

# Employment and Earnings

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# Employment and Unemployment Developments, May 1979

Employment rose slightly in May, and unemployment was unchanged. The Nation's unemployment rate was 5.8 percent, the same as in April; it has been in the 5.7 to 5.9 percent range for the past 10 months.

Total employment—as measured by the monthly survey of households—edged up by 140,000 in May following a very sharp decline in April. At 96.3 million, total employment was 2.4 million higher than a year ago.

Nonfarm payroll employment—as measured by the monthly survey of establishments—rose by 170,000 in May to 88.4 million. Nonfarm payroll jobs have advanced by 2.9 million since May 1978. Average weekly hours rebounded somewhat from depressed April levels but were still considerably below March and year-earlier levels.

## Unemployment

Both the unemployment rate, 5.8 percent, and the number of unemployed, 5.9 million, were the same as in April, and have remained near the levels which have prevailed since August 1978. The May jobless rates for adult men (3.9 percent), adult women (5.8 percent), and teenagers (16.8 percent) were little changed from April and also have not shown much variation since last August. Unemployment rates for whites (5.0 percent) and blacks (11.6 percent) and most other worker groups were also at or near the levels which have been in evidence over the past several months. (See tables A-33 and A-36.)

## Total employment and the labor force

Total employment advanced very slightly in May (140,000) to 96.3 million. Because of the large employment decline in April, the May level was still more than half a million below that of March. Because of strong growth in the months prior to April, employment in May was 2.4 million higher than a year earlier. Over-the-year job gains among adult women were especially pronounced (1.5 million); adult men posted an employment advance of 1.0 million. Employment among teenagers was down slightly over the year, in part a reflection of their declining population. (See table A-33.)

The civilian labor force also advanced very slightly over the month to 102.2 million and was 2.2 million higher than May 1978. At 63.4 percent, the civilian labor force participation rate was about unchanged from its April level but was down 0.5 percentage point from the February-March all-time high. Participation was up over the year, however, with adult women accounting for all of the increase. (See table A-33.)

## Industry payroll employment

Nonfarm payroll employment, at 88.4 million, rose by 170,000 in May following no change in April. The small increase since March was in sharp contrast to the situation during the previous 6 months when employment grew by an average of 350,000 a month.

Among the major industry divisions, only three—construction, transportation and public utilities, and wholesale and retail trade—showed sizeable over-the-month job gains. A 65,000 increase in construction employment was mostly in highway and street construction, probably due to heightened road repair activity resulting from severe winter storms. Despite a May employment growth of 50,000 stemming from the settlement of the Teamsters strike, transportation and public utilities failed to recoup completely the losses experienced during the previous month, as United Airlines employees remained on strike during the reference period. Trade rose by 45,000 over the month, continuing the long-term uptrend in the industry.

Manufacturing employment in both the durable and nondurable goods industries edged down for the second month in a row, returning to February levels. In all, job gains took place in only 48 percent of the 172 industries comprising the BLS diffusion index. (See tables B-4 and B-7.)

## Hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was 35.6 hours in May, up 0.2 hour from the depressed April level, which had been affected by holidays, strike activity, and, perhaps, by unusual weather conditions. The April decline of half an hour was not matched by the May increase, and, among the major goods-producing industry divisions, only the mining workweek was as high as its March level. Construction (down 0.9 hour from March), durable goods manufacturing (down 0.7 hour), and nondurable goods (down 0.5 hour) did not rebound completely from their severe April decline in hours. Overtime hours in manufacturing—3.4 in May—followed essentially the same pattern as the regular workweek during the March-May period.

Among the service-producing industries, only transportation and public utilities showed a workweek pattern similar to that of the goods-producing industries; hours were up 0.4 in May but still were 0.5 below their March level. Average hours in the other service-producing industries did not follow the same pattern over the past 2 months. (See table C-7.)

With the combination of small increases in both employment and weekly hours, the index of aggregate weekly hours of production or nonsupervisory workers rose 1.0 percent in May but remained about the same magnitude below March's record high of 124.7 (1967=100). The index was 3 percent above the year-ago level. (See table C-8.)

#### Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls rose 0.7 percent from April and were 8.2 percent above the May 1978 level (seasonally adjusted). Average weekly earnings were up 1.2 percent over the month and have risen 7.3 percent from the year-earlier level.

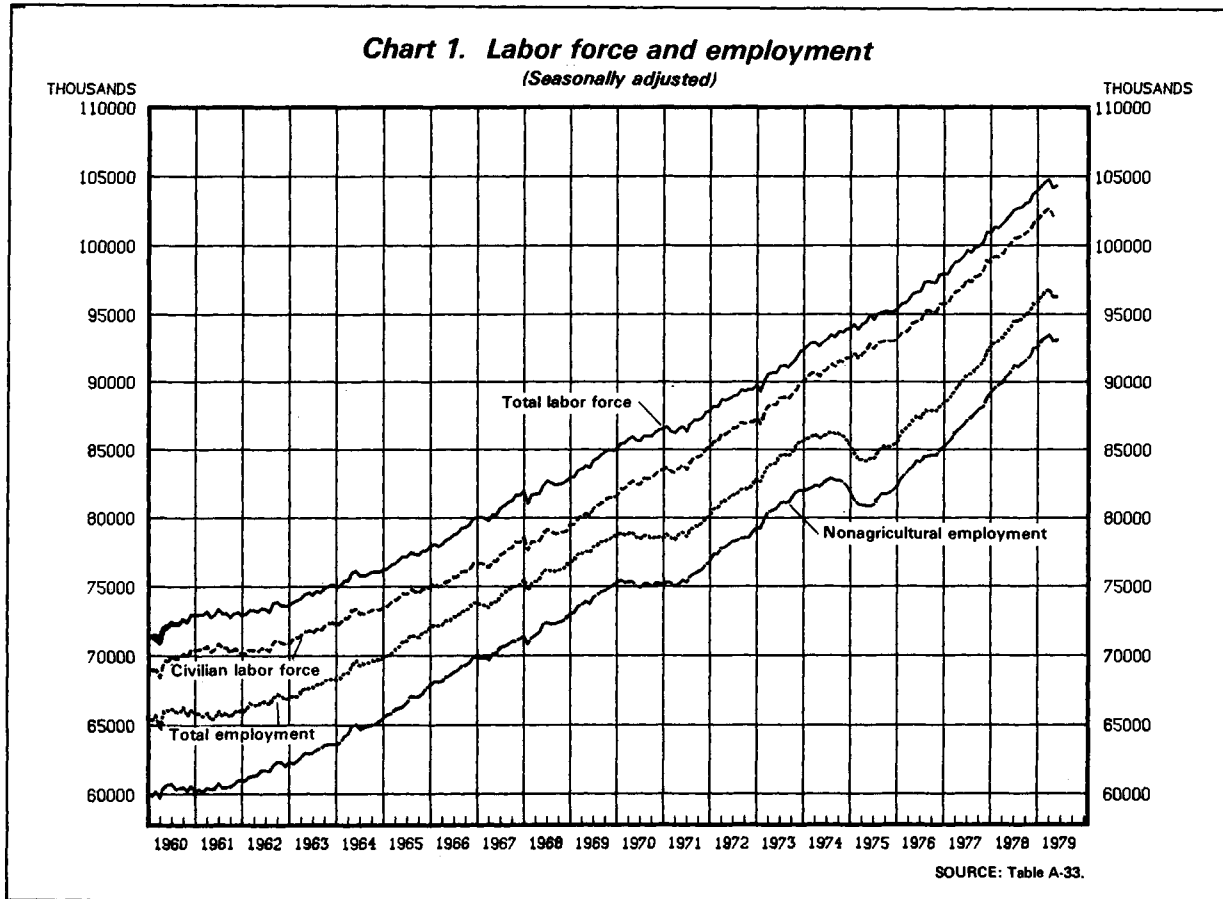
Before adjustment for seasonality, average hourly earnings rose 5 cents to \$6.07, 45 cents above May 1978. Average weekly earnings were \$215.49, \$4.19 above April and \$14.86 higher than a year earlier. (See tables C-1 and C-9.)

#### The Hourly Earnings Index

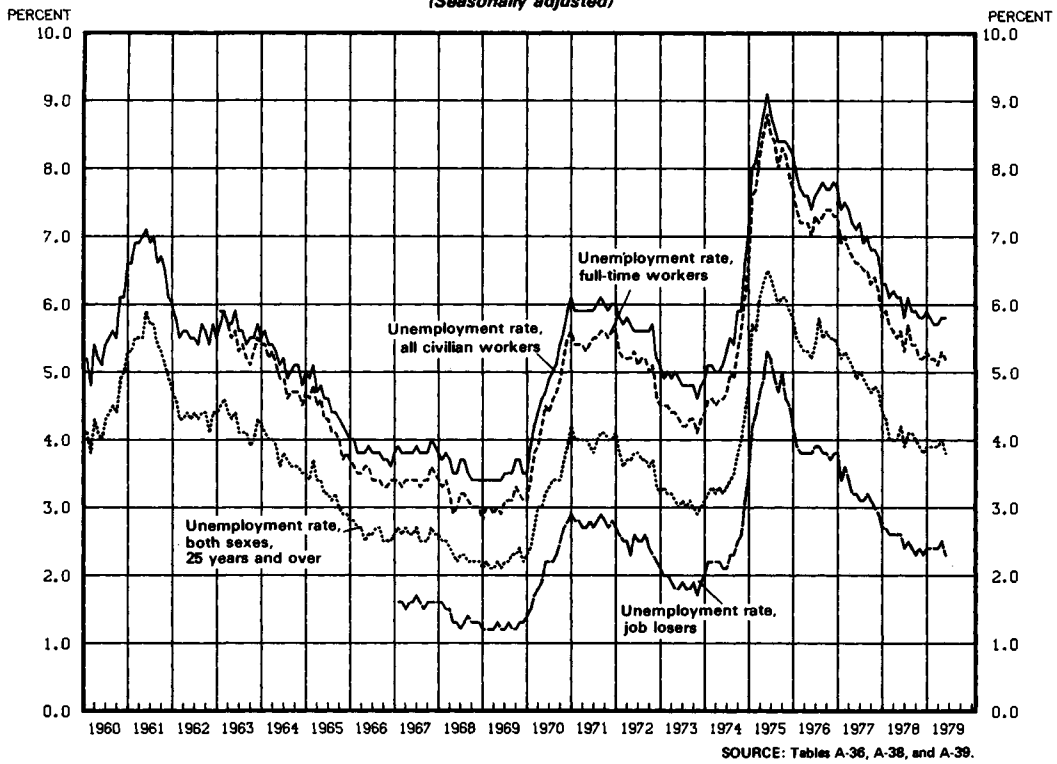
The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 227.1 (1967=100) in May, 0.1 percent higher than in April. The index was 7.6 percent above May a year ago. During the 12-month period ended in April, the Hourly Earnings Index in dollars of constant purchasing power declined 2.5 percent. (See table C-9.)

# CHARTS

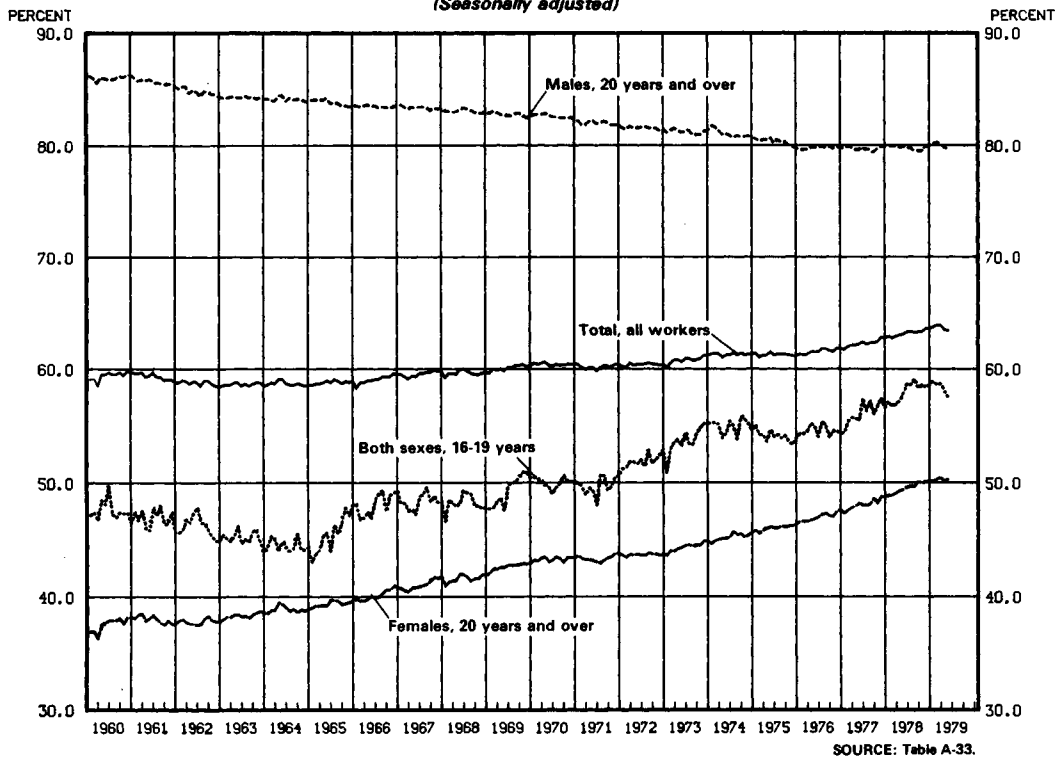
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**Chart 2. Major unemployment indicators**  
(Seasonally adjusted)

