8.41	8.45
<b>KANSAS</b> .....	218.28	232.23	233.04	41.4	40.6	40.6	5.27	5.72	5.74
Topeka .....	235.28	235.77	249.49	42.9	39.1	40.7	5.49	6.03	6.13
Wichita .....	233.10	248.06	250.92	41.6	40.8	41.0	5.61	6.08	6.12
<b>KENTUCKY</b> .....	223.04	241.92	244.45	39.9	39.4	39.3	5.59	6.14	6.22
Louisville .....	255.20	267.05	287.58	40.0	39.1	41.2	6.38	6.83	6.98
<b>LOUISIANA</b> .....	240.19	261.40	263.11	41.7	41.1	41.5	5.76	6.36	6.34
Baton Rouge .....	307.88	339.70	339.39	43.0	43.0	43.4	7.16	7.90	7.82
New Orleans .....	236.47	247.56	252.10	40.7	39.8	40.4	5.81	6.22	6.24
Shreveport .....	212.40	224.80	231.90	42.0	40.0	40.9	5.05	5.62	5.67
<b>MAINE</b> .....	176.76	191.83	193.36	39.9	40.3	40.2	4.43	4.76	4.81
Lewiston—Auburn .....	145.16	157.03	161.02	37.9	38.3	38.8	3.83	4.10	4.15
Portland .....	182.80	191.12	196.66	40.0	39.9	40.3	4.57	4.79	4.88
<b>MARYLAND</b> .....	240.80	257.50	259.85	40.0	40.0	40.1	6.02	6.43	6.48
Baltimore .....	253.71	272.30	273.23	40.4	40.4	40.3	6.28	6.74	6.78
<b>MASSACHUSETTS</b> .....	200.55	219.78	214.80	39.4	40.7	40.0	5.09	5.40	5.37
Boston .....	221.20	243.60	242.60	39.5	40.6	40.5	5.60	6.00	5.99
Brockton .....	151.62	168.66	171.90	36.1	37.9	38.2	4.20	4.45	4.50
Fall River .....	135.38	163.44	161.62	33.1	37.4	36.9	4.09	4.37	4.38
Lawrence—Haverhill .....	199.60	213.33	212.26	40.0	39.8	39.6	4.99	5.36	5.36
Lowell .....	170.24	192.06	194.22	38.0	39.6	39.8	4.48	4.85	4.88
New Bedford .....	158.69	182.31	188.55	35.5	38.3	39.2	4.47	4.76	4.81
Springfield—Chicopee—Holyoke .....	213.93	228.11	225.36	41.3	41.4	41.2	5.18	5.51	5.47
Worcester .....	206.19	226.87	229.04	39.5	41.1	40.9	5.22	5.52	5.60
<b>MICHIGAN</b> .....	322.99	340.52	339.69	43.6	42.8	42.6	7.41	7.96	7.97
Ann Arbor .....	364.17	375.17	373.07	45.0	43.9	43.7	8.09	8.55	8.54
Battle Creek .....	302.27	334.99	327.09	41.6	42.5	41.8	7.27	7.88	7.83
Bay City .....	349.26	326.19	325.78	49.4	42.7	42.9	7.07	7.64	7.59
Detroit .....	343.13	364.66	367.48	43.5	42.8	43.0	7.89	8.52	8.55
Flint .....	395.18	403.06	390.55	47.6	45.6	44.3	8.30	8.84	8.82
Grand Rapids .....	247.83	271.80	270.63	41.1	41.7	41.4	6.03	6.52	6.54
Jackson .....	264.73	289.48	298.76	41.5	42.1	42.9	6.38	6.88	6.96
Kalamazoo—Portage .....	279.01	296.98	290.04	42.0	41.6	41.1	6.64	7.14	7.06
Lansing—East Lansing .....	356.55	353.90	366.60	45.6	42.5	43.2	7.82	8.33	8.49
Muskegon—Norton Shores—Muskegon Heights .....	258.76	285.92	289.59	41.5	41.3	41.4	6.24	6.92	7.00
Saginaw .....	393.80	415.46	414.60	46.4	45.6	45.6	8.49	9.11	9.09
<b>MINNESOTA</b> .....	235.81	254.87	252.97	39.9	40.2	39.9	5.91	6.34	6.34
Duluth—Superior .....	214.38	234.81	234.39	39.7	39.2	39.0	5.40	5.99	6.01
Minneapolis—St. Paul .....	252.63	274.85	271.49	40.1	40.9	40.4	6.30	6.72	6.72
<b>MISSISSIPPI</b> .....	164.39	178.94	178.42	39.9	39.5	39.3	4.12	4.53	4.54
Jackson .....	183.27	200.57	200.24	41.0	41.1	40.7	4.47	4.88	4.92

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		
	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
<b>MISSOURI</b> .....	\$228.07	\$245.81	\$244.59	40.8	40.1	39.9	\$5.59	\$6.13	\$6.13
Kansas City .....	265.85	274.59	270.00	41.8	40.5	40.0	6.36	6.78	6.75
St. Joseph .....	210.00	220.18	219.62	40.0	39.6	39.5	5.25	5.56	5.56
St. Louis .....	267.34	285.07	286.88	42.1	40.9	41.1	6.35	6.97	6.98
Springfield .....	180.50	197.25	198.66	38.0	38.6	38.5	4.75	5.11	5.16
<b>MONTANA</b> .....	262.06	323.04	327.96	41.4	44.9	44.2	6.33	7.53	7.42
<b>NEBRASKA</b> .....	215.91	236.57	235.50	41.0	41.0	41.1	5.27	5.77	5.73
Lincoln .....	209.13	227.18	226.40	38.9	38.9	38.9	5.38	5.84	5.82
Omaha .....	231.75	250.10	247.23	40.7	40.6	40.2	5.69	6.16	6.15
<b>NEVADA</b> .....	217.18	244.86	245.23	36.5	38.5	37.1	5.95	6.36	6.61
Las Vegas .....	283.20	313.58	(*)	40.0	40.1	(*)	7.08	7.82	(*)
<b>NEW HAMPSHIRE</b> .....	180.10	195.54	196.66	40.2	40.4	40.3	4.48	4.84	4.88
Manchester .....	161.58	172.62	173.31	39.7	39.5	39.3	4.07	4.37	4.41
Nashua .....	206.26	223.21	222.26	41.5	41.8	41.7	4.97	5.34	5.33
<b>NEW JERSEY</b> .....	237.06	254.59	251.94	41.3	41.6	41.1	5.74	6.12	6.13
Atlantic City .....	176.01	181.42	182.42	36.9	39.1	39.4	4.77	4.63	4.64
Camden <sup>2</sup> .....	224.80	249.48	249.90	40.0	40.5	40.7	5.62	6.16	6.14
Hackensack <sup>3</sup> .....	223.24	243.24	242.82	42.2	42.9	42.6	5.29	5.67	5.70
Jersey City <sup>3</sup> .....	224.40	245.02	241.16	40.0	40.3	39.6	5.61	6.08	6.09
New Brunswick—Perth Amboy—Sayreville <sup>3</sup> .....	254.75	265.28	265.17	41.9	40.5	40.3	6.08	6.55	6.58
Newark <sup>3</sup> .....	245.86	257.46	255.84	42.1	42.0	41.6	5.84	6.13	6.15
Paterson—Clifton—Passaic <sup>3</sup> .....	222.77	247.71	239.85	40.8	42.2	41.0	5.46	5.87	5.85
Trenton .....	243.95	256.14	261.87	41.0	40.4	40.6	5.95	6.34	6.45
<b>NEW MEXICO</b> .....	163.81	186.84	190.24	37.4	39.5	39.8	4.38	4.73	4.78
Albuquerque .....	165.06	192.76	185.10	37.6	41.1	39.3	4.39	4.69	4.71
<b>NEW YORK</b> .....	222.16	239.60	(*)	39.6	40.0	(*)	5.61	5.99	(*)
Albany—Schenectady—Troy .....	240.94	256.88	(*)	40.7	40.2	(*)	5.92	6.39	(*)
Binghamton .....	198.00	214.43	(*)	40.0	41.0	(*)	4.95	5.23	(*)
Buffalo .....	301.44	315.95	(*)	42.1	41.3	(*)	7.16	7.65	(*)
Elmira .....	224.00	239.76	(*)	40.0	40.5	(*)	5.60	5.92	(*)
Monroe County <sup>4</sup> .....	286.90	314.91	(*)	41.7	42.1	(*)	6.88	7.48	(*)
Nassau—Suffolk <sup>5</sup> .....	212.51	223.11	(*)	39.5	39.7	(*)	5.38	5.62	(*)
New York—Northeastern New Jersey .....	214.24	230.00	(*)	39.6	40.0	(*)	5.41	5.75	(*)
New York and Nassau—Suffolk <sup>3</sup> .....	195.70	210.60	(*)	38.0	38.5	(*)	5.15	5.47	(*)
New York SMSA <sup>5</sup> .....	194.67	207.81	(*)	37.8	38.2	(*)	5.15	5.44	(*)
New York City <sup>6</sup> .....	191.63	203.58	(*)	37.5	37.7	(*)	5.11	5.40	(*)
Poughkeepsie .....	227.56	243.80	(*)	41.3	42.4	(*)	5.51	5.75	(*)
Rochester .....	272.66	297.32	(*)	41.5	41.7	(*)	6.57	7.13	(*)
Rockland County <sup>6</sup> .....	217.05	241.50	(*)	41.5	42.0	(*)	5.23	5.75	(*)
Syracuse .....	251.08	268.51	(*)	41.5	41.5	(*)	6.05	6.47	(*)
Utica—Rome .....	211.58	231.96	(*)	40.3	41.2	(*)	5.25	5.63	(*)
Westchester County <sup>6</sup> .....	220.15	246.65	(*)	40.1	42.6	(*)	5.49	5.79	(*)
<b>NORTH CAROLINA</b> .....	159.60	173.49	173.49	39.8	39.7	39.7	4.01	4.37	4.37
Asheville .....	156.41	167.84	171.17	39.9	39.4	39.9	3.92	4.26	4.29
Charlotte—Gastonia .....	166.85	179.93	179.96	41.3	40.8	40.9	4.04	4.41	4.40
Greensboro—Winston-Salem—High Point .....	174.44	186.44	186.44	40.1	39.5	39.5	4.35	4.72	4.72
Raleigh—Durham .....	176.79	193.95	194.13	39.2	39.5	39.7	4.51	4.91	4.89
<b>NORTH DAKOTA</b> <sup>7</sup> .....	(*)	206.44	211.46	(*)	38.3	38.8	(*)	5.39	5.45
Fargo—Moorhead <sup>7</sup> .....	(*)	228.72	237.21	(*)	38.7	39.8	(*)	5.91	5.96
<b>OHIO</b> .....	281.05	299.46	300.00	42.2	42.0	41.9	6.66	7.13	7.16
Akron .....	279.60	300.04	306.45	42.3	42.2	42.8	6.61	7.11	7.16
Canton .....	274.32	292.87	295.32	40.7	39.9	39.8	6.74	7.34	7.42
Cincinnati .....	259.79	281.47	278.81	41.7	42.2	41.8	6.23	6.67	6.67
Cleveland .....	291.17	312.99	317.34	43.2	42.7	43.0	6.74	7.33	7.38
Columbus .....	244.42	257.52	256.64	40.4	40.3	40.1	6.05	6.39	6.40
Dayton .....	305.86	304.98	310.00	44.2	42.3	42.7	6.92	7.21	7.26
Toledo .....	295.32	309.12	308.07	42.8	42.0	41.8	6.90	7.36	7.37
Youngstown—Warren .....	317.18	350.70	351.54	41.3	42.0	42.1	7.68	8.35	8.35

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		
	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
<b>OKLAHOMA</b> .....	\$211.29	\$224.72	\$230.17	40.4	40.2	40.1	\$5.23	\$5.59	\$5.74
Oklahoma City .....	207.66	224.37	227.77	40.4	40.5	40.6	5.14	5.54	5.61
Tulsa .....	231.09	237.80	246.02	40.4	39.9	40.2	5.72	5.96	6.12
<b>OREGON</b> .....	253.37	275.34	275.48	39.1	39.0	38.8	6.48	7.06	7.10
Eugene—Springfield .....	272.83	303.69	(*)	40.6	40.6	(*)	6.72	7.48	(*)
Jackson County .....	253.55	275.97	(*)	38.3	39.2	(*)	6.62	7.04	(*)
Portland .....	247.29	264.27	263.96	38.7	38.3	38.2	6.39	6.80	6.91
<b>PENNSYLVANIA</b> .....	229.28	248.40	249.77	39.6	40.0	39.9	5.79	6.21	6.26
Allentown—Bethlehem—Easton .....	222.50	237.50	240.41	38.1	38.0	38.1	5.84	6.25	6.31
Altoona .....	190.30	209.21	214.40	38.6	38.6	38.7	4.93	5.42	5.54
Delaware Valley .....	238.40	258.40	258.15	39.8	40.0	39.9	5.99	6.46	6.47
Erie .....	234.52	255.44	258.13	41.0	41.2	41.5	5.72	6.20	6.22
Harrisburg .....	206.00	223.28	225.76	40.0	39.8	40.1	5.15	5.61	5.63
Johnstown .....	254.67	263.74	264.13	39.0	39.6	39.6	6.53	6.66	6.67
Lancaster .....	207.03	222.60	222.96	40.2	40.4	40.1	5.15	5.51	5.56
Northeast Pennsylvania .....	167.08	181.65	188.47	36.4	37.3	37.1	4.59	4.87	5.08
Philadelphia SMSA .....	(*)	257.44	256.80	(*)	40.1	40.0	(*)	6.42	6.42
Pittsburgh .....	285.82	303.46	302.00	40.6	40.3	40.0	7.04	7.53	7.55
Reading .....	208.54	219.26	226.00	39.2	38.4	39.1	5.32	5.71	5.78
Scranton .....	178.13	189.91	190.61	37.9	38.6	38.9	4.70	4.92	4.90
Wilkes-Barre—Hazleton .....	158.85	176.06	172.91	35.3	36.3	35.8	4.50	4.85	4.83
Williamsport .....	191.57	218.10	215.60	38.7	39.8	39.2	4.95	5.48	5.50
York .....	209.10	235.06	234.35	41.0	41.9	41.7	5.10	5.61	5.62
<b>RHODE ISLAND</b> .....	168.78	182.42	182.35	38.8	39.4	39.3	4.35	4.63	4.64
Providence—Warwick—Pawtucket .....	170.88	184.61	184.54	39.1	39.7	39.6	4.37	4.65	4.66
<b>SOUTH CAROLINA</b> .....	170.13	185.23	184.32	40.7	40.8	40.6	4.18	4.54	4.54
Charleston—North Charleston .....	191.47	212.18	213.72	41.0	41.2	41.5	4.67	5.15	5.15
Columbia .....	173.17	179.66	180.25	39.9	39.4	39.1	4.34	4.56	4.61
Greenville—Spartanburg .....	168.90	183.11	182.20	40.7	40.6	40.4	4.15	4.51	4.51
<b>SOUTH DAKOTA</b> .....	193.03	209.30	212.25	39.8	41.2	41.7	4.85	5.08	5.09
Rapid City .....	192.51	169.40	170.39	41.4	35.0	36.1	4.65	4.84	4.72
Sioux Falls .....	241.44	263.95	267.89	41.7	43.2	45.1	5.79	6.11	5.94
<b>TENNESSEE</b> .....	184.00	201.00	202.61	40.0	40.2	40.2	4.60	5.00	5.04
Chattanooga .....	195.98	203.00	208.18	41.0	40.6	40.9	4.78	5.00	5.09
Knoxville .....	217.46	238.76	239.32	40.8	40.4	40.7	5.33	5.91	5.88
Memphis .....	215.59	224.80	226.97	40.6	40.0	40.1	5.31	5.62	5.66
Nashville—Davidson .....	198.00	216.81	214.12	39.6	40.3	39.8	5.00	5.38	5.38
<b>TEXAS</b> .....	219.06	237.56	237.22	41.1	41.1	40.9	5.33	5.78	5.80
Amarillo .....	225.35	246.84	238.78	42.6	44.0	44.3	5.29	5.61	5.39
Austin .....	179.17	193.58	193.07	41.0	43.5	43.0	4.37	4.45	4.49
Beaumont .....	306.83	335.67	336.31	39.9	40.2	39.8	7.69	8.35	8.45
Corpus Christi .....	244.39	248.35	263.08	40.8	39.8	41.3	5.99	6.24	6.37
Dallas—Fort Worth .....	202.19	215.71	215.18	40.6	40.7	40.6	4.98	5.30	5.30
El Paso .....	147.41	161.02	174.27	39.1	38.8	38.3	3.77	4.15	4.55
Galveston—Texas City .....	345.35	382.81	379.73	42.9	43.7	43.2	8.05	8.76	8.79
Houston .....	276.05	304.15	305.03	42.6	43.7	43.7	6.48	6.96	6.98
Lubbock .....	161.96	175.82	177.53	40.9	40.7	41.0	3.96	4.32	4.33
San Antonio .....	168.92	169.88	177.66	41.2	39.6	38.9	4.10	4.29	4.31
Waco .....	181.97	196.21	200.00	40.8	39.4	40.0	4.46	4.98	5.00
Wichita Falls .....	184.84	214.61	214.73	37.8	40.8	40.9	4.89	5.26	5.25
<b>UTAH</b> .....	204.14	216.54	216.54	39.9	39.3	39.3	5.12	5.51	5.51
Salt Lake City—Ogden .....	193.52	205.37	204.73	39.6	39.8	39.6	4.89	5.16	5.17
<b>VERMONT</b> .....	191.12	204.35	203.50	41.1	41.2	40.7	4.65	4.96	5.00
Burlington .....	218.82	236.43	225.36	42.0	42.6	41.2	5.21	5.55	5.47
Springfield .....	216.94	234.50	238.85	41.4	42.1	42.5	5.24	5.57	5.62
<b>VIRGINIA</b> .....	186.53	198.20	198.70	40.2	39.8	39.9	4.64	4.98	4.98
Bristol .....	159.71	179.71	179.02	38.3	38.4	38.5	4.17	4.68	4.65
Lynchburg .....	177.64	194.64	193.65	39.3	39.4	39.2	4.52	4.94	4.94
Norfolk—Virginia Beach—Portsmouth .....	217.51	235.61	231.01	42.4	42.3	41.4	5.13	5.57	5.58
Northern Virginia .....	211.60	241.59	232.62	40.0	40.4	39.9	5.29	5.98	5.83
Petersburg-Colonial Heights-Hopewell .....	220.35	237.78	238.32	39.0	38.6	38.5	5.65	6.16	6.19

See footnotes at end of table.

**ESTABLISHMENTS 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		
	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P	MAY 1977	APR. 1978	MAY 1978P
<b>VIRGINIA—Continued</b>									
Richmond .....	\$214.06	\$238.39	\$242.53	38.5	39.6	39.5	\$5.56	\$6.02	\$6.14
Roanoke .....	163.59	182.11	180.58	39.9	40.2	39.6	4.10	4.53	4.56
<b>WASHINGTON</b>	261.86	290.03	287.82	39.2	39.3	39.0	6.68	7.38	7.38
Seattle—Everette .....	262.64	293.28	295.96	39.2	39.0	39.2	6.70	7.52	7.55
Spokane .....	225.02	248.32	245.38	38.4	38.8	38.4	5.86	6.40	6.39
Tacoma .....	266.51	294.08	302.61	39.6	38.9	39.3	6.73	7.56	7.70
<b>WEST VIRGINIA</b>	237.58	259.05	259.35	40.2	40.1	39.9	5.91	6.46	6.50
Charleston .....	270.34	298.07	306.13	41.4	42.1	42.4	6.53	7.08	7.22
Huntington—Ashland .....	259.77	291.77	292.25	39.3	40.3	40.2	6.61	7.24	7.27
Parkersburg—Marietta .....	250.29	266.67	272.80	40.5	40.9	40.9	6.18	6.52	6.67
Wheeling .....	244.73	273.06	269.78	41.2	41.0	41.0	5.94	6.66	6.58
<b>WISCONSIN</b>	247.60	267.81	267.73	40.6	40.8	40.9	6.10	6.56	6.55
Appleton—Oshkosh .....	240.29	264.49	264.43	42.0	42.0	42.0	5.73	6.29	6.29
Eau Claire .....	251.89	261.07	266.29	41.5	40.8	40.8	6.07	6.41	6.53
Green Bay .....	258.46	272.60	272.29	42.4	41.5	41.0	6.10	6.57	6.64
Kenosha .....	279.46	292.67	300.15	39.5	39.0	40.0	7.07	7.50	7.50
La Crosse .....	214.44	213.61	220.83	40.7	40.3	41.0	5.27	5.30	5.39
Madison .....	268.03	267.96	272.16	40.1	39.5	39.4	6.69	6.79	6.90
Milwaukee .....	268.62	294.03	288.87	40.4	41.0	40.4	6.65	7.17	7.16
Racine .....	261.05	297.96	297.49	40.1	42.0	41.7	6.51	7.10	7.14
<b>WYOMING</b>	228.15	235.43	237.74	39.0	33.3	38.1	5.85	7.07	6.24
Casper .....	286.82	271.43	276.30	40.8	38.5	41.3	7.03	7.05	6.69
Cheyenne .....	229.22	245.15	237.24	41.3	37.2	36.0	5.55	6.59	6.59

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

<sup>10</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.  
<sup>11</sup> 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.
<b>Total accessions</b>													
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	p4.7							
<b>New hires</b>													
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	p3.6							
<b>Recalls</b>													
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	p.7							
<b>Total separations</b>													
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	p3.6							
<b>Quits</b>													
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	p2.1							
<b>Layoffs</b>													
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	p.7							