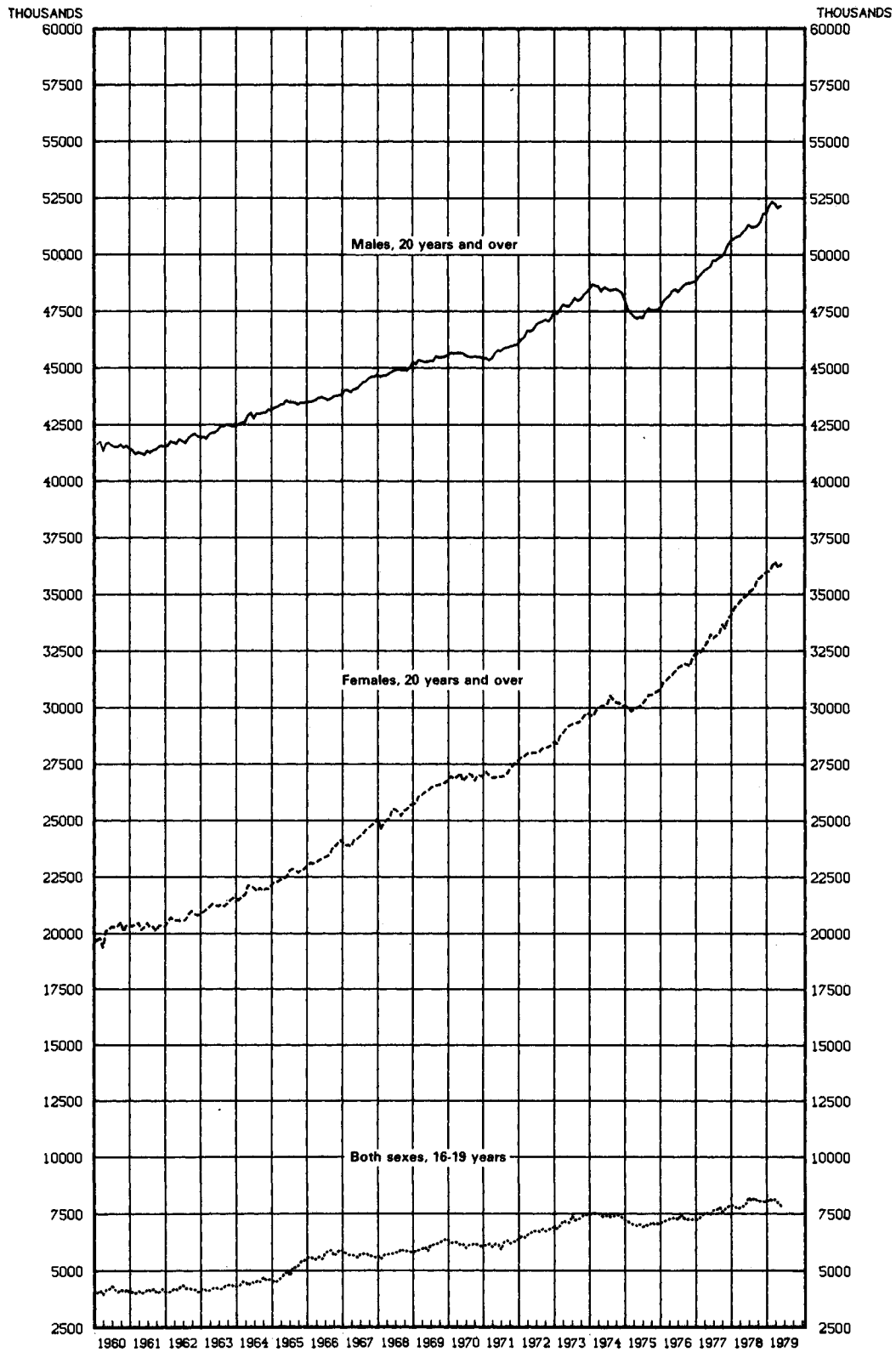


**Chart 3. Civilian labor force participation rates by sex and age**  
(Seasonally adjusted)



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

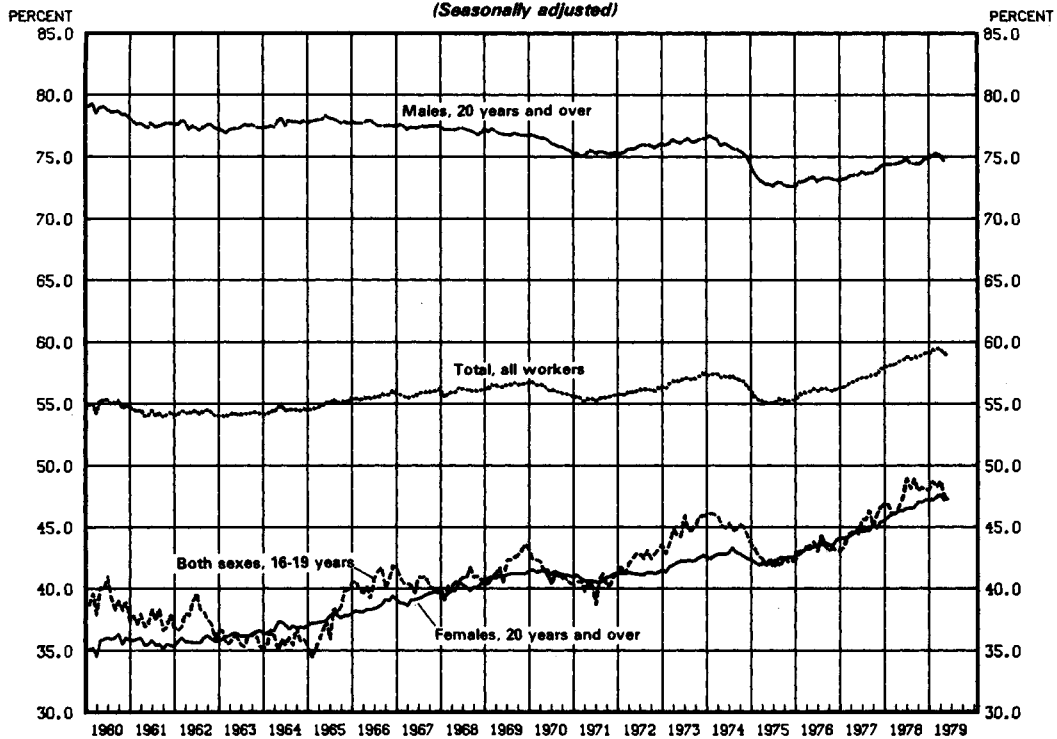
(Seasonally adjusted)



SOURCE: Table A-33.

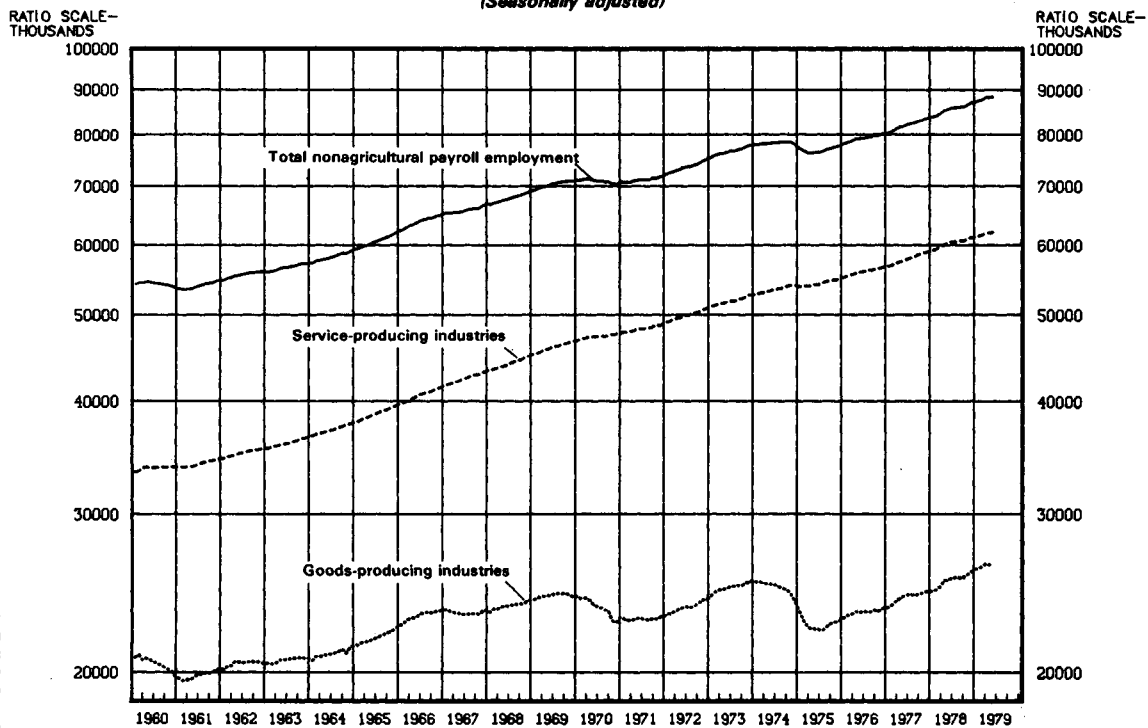


**Chart 5. Employment—population ratios by sex and age**  
(Seasonally adjusted)



SOURCE: Table A-33.

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

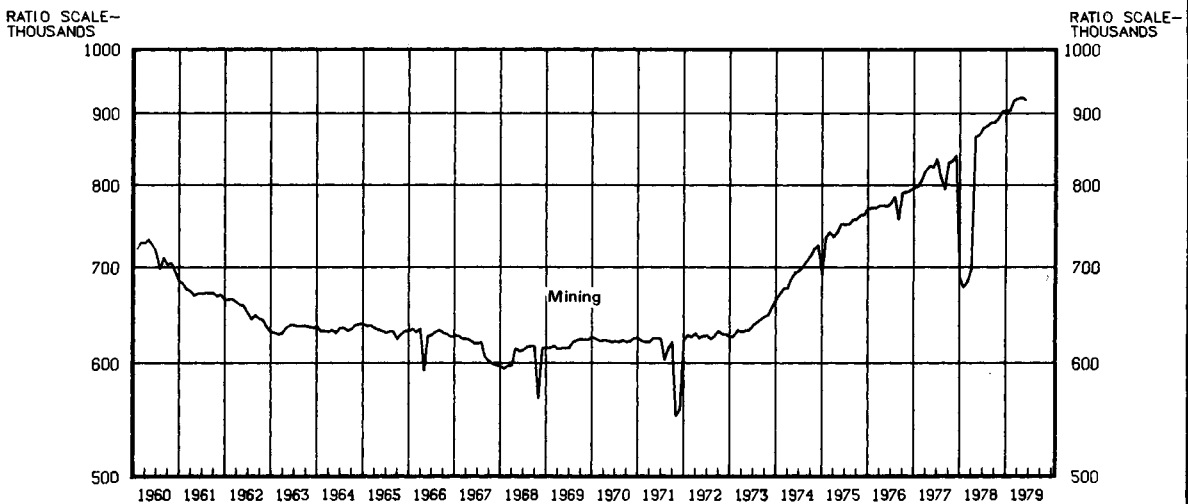
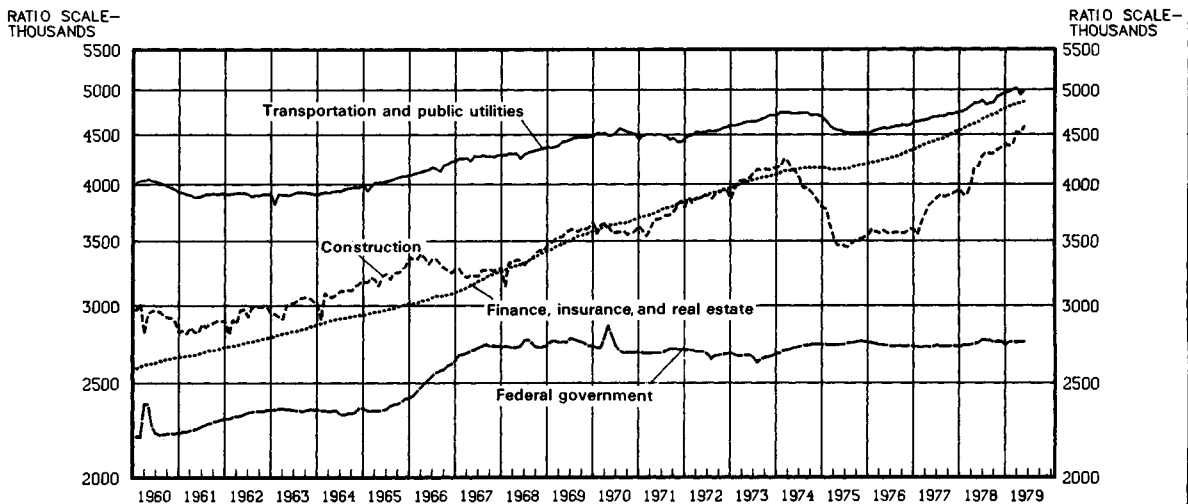
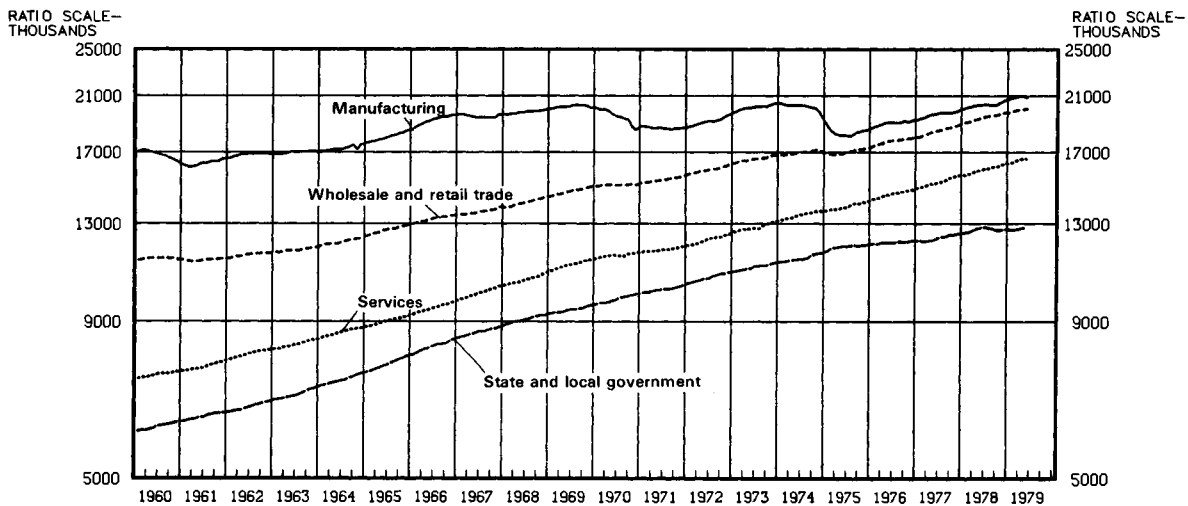


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

### Chart 7. Nonagricultural payroll employment by industry

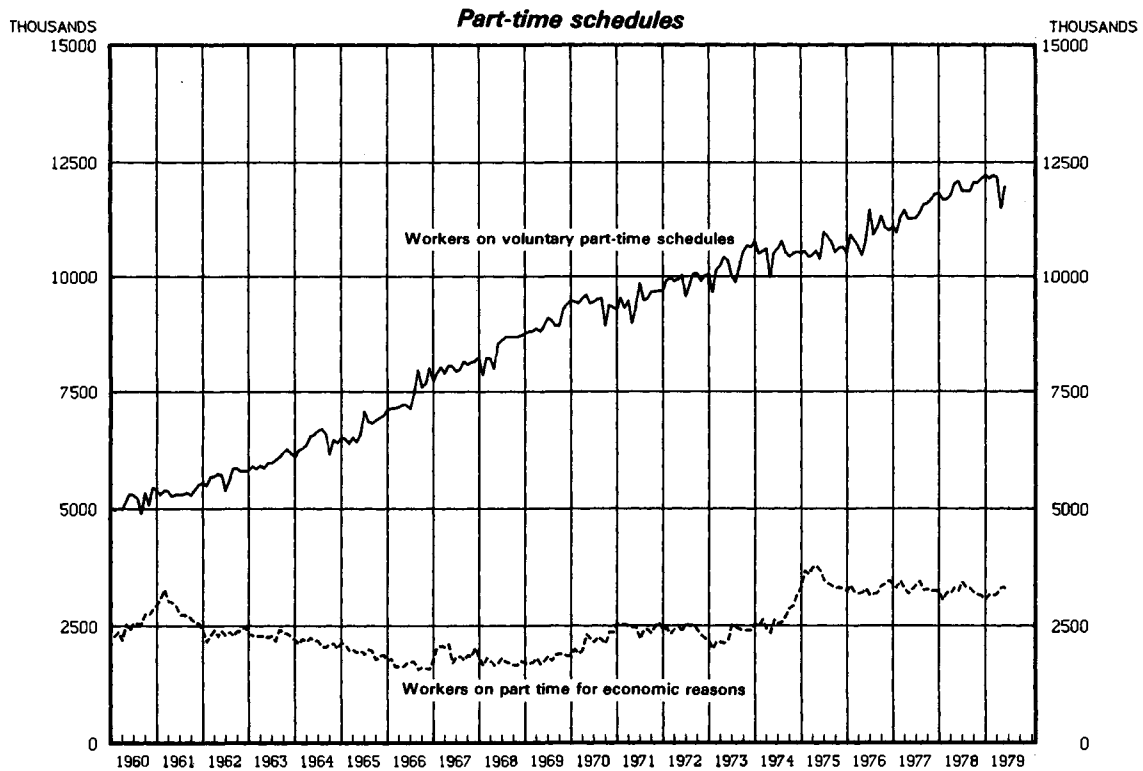
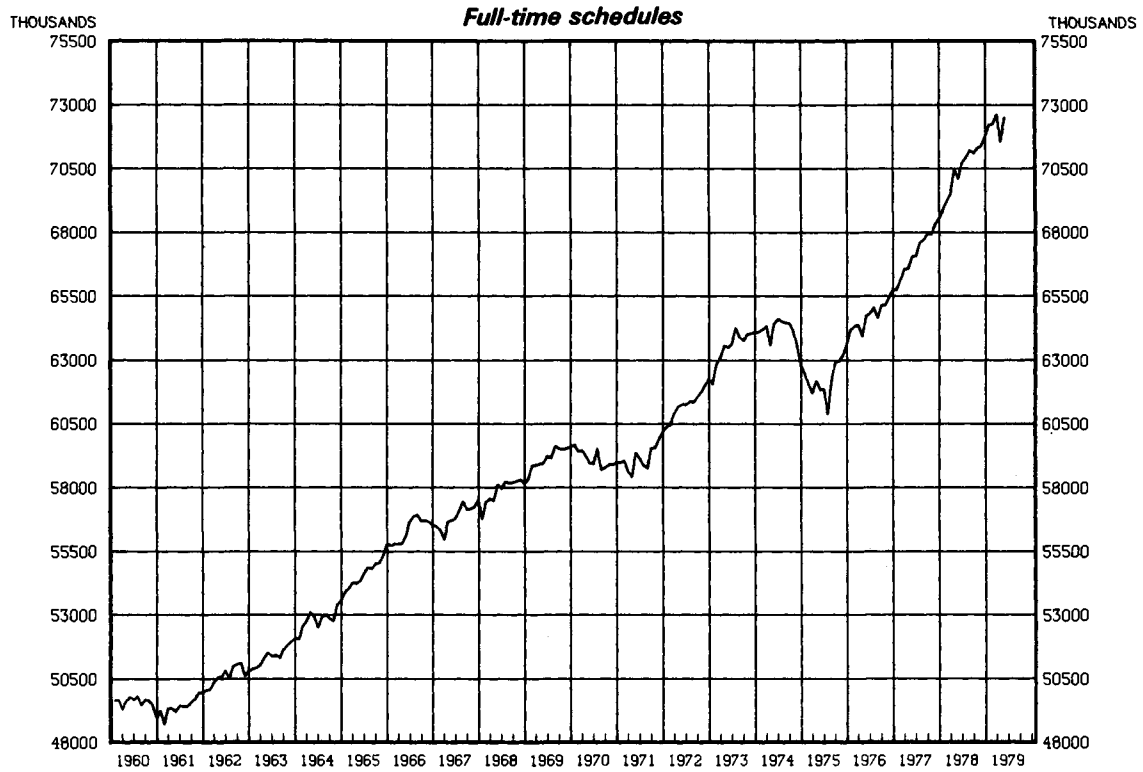
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