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	
		Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>
-	<b>MANUFACTURING</b>	4.0	4.7	2.9	3.6	0.8	0.7	3.5	3.6	2.0	2.1	0.7	0.7
19,24,25,32-39	DURABLE GOODS	3.8	4.4	2.7	3.4	.7	.6	3.1	3.3	1.7	1.8	.6	.5
20-23,26-31	NONDURABLE GOODS	4.2	5.1	3.1	3.9	.9	.9	4.1	4.2	2.3	2.5	1.0	.9
	DURABLE GOODS												
19	ORDNANCE AND ACCESSORIES	1.8	2.1	1.3	1.7	.2	.2	1.7	2.1	.6	.7	.6	.7
192	Ammunition, except for small arms	1.7	-	1.0	-	.3	-	1.7	-	.5	-	.8	-
24	LUMBER AND WOOD PRODUCTS	6.2	7.4	4.7	6.0	1.3	1.1	5.0	5.0	3.3	3.6	.6	.4
242	Sawmills and planing mills	4.9	-	4.2	-	.6	-	4.8	-	3.3	-	.6	-
2421	Sawmills and planing mills, general	4.5	-	3.7	-	.6	-	4.5	-	2.9	-	.7	-
243	Millwork, plywood and related products	7.1	-	5.3	-	1.3	-	5.0	-	3.5	-	.3	-
2431	Millwork	6.9	-	5.4	-	.9	-	5.5	-	3.9	-	.4	-
2432	Veneer and plywood	3.8	-	3.3	-	.4	-	3.7	-	2.6	-	.3	-
244	Wooden containers	9.2	-	7.0	-	2.1	-	7.0	-	5.1	-	.5	-
2441,2	Wooden boxes, shock, and crates	9.8	-	7.1	-	2.6	-	7.4	-	5.1	-	.7	-
249	Miscellaneous wood products	5.2	-	4.4	-	.6	-	4.8	-	3.4	-	.3	-
25	FURNITURE AND FIXTURES	5.4	6.4	4.8	5.8	.4	.4	5.3	6.0	3.8	4.3	.4	.4
251	Household furniture	5.6	-	5.1	-	.3	-	5.8	-	4.3	-	.4	-
2511	Wood household furniture	5.8	-	5.3	-	.2	-	5.9	-	4.4	-	.2	-
2512	Upholstered household furniture	5.0	-	4.7	-	.2	-	5.1	-	4.0	-	.4	-
2515	Mattresses and bedsprings	6.2	-	5.1	-	.5	-	5.4	-	3.5	-	.4	-
252	Office furniture	3.8	-	3.4	-	.4	-	3.5	-	2.4	-	.3	-
32	STONE, CLAY, AND GLASS PRODUCTS	5.3	5.3	3.5	4.2	1.6	.9	3.4	3.5	1.9	2.0	.6	.6
321	Flat glass	2.5	-	.9	-	.8	-	1.0	-	.4	-	.1	-
322	Glass and glassware, pressed or blown	3.3	-	1.7	-	1.2	-	2.9	-	1.0	-	.9	-
3221	Glass containers	3.3	-	2.0	-	1.0	-	3.0	-	1.2	-	1.1	-
3229	Pressed and blown glass, nec	3.3	-	1.4	-	1.4	-	2.8	-	.8	-	.7	-
324	Cement, hydraulic	3.2	-	1.0	-	2.1	-	1.0	-	.4	-	.1	-
325	Structural clay products	7.0	-	5.2	-	1.7	-	4.9	-	3.6	-	.4	-
3251	Brick and structural clay tile	9.4	-	7.1	-	2.2	-	6.4	-	5.0	-	.1	-
326	Pottery and related products	3.9	-	3.4	-	.4	-	4.0	-	2.1	-	.7	-
3291	Abrasive products	2.3	-	1.8	-	.3	-	2.0	-	1.0	-	.3	-
33	PRIMARY METAL INDUSTRIES	2.9	3.9	1.7	2.5	1.0	.9	2.1	2.1	.8	.9	.5	.3
331	Blast furnace and basic steel products	3.0	-	1.1	-	1.6	-	1.7	-	.3	-	.5	-
3312	Blast furnaces and steel mills	3.1	-	1.0	-	1.7	-	1.6	-	.2	-	.5	-
332	Iron and steel foundries	3.2	-	2.5	-	.6	-	2.8	-	1.5	-	.4	-
3321	Gray iron foundries	2.9	-	2.3	-	.4	-	2.6	-	1.5	-	.3	-
3322	Malleable iron foundries	3.2	-	1.6	-	1.2	-	3.1	-	1.4	-	1.0	-
3323	Steel foundries	4.1	-	3.2	-	.7	-	3.1	-	1.4	-	.5	-
333,4	Nonferrous metals	2.3	-	1.8	-	.4	-	2.2	-	.8	-	.6	-
335	Nonferrous rolling and drawing	2.3	-	1.6	-	.3	-	1.7	-	.8	-	.2	-
3351	Copper rolling and drawing	2.5	-	2.2	-	.1	-	2.5	-	1.3	-	.4	-
3352	Aluminum rolling and drawing	2.0	-	1.6	-	.3	-	1.1	-	.5	-	.1	-
3357	Nonferrous wire drawing, and insulating	2.3	-	1.3	-	.3	-	1.8	-	.9	-	.2	-
336	Nonferrous foundries	4.1	-	3.0	-	.8	-	3.9	-	2.0	-	.9	-
3361	Aluminum castings	3.9	-	2.7	-	.6	-	3.9	-	2.0	-	.9	-
3362,9	Other nonferrous castings	4.4	-	3.2	-	.9	-	4.0	-	2.0	-	.8	-
339	Miscellaneous primary metal products	2.5	-	2.0	-	.3	-	2.0	-	1.1	-	.2	-
3391	Iron and steel forgings	2.5	-	1.8	-	.4	-	2.0	-	1.0	-	.3	-
34	FABRICATED METAL PRODUCTS	4.2	4.9	3.1	3.9	.8	.7	3.6	3.9	2.0	2.2	.7	.7
341	Metal cans	4.4	-	1.3	-	2.5	-	3.3	-	.6	-	1.6	-
342	Cutlery, hand tools, and hardware	3.4	-	2.7	-	.3	-	2.9	-	1.8	-	.3	-
3421,3,5	Cutlery and hand tools, incl. saws	2.9	-	2.6	-	.2	-	2.5	-	1.5	-	.3	-
3429	Hardware, nec	3.7	-	2.8	-	.4	-	3.2	-	2.0	-	.4	-
343	Plumbing and heating, except electric	3.2	-	2.6	-	.5	-	3.2	-	1.7	-	.7	-
3431,2	Sanitary ware and plumbers' brass goods	2.7	-	2.0	-	.7	-	2.8	-	1.4	-	.7	-
3433	Heating equipment, except electric	3.7	-	3.2	-	.4	-	3.6	-	1.9	-	.7	-
344	Fabricated structural metal products	4.9	-	3.6	-	1.0	-	4.2	-	2.4	-	.9	-
3441	Fabricated structural steel	5.3	-	3.7	-	1.5	-	4.4	-	2.4	-	1.1	-
3443	Fabricated plate work (boiler shops)	2.9	-	1.9	-	.6	-	2.6	-	1.3	-	.6	-
3446,9	Architectural and misc. metal work	5.7	-	4.4	-	1.1	-	4.0	-	2.6	-	.6	-
345	Screw machine products, bolts, etc.	3.2	-	2.7	-	.4	-	3.2	-	1.9	-	.5	-
3452	Bolts, nuts, rivets, and washers	2.8	-	2.0	-	.5	-	2.5	-	1.3	-	.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	
		Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>
	<b>DURABLE GOODS — Continued</b>												
	<b>FABRICATED METAL PRODUCTS — Continued</b>												
346	Metal stampings .....	4.2	-	2.4	-	1.0	-	3.0	-	1.5	-	0.7	-
348	Miscellaneous fabricated wire products .....	4.9	-	4.1	-	.6	-	4.1	-	2.8	-	.3	-
349	Miscellaneous fabricated metal products .....	3.2	-	2.7	-	.4	-	3.1	-	1.8	-	.5	-
3494,8	Valves, pipe, and pipe fittings .....	2.6	-	2.1	-	.4	-	2.7	-	1.5	-	.4	-
35	<b>MACHINERY, EXCEPT ELECTRICAL .....</b>	2.7	3.5	2.1	2.6	.4	.5	2.5	2.4	1.2	1.3	.5	0.3
351	Engines and turbines .....	1.6	-	.7	-	.3	-	2.8	-	.4	-	1.4	-
3511	Steam engines and turbines .....	1.9	-	.7	-	.2	-	1.7	-	.4	-	.1	-
3519	Internal combustion engines, nec .....	1.5	-	.7	-	.3	-	3.4	-	.4	-	2.1	-
352	Farm machinery .....	3.1	-	1.9	-	.8	-	3.8	-	1.4	-	1.3	-
353	Construction and related machinery .....	2.5	-	2.1	-	.3	-	2.0	-	1.1	-	.2	-
3531,2	Construction and mining machinery .....	2.2	-	1.7	-	.4	-	1.5	-	.7	-	.3	-
3533	Oil field machinery .....	3.3	-	3.0	-	.1	-	2.8	-	1.8	-	.1	-
3535,6	Conveyors, hoists, cranes, monorails .....	2.1	-	1.6	-	.4	-	2.3	-	1.2	-	.5	-
354	Metal working machinery .....	2.7	-	2.2	-	.3	-	2.5	-	1.4	-	.4	-
3541	Machine tools, metal cutting types .....	1.6	-	1.5	-	.1	-	1.4	-	.8	-	.1	-
3545	Machine tool accessories .....	2.8	-	2.3	-	.3	-	2.2	-	1.5	-	.1	-
3542,8	Miscellaneous metal working machinery .....	2.5	-	1.9	-	.5	-	2.6	-	1.3	-	.7	-
355	Special industry machinery .....	2.5	-	1.9	-	.4	-	2.1	-	1.2	-	.3	-
3551	Food products machinery .....	2.5	-	1.9	-	.5	-	2.0	-	1.1	-	.3	-
3552	Textile machinery .....	3.3	-	2.3	-	.8	-	3.1	-	1.7	-	.6	-
356	General industrial machinery .....	2.3	-	1.7	-	.3	-	2.2	-	1.1	-	.5	-
3561	Pumps and compressors .....	1.9	-	1.5	-	.2	-	1.7	-	.9	-	.2	-
3562	Ball and roller bearings .....	1.9	-	1.2	-	.3	-	1.7	-	.6	-	.2	-
3566	Power transmission equipment .....	2.4	-	1.9	-	.2	-	1.8	-	1.1	-	.1	-
357	Office and computing machines .....	2.5	-	2.1	-	.1	-	1.8	-	1.1	-	.1	-
3573	Electronic computing equipment .....	2.6	-	2.2	-	.1	-	1.8	-	1.1	-	( <sup>1</sup> )	-
358	Service industry machines .....	3.8	-	3.0	-	.3	-	3.5	-	1.5	-	.8	-
3585	Refrigeration machinery .....	3.7	-	3.0	-	.2	-	3.9	-	1.5	-	1.0	-
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES .....</b>	3.2	3.9	2.3	3.0	.4	.4	2.9	3.1	1.4	1.6	.5	.
361	Electric test and distributing equipment .....	2.8	-	2.2	-	.2	-	2.5	-	1.4	-	.2	-
3611	Electric measuring instruments .....	3.0	-	2.6	-	.1	-	1.9	-	1.4	-	( <sup>1</sup> )	-
3612	Transformers .....	3.1	-	2.3	-	.2	-	2.9	-	1.3	-	.2	-
3613	Switchgear and switchboard apparatus .....	2.4	-	1.6	-	.3	-	2.7	-	1.4	-	.3	-
362	Electrical industrial apparatus .....	2.4	-	1.8	-	.3	-	2.5	-	1.3	-	.4	-
3621	Motors and generators .....	2.3	-	1.9	-	.1	-	2.5	-	1.4	-	.4	-
3622	Industrial controls .....	2.5	-	1.5	-	.5	-	2.4	-	1.0	-	.3	-
363	Household appliances .....	5.2	-	3.7	-	.9	-	3.8	-	1.8	-	.8	-
3632	Household refrigerators and freezers .....	8.1	-	5.3	-	1.9	-	4.9	-	1.6	-	1.7	-
3633	Household laundry equipment .....	1.8	-	1.2	-	.1	-	1.2	-	.5	-	( <sup>1</sup> )	-
3634	Electric housewares and fans .....	5.7	-	4.7	-	.6	-	4.9	-	2.8	-	1.0	-
364	Electric lighting and wiring equipment .....	3.0	-	2.2	-	.4	-	2.8	-	1.4	-	.5	-
3641	Electric lamps .....	2.0	-	1.3	-	.1	-	2.6	-	.6	-	.8	-
3642	Lighting fixtures .....	3.9	-	3.0	-	.4	-	3.2	-	2.0	-	.5	-
3643,4	Wiring devices .....	2.9	-	2.0	-	.5	-	2.6	-	1.3	-	.5	-
365	Radio and TV receiving equipment .....	5.1	-	2.4	-	1.4	-	5.4	-	1.3	-	2.0	-
366	Communication equipment .....	1.9	-	1.4	-	.2	-	1.9	-	.8	-	.4	-
3661	Telephone and telegraph apparatus .....	.8	-	.6	-	.1	-	1.7	-	.6	-	.7	-
3662	Radio and TV communication equipment .....	2.5	-	1.8	-	.2	-	2.0	-	1.0	-	.3	-
367	Electronic components and accessories .....	3.5	-	2.9	-	.3	-	3.3	-	1.9	-	.4	-
3671-3	Electron tubes .....	2.9	-	1.9	-	.3	-	2.4	-	1.0	-	.2	-
3674,9	Other electronic components .....	3.6	-	3.0	-	.3	-	3.4	-	2.0	-	.4	-
369	Miscellaneous electrical equipment and supplies .....	3.6	-	2.1	-	.8	-	2.4	-	1.3	-	.4	-
3694	Engine electrical equipment .....	3.4	-	1.9	-	.5	-	1.8	-	1.1	-	.1	-
37	<b>TRANSPORTATION EQUIPMENT .....</b>	4.3	-	2.8	-	1.0	-	3.2	-	1.5	-	.7	-
371	Motor vehicles and equipment .....	3.4	-	2.1	-	.7	-	2.1	-	1.0	-	.2	-
3711	Motor vehicles .....	3.9	-	2.6	-	.4	-	2.1	-	1.0	-	.2	-
3712	Passenger car bodies .....	.9	-	.4	-	.1	-	1.4	-	.8	-	.2	-
3713	Truck and bus bodies .....	5.1	-	4.2	-	.9	-	3.0	-	2.1	-	.2	-
3714	Motor vehicle parts and accessories .....	2.9	-	1.3	-	1.0	-	1.9	-	.7	-	.3	-
372	Aircraft and parts .....	2.4	-	1.7	-	.4	-	1.6	-	.8	-	.3	-
3721	Aircraft .....	2.4	-	1.5	-	.5	-	1.4	-	.6	-	.2	-
3722	Aircraft engines and engine parts .....	1.9	-	1.4	-	.2	-	1.1	-	.5	-	.1	-
3723,9	Other aircraft parts and equipment .....	3.1	-	2.6	-	.3	-	2.9	-	1.5	-	.5	-
373	Ship and boat building and repairing .....	7.1	-	4.0	-	2.6	-	7.5	-	2.8	-	3.3	-
3731	Ship building and repairing .....	7.0	-	3.3	-	3.2	-	7.8	-	2.4	-	4.0	-
374	Railroad equipment .....	3.3	-	1.4	-	1.1	-	3.3	-	.7	-	1.4	-
375,9	Other transportation equipment .....	11.3	-	8.5	-	2.6	-	7.5	-	5.2	-	.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	
		Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>
<b>DURABLE GOODS — Continued</b>													
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	2.6	3.4	2.2	2.7	0.2	0.3	2.3	2.3	1.3	1.3	0.3	0.3
381	Engineering and scientific instruments	2.2	-	2.0	-	.2	-	1.9	-	1.4	-	.1	-
382	Mechanical measuring and control devices	2.4	-	1.9	-	.2	-	2.4	-	1.2	-	.4	-
3821	Mechanical measuring devices	2.3	-	1.9	-	.2	-	2.5	-	1.2	-	.4	-
3822	Automatic temperature controls	2.6	-	2.0	-	.1	-	2.3	-	1.2	-	.3	-
383,5	Optical and ophthalmic goods	3.0	-	2.5	-	.3	-	2.7	-	1.8	-	.2	-
384	Medical instruments and supplies	3.3	-	2.9	-	.2	-	2.8	-	1.7	-	.5	-
386	Photographic equipment and supplies	1.3	-	1.2	-	(1)	-	1.2	-	.6	-	.5	-
387	Watches, clocks, and watchcases	5.2	-	3.7	-	1.2	-	4.4	-	2.3	-	.5	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	5.8	6.4	4.4	4.9	1.2	1.2	4.6	5.3	2.7	2.8	.8	1.4
391	Jewelry, silverware, and plated ware	4.9	-	4.3	-	.5	-	4.2	-	2.9	-	.6	-
394	Toys and sporting goods	7.8	-	5.5	-	2.0	-	5.7	-	3.3	-	.9	-
3941-3	Games, toys, dolls and play vehicles	10.1	-	6.8	-	3.1	-	6.4	-	4.1	-	.7	-
3949	Sporting and athletic goods, nec	5.4	-	4.2	-	.8	-	4.9	-	2.6	-	1.0	-
395	Pens, pencils, office and art supplies	3.6	-	3.3	-	.2	-	3.7	-	2.1	-	.7	-
396	Costume jewelry and notions	5.8	-	4.7	-	1.0	-	5.7	-	3.3	-	1.3	-
393,9	Other manufacturing industries	5.1	-	3.8	-	1.2	-	3.8	-	2.2	-	.8	-
<b>NONDURABLE GOODS</b>													
20	<b>FOOD AND KINDRED PRODUCTS</b>	5.3	6.7	3.6	4.7	1.5	1.8	5.5	5.4	2.7	2.9	2.0	1.7
201	Meat products	6.7	-	4.9	-	1.4	-	7.4	-	4.5	-	1.9	-
2011	Meat packing plants	4.4	-	2.2	-	1.7	-	5.2	-	2.0	-	2.4	-
2015	Poultry dressing plants	10.4	-	9.5	-	.4	-	11.5	-	9.1	-	1.3	-
204	Grain mill products	2.9	-	2.1	-	.6	-	4.0	-	1.9	-	1.3	-
2041	Flour and other grain mill products	2.0	-	1.6	-	.3	-	3.6	-	1.4	-	1.7	-
2042	Prepared feeds for animals and fowls	3.5	-	3.0	-	.4	-	4.1	-	2.7	-	.7	-
205	Bakery products	3.1	-	2.7	-	.3	-	3.0	-	1.8	-	.7	-
2051	Bread, cake, and related products	3.2	-	2.9	-	.2	-	2.7	-	1.9	-	.3	-
2052	Cookies and crackers	2.4	-	1.7	-	.6	-	4.5	-	1.4	-	2.5	-
207	Confectionery and related products	4.9	-	1.9	-	2.9	-	6.3	-	1.7	-	3.9	-
2071	Confectionery products	6.0	-	2.3	-	3.6	-	7.6	-	2.1	-	4.8	-
208	Beverages	4.8	-	3.5	-	1.1	-	3.9	-	2.0	-	1.2	-
2082	Malt liquors	4.0	-	1.7	-	1.9	-	3.1	-	.4	-	2.2	-
21	<b>TOBACCO MANUFACTURES</b>	1.5	-	.7	-	.4	-	4.4	-	.6	-	2.8	-
211	Cigarettes	.8	-	.2	-	.1	-	1.3	-	.2	-	.2	-
212	Cigars	3.3	-	2.7	-	.4	-	5.7	-	2.7	-	2.5	-
22	<b>TEXTILE MILL PRODUCTS</b>	4.9	5.7	4.0	4.8	.6	.5	4.8	5.0	3.4	3.6	.5	.4
221	Weaving mills, cotton	3.6	-	2.8	-	.3	-	4.3	-	2.9	-	.3	-
222	Weaving mills, synthetics	4.3	-	3.5	-	.2	-	4.4	-	3.1	-	.3	-
223	Weaving and finishing mills, wool	4.7	-	4.1	-	.3	-	4.8	-	3.5	-	.3	-
224	Narrow fabric mills	4.8	-	4.2	-	.5	-	4.6	-	3.3	-	.5	-
225	Knitting mills	5.6	-	4.6	-	.8	-	5.0	-	3.5	-	.6	-
2251	Women's hosiery, except socks	5.1	-	4.6	-	.5	-	4.8	-	3.6	-	.5	-
2252	Hosiery, nec	4.9	-	4.5	-	.3	-	5.0	-	4.1	-	.2	-
2254	Knit underwear mills	5.3	-	4.8	-	.4	-	5.1	-	3.9	-	.5	-
226	Textile finishing, except wool	3.8	-	3.1	-	.3	-	3.3	-	2.1	-	.3	-
227	Floor covering mills	5.0	-	4.1	-	.7	-	4.0	-	2.8	-	.2	-
228	Yarn and thread mills	6.4	-	5.4	-	.6	-	6.8	-	5.1	-	.4	-
229	Miscellaneous textile goods	3.8	-	2.7	-	.7	-	4.7	-	2.4	-	1.3	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	5.5	6.2	3.9	4.4	1.3	1.5	5.4	5.4	3.2	3.4	1.4	1.2
231	Men's and boys' suits and coats	4.0	-	2.1	-	1.6	-	3.9	-	1.6	-	1.6	-
232	Men's and boys' furnishings	5.2	-	4.1	-	.9	-	5.2	-	3.8	-	.6	-
2321	Men's and boys' shirts and nightwear	5.7	-	4.2	-	1.1	-	4.9	-	3.5	-	.5	-
2327	Men's and boys' separate trousers	4.3	-	3.4	-	.7	-	5.0	-	3.6	-	.8	-
2328	Men's and boys' work clothing	5.1	-	4.4	-	.5	-	6.0	-	4.9	-	.3	-
234	Women's and children's undergarments	5.1	-	3.8	-	1.0	-	5.0	-	3.4	-	.7	-
2341	Women's and children's underwear	5.6	-	4.3	-	1.2	-	5.1	-	3.9	-	.6	-
2342	Corsets and allied garments	3.3	-	2.4	-	.5	-	4.3	-	2.0	-	1.0	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	2.8	3.9	2.0	3.1	.6	.5	2.3	2.5	1.2	1.3	.4	.5
261,2,6	Paper and pulp mills	1.4	-	.9	-	.3	-	1.1	-	.5	-	.2	-
263	Paperboard mills	1.7	-	1.2	-	.3	-	1.7	-	.9	-	.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	
		Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>	Apr. 1978	May 1978 <sup>P</sup>
	<b>NONDURABLE GOODS—Continued</b>												
	<b>PAPER AND ALLIED PRODUCTS—Continued</b>												
264	Miscellaneous converted paper products . . . . .	3.6	-	2.7	-	0.8	-	2.6	-	1.5	-	0.3	-
2643	Bags, except textile bags . . . . .	3.8	-	3.0	-	.7	-	3.8	-	2.0	-	.8	-
265	Paperboard containers and boxes . . . . .	3.6	-	2.6	-	.9	-	3.2	-	1.7	-	.6	-
2651,2	Folding and setup paperboard boxes . . . . .	4.6	-	2.4	-	2.1	-	3.7	-	1.8	-	1.0	-
2653	Corrugated and solid fiber boxes . . . . .	2.9	-	2.4	-	.3	-	2.5	-	1.4	-	.3	-
27	<b>PRINTING AND PUBLISHING</b> . . . . .	3.2	3.7	2.6	3.2	.4	0.3	2.9	3.1	1.9	2.0	.5	0.5
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> . . . . .	1.6	2.2	1.2	1.7	.2	.3	1.6	1.4	.7	.6	.3	.3
281	Industrial chemicals . . . . .	1.2	-	.9	-	.1	-	1.3	-	.5	-	.3	-
282	Plastics materials and synthetics . . . . .	1.2	-	.9	-	.2	-	1.2	-	.5	-	.2	-
2821	Plastics materials and resins . . . . .	1.6	-	1.2	-	.1	-	1.5	-	.6	-	.2	-
2823,4	Synthetic fibers . . . . .	.9	-	.5	-	.3	-	.9	-	.5	-	.1	-
283	Drugs . . . . .	1.6	-	1.2	-	.2	-	1.4	-	.7	-	.2	-
2834	Pharmaceutical preparations . . . . .	1.7	-	1.3	-	.3	-	1.4	-	.7	-	.2	-
284	Soap, cleaners, and toilet goods . . . . .	2.1	-	1.4	-	.5	-	2.1	-	.9	-	.7	-
2841	Soap and other detergents . . . . .	1.6	-	.8	-	.6	-	2.5	-	1.5	-	1.4	-
2844	Toilet preparations . . . . .	2.3	-	1.6	-	.6	-	2.1	-	1.0	-	.5	-
285	Paints and allied products . . . . .	2.4	-	2.1	-	.1	-	1.9	-	1.0	-	.4	-
285,9	Other chemical products . . . . .	1.9	-	1.4	-	.4	-	1.8	-	.9	-	.4	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> . . . . .	2.4	3.3	1.8	2.7	.4	.3	1.9	1.9	.9	.8	.4	.4
291	Petroleum refining . . . . .	1.3	-	1.1	-	( <sup>1</sup> )	-	1.3	-	.4	-	.3	-
295,9	Other petroleum and coal products . . . . .	5.9	-	4.0	-	1.6	-	4.0	-	2.3	-	.6	-
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> . . . . .	5.2	6.2	4.0	5.1	.8	.7	4.5	5.2	2.7	3.2	.6	.8
301	Tires and inner tubes . . . . .	2.1	-	1.0	-	.7	-	1.7	-	.6	-	.3	-
302,3,6	Other rubber products . . . . .	4.1	-	2.9	-	.7	-	3.4	-	2.1	-	.5	-
307	Miscellaneous plastics products . . . . .	6.6	-	5.4	-	.9	-	5.7	-	3.6	-	.7	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> . . . . .	6.9	8.4	5.5	6.9	1.1	1.0	6.5	7.0	4.3	5.0	.9	.9
311	Leather tanning and finishing . . . . .	5.4	-	4.4	-	.9	-	4.1	-	2.6	-	.5	-
314	Footwear, except rubber . . . . .	7.5	-	6.0	-	1.0	-	2.2	-	5.0	-	.7	-
	<b>NONMANUFACTURING</b>												
10	<b>METAL MINING</b> . . . . .	2.7	4.0	2.0	3.4	.5	.2	2.8	2.1	1.3	1.2	.8	.3
101	Iron ores . . . . .	2.6	-	.8	-	1.5	-	1.4	-	.5	-	.3	-
102	Copper ores . . . . .	1.0	-	.7	-	.2	-	2.8	-	.4	-	1.6	-
11,12	<b>COAL MINING</b> . . . . .	3.9	2.6	2.2	2.1	.9	.3	1.6	1.8	.9	.7	.2	.5
12	Bituminous coal and lignite mining . . . . .	3.9	-	2.2	-	.9	-	1.6	-	.9	-	.2	-
	<b>COMMUNICATION:</b>												
481	Telephone communication . . . . .	1.3	-	-	-	( <sup>1</sup> )	-	.8	-	.4	-	.1	-
482	Telegraph communication <sup>2</sup> . . . . .	(*)	-	-	-	(*)	-	(*)	-	(*)	-	(*)	-

<sup>1</sup> Less than 0.05.

<sup>2</sup> 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.
<b>Total accessions</b>												
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	p4.1							
<b>New hires</b>												
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	2.7	2.7	2.7	2.7	2.9	3.3
1978	2.9	3.0	3.0	3.2	p3.1							
<b>Total separations</b>												
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	3.9	3.9	3.9	3.7	3.6	3.9
1978	3.6	3.8	3.8	4.0	p3.9							
<b>Quits</b>												
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	1.8	1.8	1.8	1.8	1.9	2.1
1978	1.9	2.0	2.1	2.3	p2.1							
<b>Layoffs</b>												
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	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	
	Mar. 1978	Apr. 1978P	Mar. 1978	Apr. 1978P	Mar. 1978	Apr. 1978P	Mar. 1978	Apr. 1978P	Mar. 1978	Apr. 1978P	Mar. 1978	Apr. 1978P
<b>ALABAMA:</b>												
Birmingham	2.3	2.5	1.3	1.5	0.8	0.7	2.1	2.2	0.9	1.0	0.6	0.4
Mobile <sup>1</sup>	6.1	6.2	2.6	2.6	3.5	3.5	6.1	5.2	1.9	2.1	3.5	2.1
<b>ALASKA</b>	14.8	19.0	8.8	9.9	6.0	8.7	10.4	11.8	8.1	5.7	1.5	4.8
<b>ARIZONA</b>	4.2	4.7	3.4	4.0	.5	.6	3.9	3.7	2.2	2.4	.6	.3
Phoenix	4.5	4.9	3.7	4.1	.6	.6	4.2	3.9	2.4	2.5	.5	.3
<b>ARKANSAS</b>	6.9	6.5	5.6	5.5	1.0	.7	6.0	6.2	4.3	4.5	.6	.5
Fort Smith	11.1	7.9	9.4	6.6	1.1	1.3	7.8	7.8	6.0	6.2	.4	.3
Little Rock-North Little Rock	5.1	5.9	4.6	5.4	.2	.3	4.9	5.8	3.5	3.8	.2	.8
Pine Bluff	5.8	5.3	3.9	4.8	1.7	.3	4.1	4.9	3.2	3.8	.3	.2
<b>COLORADO<sup>2</sup></b>	5.2	5.0	4.3	4.4	.6	.5	4.0	4.1	2.4	2.5	.7	.7
Denver-Boulder <sup>2</sup>	3.7	4.6	3.1	4.2	.4	.3	3.0	4.0	1.8	2.5	.4	.6
<b>CONNECTICUT</b>	2.5	2.3	1.8	1.8	.4	.3	2.4	2.3	1.1	1.2	.6	.5
Hartford	2.0	2.5	1.4	2.0	.2	.3	1.6	1.8	.8	1.0	.4	.2
<b>DELAWARE<sup>1</sup></b>	2.5	2.6	1.1	1.2	.4	.4	1.8	1.7	.7	.8	.4	.2
Wilmington <sup>1</sup>	2.4	2.3	1.0	1.0	.4	.3	1.5	1.5	.6	.6	.4	.3
<b>FLORIDA</b>	5.4	5.5	4.6	4.8	.6	.5	5.2	5.3	3.1	3.1	1.1	1.1
Fort Lauderdale-Hollywood	6.9	6.3	6.6	6.0	.2	.2	5.9	5.8	4.3	4.1	.3	.3
Jacksonville	5.3	4.5	3.8	3.3	1.4	1.2	4.1	5.7	1.8	1.9	1.2	2.5
Miami	5.4	5.1	4.8	4.8	.5	.3	4.9	4.7	3.2	3.2	.8	.7
Orlando	5.3	5.6	4.6	4.8	.5	.4	4.4	5.1	2.6	2.9	.6	1.1
Pensacola	1.7	1.4	1.6	1.2	.1	.1	1.7	.9	.9	.5	.4	(3)
Tampa-St. Petersburg	6.1	6.3	5.1	5.4	.9	.7	5.5	5.4	3.8	3.7	.6	.5
West Palm Beach-Boca Raton	2.9	3.7	2.7	3.4	.2	.2	6.5	4.7	2.0	2.0	3.4	1.8
<b>GEORGIA</b>	4.0	4.2	3.2	3.5	.5	.4	4.0	4.3	2.5	2.8	.6	.6
Atlanta <sup>4</sup>	3.5	2.9	2.6	2.3	.7	.4	3.3	3.4	1.9	1.8	.7	.8
<b>HAWAII<sup>5</sup></b>	2.5	2.8	1.3	1.4	.9	1.2	4.6	4.9	.9	.8	2.0	3.4
<b>IDAHO<sup>6</sup></b>	7.2	9.1	5.2	6.6	1.8	2.4	12.1	6.1	3.6	4.5	7.4	.5
<b>ILLINOIS:</b>												
Chicago SMSA	3.2	3.4	2.5	2.7	.5	.5	3.0	3.6	1.5	1.8	.4	.5
<b>INDIANA</b>	3.1	4.2	1.9	2.6	.6	.9	2.8	3.5	1.2	1.6	.8	1.0
Indianapolis <sup>7</sup>	3.3	3.5	1.9	1.9	.3	.4	2.7	2.6	1.2	1.3	.6	.4
<b>IOWA</b>	2.8	3.0	1.9	1.8	.6	.9	3.6	3.1	1.4	1.5	1.4	1.0
Cedar Rapids	2.1	2.0	1.1	1.2	.7	.7	2.9	2.3	.8	.8	1.5	1.1
Des Moines	3.8	4.1	2.6	2.4	.3	1.1	6.4	3.7	1.5	1.9	3.4	.3
<b>KANSAS</b>	4.8	4.9	3.9	4.2	.7	.5	4.3	4.1	2.9	3.0	.5	.3
Topeka	3.7	4.9	3.1	3.8	.5	1.0	3.7	3.0	1.9	2.2	.6	.1
Wichita	6.0	5.1	4.9	4.2	.8	.6	4.9	3.8	3.2	3.0	.4	.1
<b>KENTUCKY</b>	2.8	3.6	2.0	2.3	.6	1.0	3.9	3.0	1.3	1.5	1.5	.7
Louisville	2.9	3.4	1.9	2.2	.4	.4	2.4	2.6	.8	1.1	.6	.3
<b>LOUISIANA</b>												
New Orleans	4.5	4.2	3.8	3.5	.5	.5	4.1	3.9	2.1	2.3	1.0	.5
<b>MAINE</b>	5.5	5.9	4.2	4.5	1.0	1.1	4.8	5.1	2.9	3.2	1.0	1.1
Portland	4.2	3.7	3.4	3.2	.5	.3	3.3	3.7	2.0	2.4	.5	.5
<b>MARYLAND</b>	2.8	3.3	1.4	1.8	1.2	1.3	2.8	2.7	1.0	1.1	1.3	.9
Baltimore	2.9	3.6	1.4	1.8	1.3	1.4	2.8	2.7	.9	1.0	1.4	1.0
<b>MASSACHUSETTS</b>	3.6	3.6	2.8	2.6	.5	.7	3.0	2.9	1.5	1.7	.6	.5
Boston	3.3	3.8	2.5	2.6	.5	1.0	2.7	2.7	1.3	1.5	.6	.5
<b>MICHIGAN</b>	2.7	2.7	1.5	1.6	.7	.6	2.3	2.6	.8	.9	.8	.9
Detroit	3.3	2.6	1.9	1.6	.8	.4	2.6	2.8	.9	1.0	.8	1.1
Flint	2.3	2.3	1.1	1.7	.4	.1	1.4	1.4	.4	.5	.2	.2
Grand Rapids	3.4	3.8	2.1	2.5	.9	.9	3.5	2.6	1.4	1.3	1.1	.6
Lansing-East Lansing	2.8	5.6	2.1	3.4	.5	1.5	2.9	4.4	.3	1.6	1.9	1.9

See footnotes at end of table.