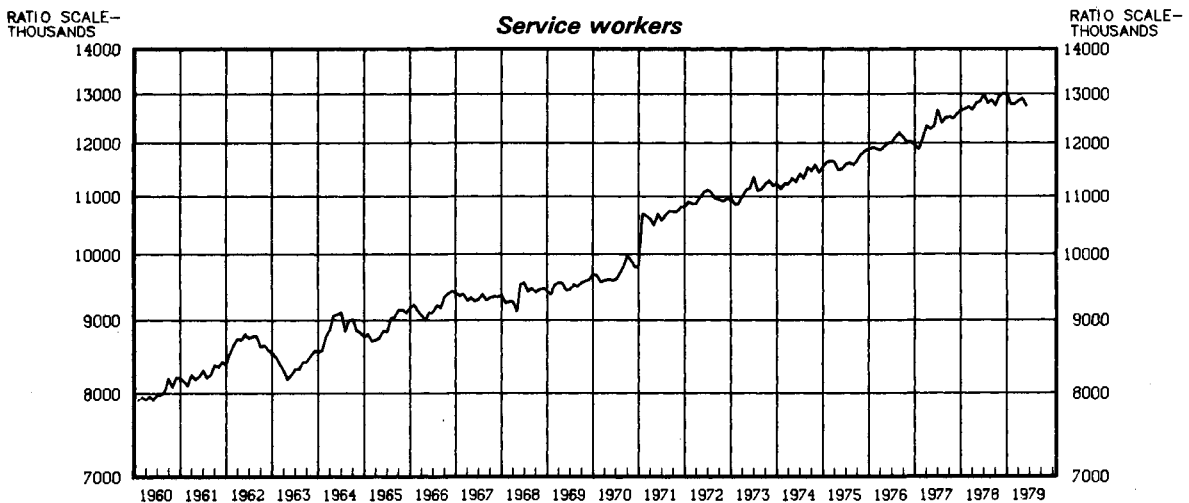
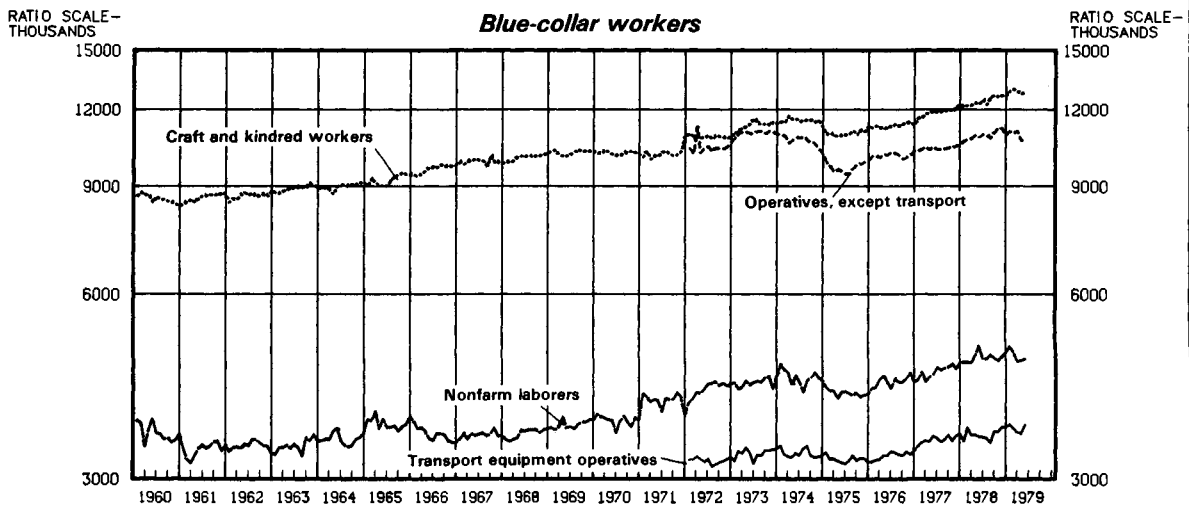
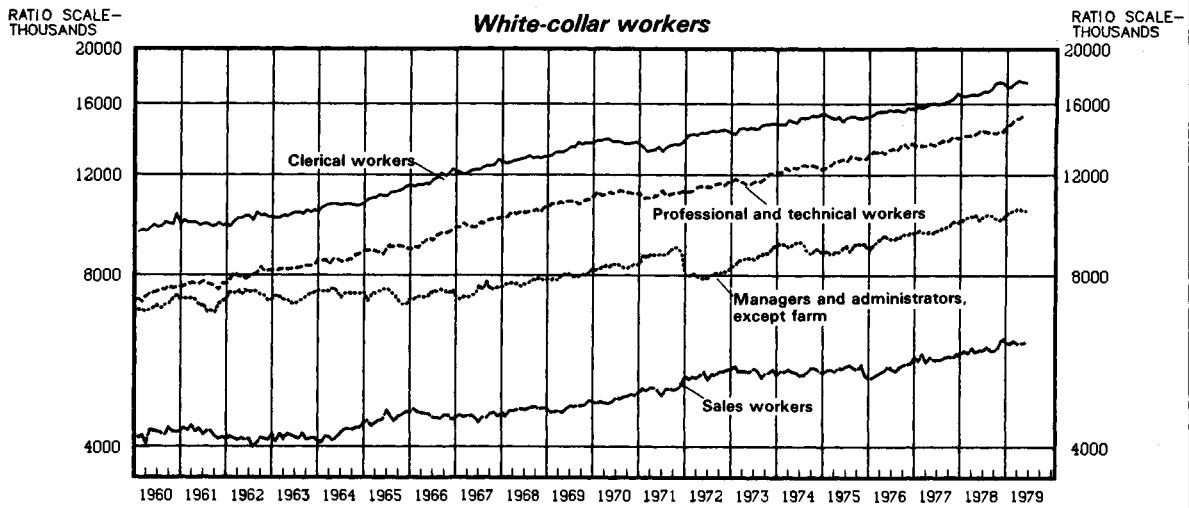
**Chart 8. Persons at work full and part time in nonagricultural industries**  
(Seasonally adjusted)



SOURCE: Table A-42.

### Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)

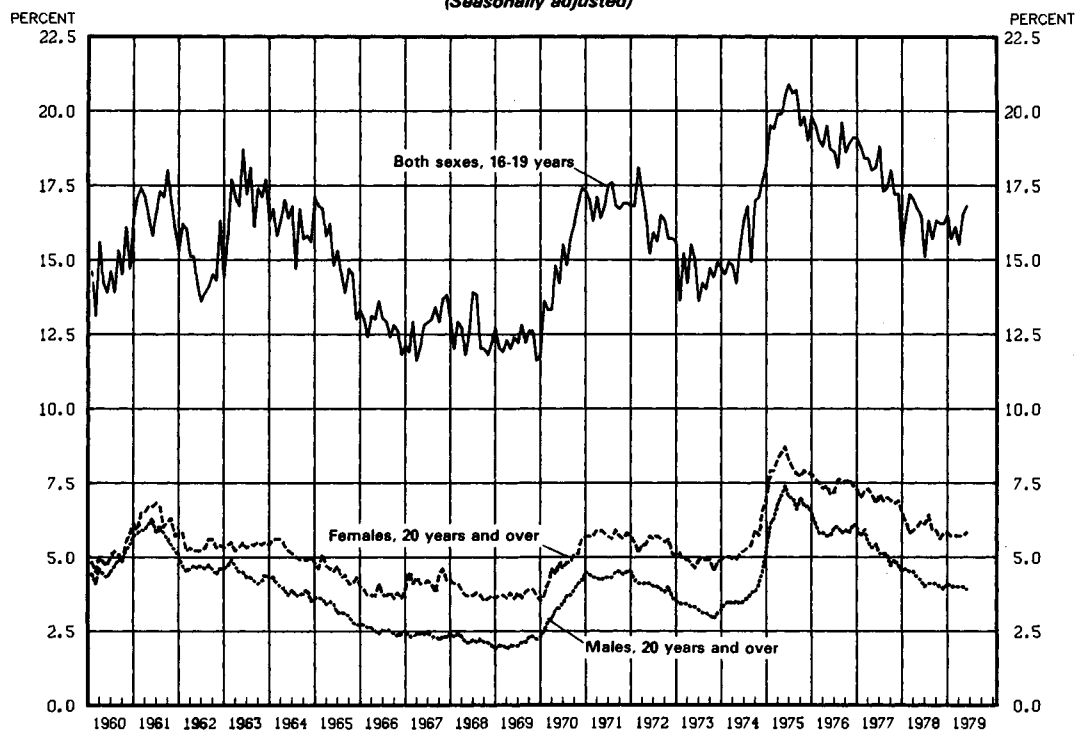


NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

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

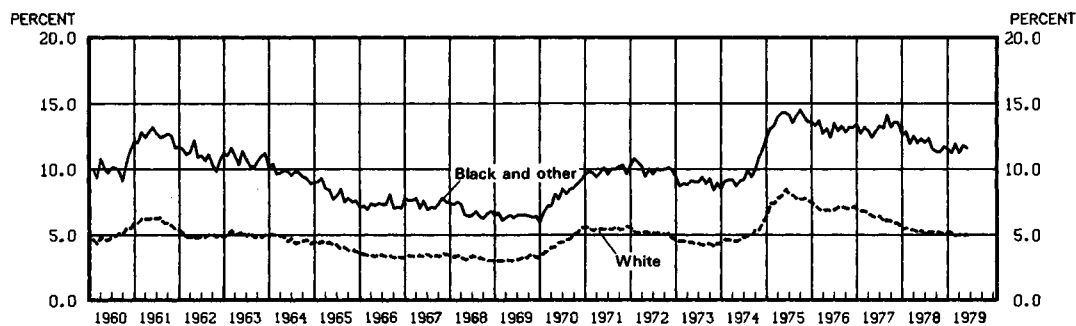
*(Seasonally adjusted)*



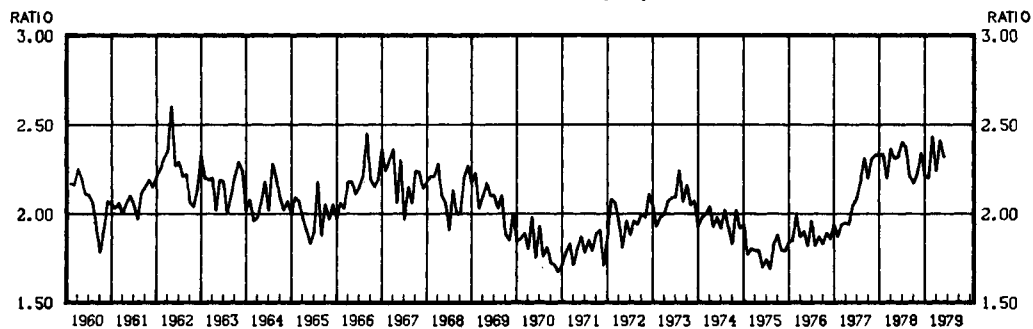
SOURCE: Table A-36.

**Chart 11. Unemployment rates by race**

*(Seasonally adjusted)*

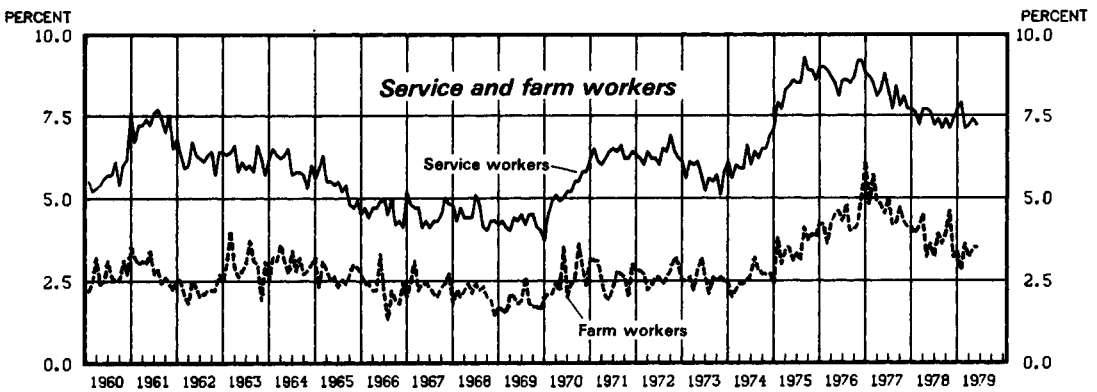
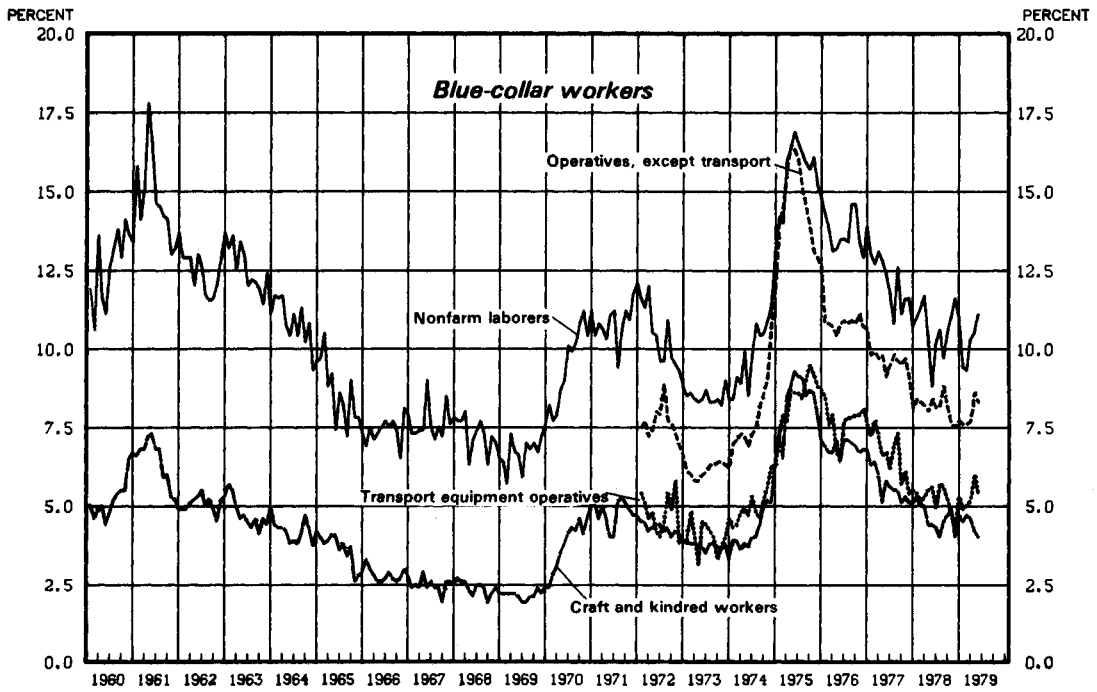
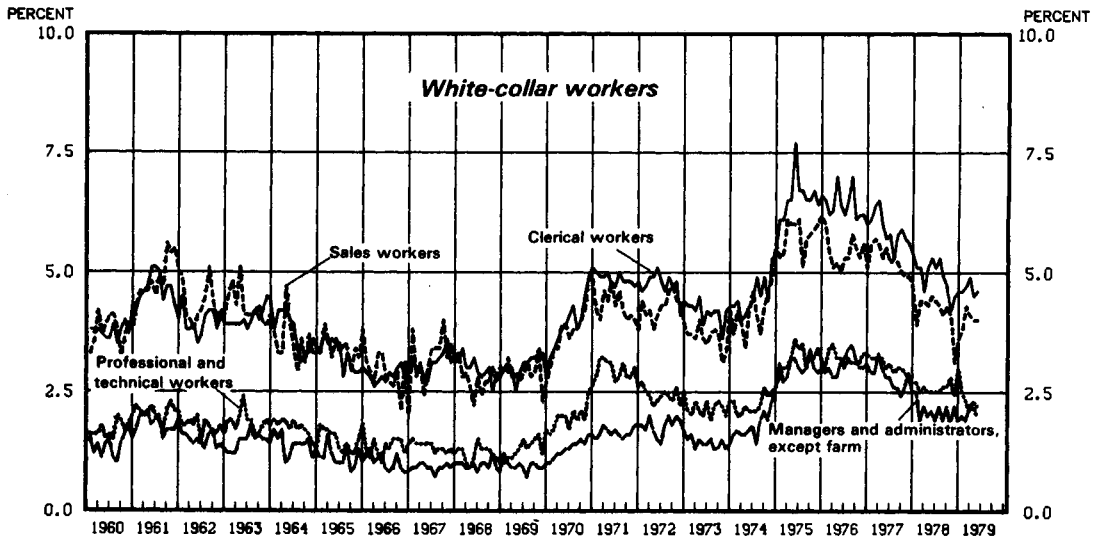


**Ratio of black to white unemployment rate**



SOURCE: Table A-35.