**ESTABLISHMENT DATA**  
**STATE AND AREA LABOR TURNOVER**

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Mar. 1978	Apr. 1978 <sup>P</sup>	Mar. 1978	Apr. 1978 <sup>P</sup>	Mar. 1978	Apr. 1978 <sup>P</sup>	Mar. 1978	Apr. 1978 <sup>P</sup>	Mar. 1978	Apr. 1978 <sup>P</sup>	Mar. 1978	Apr. 1978 <sup>P</sup>
<b>MINNESOTA</b> .....	3.6	4.1	2.5	2.8	0.9	1.2	2.9	3.1	1.8	1.9	0.5	0.6
Minneapolis—St. Paul .....	3.0	3.5	2.2	2.4	.6	.9	2.5	2.5	1.6	1.6	.2	.3
<b>MISSISSIPPI:</b>												
Jackson .....	4.8	4.3	3.6	2.8	.6	.2	3.9	3.8	2.4	2.7	.7	.4
<b>MISSOURI</b> .....	3.4	3.7	2.4	2.8	.8	.6	3.0	3.6	1.6	2.0	.7	.9
Kansas City .....	2.7	3.1	2.1	2.7	.4	.2	2.5	3.1	1.4	1.8	.4	.6
St. Louis .....	2.6	2.9	1.7	2.1	.7	.6	2.2	2.5	.9	1.2	.6	.6
<b>MONTANA</b> .....	2.9	3.3	1.6	2.1	(*)	(*)	3.0	2.6	1.2	1.6	1.3	.5
<b>NEBRASKA</b> .....	4.4	4.9	3.6	3.9	.7	.9	4.1	4.3	2.8	3.1	.6	.4
<b>NEVADA</b> .....	7.7	7.5	6.5	6.8	.9	.4	6.5	6.8	4.4	4.5	.4	.4
<b>NEW HAMPSHIRE</b> .....	4.2	4.1	3.5	3.6	.4	.2	4.0	3.9	2.6	2.8	.3	.3
<b>NEW JERSEY:</b>												
Camden <sup>8</sup> .....	3.0	4.2	1.9	2.6	.7	1.0	2.8	3.1	1.0	1.5	1.0	.6
Hackensack .....	3.9	4.1	2.8	3.2	.6	.7	3.6	4.3	1.8	1.8	.8	1.5
Jersey City .....	3.8	3.6	2.0	2.3	1.6	1.2	3.6	3.1	1.0	1.1	1.6	1.3
Newark .....	2.7	3.9	2.0	2.4	.5	.5	2.9	2.9	1.1	1.3	1.1	.7
New Brunswick—Perth Amboy—Sayreville .....	3.4	2.8	2.3	2.1	.9	.4	2.8	2.9	1.2	1.1	.8	1.0
Paterson—Clifton—Passaic .....	3.9	3.9	2.9	2.5	.7	1.1	4.3	2.7	1.3	1.2	2.0	.6
Trenton .....	2.3	2.5	1.4	1.8	.4	.4	2.4	2.5	.8	1.1	1.0	.6
<b>NEW YORK</b> .....	3.8	3.4	2.2	2.2	1.4	1.0	3.0	3.0	1.1	1.1	1.2	1.1
Albany—Schenectady—Troy .....	2.9	2.7	1.3	1.3	.8	.6	2.8	2.8	.7	.8	.9	.7
Binghamton .....	4.1	2.6	3.2	2.0	.8	.5	3.2	1.9	2.0	1.1	.3	.2
Buffalo .....	2.4	2.3	.9	1.0	1.2	1.0	2.3	2.1	.5	.6	1.0	.8
Elmira .....	3.0	2.8	1.1	2.1	1.5	.4	2.6	2.0	.5	1.0	1.1	.1
Monroe County <sup>9</sup> .....	1.8	1.7	1.4	1.4	.2	.2	1.4	1.6	.6	.7	.4	.4
Nassau—Suffolk <sup>10</sup> .....	5.6	4.7	4.1	3.8	1.3	.7	3.8	3.8	2.2	2.2	.4	.7
New York and Nassau—Suffolk .....	5.4	4.3	3.1	2.9	2.2	1.3	3.8	3.8	1.3	1.3	1.6	1.7
New York SMSA <sup>10</sup> .....	5.3	4.2	2.8	2.6	2.4	1.5	3.8	3.7	1.1	1.0	1.9	2.0
New York City <sup>11</sup> .....	5.7	4.4	2.9	2.7	2.7	1.6	4.0	4.0	1.1	1.0	2.1	2.3
Rochester .....	2.0	2.0	1.5	1.5	.4	.4	1.9	1.9	.7	.8	.7	.6
Syracuse .....	1.9	2.5	1.3	1.5	.3	.8	2.2	2.4	.8	.8	.7	1.0
Utica—Rome .....	2.4	2.7	1.6	1.9	.6	.5	2.1	2.1	.9	1.0	.5	.4
Westchester County <sup>11</sup> .....	2.5	2.7	1.9	2.2	.4	.3	2.4	2.0	.9	.9	.9	.4
<b>NORTH CAROLINA</b> .....	4.0	4.5	3.3	3.8	.4	.4	4.4	4.5	2.9	3.3	.6	.3
Charlotte—Gastonia .....	4.9	5.9	4.3	5.2	.4	.5	5.2	5.7	3.8	4.4	.2	.2
Greensboro—Winston-Salem—High Point .....	3.4	3.8	2.9	3.3	.2	.2	3.6	3.9	2.6	3.0	.2	.1
<b>NORTH DAKOTA</b> .....	4.8	5.9	2.9	3.8	1.6	1.9	4.6	5.5	2.1	2.7	1.8	2.0
Fargo—Moorhead .....	5.9	5.4	3.5	3.3	2.1	2.1	6.1	7.3	1.6	2.3	3.6	3.9
<b>OHIO</b> .....	2.4	2.9	1.3	1.8	(*)	(*)	2.4	2.2	.9	1.0	.7	.4
Akron .....	1.8	1.8	1.1	1.3	(*)	(*)	2.2	1.5	.8	.7	.9	.2
Canton .....	2.5	3.1	.9	1.0	(*)	(*)	2.6	2.2	.8	.8	.9	.4
Cincinnati .....	2.4	3.0	1.6	2.4	(*)	(*)	2.2	2.2	1.1	1.2	.5	.4
Cleveland .....	2.6	2.7	1.6	1.9	(*)	(*)	2.4	2.6	1.1	1.2	.5	.5
Columbus .....	2.0	3.1	1.3	2.3	(*)	(*)	2.2	2.2	.9	1.1	.7	.4
Dayton .....	1.7	2.5	1.3	1.5	(*)	(*)	2.0	1.9	.9	1.0	.4	.3
Toledo .....	2.1	3.0	1.1	1.9	(*)	(*)	2.0	1.7	.8	.9	.4	.3
Youngstown—Warren .....	3.2	3.6	.8	1.3	(*)	(*)	3.4	2.1	.5	.6	1.8	.5
<b>OKLAHOMA</b> .....	5.8	6.3	5.2	5.3	.4	.8	6.1	6.0	4.1	4.4	.8	.5
Oklahoma City .....	6.0	6.0	5.4	4.7	.5	1.3	6.3	5.3	4.1	4.1	1.2	.4
Tulsa <sup>12</sup> .....	5.9	6.9	5.4	5.9	.1	.6	6.4	6.1	3.6	3.9	1.2	.4
<b>OREGON</b> <sup>1</sup> .....	5.4	4.5	4.2	3.8	1.0	.7	4.3	4.0	2.4	2.5	1.0	.6
Portland <sup>1</sup> .....	5.8	4.6	4.5	3.8	1.2	.7	4.2	4.0	2.5	2.3	.8	.7
<b>PENNSYLVANIA</b> .....	2.9	3.0	1.6	1.8	1.1	1.0	3.0	2.6	1.0	1.1	1.3	.9
Allentown—Bethlehem—Easton .....	3.5	2.8	1.1	1.4	2.0	1.2	2.5	2.1	1.0	.9	1.0	.5
Altoona .....	2.6	3.4	.9	1.6	1.6	1.5	3.3	2.4	1.0	.8	1.9	1.4
Erie .....	2.9	3.0	1.3	1.3	1.1	1.3	2.5	3.1	.9	.9	.9	1.3
Harrisburg .....	2.8	2.6	1.8	1.7	.8	.7	2.9	2.8	1.4	1.4	.9	.7
Johnstown .....	3.0	3.2	.8	.8	2.2	2.3	4.1	3.6	.7	.9	3.0	2.0
Lancaster .....	2.9	3.4	2.6	2.9	.2	.4	2.9	3.0	1.8	2.0	.7	.5

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Mar. 1978	Apr. 1978 <sup>P</sup>	Mar. 1978	Apr. 1978 <sup>H</sup>	Mar. 1978	Apr. 1978 <sup>P</sup>	Mar. 1978	Apr. 1978 <sup>P</sup>	Mar. 1978	Apr. 1978 <sup>H</sup>	Mar. 1978	Apr. 1978 <sup>P</sup>
<b>PENNSYLVANIA—Continued</b>												
Northeast Pennsylvania .....	4.6	3.1	1.8	2.0	2.5	0.8	2.9	3.4	1.0	1.2	1.0	1.4
Philadelphia SMSA .....	2.6	2.9	1.7	1.9	.8	.8	2.5	2.6	1.0	1.1	.8	.8
Pittsburgh .....	2.5	2.9	.7	1.0	1.5	1.6	3.8	2.0	.3	.4	2.7	.9
Reading .....	2.8	2.1	2.1	1.7	.6	.2	3.8	2.8	1.3	1.3	1.9	1.0
Scranton <sup>13</sup> .....	4.6	1.0	1.6	.5	3.0	.4	2.7	4.0	1.1	1.3	1.0	2.2
Wilkes-Barre—Hazleton <sup>13</sup> .....	3.9	3.2	1.8	2.1	1.8	.7	2.6	2.2	1.0	1.1	.9	.4
Williamsport .....	3.0	2.4	1.4	1.5	1.4	.8	2.0	1.8	.7	.8	.8	.7
York .....	4.0	3.6	3.3	3.0	.6	.4	3.7	3.5	2.1	2.0	.9	.9
<b>RHODE ISLAND</b>												
Providence—Warwick—Pawtucket .....	5.9	5.3	4.7	4.2	1.0	.8	4.8	4.5	2.7	2.8	1.2	.8
.....	5.7	5.2	4.6	4.2	.8	.7	4.6	4.5	2.7	2.9	1.1	.7
<b>SOUTH CAROLINA</b>												
Charleston—North Charleston .....	3.4	4.0	2.8	3.4	.4	.3	3.6	3.8	2.2	2.6	.5	.4
Columbia .....	4.4	6.4	3.5	5.7	.8	.5	3.4	5.5	2.0	3.0	.2	1.0
Greenville—Spartanburg .....	4.6	3.5	3.4	3.1	1.1	.3	3.5	3.2	2.5	2.4	.2	.2
.....	3.6	4.6	3.1	4.1	.3	.3	3.8	4.4	2.5	3.1	.4	.3
<b>SOUTH DAKOTA</b>												
Sioux Falls .....	4.0	4.9	3.5	4.0	.3	.9	4.0	3.9	2.3	2.6	1.1	.4
.....	2.9	4.8	2.6	2.9	.3	1.9	3.3	2.7	1.7	2.1	1.2	.2
<b>TENNESSEE:</b>												
Memphis .....	4.3	4.3	2.8	3.3	1.2	.7	3.5	3.1	1.6	1.9	.9	.2
<b>TEXAS:</b>												
Dallas—Fort Worth .....	5.4	5.4	5.0	4.9	.3	.3	4.7	5.0	3.5	3.6	.2	.2
Houston .....	4.5	4.2	4.2	3.9	.1	.2	4.4	4.3	3.1	3.0	.2	.2
San Antonio .....	4.5	5.3	4.2	4.7	.2	.3	3.5	4.0	2.6	3.1	.2	.1
<b>UTAH<sup>5</sup></b>												
Salt Lake City—Ogden <sup>5</sup> .....	4.9	5.5	4.2	4.6	.4	.6	4.9	4.5	3.5	3.5	.5	.2
.....	5.1	5.7	4.4	5.1	.2	.4	4.9	4.6	3.7	3.4	.3	.3
<b>VERMONT</b>												
Burlington .....	4.4	3.6	3.2	2.7	.9	.7	3.1	2.8	1.7	1.8	.6	.5
Springfield .....	4.7	2.8	3.2	1.8	.9	.6	2.1	1.6	.7	.7	.7	.6
.....	3.4	2.8	2.6	1.9	.6	.8	2.9	2.0	1.6	1.3	.6	.2
<b>VIRGINIA</b>												
Richmond .....	2.9	3.3	2.2	2.7	.5	.4	3.2	3.6	1.7	1.9	.7	.7
.....	1.7	1.5	1.2	1.1	.3	( <sup>3</sup> )	1.4	3.0	.7	.8	.1	1.4
<b>WASHINGTON:</b>												
Seattle—Everett <sup>14</sup> .....	4.7	4.0	3.2	2.8	1.0	.9	2.9	3.0	1.5	1.6	.7	.8
<b>WISCONSIN</b>												
Milwaukee .....	3.0	3.0	2.0	2.1	.7	.7	2.9	2.7	1.1	1.3	.9	.7
.....	2.5	2.6	1.5	1.8	.5	.5	3.4	2.3	1.0	.9	1.4	.6
<b>WYOMING</b>												
.....	7.6	7.3	5.7	6.0	1.9	1.3	5.1	5.9	3.6	4.1	( <sup>3</sup> )	.3