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

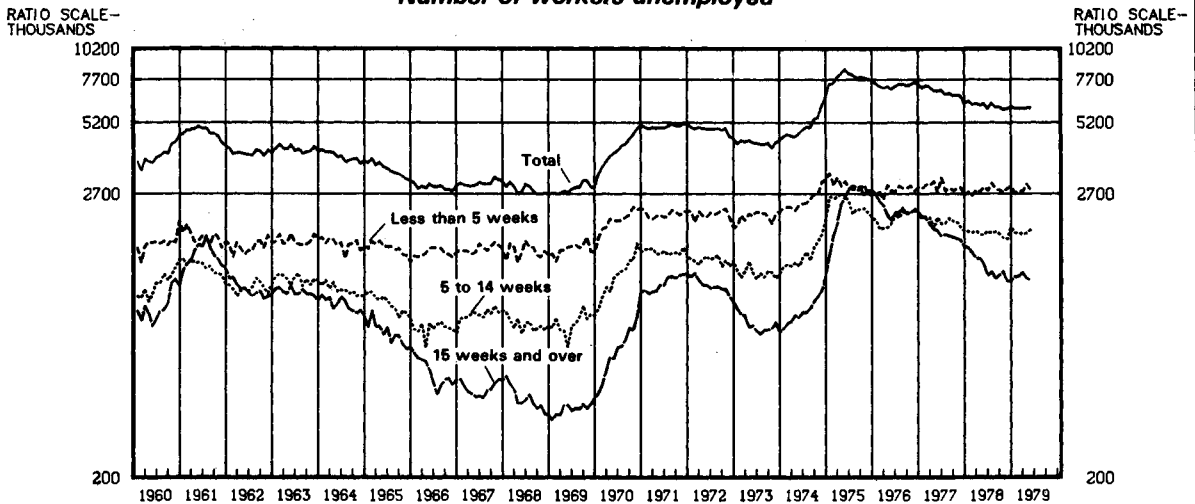


SOURCE: Table A-36.

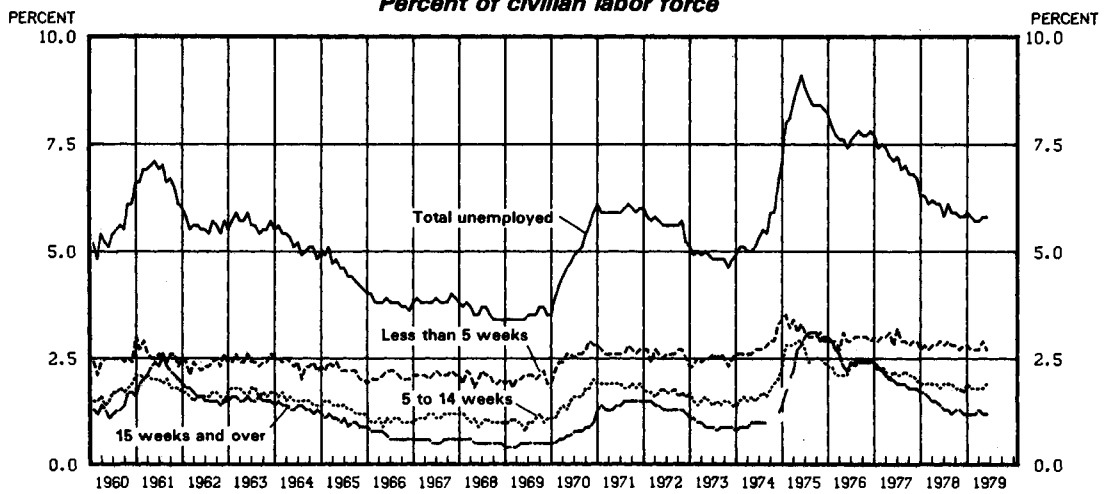
### Chart 13. Duration of unemployment

(Seasonally adjusted)

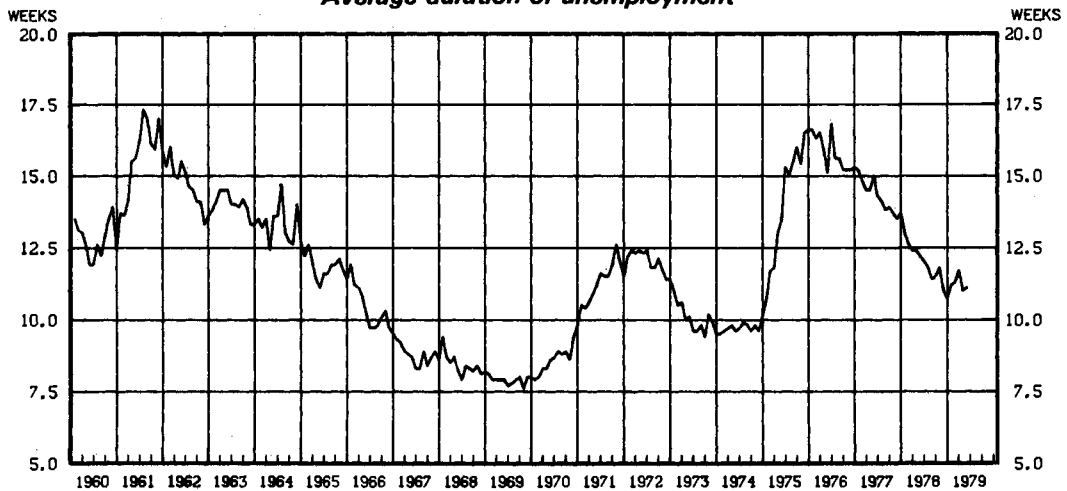
#### Number of workers unemployed



#### Percent of civilian labor force

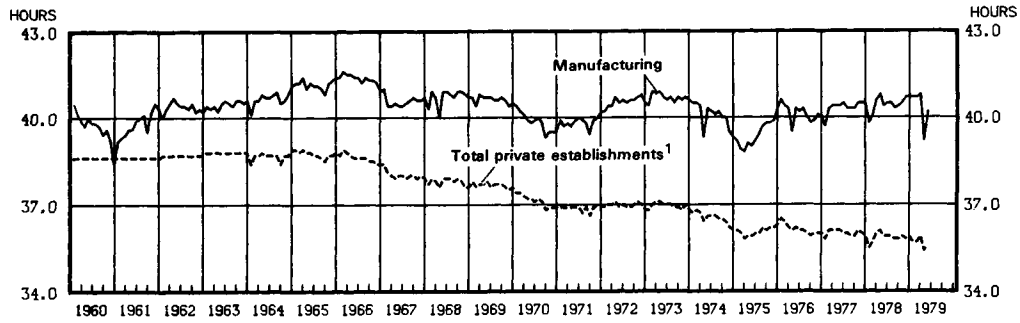


#### Average duration of unemployment

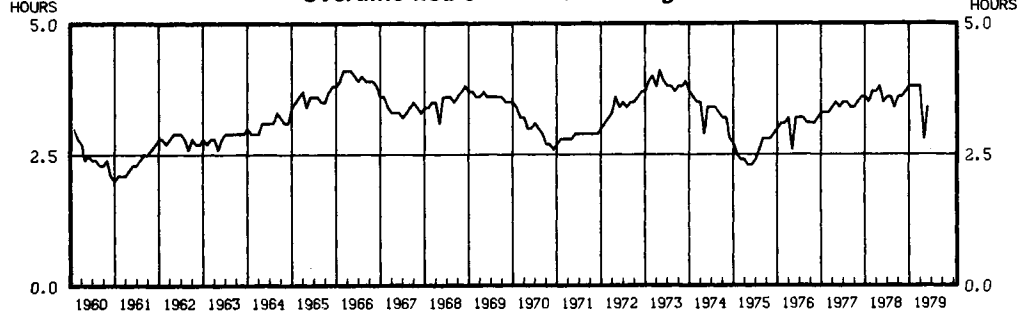


SOURCE: Table A-37.

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



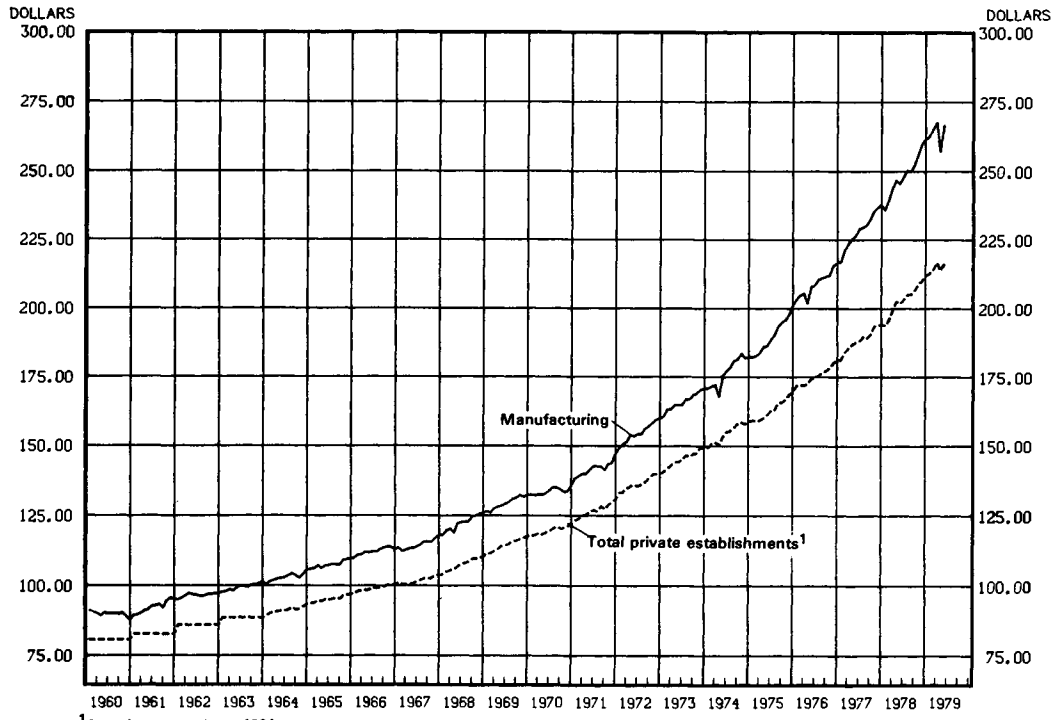
**Overtime hours in manufacturing**



<sup>1</sup>Annual averages prior to 1964.  
NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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

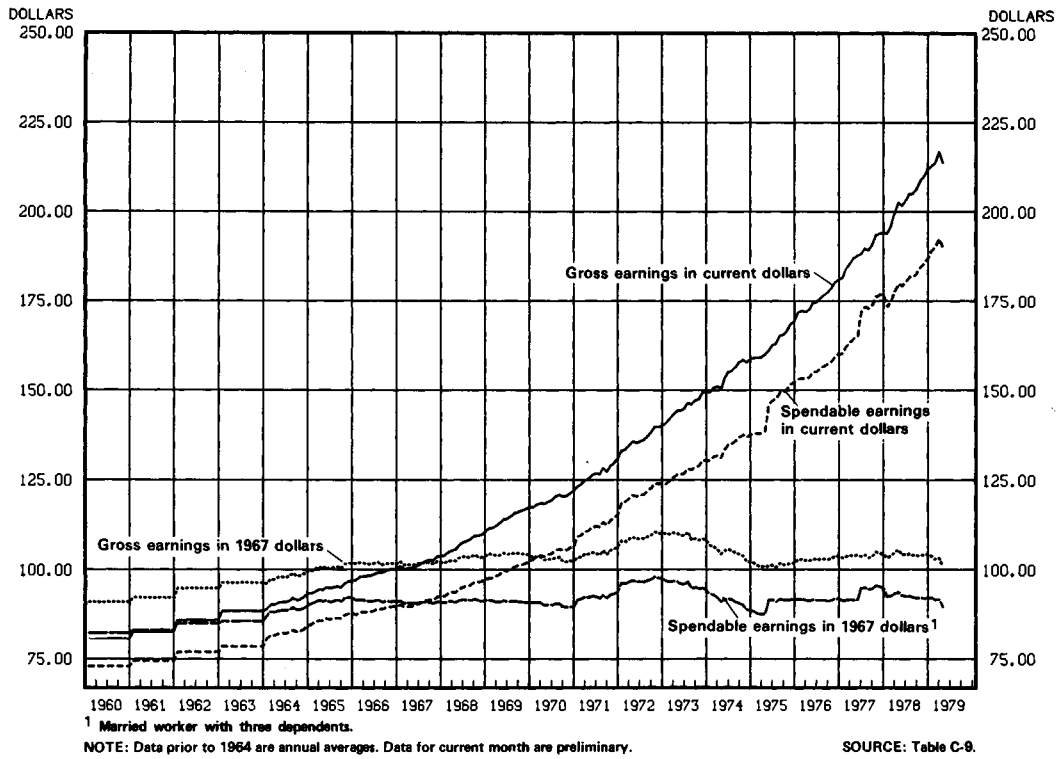


<sup>1</sup>Annual averages prior to 1964.  
NOTE: Data for two most recent months are preliminary.

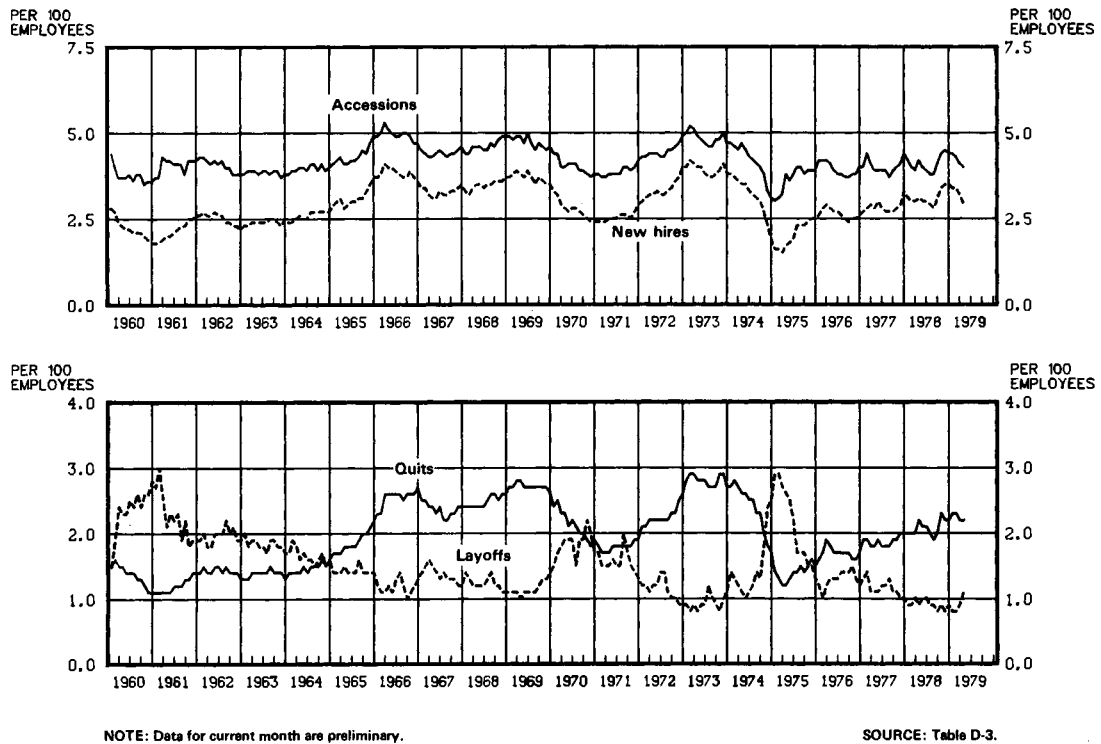
SOURCE: Tables C-7 and C-9.