<sup>1</sup> Excludes canning and preserving.  
<sup>2</sup> Based on the 1967 Standard Industrial Classification Manual.  
<sup>3</sup> Less than 0.05.  
<sup>4</sup> Excludes agricultural chemicals, and miscellaneous manufacturing.  
<sup>5</sup> Excludes canned fruits, vegetables, preserves, jams, and jellies.  
<sup>6</sup> Excludes canning and preserving, and sugar.  
<sup>7</sup> Excludes canning and preserving, and newspapers.  
<sup>8</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.  
<sup>9</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>10</sup> Area included in New York and Nassau-Suffolk combined SMSA's.  
<sup>11</sup> Subarea of New York Standard Metropolitan Statistical Area.  
<sup>12</sup> Excludes new-hire rate for transportation equipment.  
<sup>13</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.  
<sup>14</sup> 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		
	MAY. 1977R	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P
<b>ALABAMA</b> .....	1,552.4	1,558.3	1,568.9	109.4	83.3	81.4	7.0	5.3	5.2
Birmingham .....	361.5	366.1	367.8	23.9	16.5	16.6	6.6	4.5	4.6
Huntsville .....	128.3	128.0	129.9	8.9	6.4	6.6	7.0	5.0	5.1
Mobile .....	174.4	178.0	178.2	12.8	10.6	10.1	7.3	6.0	5.7
Montgomery .....	106.8	111.6	112.3	6.0	5.2	5.0	5.7	4.6	4.4
Tuscaloosa .....	53.2	52.5	51.9	3.5	3.0	2.7	6.7	5.8	5.2
<b>ALASKA</b> .....	183.0	180.6	185.5	17.2	20.6	20.6	9.4	11.4	11.1
<b>ARIZONA</b> .....	975.6	971.2	971.2	77.7	53.8	52.5	8.0	5.5	5.4
Phoenix .....	575.6	579.7	578.6	43.7	27.9	27.7	7.6	4.8	4.8
Tucson .....	185.6	180.6	180.4	13.7	9.7	9.3	7.4	5.4	5.1
<b>ARKANSAS</b> .....	927.7	936.7	946.9	55.4	51.2	49.2	6.0	5.5	5.2
Fayetteville-Springdale .....	68.6	71.3	70.6	2.9	2.8	2.8	4.2	3.9	4.0
Fort Smith <sup>1</sup> .....	81.6	83.4	83.4	5.1	4.6	4.4	6.3	5.6	5.3
Little Rock-North Little Rock .....	174.9	179.8	179.9	7.3	6.8	6.8	4.2	3.8	3.8
Pine Bluff .....	35.5	36.6	37.0	2.1	2.2	2.2	6.0	5.9	6.0
<b>CALIFORNIA</b> <sup>2</sup> .....	10,047.5	10,537.6	10,558.6	795.2	760.2	739.9	7.9	7.2	7.0
Anaheim-Santa Ana-Garden Grove .....	904.6	989.3	989.5	52.1	43.9	45.2	5.8	4.4	4.6
Bakersfield .....	163.5	170.5	171.9	12.7	16.1	14.1	7.7	9.5	8.2
Fresno .....	239.6	246.0	258.3	22.4	24.3	23.4	9.4	9.9	9.0
Los Angeles-Long Beach .....	3,319.0	3,385.0	3,380.0	231.0	259.0	242.0	7.0	7.7	7.2
Modesto .....	127.3	131.1	132.7	22.2	18.0	19.0	17.4	13.8	14.3
Oxnard-Simi Valley-Ventura .....	195.6	207.8	209.0	13.3	13.7	14.7	6.8	6.6	7.1
Riverside-San Bernardino-Ontario .....	503.6	541.2	540.0	41.2	31.7	34.1	8.2	5.9	6.3
Sacramento .....	419.1	449.8	449.8	38.1	33.6	32.8	9.1	7.5	7.3
Salinas-Seaside-Monterey .....	122.8	126.4	131.8	8.6	12.2	10.0	7.0	9.6	7.6
San Diego .....	636.1	679.6	679.0	56.5	42.0	43.8	8.9	6.2	6.5
San Francisco-Oakland .....	1,497.7	1,574.4	1,559.1	112.6	87.9	87.7	7.5	5.6	5.6
San Jose .....	603.7	659.5	658.8	42.9	37.4	38.4	7.1	5.7	5.8
Santa Barbara-Santa Maria-Lompoc .....	131.9	137.2	135.9	9.1	8.7	8.5	6.9	6.3	6.3
Santa Rosa .....	110.4	117.1	116.9	11.0	8.5	8.2	10.0	7.2	7.1
Stockton .....	161.3	159.5	169.5	17.2	19.3	18.3	10.7	12.1	10.8
Vallejo-Fairfield-Napa .....	115.9	121.8	122.4	10.0	7.6	7.7	8.7	6.3	6.3
<b>COLORADO</b> .....	1,259.1	1,256.3	1,266.1	75.8	72.2	69.2	6.0	5.7	5.5
Denver-Boulder .....	736.1	740.0	741.3	42.4	38.5	37.2	5.8	5.2	5.0
<b>CONNECTICUT</b> .....	1,508.9	1,525.8	1,521.5	107.8	75.9	68.5	7.1	5.0	4.5
Bridgeport .....	185.3	187.5	185.9	13.9	9.5	8.6	7.5	5.0	4.6
Hartford .....	359.4	365.0	363.4	23.5	16.1	14.8	6.6	4.4	4.1
New Britain .....	72.0	71.7	71.1	6.0	3.8	3.1	8.3	5.3	4.4
New Haven-West Haven .....	200.7	192.7	196.4	16.9	8.3	8.5	8.4	4.3	4.3
Stamford .....	109.6	117.7	117.0	5.9	4.7	4.0	5.3	4.0	3.4
Waterbury .....	107.6	109.2	108.5	8.7	6.9	6.1	8.1	6.3	5.7
<b>DELAWARE</b> .....	273.1	266.1	267.4	21.9	18.0	17.7	8.0	6.8	6.6
Wilmington <sup>1</sup> .....	238.7	230.3	230.8	18.5	14.5	14.3	7.7	6.3	6.2
<b>DISTRICT OF COLUMBIA</b> .....	327.6	326.8	327.4	32.2	24.4	25.1	9.8	7.5	7.7
Washington SMSA <sup>1</sup> .....	1,546.5	1,536.6	1,547.0	78.7	67.9	66.1	5.1	4.4	4.3
<b>FLORIDA</b> <sup>2</sup> .....	3,437.1	3,669.3	3,648.9	280.1	223.0	224.9	8.2	6.1	6.2
Fort Lauderdale-Hollywood .....	341.9	370.6	362.4	32.3	24.3	24.4	9.4	6.6	6.7
Jacksonville .....	284.8	301.9	302.1	18.7	16.9	17.3	6.6	5.6	5.7
Miami .....	661.2	703.2	696.3	57.6	47.4	48.6	8.7	6.7	7.0
Orlando .....	268.0	282.3	282.9	21.7	15.7	15.8	8.1	5.5	5.6
Pensacola .....	103.6	110.6	110.5	5.8	5.2	5.3	5.6	4.7	4.8
Tampa-St. Petersburg .....	533.9	564.6	563.6	45.3	31.8	32.2	8.5	5.6	5.7
West Palm Beach-Boca Raton .....	187.8	203.9	199.6	16.9	12.8	13.2	9.0	6.3	6.6
<b>GEORGIA</b> .....	2,262.0	N.A.	N.A.	155.3	N.A.	N.A.	6.9	N.A.	N.A.
Atlanta .....	874.1	N.A.	N.A.	64.4	N.A.	N.A.	7.4	N.A.	N.A.
Augusta <sup>1</sup> .....	119.4	N.A.	N.A.	9.2	N.A.	N.A.	7.7	N.A.	N.A.
Columbus <sup>1</sup> .....	85.4	N.A.	N.A.	6.1	N.A.	N.A.	7.1	N.A.	N.A.
Macon .....	104.3	N.A.	N.A.	8.3	N.A.	N.A.	7.9	N.A.	N.A.
Savannah .....	88.0	N.A.	N.A.	6.6	N.A.	N.A.	7.6	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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				• Number			Percent of labor force		
	MAY. 1977R	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P
<b>HAWAII</b> .....	406.9	402.0	402.0	28.7	22.8	25.2	7.0	5.7	6.3
Honolulu .....	321.9	318.1	317.9	22.0	17.5	19.4	6.8	5.5	6.1
<b>IDAHO</b> .....	390.0	401.0	408.7	21.6	22.4	19.1	5.5	5.6	4.7
Boise City .....	77.4	83.7	86.3	2.7	2.8	2.5	3.5	3.3	2.9
<b>ILLINOIS</b> <sup>2</sup> .....	5,138.7	5,236.4	5,274.5	249.4	286.5	319.8	4.9	5.5	6.1
Bloomington—Normal .....	59.0	61.5	61.3	1.8	2.7	2.5	3.0	4.3	4.1
Champaign—Urbana—Rantoul .....	74.7	75.8	76.0	2.7	3.3	3.5	3.6	4.4	4.6
Chicago .....	3,264.9	3,326.4	3,344.9	155.0	175.0	197.9	4.7	5.3	5.9
Deavenport—Rock Island—Moline <sup>1</sup> .....	173.0	179.1	179.5	6.9	8.9	13.1	4.0	5.0	7.3
Decatur .....	59.7	60.4	60.7	3.4	3.7	3.9	5.7	6.2	6.5
Peoria .....	168.2	172.9	173.2	7.2	8.3	8.6	4.3	4.8	5.0
Rockford .....	128.7	132.6	133.2	6.1	6.4	6.9	4.7	4.8	5.1
Springfield .....	92.9	96.1	96.5	4.0	5.1	5.3	4.3	5.3	5.5
<b>INDIANA</b> .....	2,463.6	2,513.3	2,538.3	130.2	128.3	122.9	5.3	5.1	4.8
Evansville <sup>1</sup> .....	133.9	136.5	138.7	5.3	5.1	5.3	4.0	3.8	3.8
Fort Wayne .....	177.7	179.9	182.4	7.8	7.5	7.5	4.4	4.2	4.1
Gary—Hammond—East Chicago .....	280.3	280.6	284.4	15.8	14.7	14.3	5.6	5.2	5.0
Indianapolis .....	553.4	559.9	564.6	31.3	26.2	26.0	5.7	4.7	4.6
Muncie .....	55.5	57.5	57.8	2.6	4.4	4.2	4.6	7.7	7.2
South Bend .....	132.6	135.1	135.6	6.4	6.4	5.8	4.8	4.7	4.3
Terre Haute .....	75.3	78.5	77.9	4.2	4.3	4.0	5.5	5.5	5.2
<b>IOWA</b> .....	1,416.8	1,428.6	1,455.3	52.7	54.2	51.2	3.7	3.8	3.5
Cedar Rapids .....	83.7	85.5	86.3	3.5	2.7	2.7	4.1	3.2	3.1
Des Moines .....	172.9	178.0	179.5	7.3	6.9	6.4	4.2	3.9	3.6
Dubuque .....	44.5	45.3	46.0	2.3	2.3	2.3	5.1	5.2	4.9
Sioux City <sup>1</sup> .....	58.6	58.9	58.8	2.5	2.9	2.7	4.2	4.9	4.6
Waterloo—Cedar Falls .....	65.8	67.1	67.3	2.9	3.1	2.9	4.4	4.6	4.3
<b>KANSAS</b> .....	1,121.2	1,134.1	1,141.4	40.2	32.9	34.1	3.6	2.9	3.0
Topeka .....	92.7	93.8	94.3	3.2	2.9	3.0	3.5	3.1	3.2
Wichita .....	207.3	205.6	207.5	9.4	6.5	7.0	4.6	3.2	3.4
<b>KENTUCKY</b> .....	1,496.1	1,526.2	1,548.6	53.5	62.7	61.3	3.6	4.1	4.0
Lexington—Fayette .....	156.0	157.8	159.4	3.6	4.5	4.6	2.3	2.9	2.9
Louisville <sup>1</sup> .....	392.8	407.8	414.3	16.9	16.2	18.7	4.3	4.0	4.5
<b>LOUISIANA</b> .....	1,574.6	1,628.3	1,626.1	107.4	121.0	122.6	6.8	7.4	7.5
Baton Rouge .....	199.3	204.9	202.3	13.6	14.4	14.4	6.8	7.0	7.1
Lake Charles .....	65.8	65.4	65.8	5.6	5.8	6.6	8.4	8.9	10.0
Monroe .....	52.6	53.6	53.6	4.1	3.9	3.9	7.7	7.3	7.3
New Orleans .....	459.3	474.1	469.3	34.3	34.5	33.9	7.5	7.3	7.2
Shreveport .....	146.3	152.0	151.6	8.3	10.2	10.2	5.7	6.7	6.7
<b>MAINE</b> .....	463.4	463.7	469.9	36.2	30.3	26.8	7.8	6.5	5.7
Lewiston—Auburn .....	36.4	37.0	37.0	2.4	1.9	1.7	6.6	5.1	4.5
Portland .....	83.2	84.2	85.0	5.9	4.2	3.8	7.1	5.0	4.5
<b>MARYLAND</b> .....	1,952.4	2,021.9	2,032.5	108.1	116.7	102.1	5.5	5.8	5.0
Baltimore .....	967.5	1,039.8	1,040.8	57.3	64.1	55.9	5.9	6.2	5.4
<b>MASSACHUSETTS</b> <sup>2</sup> .....	2,769.3	2,794.2	2,805.9	184.0	159.7	152.0	6.6	5.7	5.4
Boston .....	1,334.2	1,343.7	1,345.5	86.1	74.4	72.5	6.5	5.5	5.4
Brockton .....	77.0	78.1	78.7	5.9	4.5	4.3	7.6	5.8	5.4
Fall River <sup>1</sup> .....	74.6	76.7	77.2	5.3	5.2	4.2	7.1	6.8	5.5
Lawrence—Haverhill <sup>1</sup> .....	N.A.	138.0	138.2	N.A.	8.3	7.6	N.A.	6.0	5.5
Lowell <sup>1</sup> .....	107.2	110.4	110.4	7.5	6.4	5.9	7.0	5.8	5.4
New Bedford .....	81.6	81.5	82.0	6.9	5.7	5.4	8.4	7.0	6.6
Springfield—Chicopee—Holyoke <sup>1</sup> .....	272.8	275.9	276.8	16.1	14.5	14.2	5.9	5.2	5.1
Worcester .....	192.2	195.0	195.2	10.5	9.3	8.8	5.5	4.8	4.5
<b>MICHIGAN</b> <sup>2</sup> .....	4,043.7	4,155.2	4,154.5	297.1	274.0	272.3	7.4	6.6	6.6
Ann Arbor .....	126.9	134.2	131.0	7.6	6.6	6.7	6.0	4.9	5.1
Battle Creek .....	79.8	81.4	81.1	6.2	5.2	5.4	7.8	6.4	6.7
Bay City .....	51.3	52.8	53.4	4.0	3.2	3.5	7.8	6.0	6.5
Detroit .....	1,930.5	1,982.9	1,976.7	138.0	121.9	122.0	7.2	6.1	6.2
Flint .....	211.6	220.9	221.5	15.8	15.3	15.2	7.5	6.9	6.8