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



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



**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						Net in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
<b>TOTAL</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 <sup>1</sup> .....	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 <sup>1</sup> .....	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.....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978.....	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
Monthly data, seasonally adjusted <sup>2</sup>										
<b>1978:</b>										
May.....	160,713	102,222	63.6	100,109	93,953	3,243	90,710	6,156	6.1	58,492
June.....	160,928	102,602	63.8	100,504	94,640	3,424	91,216	5,864	5.8	58,326
July.....	161,148	102,738	63.8	100,622	94,446	3,377	91,069	6,176	6.1	58,410
August....	161,348	102,785	63.7	100,663	94,723	3,351	91,372	5,940	5.9	58,563
September..	161,570	103,097	63.8	100,974	95,010	3,406	91,604	5,964	5.9	58,473
October...	161,829	103,199	63.8	101,077	95,241	3,374	91,867	5,836	5.8	58,630
November..	162,033	103,745	64.0	101,628	95,751	3,275	92,476	5,877	5.8	58,288
December..	162,250	103,975	64.1	101,867	95,855	3,387	92,468	6,012	5.9	58,275
<b>1979:</b>										
January..	162,448	104,277	64.2	102,183	96,300	3,232	93,068	5,883	5.8	58,170
February..	162,633	104,621	64.3	102,527	96,647	3,311	93,335	5,881	5.7	58,012
March....	162,909	104,804	64.3	102,714	96,842	3,343	93,499	5,871	5.7	58,105
April.....	163,008	104,193	63.9	102,111	96,174	3,186	92,987	5,937	5.8	58,815
May.....	163,260	104,325	63.9	102,247	96,318	3,184	93,134	5,929	5.8	58,935

<sup>1</sup> Not strictly comparable with data for prior years. For an explanation, see "Historical 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	Agri-culture	Nonagri-cultural 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.....	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
1978 <sup>1</sup> .....	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1978:</b>										
May.....	77,000	60,396	78.4	58,404	55,372	2,636	52,736	3,032	5.2	16,604
June.....	77,102	60,555	78.5	58,582	55,766	2,745	53,021	2,816	4.8	16,546
July.....	77,206	60,492	78.4	58,502	55,531	2,718	52,813	2,971	5.1	16,715
August....	77,301	60,510	78.3	58,517	55,580	2,695	52,885	2,937	5.0	16,792
September..	77,407	60,552	78.2	58,559	55,594	2,739	52,855	2,965	5.1	16,855
October..	77,546	60,717	78.3	58,725	55,754	2,707	53,047	2,971	5.1	16,829
November..	77,643	61,006	78.6	59,019	56,096	2,614	53,482	2,923	5.0	16,636
December..	77,746	61,095	78.6	59,116	56,072	2,702	53,370	3,044	5.1	16,651
<b>1979:</b>										
January..	77,839	61,438	78.9	59,475	56,449	2,596	53,854	3,026	5.1	16,401
February..	77,926	61,501	78.9	59,538	56,549	2,649	53,900	2,989	5.0	16,425
March.....	78,058	61,515	78.8	59,560	56,559	2,656	53,903	3,001	5.0	16,543
April.....	78,105	61,215	78.4	59,268	56,267	2,559	53,708	3,001	5.1	16,890
May.....	78,225	61,206	78.2	59,262	56,352	2,583	53,769	2,910	4.9	17,019
<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
1978 <sup>1</sup> .....	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1978:</b>										
May.....	83,714	41,826	50.0	41,705	38,581	607	37,974	3,124	7.5	41,888
June.....	83,826	42,047	50.2	41,922	38,874	679	38,195	3,048	7.3	41,779
July.....	83,941	42,246	50.3	42,120	38,915	659	38,256	3,205	7.6	41,695
August....	84,047	42,276	50.3	42,146	39,143	656	38,487	3,003	7.1	41,772
September..	84,162	42,545	50.6	42,415	39,416	667	38,749	2,999	7.1	41,618
October..	84,283	42,482	50.4	42,352	39,487	667	38,820	2,865	6.8	41,801
November..	84,390	42,738	50.6	42,609	39,655	661	38,994	2,954	6.9	41,652
December..	84,504	42,880	50.7	42,751	39,783	685	39,098	2,968	6.9	41,624
<b>1979:</b>										
January..	84,608	42,840	50.6	42,708	39,851	636	39,214	2,857	6.7	41,769
February..	84,707	43,121	50.9	42,989	40,098	663	39,435	2,891	6.7	41,587
March.....	84,851	43,289	51.0	43,153	40,283	687	39,596	2,870	6.7	41,563
April.....	84,903	42,978	50.6	42,843	39,907	627	39,279	2,936	6.9	41,925
May.....	85,035	43,121	50.7	42,986	39,966	601	39,365	3,019	7.0	41,914

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

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

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

[Numbers in thousands]

Sex, age, and race	May 1979										
	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 .....	60,812	77.7	58,868	56,280	2,588	4.4	17,413	333	4,471	1,752	10,857
16 to 21 years .....	8,512	66.9	7,860	6,920	940	12.0	4,215	37	3,716	26	436
16 to 19 years .....	5,043	59.8	4,763	4,104	658	13.8	3,395	17	3,069	8	301
16 to 17 years .....	2,040	48.8	2,028	1,706	322	15.9	2,137	12	1,984	4	136
18 to 19 years .....	3,003	70.5	2,735	2,399	336	12.3	1,259	5	1,084	4	166
20 to 64 years .....	53,840	89.4	52,176	50,315	1,862	3.6	6,363	149	1,399	1,268	3,547
20 to 24 years .....	8,806	86.0	8,063	7,448	615	7.6	1,437	31	1,049	37	320
25 to 54 years .....	37,921	94.3	37,002	35,933	1,069	2.9	2,272	71	341	638	1,222
25 to 29 years .....	8,555	94.8	8,191	7,880	312	3.8	471	7	211	45	206
30 to 34 years .....	7,777	96.5	7,534	7,286	248	3.3	284	12	59	71	142
35 to 39 years .....	6,279	96.0	6,089	5,933	155	2.6	259	12	34	92	121
40 to 44 years .....	5,242	94.7	5,156	5,036	120	2.3	291	8	22	96	165
45 to 49 years .....	5,065	93.4	5,035	4,933	102	2.0	359	17	10	127	206
50 to 54 years .....	5,004	89.2	4,997	4,866	132	2.6	608	15	6	206	381
55 to 64 years .....	7,112	72.8	7,111	6,933	178	2.5	2,654	48	8	592	2,005
55 to 59 years .....	4,368	81.6	4,367	4,254	113	2.6	986	21	6	295	664
60 to 64 years .....	2,745	62.2	2,745	2,679	65	2.4	1,668	27	2	297	1,341
65 years and over .....	1,929	20.1	1,929	1,860	68	3.6	7,655	167	4	476	7,008
65 to 69 years .....	1,159	30.6	1,159	1,104	55	4.7	2,628	55	2	180	2,391
70 years and over .....	770	13.3	770	756	14	1.8	5,027	112	2	296	4,616
<b>White</b>											
16 years and over .....	54,073	78.5	52,530	50,544	1,987	3.8	14,824	275	3,564	1,408	9,576
16 to 21 years .....	7,483	69.2	6,979	6,262	718	10.3	3,333	25	2,944	18	346
16 to 19 years .....	4,479	62.7	4,263	3,751	511	12.0	2,668	14	2,399	6	248
16 to 17 years .....	1,842	52.4	1,832	1,578	254	13.8	1,677	11	1,545	3	119
18 to 19 years .....	2,637	72.7	2,431	2,173	258	10.6	991	4	854	4	130
20 to 64 years .....	47,865	90.1	46,540	45,117	1,423	3.1	5,254	117	1,163	1,006	2,969
20 to 24 years .....	7,647	86.8	7,075	6,618	457	6.5	1,161	21	887	30	222
25 to 54 years .....	33,725	95.0	32,972	32,144	828	2.5	1,757	51	271	501	934
25 to 29 years .....	14,439	96.2	13,950	13,527	423	3.0	563	13	222	87	240
30 to 34 years .....	10,280	96.2	10,047	9,835	212	2.1	403	14	34	148	207
35 to 44 years .....	9,007	91.9	8,975	8,782	192	2.1	791	23	15	266	487
55 to 64 years .....	6,494	73.5	6,493	6,354	138	2.1	2,336	45	5	474	1,812
55 to 59 years .....	3,987	82.6	3,986	3,903	83	2.1	838	18	3	236	581
60 to 64 years .....	2,507	62.6	2,507	2,452	55	2.2	1,498	26	2	238	1,231
65 years and over .....	1,728	20.0	1,728	1,675	52	3.0	6,902	144	3	396	6,359
<b>Black and other</b>											
16 years and over .....	6,739	72.2	6,338	5,736	602	9.5	2,589	58	907	344	1,281
16 to 21 years .....	1,029	53.8	880	658	222	25.2	882	12	772	8	90
16 to 19 years .....	564	43.7	500	353	147	29.4	728	3	670	2	53
16 to 17 years .....	198	30.0	196	127	68	35.0	460	2	440	1	17
18 to 19 years .....	366	57.8	304	226	78	25.7	267	1	230	--	36
20 to 64 years .....	5,974	84.3	5,637	5,198	439	7.8	1,109	33	235	262	578
20 to 24 years .....	1,159	80.8	988	830	158	16.0	276	10	162	7	98
25 to 54 years .....	4,197	89.1	4,030	3,789	241	6.0	515	20	71	137	288
25 to 29 years .....	1,893	90.8	1,775	1,638	137	7.7	192	6	49	29	108
30 to 34 years .....	1,242	89.5	1,198	1,134	63	5.3	146	6	22	40	79
35 to 44 years .....	1,062	85.7	1,058	1,016	41	3.9	177	9	--	68	100
55 to 64 years .....	619	66.1	619	579	40	6.4	318	3	3	118	193
55 to 59 years .....	381	72.1	381	351	30	7.8	148	3	2	59	83
60 to 64 years .....	238	58.3	238	228	10	4.3	170	--	--	59	110
65 years and over .....	201	21.1	201	185	16	8.0	753	23	2	80	649

# HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	May 1979										
	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 .....	42,740	50.3	42,605	39,941	2,665	6.3	42,295	32,418	4,480	1,244	4,152
16 to 21 years .....	6,977	56.0	6,924	5,935	989	14.3	5,490	1,383	3,769	22	316
16 to 19 years .....	4,226	51.2	4,203	3,528	676	16.1	4,027	644	3,186	20	176
16 to 17 years .....	1,651	40.8	1,651	1,350	301	18.2	2,393	131	2,184	10	69
18 to 19 years .....	2,575	61.2	2,553	2,178	374	14.7	1,634	513	1,003	11	107
20 to 64 years .....	37,348	59.2	37,236	35,285	1,952	5.2	25,751	22,143	1,291	558	1,759
20 to 24 years .....	6,957	68.0	6,888	6,260	628	9.1	3,270	2,121	871	22	257
25 to 64 years .....	25,843	61.6	25,799	24,621	1,178	4.6	16,118	14,605	408	287	819
25 to 29 years .....	5,945	64.7	5,914	5,543	371	6.3	3,245	2,915	180	22	128
30 to 34 years .....	5,102	61.7	5,094	4,857	237	4.6	3,167	2,887	90	38	152
35 to 39 years .....	4,287	62.4	4,284	4,103	181	4.2	2,588	2,354	65	36	133
40 to 44 years .....	3,806	64.9	3,805	3,654	151	4.0	2,055	1,882	44	43	87
45 to 49 years .....	3,417	59.7	3,417	3,289	128	3.7	2,307	2,115	15	44	133
50 to 54 years .....	3,285	54.4	3,285	3,175	111	3.4	2,756	2,451	14	104	186
55 to 64 years .....	4,549	41.7	4,549	4,403	146	3.2	6,362	5,418	12	249	683
55 to 59 years .....	2,838	48.3	2,838	2,753	85	3.0	3,042	2,628	8	123	282
60 to 64 years .....	1,711	34.0	1,711	1,650	61	3.5	3,320	2,790	4	126	401
65 years and over .....	1,166	8.5	1,166	1,128	37	3.2	12,517	9,631	3	666	2,217
65 to 69 years .....	730	15.4	730	704	26	3.5	4,007	3,273	3	116	615
70 years and over .....	436	4.9	436	424	12	2.7	8,510	6,358	--	550	1,602
<b>White</b>											
16 years and over .....	37,031	50.0	36,926	34,939	1,987	5.4	37,051	28,997	3,540	969	3,546
16 to 21 years .....	6,185	58.9	6,144	5,427	717	11.7	4,318	1,076	2,985	16	242
16 to 19 years .....	3,779	54.5	3,762	3,271	490	13.0	3,160	494	2,505	17	144
16 to 17 years .....	1,502	44.3	1,501	1,267	234	15.6	1,887	107	1,717	7	57
18 to 19 years .....	2,278	64.2	2,261	2,004	256	11.3	1,272	387	788	10	87
20 to 64 years .....	32,230	58.9	32,143	30,677	1,466	4.6	22,511	19,617	1,030	416	1,447
20 to 24 years .....	6,045	69.9	5,992	5,528	464	7.7	2,607	1,713	702	18	174
25 to 64 years .....	22,128	61.0	22,094	21,212	882	4.0	14,158	12,959	320	202	676
25 to 29 years .....	9,354	62.5	9,324	8,886	437	4.7	5,605	5,128	203	47	227
30 to 34 years .....	6,929	62.9	6,926	6,679	247	3.6	4,084	3,758	89	50	186
35 to 44 years .....	5,846	56.7	5,845	5,647	198	3.4	4,469	4,074	28	105	263
55 to 64 years .....	4,058	41.4	4,058	3,938	120	3.0	5,746	4,945	8	196	597
55 to 59 years .....	2,534	48.1	2,534	2,466	68	2.7	2,730	2,381	5	93	251
60 to 64 years .....	1,524	33.6	1,524	1,472	52	3.4	3,016	2,564	4	103	346
65 years and over .....	1,021	8.2	1,021	990	31	3.0	11,380	8,886	4	536	1,955
<b>Black and other</b>											
16 years and over .....	5,709	52.1	5,679	5,002	677	11.9	5,244	3,421	940	275	607
16 to 21 years .....	791	40.3	780	508	272	34.9	1,172	307	785	6	75
16 to 19 years .....	447	34.0	442	256	185	41.9	868	150	681	4	32
16 to 17 years .....	150	22.8	149	83	67	44.8	506	24	467	3	12
18 to 19 years .....	297	45.1	292	174	118	40.5	362	126	215	1	20
20 to 64 years .....	5,118	61.2	5,093	4,607	486	9.5	3,239	2,526	259	142	311
20 to 24 years .....	912	57.9	897	732	164	18.3	663	408	169	4	83
25 to 64 years .....	3,715	65.5	3,705	3,409	296	8.0	1,960	1,645	88	85	143
25 to 29 years .....	1,694	67.7	1,685	1,514	171	10.1	808	675	67	14	53
30 to 34 years .....	1,164	67.6	1,163	1,078	85	7.3	559	478	19	28	34
35 to 44 years .....	857	59.1	857	817	40	4.7	594	492	2	44	57
55 to 64 years .....	491	44.3	491	465	26	5.3	616	473	3	53	86
55 to 59 years .....	304	49.4	304	287	17	5.6	312	247	3	30	31
60 to 64 years .....	187	38.1	187	178	9	4.7	304	226	--	23	55
65 years and over .....	185	11.3	185	138	47	4.5	1,137	745	--	130	263

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
<b>MALES</b>								
16 years and over	60,000	60,812	77.9	77.7	58,009	58,868	77.3	77.2
16 to 19 years	5,101	5,043	60.1	59.8	4,784	4,763	58.6	58.4
18 to 17 years	2,078	2,040	49.0	48.8	2,060	2,028	48.8	48.7
18 to 19 years	3,022	3,003	71.3	70.5	2,724	2,735	69.1	68.5
20 to 24 years	8,663	8,806	85.8	86.0	7,925	8,063	84.6	84.9
25 to 54 years	37,247	37,921	94.5	94.3	36,311	37,002	94.3	94.2
25 to 34 years	15,820	16,332	95.4	95.6	15,205	15,725	95.3	95.4
35 to 44 years	11,211	11,521	95.7	95.4	10,929	11,245	95.6	95.3
45 to 54 years	10,216	10,069	91.7	91.2	10,178	10,032	91.7	91.2
55 to 64 years	7,066	7,112	73.4	72.8	7,065	7,111	73.4	72.8
55 to 59 years	4,395	4,368	83.2	81.6	4,394	4,367	83.2	81.6
60 to 64 years	2,671	2,745	61.5	62.2	2,671	2,745	61.5	62.2
65 years and over	1,924	1,929	20.6	20.1	1,924	1,929	20.6	20.1
<b>White</b>								
16 years and over	53,419	54,073	78.6	78.5	51,807	52,530	78.1	78.0
16 to 19 years	4,556	4,479	63.3	62.7	4,304	4,263	61.9	61.5
18 to 17 years	1,899	1,842	53.0	52.4	1,884	1,832	52.8	52.2
18 to 19 years	2,657	2,637	73.5	72.7	2,421	2,431	71.6	71.0
20 to 24 years	7,561	7,647	86.8	86.8	6,980	7,075	85.8	85.9
25 to 54 years	33,144	33,725	95.0	95.0	32,366	32,972	94.9	94.9
25 to 34 years	14,002	14,439	95.9	96.2	13,497	13,950	95.8	96.1
35 to 44 years	9,970	10,280	96.2	96.2	9,731	10,047	96.1	96.1
45 to 54 years	9,172	9,007	92.5	91.9	9,138	8,975	92.5	91.9
55 to 64 years	6,435	6,494	73.8	73.5	6,434	6,493	73.8	73.5
55 to 59 years	4,001	3,987	84.0	82.6	4,000	3,986	84.0	82.6
60 to 64 years	2,434	2,507	61.6	62.6	2,434	2,507	61.6	62.6
65 years and over	1,723	1,728	20.4	20.0	1,723	1,728	20.4	20.0
<b>Black and other</b>								
16 years and over	6,581	6,739	72.6	72.2	6,202	6,338	71.4	71.0
16 to 19 years	544	564	42.5	43.7	479	500	39.5	40.7
18 to 17 years	179	198	27.3	30.0	176	196	27.0	29.9
18 to 19 years	365	366	58.5	57.8	303	304	53.9	53.2
20 to 24 years	1,102	1,159	79.4	80.8	946	988	76.7	78.2
25 to 54 years	4,103	4,197	90.1	89.1	3,945	4,030	89.7	88.7
25 to 34 years	1,818	1,893	91.7	90.8	1,708	1,775	91.2	90.2
35 to 44 years	1,242	1,242	92.0	89.5	1,198	1,198	91.7	89.1
45 to 54 years	1,044	1,062	85.5	85.7	1,040	1,058	85.4	85.7
55 to 64 years	631	619	69.2	66.1	631	619	69.2	66.1
55 to 59 years	394	381	76.1	72.1	394	381	76.1	72.1
60 to 64 years	237	238	60.1	58.3	237	238	60.1	58.3
65 years and over	200	201	21.6	21.1	200	201	21.6	21.1