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		
	MAY. 1977R	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P
<b>MICHIGAN—Continued</b>									
Grand Rapids .....	277.2	284.9	286.5	15.6	13.4	13.6	5.6	4.7	4.7
Jackson .....	63.8	64.0	63.9	4.9	3.5	3.9	7.7	5.5	6.1
Kalamazoo—Portage .....	126.1	130.7	129.6	7.3	6.7	7.3	5.8	5.1	5.6
Lansing—East Lansing .....	218.6	225.7	226.0	13.8	13.5	12.9	6.3	6.0	5.7
Muskegon—Norton Shores—Muskegon Heights .....	74.4	75.2	75.7	6.0	6.0	5.7	8.1	8.0	7.5
Saginaw .....	97.7	102.5	103.0	6.3	5.4	5.6	6.4	5.3	5.4
<b>MINNESOTA</b>	1,931.0	1,944.6	1,980.5	90.4	73.1	68.5	4.7	3.8	3.5
Duluth—Superior .....	114.6	114.0		8.3	6.4	5.8	7.2	5.6	4.9
Minneapolis—St. Paul .....	1,010.7	1,025.9	1,051.0	38.8	28.9	31.2	3.8	2.8	3.0
<b>MISSISSIPPI</b>	969.8	978.4	982.3	68.7	63.3	65.9	7.1	6.5	6.7
Jackson .....	137.0	141.2	140.9	8.2	6.9	7.5	6.0	4.9	5.3
<b>MISSOURI</b>	2,252.3	2,232.5	2,252.0	120.9	110.1	103.4	5.4	4.9	4.6
Kansas City <sup>1</sup> .....	657.3	669.4	674.1	34.9	27.0	27.5	5.3	4.0	4.1
St. Joseph .....	45.8	44.8	45.1	2.6	2.4	2.1	5.6	5.3	4.6
St. Louis <sup>1</sup> .....	1,062.2	1,059.8	1,064.7	63.3	55.9	54.3	6.0	5.3	5.1
Springfield .....	98.1	99.0	99.1	4.3	4.1	3.7	4.4	4.1	3.7
<b>MONTANA</b>	340.4	358.1	360.2	20.6	23.2	19.4	6.1	6.5	5.4
Billings .....	52.0	52.7	52.4	2.3	2.4	2.1	4.5	4.6	4.0
Great Falls .....	34.7	35.0	35.0	1.9	2.1	2.0	5.5	6.1	5.7
<b>NEBRASKA</b>	763.3	759.6	771.7	25.4	21.5	18.1	3.3	2.8	2.3
Lincoln .....	106.4	105.9	107.0	2.6	2.6	2.1	2.4	2.4	2.0
Omaha <sup>1</sup> .....	274.9	275.4	278.7	13.2	10.2	8.8	4.8	3.7	3.2
<b>NEVADA</b>	316.9	333.0	338.1	21.8	13.9	13.4	6.9	4.2	4.0
Las Vegas .....	171.9	178.9	180.4	13.3	8.6	8.2	7.7	4.8	4.6
Reno .....	89.0	96.3	99.8	4.6	2.9	2.6	5.1	3.0	2.6
<b>NEW HAMPSHIRE</b>	401.2	417.6	423.5	21.6	16.7	16.3	5.4	4.0	3.9
Manchester .....	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>NEW JERSEY<sup>2</sup></b>	3,321.9	3,301.9	3,343.1	285.0	237.6	244.4	8.6	7.2	7.3
Atlantic City .....	81.3	78.5	82.0	8.4	8.6	8.3	10.4	10.9	10.1
Jersey City .....	254.5	246.6	248.0	31.1	27.4	28.8	12.2	11.1	11.6
Long Branch—Asbury Park .....	214.9	213.6	217.5	17.9	14.8	14.7	8.3	6.9	6.8
Newark .....	921.9	924.7	934.4	77.6	61.2	64.6	8.4	6.6	6.9
New Brunswick—Parth Amboy—Sayreville .....	292.0	301.7	304.5	22.6	19.5	20.4	7.7	6.5	6.7
Paterson—Clifton—Passaic .....	212.1	207.3	208.9	22.9	18.0	17.8	10.8	8.7	8.5
Trenton .....	154.6	154.5	156.0	9.4	8.3	8.9	6.1	5.4	5.7
Vineland—Millville—Bridgeton .....	56.7	58.7	59.5	6.1	5.5	5.7	10.7	9.4	9.5
<b>NEW MEXICO</b>	503.4	519.2	528.1	36.6	25.2	25.4	7.3	4.8	4.8
Albuquerque .....	184.4	191.8	194.1	14.5	9.0	8.8	7.9	4.7	4.5
<b>NEW YORK<sup>2</sup></b>	7,678.0	7,830.1	7,763.5	679.5	584.9	580.7	8.9	7.5	7.5
Albany—Schenectady—Troy .....	355.4	361.1	361.4	27.5	20.5	21.8	7.7	5.7	6.0
Binghamton <sup>1</sup> .....	132.6	133.2	132.6	10.0	8.1	7.9	7.6	6.1	6.0
Buffalo .....	561.8	560.0	557.1	54.2	44.5	45.2	9.6	8.0	8.1
Elmira .....	40.6	39.9	39.7	4.5	3.1	3.1	11.0	7.7	7.8
Nassau—Suffolk .....	1,198.7	1,237.1	1,233.2	111.1	79.2	84.1	9.3	6.4	6.8
New York .....	3,565.6	3,668.5	3,611.5	299.5	295.8	287.9	8.4	8.1	8.0
New York City <sup>2</sup> .....	3,006.0	3,098.0	3,041.0	259.0	259.0	250.0	8.6	8.4	8.2
Poughkeepsie .....	95.6	99.3	99.2	5.7	4.8	5.3	6.0	4.8	5.4
Rochester .....	447.9	448.5	445.5	34.2	27.6	27.7	7.6	6.1	6.2
Syracuse .....	282.6	292.1	289.1	24.5	18.6	18.8	8.7	6.4	6.5
Utica—Rome .....	136.7	134.2	133.8	14.6	9.9	9.2	10.7	7.4	6.8
<b>NORTH CAROLINA</b>	2,612.8	2,654.6	2,679.6	146.7	106.8	102.8	5.6	4.0	3.8
Asheville .....	78.3	81.8	82.9	4.0	2.9	2.6	5.1	3.5	3.1
Charlotte—Gastonia .....	318.5	327.6	329.4	13.9	8.7	8.1	4.3	2.7	2.5
Greensboro—Winston-Salem—High Point .....	399.7	410.0	411.2	20.2	13.5	12.5	5.1	3.3	3.0
Raleigh—Durham .....	253.4	268.0	266.4	9.9	6.6	6.1	3.9	2.5	2.3
<b>NORTH DAKOTA</b>	301.8	294.1	304.2	13.4	13.9	11.1	4.5	4.7	3.6
Fargo—Moorehead .....	67.9	N.A.	N.A.	2.2	N.A.	N.A.	3.2	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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAY. 1977P	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P
<b>OHIO</b> <sup>2</sup>	4,756.5	4,787.6	4,852.4	256.8	269.6	246.6	5.4	5.6	5.1
Akron	291.1	290.8	294.0	16.8	17.7	15.9	5.8	6.1	5.4
Canton	172.7	171.0	172.9	11.3	10.0	9.1	6.5	5.8	5.3
Cincinnati <sup>1</sup>	611.9	618.7	627.2	29.0	29.0	27.9	4.7	4.7	4.4
Cleveland	894.4	893.6	903.5	47.3	44.8	41.3	5.3	5.0	4.6
Columbus	502.7	507.4	513.4	24.5	24.8	23.6	4.9	4.9	4.6
Dayton	362.3	368.2	372.4	16.8	17.8	16.7	4.6	4.8	4.5
Toledo <sup>1</sup>	350.6	359.1	360.7	21.4	23.7	21.3	6.1	6.6	5.9
Youngstown—Warren	230.1	232.0	233.8	14.2	19.7	17.1	6.2	8.5	7.3
<b>OKLAHOMA</b>	1,236.9	1,259.4	1,266.8	64.5	48.9	51.1	5.2	3.9	4.0
Oklahoma City	363.3	384.4	387.1	18.1	12.0	13.2	5.0	3.1	3.4
Tulsa	291.6	297.4	298.3	14.3	11.6	11.9	4.9	3.9	4.0
<b>OREGON</b>	1,124.2	1,160.2	1,165.1	81.8	59.5	58.8	7.3	5.1	5.0
Eugene—Springfield	118.3	120.8	120.5	9.1	7.0	6.9	7.7	5.8	5.7
Portland <sup>1</sup>	539.0	564.5	565.6	36.2	24.9	25.0	6.7	4.4	4.4
Salem	105.1	108.1	108.5	7.5	5.7	5.7	7.1	5.2	5.3
<b>PENNSYLVANIA</b> <sup>2</sup>	5,111.7	5,207.0	5,150.6	326.6	358.5	299.1	6.4	6.9	5.8
Allentown—Bethlehem—Easton <sup>1</sup>	297.1	296.7	294.1	17.4	17.0	14.6	5.9	5.7	5.0
Altoona	55.6	57.2	56.4	3.1	4.3	3.7	5.6	7.5	6.6
Erie	118.5	121.4	120.9	7.6	8.4	7.0	6.5	6.9	5.8
Harrisburg	206.4	209.3	208.4	9.4	10.3	8.7	4.6	4.9	4.2
Johnstown	104.8	104.9	103.4	5.2	11.2	8.9	5.0	10.7	8.6
Lancaster	162.4	167.8	166.8	6.4	7.7	6.8	3.9	4.6	4.1
Northeast Pennsylvania	266.5	268.9	263.9	22.2	22.8	18.2	8.3	8.5	6.9
Philadelphia <sup>1</sup>	2,045.2	2,064.8	2,046.8	156.3	148.2	134.2	7.6	7.2	6.6
Pittsburgh	956.8	977.4	966.2	50.8	59.3	49.1	5.3	6.1	5.1
Reading	144.4	147.8	146.9	8.0	8.6	7.6	5.5	5.8	5.1
Williamsport	49.3	50.8	49.9	3.8	4.1	3.0	7.7	8.1	6.0
York	154.9	160.8	159.6	8.0	8.1	6.9	5.1	5.1	4.3
<b>RHODE ISLAND</b>	440.5	438.0	436.1	38.4	30.5	27.7	8.7	7.0	6.3
Providence—Warwick—Pawtucket <sup>1</sup>	443.0	443.3	442.0	37.8	29.6	27.6	8.5	6.7	6.3
<b>SOUTH CAROLINA</b>	1,284.8	1,293.3	1,308.2	90.1	70.0	70.3	7.0	5.4	5.4
Charleston—North Charleston	145.8	147.4	149.0	10.6	8.7	8.9	7.3	5.9	6.0
Columbia	164.2	171.1	172.6	9.9	6.7	7.0	6.0	3.9	4.0
Greenville—Spartanburg	253.9	252.9	255.0	15.0	12.0	11.8	5.9	4.4	4.6
<b>SOUTH DAKOTA</b>	323.1	328.8	332.1	9.0	8.8	8.8	2.9	2.7	2.7
Sioux Falls	54.6	58.1	58.2	1.3	1.3	1.2	2.4	2.3	2.1
<b>TENNESSEE</b>	1,904.9	1,893.1	1,903.9	112.4	97.3	92.4	5.9	5.1	4.9
Chattanooga <sup>1</sup>	184.1	N.A.	N.A.	9.9	N.A.	N.A.	5.4	N.A.	N.A.
Knoxville	197.9	193.8	193.8	9.9	8.1	7.7	5.0	4.2	4.0
Memphis <sup>1</sup>	373.2	368.0	368.4	23.2	18.4	18.1	6.2	5.0	4.9
Nashville—Davidson	378.8	384.3	386.5	16.4	15.3	13.6	4.3	4.0	3.5
<b>TEXAS</b> <sup>2</sup>	5,702.6	5,912.8	5,936.7	234.4	229.8	247.1	4.1	3.9	4.2
Amarillo	82.7	85.3	85.7	2.4	2.3	2.6	2.9	2.7	3.1
Austin	220.9	234.1	235.1	6.9	5.9	6.6	3.1	2.5	2.8
Baumont—Port Arthur—Orange	163.7	166.2	165.3	9.5	10.7	10.3	5.8	6.4	6.3
Corpus Christi	125.3	129.7	130.3	7.1	6.1	7.1	5.6	4.7	5.5
Dallas—Fort Worth	1,296.6	1,361.1	1,366.0	46.0	45.8	49.9	3.5	3.4	3.7
El Paso	160.9	157.8	158.4	16.2	12.2	13.2	10.1	7.7	8.3
Galveston—Texas City	83.8	86.9	89.3	4.8	4.6	5.0	5.7	5.3	5.6
Houston	1,244.9	1,324.5	1,330.0	41.3	41.4	45.7	3.3	3.1	3.4
Lubbock	95.8	100.6	101.0	2.5	2.8	3.3	2.6	2.8	3.3
San Antonio	382.5	397.3	399.9	20.7	20.0	22.6	5.4	5.0	5.7
Waco	74.3	76.9	77.1	2.6	3.0	3.1	3.5	3.9	4.0
Wichita Falls	58.0	59.8	60.1	1.9	1.8	1.9	3.3	3.0	3.1
<b>UTAH</b>	527.2	532.4	537.2	26.9	22.8	20.0	5.1	4.3	3.7
Salt Lake City—Ogden	351.0	353.7	357.2	17.8	15.0	13.4	5.1	4.3	3.8
<b>VERMONT</b>	225.5	231.6	233.2	15.5	14.8	13.3	6.9	6.4	5.7