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
<b>FEMALES</b>								
16 years and over	41,421	42,740	49.5	50.3	41,300	42,605	49.4	50.2
16 to 19 years	4,294	4,226	51.7	51.2	4,275	4,203	51.6	51.1
16 to 17 years	1,749	1,651	42.6	40.8	1,749	1,651	42.6	40.8
18 to 19 years	2,545	2,575	60.7	61.2	2,526	2,553	60.5	61.0
20 to 24 years	6,726	6,957	66.7	68.0	6,662	6,888	66.5	67.8
25 to 54 years	24,816	25,843	60.2	61.6	24,778	25,799	60.2	61.5
25 to 34 years	10,483	11,047	61.8	63.3	10,450	11,008	61.8	63.2
35 to 44 years	7,688	8,093	62.2	63.5	7,685	8,089	62.2	63.5
45 to 54 years	6,645	6,703	55.8	57.0	6,644	6,702	55.8	57.0
55 to 64 years	4,422	4,549	41.1	41.7	4,422	4,549	41.1	41.7
55 to 59 years	2,802	2,838	48.2	48.3	2,802	2,838	48.2	48.3
60 to 64 years	1,620	1,711	32.7	34.0	1,620	1,711	32.7	34.0
65 years and over	1,163	1,166	8.7	8.5	1,163	1,166	8.7	8.5
<b>White</b>								
16 years and over	35,856	37,031	49.1	50.0	35,759	36,926	49.0	49.9
16 to 19 years	3,838	3,779	54.9	54.5	3,822	3,762	54.8	54.4
16 to 17 years	1,612	1,502	46.7	44.3	1,611	1,501	46.7	44.3
18 to 19 years	2,226	2,278	62.8	64.2	2,210	2,261	62.6	64.0
20 to 24 years	5,798	6,045	67.7	69.9	5,747	5,992	67.5	69.7
25 to 54 years	21,239	22,128	59.4	61.0	21,209	22,094	59.4	60.9
25 to 34 years	8,849	9,354	60.7	62.5	8,823	9,324	60.7	62.5
35 to 44 years	6,564	6,929	61.4	62.9	6,561	6,926	61.4	62.9
45 to 54 years	5,826	5,846	55.6	56.7	5,825	5,845	55.6	56.7
55 to 64 years	3,951	4,058	40.8	41.4	3,951	4,058	40.8	41.4
55 to 59 years	2,504	2,534	48.1	48.1	2,504	2,534	48.1	48.1
60 to 64 years	1,447	1,524	32.3	33.6	1,447	1,524	32.3	33.6
65 years and over	1,030	1,021	8.5	8.2	1,030	1,021	8.5	8.2
<b>Black and other</b>								
16 years and over	5,565	5,709	52.4	52.1	5,541	5,679	52.3	52.0
16 to 19 years	456	447	34.9	34.0	453	442	34.8	33.7
16 to 17 years	137	150	21.0	22.8	137	149	21.0	22.8
18 to 19 years	319	297	49.0	45.1	316	292	48.8	44.7
20 to 24 years	928	912	60.8	57.9	915	897	60.4	57.5
25 to 54 years	3,578	3,715	65.3	65.5	3,570	3,705	65.2	65.4
25 to 34 years	1,634	1,694	68.6	67.7	1,627	1,685	68.5	67.6
35 to 44 years	1,124	1,164	67.3	67.6	1,124	1,163	67.3	67.6
45 to 54 years	819	857	57.3	59.1	819	857	57.3	59.1
55 to 64 years	471	491	43.7	44.3	471	491	43.7	44.3
55 to 59 years	297	304	49.6	49.4	297	304	49.6	49.4
60 to 64 years	173	187	36.4	38.1	173	187	36.4	38.1
65 years and over	132	145	10.7	11.3	132	145	10.7	11.3

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

[Numbers in thousands]

Sex and age	May 1979						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agri- culture	Nonagri- cultural industries	Number	Percent of labor force	
<b>TOTAL</b>							
16 years and over .....	10,197	9,019	212	8,807	1,177	11.5	6,785
16 to 19 years .....	806	507	17	490	299	37.1	1,418
16 to 17 years .....	297	174	10	164	123	41.4	858
18 to 19 years .....	509	332	7	326	176	34.7	560
20 to 24 years .....	1,624	1,323	36	1,287	301	18.5	798
25 to 54 years .....	6,508	6,012	105	5,906	497	7.6	2,058
25 to 34 years .....	2,877	2,592	46	2,546	285	9.9	805
35 to 44 years .....	2,315	1,877	28	1,850	138	6.8	588
45 to 54 years .....	1,616	1,542	32	1,511	73	4.5	666
55 to 64 years .....	957	897	31	865	60	6.3	846
55 to 59 years .....	586	545	16	529	41	7.0	413
60 to 64 years .....	371	352	15	337	19	5.0	433
65 years and over .....	302	281	23	258	21	6.9	1,665
<b>Males</b>							
16 years and over .....	5,357	4,813	169	4,644	543	10.1	2,262
16 to 19 years .....	437	308	15	293	128	29.3	643
16 to 17 years .....	172	112	8	104	60	34.9	408
18 to 19 years .....	265	195	7	189	69	26.0	235
20 to 24 years .....	848	704	24	681	143	16.9	224
25 to 54 years .....	3,377	3,157	82	3,073	221	6.5	452
25 to 34 years .....	1,468	1,344	41	1,303	124	8.4	159
35 to 44 years .....	1,018	960	21	940	58	5.7	128
45 to 54 years .....	890	852	21	832	38	4.3	166
55 to 64 years .....	525	491	26	463	34	6.5	297
55 to 59 years .....	322	298	16	283	24	7.5	138
60 to 64 years .....	202	192	11	181	10	5.0	159
65 years and over .....	171	154	22	133	17	9.9	646
<b>Females</b>							
16 years and over .....	4,840	4,206	43	4,163	634	13.1	4,523
16 to 19 years .....	369	199	2	197	171	46.2	775
16 to 17 years .....	125	62	2	60	63	50.6	450
18 to 19 years .....	244	137	--	137	107	43.9	325
20 to 24 years .....	776	619	12	606	158	20.3	574
25 to 54 years .....	3,131	2,855	23	2,833	276	8.8	1,606
25 to 34 years .....	1,409	1,248	5	1,243	161	11.4	646
35 to 44 years .....	997	917	7	913	80	8.0	460
45 to 54 years .....	726	690	11	679	35	4.9	500
55 to 64 years .....	432	406	5	402	26	6.0	549
55 to 59 years .....	264	247	--	246	17	6.5	275
60 to 64 years .....	169	160	4	156	9	5.2	274
65 years and over .....	131	127	1	125	4	3.1	1,019

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



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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
<b>TOTAL</b>								
Total noninstitutional population	160,713	163,260	68,519	69,787	75,412	76,782	16,782	16,692
Total labor force	101,421	103,552	54,900	55,769	37,127	38,514	9,395	9,269
Percent of population	63.1	63.4	80.1	79.9	49.2	50.2	56.0	55.5
Civilian labor force	99,309	101,473	53,225	54,105	37,025	38,402	9,059	8,966
Employed	93,851	96,220	51,149	52,175	34,960	36,413	7,742	7,632
Agriculture	3,369	3,309	2,393	2,342	590	597	385	370
Nonagricultural industries	90,483	92,911	48,756	49,833	34,370	35,816	7,356	7,262
Unemployed	5,457	5,253	2,076	1,930	2,065	1,989	1,317	1,334
Percent of labor force	5.5	5.2	3.9	3.6	5.6	5.2	14.5	14.9
Not in labor force	59,292	59,708	13,620	14,018	38,285	38,268	7,387	7,423
<b>White</b>								
Total noninstitutional population	141,026	142,978	60,739	61,749	66,091	67,143	14,196	14,086
Total labor force	89,276	91,103	48,863	49,593	32,019	33,251	8,394	8,259
Percent of population	63.3	63.7	80.4	80.3	48.4	49.5	59.1	58.6
Civilian labor force	87,567	89,456	47,503	48,268	31,937	33,164	8,126	8,025
Employed	83,446	85,482	45,896	46,792	30,398	31,667	7,152	7,023
Agriculture	3,085	3,036	2,164	2,145	550	542	371	349
Nonagricultural industries	80,362	82,446	43,731	44,647	29,849	31,125	6,782	6,674
Unemployed	4,120	3,974	1,607	1,475	1,539	1,497	974	1,002
Percent of labor force	4.7	4.4	3.4	3.1	4.8	4.5	12.0	12.5
Not in labor force	51,750	51,875	11,876	12,156	34,073	33,891	5,802	5,827
<b>Black and other</b>								
Total noninstitutional population	19,687	20,282	7,781	8,037	9,321	9,639	2,586	2,605
Total labor force	12,146	12,448	6,037	6,175	5,108	5,263	1,001	1,010
Percent of population	61.7	61.4	77.6	76.8	54.8	54.6	38.7	38.8
Civilian labor force	11,742	12,017	5,722	5,838	5,088	5,238	933	941
Employed	10,405	10,738	5,254	5,383	4,562	4,745	589	610
Agriculture	284	273	229	197	40	54	15	21
Nonagricultural industries	10,121	10,465	5,024	5,186	4,522	4,691	575	588
Unemployed	1,337	1,279	468	455	526	492	343	332
Percent of labor force	11.4	10.6	8.2	7.8	10.3	9.4	36.8	35.3
Not in labor force	7,541	7,833	1,744	1,862	4,212	4,376	1,585	1,595

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

(Numbers in thousands)

Employment status	May 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
<b>TOTAL</b>									
Total noninstitutional population .....	25,194	12,728	12,467	21,319	10,816	10,503	3,875	1,912	1,964
Total labor force .....	15,489	8,512	6,977	13,668	7,483	6,185	1,821	1,029	791
Percent of population .....	61.5	66.9	56.0	64.1	69.2	58.9	47.0	53.8	40.3
Civilian labor force .....	14,783	7,860	6,924	13,123	6,979	6,144	1,661	880	780
Employed .....	12,855	6,920	5,935	11,689	6,262	5,427	1,166	658	508
Agriculture .....	569	478	91	530	449	81	39	29	10
Nonagricultural industries .....	12,286	6,442	5,844	11,159	5,812	5,346	1,127	629	497
Unemployed .....	1,929	940	989	1,434	718	717	495	222	272
Looking for full-time work .....	1,291	660	631	935	495	440	356	165	191
Looking for part-time work .....	637	280	358	499	223	277	138	57	81
Percent of labor force .....	13.0	12.0	14.3	10.9	10.3	11.7	29.8	25.2	34.9
Not in labor force .....	9,705	4,215	5,490	7,651	3,333	4,318	2,055	882	1,172
Major activity: going to school									
Civilian labor force .....	4,553	2,335	2,218	4,068	2,093	1,975	485	242	243
Employed .....	3,781	1,963	1,818	3,470	1,796	1,673	312	167	145
Agriculture .....	201	173	28	195	168	27	5	5	1
Nonagricultural industries .....	3,580	1,790	1,790	3,274	1,628	1,646	306	162	144
Unemployed .....	772	372	400	598	297	302	174	75	98
Looking for full-time work .....	252	117	134	194	94	100	58	24	34
Looking for part-time work .....	520	255	266	404	203	201	116	52	64
Percent of labor force .....	17.0	15.9	18.0	14.7	14.2	15.3	35.8	31.1	40.5
Not in labor force .....	7,486	3,716	3,769	5,929	2,944	2,985	1,557	772	785
Major activity: other									
Civilian labor force .....	10,231	5,525	4,706	9,055	4,887	4,169	1,175	638	537
Employed .....	9,074	4,957	4,117	8,219	4,466	3,754	854	491	363
Agriculture .....	369	306	63	335	281	53	34	24	10
Nonagricultural industries .....	8,705	4,651	4,054	7,884	4,184	3,700	821	467	354
Unemployed .....	1,157	568	589	836	421	415	321	147	174
Looking for full-time work .....	1,040	543	497	741	401	340	299	142	157
Looking for part-time work .....	117	25	92	95	20	75	22	5	17
Percent of labor force .....	11.3	10.3	12.5	9.2	8.6	10.0	27.3	23.0	32.4
Not in labor force .....	2,220	499	1,721	1,722	388	1,333	498	110	388

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

(Numbers in thousands)

Race, sex, and age	May 1979								
	Full-time labor force				Part-time labor force				
	Total	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.....	85,944	78,571	3,217	4,156	4.8	15,529	14,433	1,097	7.1
16 to 21 years.....	9,048	7,039	718	1,291	14.3	5,735	5,098	637	11.1
16 to 19 years.....	4,212	3,000	436	776	18.4	4,753	4,196	557	11.7
16 to 17 years.....	815	456	129	230	28.2	2,864	2,470	394	13.7
18 to 19 years.....	3,398	2,544	307	547	16.1	1,889	1,726	164	8.7
20 years and over.....	81,731	75,571	2,781	3,380	4.1	10,776	10,236	539	5.0
20 to 24 years.....	13,057	11,277	671	1,109	8.5	1,894	1,760	134	7.1
25 years and over.....	68,674	64,295	2,110	2,271	3.3	8,882	8,477	406	4.6
25 to 54 years.....	56,937	53,265	1,691	1,981	3.5	5,865	5,599	266	4.5
55 years and over.....	11,737	11,030	418	290	2.5	3,017	2,878	140	4.6
<b>Males, 16 years and over.....</b>	<b>53,844</b>	<b>50,149</b>	<b>1,489</b>	<b>2,205</b>	<b>4.1</b>	<b>5,024</b>	<b>4,641</b>	<b>383</b>	<b>7.6</b>
16 to 21 years.....	5,065	4,029	376	660	13.0	2,795	2,515	280	10.0
16 to 19 years.....	2,362	1,722	240	401	17.0	2,400	2,143	257	10.7
20 years and over.....	51,481	48,427	1,250	1,804	3.5	2,624	2,498	126	4.8
20 to 24 years.....	7,355	6,455	328	572	7.8	707	665	43	6.0
25 years and over.....	44,126	41,972	922	1,232	2.8	1,917	1,833	84	4.4
25 to 54 years.....	36,357	34,599	709	1,049	2.9	645	625	20	3.1
55 years and over.....	7,769	7,373	213	183	2.4	1,271	1,208	64	5.0
<b>Females, 16 years and over.....</b>	<b>32,100</b>	<b>28,421</b>	<b>1,728</b>	<b>1,951</b>	<b>6.1</b>	<b>10,505</b>	<b>9,792</b>	<b>713</b>	<b>6.8</b>
16 to 21 years.....	3,983	3,010	342	631	15.8	2,940	2,583	358	12.2
16 to 19 years.....	1,850	1,278	196	375	20.3	2,353	2,053	300	12.8
20 years and over.....	30,250	27,143	1,531	1,576	5.2	8,152	7,738	413	5.1
20 to 24 years.....	5,702	4,822	344	537	9.4	1,186	1,095	91	7.7
25 years and over.....	24,549	22,322	1,187	1,040	4.2	6,965	6,643	322	4.6
25 to 54 years.....	20,580	18,665	982	932	4.5	5,219	4,973	246	4.7
55 years and over.....	3,969	3,657	205	107	2.7	1,746	1,670	76	4.4
<b>White</b>									
<b>Males, 16 years and over.....</b>	<b>48,013</b>	<b>45,100</b>	<b>1,235</b>	<b>1,678</b>	<b>3.5</b>	<b>4,517</b>	<b>4,209</b>	<b>308</b>	<b>6.8</b>
16 to 21 years.....	4,433	3,614	324	495	11.2	2,547	2,324	223	8.7
16 to 19 years.....	2,076	1,552	216	308	14.8	2,186	1,983	203	9.3
20 years and over.....	45,937	43,547	1,019	1,370	3.0	2,331	2,226	105	4.5
20 to 24 years.....	6,434	5,742	270	421	6.5	641	606	36	5.5
25 years and over.....	39,503	37,806	749	949	2.4	1,690	1,621	70	4.1
25 to 54 years.....	32,436	31,055	573	808	2.5	536	516	20	3.7
55 years and over.....	7,067	6,751	175	141	2.0	1,154	1,104	49	4.2
<b>Females, 16 years and over.....</b>	<b>27,358</b>	<b>24,500</b>	<b>1,444</b>	<b>1,414</b>	<b>5.2</b>	<b>9,568</b>	<b>8,995</b>	<b>573</b>	<b>6.0</b>
16 to 21 years.....	3,477	2,749	289	440	12.7	2,666	2,390	277	10.4
16 to 19 years.....	1,627	1,191	172	265	16.3	2,134	1,908	226	10.6
20 years and over.....	25,731	23,310	1,271	1,150	4.5	7,434	7,086	347	4.7
20 to 24 years.....	4,902	4,251	267	384	7.8	1,090	1,010	80	7.4
25 years and over.....	20,829	19,058	1,005	766	3.7	6,344	6,077	267	4.2
25 to 54 years.....	17,270	15,759	835	676	3.9	4,824	4,618	206	4.3
55 years and over.....	3,559	3,300	170	89	2.5	1,520	1,458	61	4.0
<b>Black and other</b>									
<b>Males, 16 years and over.....</b>	<b>5,830</b>	<b>5,050</b>	<b>254</b>	<b>527</b>	<b>9.0</b>	<b>507</b>	<b>432</b>	<b>75</b>	<b>14.8</b>
16 to 21 years.....	632	415	52	165	26.2	248	191	57	22.9
16 to 19 years.....	286	170	24	93	32.4	214	160	54	25.2
20 years and over.....	5,544	4,880	230	434	7.8	294	273	21	7.2
20 to 24 years.....	922	713	57	151	16.4	66	59	7	10.5
25 years and over.....	4,623	4,166	173	282	6.1	228	213	15	6.6
25 to 54 years.....	3,921	3,544	136	241	6.1	109	109	—	—
55 years and over.....	702	622	37	41	5.8	119	104	14	11.8
<b>Females, 16 years and over.....</b>	<b>4,742</b>	<b>3,921</b>	<b>284</b>	<b>537</b>	<b>11.3</b>	<b>937</b>	<b>797</b>	<b>140</b>	<b>15.0</b>
16 to 21 years.....	506	261	54	191	37.8	274	193	81	29.6
16 to 19 years.....	223	88	24	111	49.9	219	145	74	33.9
20 years and over.....	4,520	3,834	260	426	9.4	718	652	66	9.2
20 to 24 years.....	800	570	77	153	19.1	96	85	11	11.4
25 years and over.....	3,719	3,263	184	273	7.3	622	567	55	8.8
25 to 54 years.....	3,309	2,906	148	256	7.7	396	356	40	10.1
55 years and over.....	410	357	36	17	4.1	226	211	15	6.6