See footnotes at end of table.



# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	MAY. 1977R	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P	MAY. 1977R	APR. 1978R	MAY. 1978P
<b>VIRGINIA</b> .....	2,382.5	2,426.6	2,440.8	119.9	115.4	108.9	5.0	4.8	4.5
Lynchburg .....	69.0	70.9	70.8	2.7	3.1	2.7	3.9	4.4	3.8
Newport News—Hampton .....	153.9	159.1	160.2	6.2	8.5	8.0	5.3	5.3	5.0
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	306.5	313.9	317.4	17.3	16.6	16.2	5.6	5.3	5.1
Richmond .....	309.3	319.2	320.7	12.1	10.4	10.7	3.9	3.2	3.3
Roanoke .....	108.0	111.5	112.6	5.3	6.1	5.0	4.9	5.5	4.5
<b>WASHINGTON</b> .....	1,639.0	1,700.6	1,733.2	145.9	109.0	106.1	8.9	6.4	6.1
Seattle—Everett .....	696.2	732.5	746.7	60.2	39.1	39.9	8.6	5.3	5.3
Spokane .....	130.5	138.3	138.4	10.1	7.5	7.2	7.7	5.5	5.2
Tacoma .....	156.4	161.6	162.6	15.4	11.6	11.5	9.9	7.2	7.0
<b>WEST VIRGINIA</b> .....	689.2	690.3	695.4	38.8	33.6	31.8	5.6	4.9	4.6
Charleston .....	112.4	111.0	112.4	4.2	3.3	3.6	3.7	3.0	3.2
Huntington—Ashland <sup>1</sup> .....	114.2	111.5	112.3	5.8	5.7	5.1	5.0	5.1	4.5
Parkersburg—Marietta <sup>1</sup> .....	62.6	62.4	62.7	3.3	2.6	2.3	5.2	4.2	3.7
Wheeling <sup>1</sup> .....	76.2	75.4	75.9	3.6	4.0	3.1	4.8	5.4	4.0
<b>WISCONSIN</b> .....	2,209.3	2,240.2	2,275.6	95.4	97.5	91.6	4.3	4.4	4.0
Appleton—Oshkosh .....	138.3	135.5	136.7	5.6	5.7	5.1	4.1	4.2	3.8
Green Bay .....	84.5	82.3	82.4	4.0	4.5	3.5	4.7	5.5	4.3
Kenosha .....	61.4	56.8	58.4	3.2	4.0	4.6	5.2	7.1	7.9
La Crosse .....	42.9	44.1	44.6	1.9	1.8	1.6	4.5	4.1	3.6
Madison .....	172.5	168.1	172.9	5.7	5.5	5.1	3.3	3.3	2.9
Milwaukee .....	705.8	681.2	691.3	27.7	24.7	24.2	3.9	3.6	3.5
Racine .....	68.3	66.9	68.1	4.1	3.6	3.6	4.6	4.1	4.0
<b>WYOMING</b> .....	192.1	197.5	207.6	6.3	5.9	5.5	3.3	3.0	2.6

<sup>1</sup> Includes interstate portion of area located in adjacent State.

<sup>2</sup> 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 relate to persons "at work" during the survey week. At work data differ from data on total employment because the latter include persons in zero-hour worked category, "with a job but not at work." Included in this latter group are persons who were on vacation, ill, involved in a labor dispute, or otherwise absent from their jobs for voluntary, noneconomic reasons.

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

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

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

**Race.** White and black and other are terms used to describe the race of workers. The black and other category, which until recently had been identified as "Negro and other races" and prior to 1969 as "nonwhite," includes all persons who 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 <sup>1</sup>	Households eligible		Households visited not eligible <sup>2</sup>
		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 <sup>3</sup>	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

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

<sup>2</sup> These are households which were visited, but were found to

be vacant or otherwise not eligible for interview.

<sup>3</sup> 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**

(In thousands)	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
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	<b>OCCUPATION—Continued</b>		
Males, 20 years and over . . . . .	.13	.14	<b>Blue-collar workers—Continued</b>		
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	<b>INDUSTRY</b>		
Part-time workers . . . . .	.34	.42	Nonagricultural private wage and salary workers . . . . .	.13	.14
Unemployed 15 weeks and over . . . . .	.06	.08	Construction . . . . .	.54	.61
<b>OCCUPATION</b>			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 <sup>1</sup>								
	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	—	—	—	—	—	—	—

<sup>1</sup> 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 <sup>1</sup>							
	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 <sup>2</sup>	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	—	—	—	—	—	—	—

<sup>1</sup> See footnote 1, table C.

<sup>2</sup> Part-time labor force for unemployment also includes persons

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

Table E. Standard errors of unemployment rates

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

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

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

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

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

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

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

Type of characteristic	Factor		Type of characteristic	Factor	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Agricultural employment:			Unemployment:		
Total or full-time labor force ...	1.26	1.05	Part-time labor force, duration of unemployment left last job, reentering labor force .....	1.01	1.21
Part-time labor force .....	1.26	1.50	All other unemployment characteristics:		
Labor force data other than agricultural employment data and unemployment data:			Total or white:		
Total .....	1.00	.74	Total .....	.97	1.06
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 I. Summary of methods for

**Table I. 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)
<b>Monthly data</b>		
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.
<b>Annual average data</b>		
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.

Date 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 <sup>1</sup>	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

<sup>1</sup> 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 1974<sup>1</sup>**

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) <sup>2</sup> .....	3,200	2,691,000	100
State and local .....	10,400	6,032,000	52

<sup>1</sup> 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.

<sup>2</sup> 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 errors<sup>1</sup> for average weekly hours and average hourly earnings by industry division**

Industry division	Average benchmark revision in estimates of employment <sup>2</sup>	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 <sup>3</sup> .....	.6	—	—

<sup>1</sup> Relative errors relate to March 1971 data.

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

<sup>3</sup> 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 <sup>1</sup>	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

<sup>1</sup> 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 years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the second-stage estimates are forced into agreement with CPS annual averages. In the 10 States which use CPS estimates monthly, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

## Seasonal adjustment

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

The seasonal adjustment 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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### COOPERATING STATE AGENCIES

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

BLS Region	Cooperating State Agency
IV ALABAMA	Department of Industrial Relations, Industrial Relations Building, <b>Montgomery 36130</b>
X ALASKA	Employment Security Division, Department of Labor, P.O. Box 3 7000, <b>Juneau 99802</b>
IX ARIZONA	Department of Economic Security, P.O. Box 6123, <b>Phoenix 85005</b>
VI ARKANSAS	Employment Security Division, Department of Labor, P.O. Box 2981, <b>Little Rock 72203</b>
IX CALIFORNIA	Employment Development Department, P.O. Box 1579, <b>Sacramento 95808 (LAUS and CES)</b>
VII COLORADO	Management Services, Department of Labor and Employment, 1210 Sherman Street, <b>Denver 80203</b>
CONNECTICUT	Employment Security Division, Labor Department, 200 Emily Brook Boulevard, <b>Wethersfield 06109</b>
DELAWARE	Department of Labor, University Plaza Office Complex, Bldg. D, Chapman Rd., Route 273, <b>Newark 19713</b>
II DIST. OF COL.	Office of Administration and Management Service, D.C. Department of Manpower, Suite 1000, <b>605 G Street, N.W., Washington 20001</b>
IV FLORIDA	Department of Commerce, Caldwell Building, Tallahassee <b>92304</b>
IV GEORGIA	Department of Labor, 254 Washington Street, S.W., <b>Atlanta 30334</b>
IX HAWAII	Department of Labor and Industrial Relations, P.O. Box 3680, <b>Honolulu 96811</b>
X IDAHO	Department of Employment, P.O. Box 35, <b>Boise 83707</b>
V ILLINOIS	Bureau of Employment Security, <b>910 South Michigan Street, Chicago 60605</b>
V INDIANA	Employment Security Division, 10 North Senate Avenue, <b>Indianapolis 46204</b>
VI IOWA	Department of Job Services, <b>1000 East Grand Avenue, Des Moines 50319</b>
VII KANSAS	Division of Employment, Department of Human Resources, <b>401 Topeka Avenue, Topeka 66603</b>
II KENTUCKY	Department of Human Resources, 275 E. Main Street, 2nd Floor West, <b>Frankfort 40601</b>
VI LOUISIANA	Department of Labor, P.O. Box <b>44094- Capitol Station, Baton Rouge 70804</b>
I MAINE	Employment Security Commission, Department of Manpower Affairs, 20 Union Street, <b>Augusta 04330</b>
III MARYLAND	Department of Human Resources, <b>1100 North Calver Street, Baltimore 21201</b>
MASSACHUSETTS	Division of Employment Security, Charles F. Hurley Building, Government Center, <b>Boston 02114</b>
V MICHIGAN	Employment Security Commission, Department of Labor, 7310 Woodward Avenue, <b>Detroit 48202</b>
V MINNESOTA	Department of Economic Security, 390 North Robert Street, <b>St. Paul 55101</b>
IV MISSISSIPPI	Employment Security Commission, P.O. Box 1399, <b>Jackson 39205</b>
VII MISSOURI	Division of Employment Security, Department of Labor and Industrial Relations, P.O. Box 59, <b>Jefferson City 65101</b>
VIII MONTANA	Employment Security Division, Department of Labor and Industry, P.O. Box 1728, <b>Helena 59601</b>
VII NEBRASKA	Division of Employment, Department of Labor, P.O. Box 94600, State House Station, <b>Lincoln 68509</b>
IX NEVADA	Employment Security Department, P.O. Box 502, <b>Carson City 89713</b>
I NEW HAMPSHIRE	Department of Employment Security, 32 South Main Street, <b>Concord 03301</b>
II NEW JERSEY	Department of Labor and Industry, 202 John Fitch Plaza, <b>Trenton 08625</b>
VI NEW MEXICO	Employment Service Division, Department of Human Services, P. O. Box 1928, <b>Albuquerque 87103</b>
II NEW YORK	Division of Research and Statistics, N.Y. State Department of Labor, State Campus-Building 12, <b>Albany 12207</b>
IV NORTH CAROLINA	Employment Security Commission, P.O. Box 25903, <b>Raleigh 27611</b>
VIII NORTH DAKOTA	Employment Security Bureau, P.O. Box 1537, <b>Bismarck 58505</b>
V OHIO	Division of Research and Statistics, Bureau of Employment Services, <b>145 S. Front St., Columbus 43216</b>
VI OKLAHOMA	Employment Security Commission, <b>301 Will Rogers Memorial Office Building, Oklahoma City 73105</b>
X OREGON	Employment Security Division, Department of Human Resources, Room 402, <b>875 Union Street, N.E., Salem 97310</b>
III PENNSYLVANIA	Department of Labor and Industry, Seventh and Forster Streets, <b>Harrisburg 17121</b>
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VI TEXAS	Employment Commission, TEC Building, 15th and Congress Avenue, <b>Austin 78778</b>
VII UTAH	Department of Employment Security, P.O. Box 11249, <b>Salt Lake City 84147</b>
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III VIRGINIA	Division of Research and Statistics, Department of Labor and Industry, P.O. Box <b>12064, Richmond 23241 (CES)</b> . Employment Commission, P.O. Box 1358, <b>Richmond 23211 (LAUS and LTS)</b>
X WASHINGTON	Employment Security Department, <b>1007 South Washington Street, Olympia 98501</b>
III WEST VIRGINIA	Department of Employment Security, State Office Building, <b>112 California Avenue, Charleston 25305</b>
V WISCONSIN	Department of Industry, Labor, and Human Relations, P.O. Box <b>7944, Madison 53707</b>
VIII WYOMING	Employment Security Commission, P.O. Box 2760, <b>Casper 82601</b>