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

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

[Numbers in thousands]

Family relationship	May 1979									
	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> .....	101,473	63.0	96,200	5,253	5.2	59,708	32,752	8,951	2,996	15,009
<b>Husbands</b> <sup>1</sup> .....	40,771	81.4	39,817	954	2.3	9,316	130	229	1,199	7,758
With employed wife .....	20,356	92.0	19,939	417	2.0	1,780	30	112	371	1,267
With unemployed wife .....	909	91.7	832	77	8.5	81	--	7	26	49
With wife not in labor force .....	17,669	71.8	17,280	389	2.2	6,951	74	90	720	6,067
<b>Wives</b> .....	23,127	48.4	22,135	992	4.3	24,622	22,545	265	335	1,477
With employed husband .....	20,771	54.6	19,938	833	4.0	17,279	16,222	222	100	737
With unemployed husband .....	495	56.0	418	77	15.6	389	357	5	8	18
With husband not in labor force .....	1,860	21.1	1,779	81	4.4	6,953	5,966	38	226	723
<b>Relatives in husband-wife families</b> .....	13,951	60.1	12,421	1,529	11.0	9,282	1,319	6,243	387	1,334
16-19 years .....	6,457	54.6	5,596	861	13.3	5,379	170	4,888	21	300
20-24 years .....	4,801	73.9	4,320	481	10.0	1,696	186	1,241	29	240
25 years and over .....	2,693	55.0	2,505	187	6.9	2,207	963	114	337	794
<b>Women who head families</b> .....	4,996	59.3	4,598	397	7.9	3,433	2,744	114	165	410
<b>Relatives in female-headed families</b> .....	3,955	54.4	3,305	650	16.4	3,309	847	1,466	259	737
16-19 years .....	1,297	48.0	959	338	26.1	1,408	95	1,178	6	128
20-24 years .....	1,156	68.9	961	194	16.8	522	133	235	14	140
25 years and over .....	1,502	52.1	1,385	118	7.9	1,379	619	53	239	469
<b>Persons not living in families</b> <sup>2</sup> .....	14,673	60.1	13,924	731	5.0	9,746	5,167	634	651	3,293

<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	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
<b>Total, 16 years and over</b> .....	2,697	2,588	4.6	4.4	2,761	2,665	6.7	6.3
Married, spouse present .....	1,063	924	2.7	2.3	1,155	1,027	5.1	4.4
Widowed, divorced, or separated .....	263	245	6.0	5.4	498	523	6.4	6.5
Single (never married) .....	1,370	1,419	9.9	9.9	1,107	1,115	10.4	10.1
<b>White, 16 years and over</b> .....	2,050	1,987	4.0	3.8	2,070	1,987	5.8	5.4
Married, spouse present .....	879	758	2.4	2.1	945	870	4.6	4.1
Widowed, divorced, or separated .....	184	159	5.2	4.3	353	384	5.6	5.9
Single (never married) .....	987	1,069	8.2	8.6	772	733	8.6	7.9
<b>Black and other, 16 years and over</b> .....	646	602	10.4	9.5	691	677	12.5	11.9
Married, spouse present .....	185	166	5.2	4.6	210	157	8.7	6.5
Widowed, divorced, or separated .....	79	86	9.0	10.3	145	138	9.7	8.8
Single (never married) .....	382	350	21.3	18.7	336	382	20.6	22.4
<b>Total, 20 to 64 years of age</b> .....	1,979	1,862	3.9	3.6	2,020	1,952	5.6	5.2
Married, spouse present .....	974	859	2.6	2.2	1,067	966	4.8	4.2
Widowed, divorced, or separated .....	247	216	5.9	5.1	461	487	6.5	6.6
Single (never married) .....	758	787	8.2	8.1	492	499	7.4	7.0
<b>White, 20 to 64 years of age</b> .....	1,529	1,423	3.3	3.1	1,502	1,466	4.9	4.6
Married, spouse present .....	801	699	2.3	2.0	872	816	4.4	4.0
Widowed, divorced, or separated .....	175	144	5.3	4.1	326	355	5.7	6.0
Single (never married) .....	553	581	7.0	7.0	303	295	5.5	5.1
<b>Black and other, 20 to 64 years of age</b> .....	449	439	8.1	7.8	518	486	10.5	9.5
Married, spouse present .....	173	160	5.1	4.6	195	151	8.3	6.5
Widowed, divorced, or separated .....	71	72	8.5	9.3	135	132	9.6	8.9
Single (never married) .....	205	206	15.6	15.1	188	203	15.5	15.8

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
Total, 16 years and over	5,457	5,253	5.5	5.2	4.6	4.4	6.7	6.3
White-collar workers	1,621	1,487	3.4	2.9	2.4	2.0	4.2	3.4
Professional and technical	322	275	2.2	1.8	2.0	1.3	2.4	2.4
Managers and administrators, except farm	199	221	2.0	2.1	1.5	1.7	3.5	3.4
Sales workers	257	238	4.2	3.8	2.9	2.6	5.7	5.3
Clerical workers	842	754	4.8	4.2	4.7	3.9	4.9	4.2
Blue-collar workers	2,036	2,082	6.1	6.1	5.3	5.3	9.2	9.6
Craft and kindred workers	510	481	4.0	3.6	4.0	3.6	4.6	3.5
Carpenters and other construction craft	250	244	6.1	6.0	6.2	6.0	(1)	(1)
All other	260	237	3.0	2.6	2.9	2.5	4.7	3.6
Operatives, except transport	912	887	7.8	7.7	6.0	5.7	10.4	10.6
Transport equipment operatives	187	187	5.0	4.8	5.0	4.8	5.9	5.2
Nonfarm laborers	426	526	7.9	10.0	8.0	9.7	6.6	11.8
Construction laborers	126	173	12.2	16.7	12.1	16.4	(1)	(1)
All other	300	353	6.8	8.3	6.9	7.9	6.5	10.9
Service workers	916	856	6.7	6.3	5.9	5.2	7.1	6.9
Private household	55	48	4.6	4.6	(1)	(1)	4.4	4.7
All other	861	808	6.9	6.4	5.9	5.2	7.5	7.2
Farm workers	72	67	2.5	2.4	1.9	2.4	5.1	2.5
No previous work experience	812	762	--	--	--	--	--	--
16 to 19 years	579	582	--	--	--	--	--	--
20 to 24 years	153	116	--	--	--	--	--	--
25 years and over	79	64	--	--	--	--	--	--

<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	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
Total, 16 years and over	100.0	100.0	5.5	5.2	4.6	4.4	6.7	6.3
Nonagricultural private wage and salary workers	72.1	72.6	5.5	5.2	4.7	4.4	6.5	6.3
Mining	.7	.8	5.0	4.7	4.6	4.7	8.2	4.6
Construction	7.4	8.0	8.5	8.5	8.6	8.7	6.1	5.6
Manufacturing	21.1	21.4	5.3	5.0	4.0	3.6	8.0	8.1
Durable goods	11.5	10.7	4.8	4.1	4.0	3.5	7.2	5.9
Lumber and wood products	1.0	1.1	7.5	9.1	7.7	9.2	6.2	(1)
Furniture and fixtures	.3	.6	2.6	5.9	2.2	5.7	3.6	6.2
Stone, clay, and glass products	.4	.6	3.4	5.0	2.0	4.1	9.5	8.4
Primary metal industries	1.0	.9	4.3	3.6	4.2	3.3	5.3	5.5
Fabricated metal products	1.6	1.2	5.7	4.4	5.2	4.4	7.1	4.4
Machinery, except electrical equipment	1.7	1.6	3.6	3.1	3.5	2.5	4.3	5.9
Electrical equipment	2.3	1.9	5.5	4.2	3.3	3.2	8.3	5.3
Transportation equipment	1.6	1.5	4.0	3.3	3.5	2.6	6.6	6.5
Automobiles	.8	.9	3.4	3.4	2.9	2.6	6.1	6.8
Other transportation equipment	.8	.6	4.9	3.2	4.4	2.6	7.5	5.5
Instruments and related products	.5	.4	4.4	3.6	2.3	2.1	6.8	5.1
Other durable goods industries	1.2	.7	8.6	4.9	6.8	3.2	11.0	7.6
Nondurable goods	9.6	10.7	5.9	6.4	3.9	3.7	8.8	10.4
Food and kindred products	2.7	3.0	7.5	8.8	5.4	4.6	12.1	18.5
Textile mill products	.7	1.1	4.7	6.9	2.8	2.6	6.7	12.1
Apparel and other textile products	2.1	2.6	8.3	9.9	4.6	6.4	9.4	10.8
Paper and allied products	.7	.4	5.0	3.1	4.3	2.1	6.9	6.8
Printing and publishing	1.1	1.5	4.5	5.7	4.1	4.4	5.0	7.7
Chemicals and allied products	.5	.8	2.1	3.3	1.7	2.8	3.4	5.1
Rubber and plastics products	1.0	.5	7.4	3.6	4.5	2.4	12.3	5.7
Other nondurable goods industries	.9	.7	7.5	6.3	3.3	5.4	13.1	7.6
Transportation and public utilities	3.5	3.4	3.6	3.3	3.3	2.9	4.6	4.4
Railroads and railway express	.3	.2	3.0	1.2	3.1	1.0	(1)	(1)
Other transportation	2.3	2.6	5.0	5.4	4.9	5.0	5.7	6.8
Communication and other public utilities	.8	.6	2.2	1.4	1.3	.6	3.9	3.0
Wholesale and retail trade	20.7	20.3	6.3	5.8	4.8	4.4	7.9	7.3
Finance, insurance, and real estate	2.9	2.9	3.3	3.0	2.6	2.3	3.8	3.4
Service industries	15.7	15.8	5.2	5.1	5.0	4.7	5.4	5.2
Professional services	6.4	6.7	3.8	3.7	3.2	3.1	4.1	4.0
All other service industries	9.3	9.1	7.1	6.9	6.5	6.2	7.6	7.5
Agricultural wage and salary workers	1.5	1.9	5.5	6.6	4.3	6.5	10.0	6.7
All other classes of workers	11.5	11.0	2.5	2.3	2.2	2.0	3.0	2.6
No previous work experience	14.9	14.5	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
	<b>UNEMPLOYMENT LEVEL</b>											
Total unemployed, in thousands.....	5,457	5,253	2,076	1,930	2,065	1,989	1,317	1,334	4,120	3,974	1,337	1,279
Job losers.....	2,322	2,097	1,292	1,150	824	733	207	213	1,803	1,596	519	501
On layoff.....	565	572	294	274	232	248	40	50	483	474	82	99
Other job losers.....	1,757	1,525	998	876	592	485	167	163	1,320	1,122	437	402
Job leavers.....	680	782	281	319	269	316	130	147	560	637	120	145
Reentrants.....	1,643	1,614	815	404	826	818	401	392	1,209	1,189	434	425
New entrants.....	812	761	88	57	146	122	579	581	548	552	265	209
<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
Job losers.....	42.6	39.9	62.2	59.6	39.9	36.9	15.7	16.0	43.7	40.1	38.8	39.1
On layoff.....	10.4	10.9	14.1	14.2	11.2	12.5	3.0	3.7	11.7	11.9	6.1	7.7
Other job losers.....	32.2	29.0	48.1	45.4	28.7	24.4	12.7	12.3	32.0	28.2	32.7	31.4
Job leavers.....	12.5	14.9	13.5	16.5	13.0	15.9	9.9	11.0	13.6	16.0	9.0	11.3
Reentrants.....	30.1	30.7	20.0	20.9	40.0	41.1	30.5	29.4	29.3	29.9	32.4	33.2
New entrants.....	14.9	14.5	4.2	3.0	7.1	6.1	43.9	43.6	13.3	13.9	19.8	16.3
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate.....	5.5	5.2	3.9	3.6	5.6	5.2	14.5	14.9	4.7	4.4	11.4	10.6
Job loser rate <sup>1</sup> .....	2.4	2.1	2.5	2.1	2.2	1.9	2.2	2.4	2.1	1.8	4.4	4.1
Job leaver rate <sup>1</sup> .....	.7	.8	.5	.6	.7	.8	1.4	1.6	.6	.7	1.0	1.2
Reentrant rate <sup>1</sup> .....	1.7	1.6	.8	.7	2.2	2.1	4.4	4.4	1.4	1.3	3.7	3.5
New entrant rate <sup>1</sup> .....	.8	.7	.2	.1	.4	.3	6.4	6.5	.6	.6	2.3	1.7

<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	May 1979						
	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
<b>Total, 16 years and over.....</b>	<b>5,253</b>	<b>100.0</b>	<b>47.5</b>	<b>27.7</b>	<b>24.8</b>	<b>14.6</b>	<b>10.2</b>
Job losers.....	2,097	100.0	37.0	28.1	34.9	21.6	13.4
On layoff.....	572	100.0	51.4	26.2	17.8	17.8	4.5
Other job losers.....	1,525	100.0	31.5	28.9	39.6	23.0	16.7
Job leavers.....	782	100.0	49.2	33.8	17.0	9.3	7.7
Reentrants.....	1,614	100.0	47.5	23.5	19.8	11.2	8.6
New entrants.....	761	100.0	55.0	29.1	15.9	8.3	7.6
<b>Males, 20 years and over.....</b>	<b>1,930</b>	<b>100.0</b>	<b>38.4</b>	<b>28.6</b>	<b>33.0</b>	<b>18.6</b>	<b>14.5</b>
Job losers.....	1,150	100.0	33.1	27.0	39.8	24.4	15.4
On layoff.....	274	100.0	46.7	30.3	23.0	21.2	1.8
Other job losers.....	876	100.0	28.8	26.2	45.0	25.4	19.7
Job leavers.....	319	100.0	43.8	38.1	18.1	8.1	10.0
Reentrants.....	404	100.0	38.3	26.2	26.5	11.1	15.3
New entrants.....	57	100.0	(1)	(1)	(1)	(1)	(1)
<b>Females, 20 years and over.....</b>	<b>1,989</b>	<b>100.0</b>	<b>48.6</b>	<b>27.5</b>	<b>23.9</b>	<b>14.2</b>	<b>9.8</b>
Job losers.....	733	100.0	39.0	29.3	31.7	18.7	13.1
On layoff.....	248	100.0	53.2	22.6	24.2	16.1	8.1
Other job losers.....	485	100.0	31.5	32.8	35.7	20.0	15.7
Job leavers.....	316	100.0	47.5	33.5	19.0	11.7	7.3
Reentrants.....	818	100.0	48.5	22.9	19.6	12.1	7.5
New entrants.....	122	100.0	48.8	32.5	18.7	7.3	11.4
<b>Both sexes, 16 to 19 years.....</b>	<b>1,334</b>	<b>100.0</b>	<b>59.1</b>	<b>26.6</b>	<b>14.3</b>	<b>9.5</b>	<b>4.7</b>
Job losers.....	213	100.0	50.7	30.0	19.2	16.4	2.8
On layoff.....	50	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers.....	163	100.0	45.7	32.3	22.0	18.3	3.7
Job leavers.....	147	100.0	64.6	25.2	10.2	6.8	3.4
Reentrants.....	392	100.0	59.1	22.4	13.0	8.9	4.1
New entrants.....	581	100.0	56.7	29.0	14.3	8.1	6.2

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

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

Sex, age, and race	May 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	5,253	4,562	25.9	5.8	71.2	26.4	13.7	6.3	1.49
16 to 19 years .....	1,334	1,267	17.2	2.5	76.9	20.8	14.6	4.3	1.36
20 to 24 years .....	1,243	1,071	26.7	5.2	73.4	28.9	9.2	5.8	1.49
25 to 34 years .....	1,168	991	32.7	9.8	69.9	31.7	13.5	4.9	1.63
35 to 44 years .....	607	512	32.6	7.0	66.4	27.5	16.0	8.0	1.58
45 to 54 years .....	472	361	29.4	7.8	66.8	22.4	15.0	12.2	1.53
55 to 64 years .....	324	265	24.5	4.2	62.3	22.6	17.4	12.5	1.43
65 years and over .....	106	95	14.7	2.1	51.6	36.8	28.4	6.3	1.40
<b>Males, 16 years and over</b> .....	2,588	2,222	28.1	5.7	72.3	24.7	15.3	8.1	1.54
16 to 19 years .....	658	620	19.4	2.6	81.1	17.4	13.5	4.4	1.38
20 to 24 years .....	615	520	27.5	4.0	74.0	28.3	10.2	4.4	1.48
25 to 34 years .....	560	454	38.8	11.5	68.5	31.3	17.0	7.9	1.75
35 to 44 years .....	275	231	36.8	6.5	68.0	26.0	22.1	13.0	1.72
45 to 54 years .....	234	186	30.6	8.1	67.2	20.4	16.7	17.2	1.60
55 to 64 years .....	178	144	22.9	3.5	61.8	18.1	18.8	17.4	1.42
65 years and over .....	68	66	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Females, 16 years and over</b> .....	2,665	2,340	23.7	5.8	70.2	28.1	12.3	4.7	1.45
16 to 19 years .....	676	646	15.2	2.5	72.9	24.1	15.6	4.3	1.35
20 to 24 years .....	628	551	26.0	6.5	72.8	29.6	8.3	6.9	1.50
25 to 34 years .....	608	537	27.6	8.4	70.9	32.2	10.8	2.4	1.52
35 to 44 years .....	332	281	29.2	7.5	65.5	28.8	11.0	3.9	1.46
45 to 54 years .....	238	175	27.4	7.4	66.9	25.1	13.1	6.9	1.47
55 to 64 years .....	146	121	26.4	5.0	62.8	27.3	15.7	6.6	1.44
65 years and over .....	37	29	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White, 16 years and over</b> .....	3,974	3,393	22.3	5.4	73.2	28.4	14.0	6.1	1.49
Males .....	1,987	1,676	24.5	5.0	74.5	26.8	16.0	7.7	1.54
Females .....	1,987	1,717	20.1	5.8	71.9	30.0	12.1	4.6	1.44
<b>Black and other, 16 years and over</b> .....	1,279	1,169	36.4	6.7	65.4	20.6	13.0	6.9	1.49
Males .....	602	546	39.4	7.7	65.4	18.1	13.0	9.2	1.53
Females .....	677	623	33.7	5.8	65.3	22.8	13.0	5.0	1.46

<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	May 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	5,253	4,562	25.9	5.8	71.2	26.4	13.7	6.3	1.49
Job losers .....	2,097	1,528	35.0	6.0	72.8	28.7	13.9	7.5	1.64
Job leavers .....	782	793	26.4	6.8	70.9	32.3	13.0	4.0	1.53
Reentrants .....	1,614	1,484	22.7	6.3	66.6	24.5	13.5	7.3	1.41
New entrants .....	761	757	12.9	3.3	77.3	19.3	14.7	4.4	1.32
<b>Males, 16 years and over</b> .....	2,588	2,222	28.1	5.7	72.3	24.7	15.3	8.1	1.54
Job losers .....	1,276	973	35.3	6.3	72.0	26.5	14.7	10.3	1.65
Job leavers .....	390	385	29.6	5.2	72.5	28.1	15.3	3.9	1.55
Reentrants .....	584	527	22.0	7.0	66.0	25.0	16.7	10.1	1.47
New entrants .....	338	336	15.5	2.1	82.7	14.6	14.3	3.6	1.33
<b>Females, 16 years and over</b> .....	2,665	2,340	23.7	5.8	70.2	28.1	12.3	4.7	1.45
Job losers .....	821	555	34.8	5.4	74.1	32.6	12.6	2.7	1.62
Job leavers .....	392	408	23.3	8.1	69.6	36.3	10.8	4.2	1.52
Reentrants .....	1,029	956	23.1	5.8	66.9	24.2	11.7	5.8	1.37
New entrants .....	423	421	10.9	4.3	72.9	23.0	15.0	5.2	1.31

NOTE: See note, table A-15.

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
Total, 16 years and over	5,457	5,253	100.0	100.0	4,411	4,156	100.0	100.0
Less than 5 weeks	2,563	2,494	47.0	47.5	1,936	1,870	43.9	45.0
5 to 14 weeks	1,385	1,455	25.4	27.7	1,133	1,147	25.7	27.6
5 to 10 weeks	1,032	1,059	18.9	20.2	819	825	18.6	19.9
11 to 14 weeks	352	396	6.5	7.5	314	322	7.1	7.7
15 weeks and over	1,510	1,304	27.7	24.8	1,342	1,140	30.4	27.4
15 to 26 weeks	792	768	14.5	14.6	691	663	15.7	16.0
27 weeks and over	718	536	13.2	10.2	651	477	14.8	11.5
27 to 51 weeks	378	281	6.9	5.3	342	257	7.8	6.2
52 weeks and over	339	255	6.2	4.9	308	219	7.0	5.3
Average (mean) duration, in weeks	13.3	12.1	--	--	14.4	13.0	--	--
Median duration, in weeks	5.8	5.7	--	--	6.6	6.4	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			May 1978	May 1979	May 1978	May 1979
	May 1979										
Total, 16 years and over	5,253	2,494	1,455	768	536	12.1	5.7	47.0	47.5	27.7	24.8
16 to 21 years	1,929	1,116	508	196	108	8.7	4.3	56.2	57.9	17.3	15.8
16 to 19 years	1,334	788	355	127	63	8.0	4.2	57.0	59.1	14.5	14.3
20 to 24 years	1,243	634	342	170	97	10.4	4.9	49.6	51.0	25.1	21.5
25 to 34 years	1,168	484	365	190	127	12.6	7.0	44.8	41.5	30.8	27.2
35 to 44 years	607	255	160	107	86	14.5	7.9	42.1	41.9	32.4	31.7
45 to 54 years	472	183	108	99	82	16.3	9.4	37.9	38.8	37.3	38.3
55 to 64 years	324	114	93	54	62	20.8	8.9	32.5	35.4	46.3	35.8
65 years and over	106	35	31	22	18	20.5	9.8	37.0	33.3	47.2	37.5
Males, 16 years and over	2,588	1,117	725	428	319	13.6	6.8	41.6	43.2	33.3	28.9
16 to 21 years	940	522	246	110	61	9.2	4.5	52.2	55.5	21.9	18.3
16 to 19 years	658	376	172	70	40	8.7	4.4	54.1	57.2	17.5	16.6
20 to 24 years	615	286	181	95	53	10.7	6.1	44.1	46.5	31.9	24.1
25 to 34 years	560	202	190	94	74	13.7	7.9	39.6	36.1	35.6	30.0
35 to 44 years	275	96	73	53	54	17.2	10.8	33.7	34.9	39.3	38.7
45 to 54 years	234	76	53	64	41	19.1	13.5	29.4	32.4	45.6	45.0
55 to 64 years	178	57	45	36	41	24.3	9.9	32.4	32.2	46.3	42.7
65 years and over	68	24	12	17	16	24.5	13.6	37.6	(1)	48.5	(1)
Females, 16 years and over	2,665	1,377	730	340	217	10.7	4.8	52.2	51.7	22.2	20.9
16 to 21 years	989	594	262	86	47	8.1	4.2	59.8	60.1	13.1	13.4
16 to 19 years	676	412	183	57	24	7.4	4.1	59.6	60.9	11.8	12.0
20 to 24 years	628	348	161	74	44	10.0	4.5	54.9	55.5	18.7	18.9
25 to 34 years	608	283	176	96	53	11.5	6.0	49.6	46.5	26.2	24.6
35 to 44 years	332	159	88	54	32	12.4	5.9	49.4	47.8	26.4	25.8
45 to 54 years	238	108	55	35	41	13.5	5.9	46.7	45.1	28.6	31.8
55 to 64 years	146	57	49	19	21	16.4	7.9	32.5	39.2	46.3	27.4
65 years and over	37	12	19	5	2	13.2	8.2	(1)	(1)	(1)	(1)
White, 16 years and over	3,974	1,927	1,086	587	374	11.6	5.4	48.5	48.5	26.4	24.2
Males	1,987	888	535	344	220	12.8	6.6	44.0	44.7	31.5	28.4
Females	1,987	1,039	551	243	155	10.4	4.8	52.9	52.3	21.4	20.0
Black and other, 16 years and over	1,279	568	369	182	161	13.8	6.2	42.2	44.4	31.5	26.8
Males	602	229	189	84	99	16.3	7.3	34.1	38.1	39.1	30.4
Females	677	338	179	97	62	11.6	5.0	49.9	50.0	24.4	23.6
Males, 16 years and over:											
Married, spouse present	924	342	266	186	131	15.6	8.6	33.6	37.0	40.9	34.3
Widowed, divorced, or separated	245	81	69	44	51	19.8	8.9	43.4	33.0	33.6	39.1
Single (never married)	1,419	695	390	198	137	11.2	5.3	47.6	48.9	27.3	23.6
Females, 16 years and over:											
Married, spouse present	1,027	498	294	162	73	10.4	5.4	52.4	48.5	21.7	22.9
Widowed, divorced, or separated	523	251	139	68	64	13.6	5.6	50.9	48.1	30.2	25.4
Single (never married)	1,115	628	297	110	80	9.6	4.4	52.5	56.4	19.0	17.0

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



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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			May 1978	May 1979	May 1978	May 1979
	May 1979										
<b>OCCUPATION</b>											
White-collar workers .....	1,487	674	396	230	187	13.4	6.3	45.5	45.3	29.5	28.1
Professional and managerial .....	496	186	125	102	84	16.3	9.6	36.9	37.5	35.7	37.3
Sales workers .....	238	112	75	30	20	10.1	5.4	51.4	47.0	26.5	21.2
Clerical workers .....	754	376	195	99	83	12.5	5.0	49.1	49.9	26.6	24.2
Blue-collar workers .....	2,082	920	601	362	198	12.0	6.6	42.7	44.2	32.6	26.9
Craft and kindred workers .....	481	195	138	95	53	12.7	7.9	43.5	40.5	33.8	30.7
Operatives, except transport .....	887	416	247	144	81	12.2	5.8	45.6	46.9	30.4	25.3
Transport equipment operatives .....	187	74	60	41	13	11.7	6.9	31.1	39.4	41.2	28.7
Nonfarm laborers .....	526	236	156	83	51	11.4	6.8	40.7	44.9	32.4	25.4
Service workers .....	856	442	222	102	90	11.9	4.8	51.5	51.7	20.6	22.4
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	101	61	25	12	4	7.8	4.2	58.9	59.8	23.6	15.9
Construction .....	439	169	131	106	34	11.9	8.5	41.9	38.4	35.8	31.8
Manufacturing .....	1,128	533	298	180	116	12.3	5.9	42.6	47.3	35.2	26.3
Durable goods .....	565	231	166	104	64	14.0	7.6	42.7	40.8	38.3	29.8
Nondurable goods .....	563	303	132	76	52	10.6	4.7	42.4	53.8	31.4	22.8
Transportation and public utilities .....	203	100	47	28	28	13.1	5.2	39.7	49.5	25.9	27.3
Wholesale and retail trade .....	1,076	490	330	149	107	12.1	5.9	50.2	45.5	24.2	23.8
Finance and service industries .....	1,238	604	320	171	144	12.7	5.3	46.8	48.8	26.2	25.4
Public administration .....	166	59	41	31	35	18.1	8.5	36.8	35.4	25.5	40.1
No previous work experience .....	762	419	221	63	58	10.4	4.5	54.2	55.0	20.0	15.9

<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	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
	<b>All industries</b> .....	93,851	96,220	55,312	56,280	38,539
16 to 19 years .....	7,742	7,632	4,163	4,104	3,579	3,528
16 to 17 years .....	3,161	3,055	1,745	1,706	1,416	1,350
18 to 19 years .....	4,580	4,577	2,418	2,399	2,163	2,178
20 to 24 years .....	13,341	13,708	7,322	7,448	6,019	6,260
25 to 54 years .....	58,633	60,554	35,122	35,933	23,512	24,621
25 to 34 years .....	24,422	25,566	14,608	15,165	9,813	10,400
35 to 44 years .....	17,926	18,727	10,609	10,970	7,318	7,757
45 to 54 years .....	16,285	16,262	9,904	9,799	6,381	6,464
55 to 64 years .....	11,192	11,336	6,879	6,933	4,313	4,403
55 to 59 years .....	7,004	7,007	4,274	4,254	2,729	2,753
60 to 64 years .....	4,188	4,329	2,605	2,679	1,583	1,650
65 years and over .....	2,944	2,989	1,827	1,860	1,117	1,128
<b>Nonagricultural industries</b> .....	90,483	92,911	52,598	53,620	37,885	39,291
16 to 19 years .....	7,356	7,262	3,842	3,787	3,514	3,475
16 to 17 years .....	2,949	2,848	1,577	1,525	1,372	1,323
18 to 19 years .....	4,407	4,414	2,265	2,261	2,142	2,152
20 to 24 years .....	12,914	13,280	6,986	7,103	5,928	6,177
25 to 54 years .....	56,990	58,844	33,851	34,645	23,138	24,200
25 to 34 years .....	23,793	24,921	14,106	14,664	9,688	10,257
35 to 44 years .....	17,451	18,223	10,247	10,597	7,205	7,626
45 to 54 years .....	15,745	15,700	9,499	9,384	6,246	6,316
55 to 64 years .....	10,646	10,840	6,425	6,505	4,222	4,335
55 to 59 years .....	6,698	6,753	4,030	4,040	2,668	2,712
60 to 64 years .....	3,948	4,087	2,395	2,464	1,554	1,623
65 years and over .....	2,576	2,685	1,494	1,581	1,082	1,104
<b>Agriculture</b> .....	3,369	3,309	2,714	2,660	655	650
16 to 19 years .....	385	370	321	318	65	53
16 to 17 years .....	212	207	168	180	44	27
18 to 19 years .....	173	163	153	137	21	26
20 to 24 years .....	427	428	336	345	90	83
25 to 54 years .....	1,643	1,711	1,270	1,289	374	421
25 to 34 years .....	629	644	503	501	126	143
35 to 44 years .....	475	504	362	373	113	131
45 to 54 years .....	540	562	435	415	135	148
55 to 64 years .....	545	496	454	429	91	68
55 to 59 years .....	306	254	244	213	61	41
60 to 64 years .....	240	242	210	215	30	27
65 years and over .....	368	304	333	280	35	24

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

[In thousands]

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
	<b>TOTAL</b>	93,851	96,220	51,149	52,175	34,960	36,413	4,163	4,104	3,579
<b>White-collar workers</b>	46,726	48,935	21,910	22,632	22,475	23,885	613	609	1,728	1,809
Professional and technical	14,356	15,220	8,104	8,558	6,096	6,512	70	72	86	78
Health workers	2,629	2,736	932	930	1,684	1,786	--	8	13	13
Teachers, except college	3,281	3,397	981	1,025	2,271	2,354	7	2	23	16
Other professional and technical	8,446	9,087	6,191	6,603	2,141	2,372	63	62	50	49
Managers and administrators, except farm	9,913	10,312	7,536	7,761	2,289	2,468	58	48	31	35
Self-employed workers in retail trade	8,044	8,594	6,122	6,433	1,844	2,082	51	43	29	35
Self-employed workers, except retail trade	972	813	666	554	303	255	--	4	3	--
Sales workers	898	905	748	773	142	132	7	2	--	--
Retail trade	5,887	6,073	3,058	3,206	2,171	2,227	238	219	420	420
Other industries	3,140	3,151	979	1,050	1,600	1,515	174	177	386	408
Clerical workers	2,747	2,922	2,078	2,156	571	712	63	42	34	12
Stenographers, typists, and secretaries	16,569	17,331	3,213	3,108	11,919	12,677	247	270	1,190	1,275
Other clerical workers	4,771	4,857	89	65	4,319	4,475	4	8	359	308
<b>Blue-collar workers</b>	11,798	12,474	3,124	3,043	7,600	8,202	243	262	831	967
Craft and kindred workers	31,513	31,859	23,365	23,759	5,325	5,402	2,377	2,283	445	415
Carpenters	12,206	12,764	11,122	11,558	625	684	419	480	41	42
Construction craft, except carpenters	1,270	1,235	1,186	1,159	12	10	68	63	4	2
Mechanics and repairers	2,558	2,599	2,409	2,454	36	40	110	100	3	5
Metal craft	3,222	3,556	3,011	3,315	60	54	133	184	--	3
Blue-collar worker supervisors, not elsewhere classified	1,204	1,272	1,140	1,187	24	31	40	52	2	2
All other	1,660	1,638	1,507	1,480	147	141	4	15	2	2
Operatives, except transport	2,313	2,464	1,870	1,962	346	408	65	67	32	27
Durable goods manufacturing	10,781	10,643	5,758	5,789	4,037	3,996	675	617	312	242
Nondurable goods manufacturing	4,885	4,972	2,993	3,047	1,560	1,630	202	205	128	90
Other industries	3,413	3,223	1,318	1,294	1,844	1,739	114	91	138	98
Transport equipment operatives	2,484	2,449	1,447	1,447	632	627	360	319	46	54
Drivers, motor vehicles	3,530	3,689	3,081	3,218	226	283	209	167	14	22
All other	3,011	3,123	2,598	2,712	220	257	180	136	13	18
Nonfarm laborers	519	566	483	505	6	26	28	31	1	4
Construction	4,995	4,762	3,404	3,195	438	439	1,075	1,020	79	109
Manufacturing	913	860	763	673	11	22	137	161	2	4
Other industries	1,150	1,077	849	791	170	166	128	98	4	21
<b>Service workers</b>	2,932	2,825	1,792	1,730	257	251	810	760	74	84
Private household workers	12,804	12,728	3,821	3,828	6,695	6,679	930	955	1,358	1,266
Food service workers	1,136	993	11	16	858	815	13	11	254	151
Protective service workers	11,668	11,735	3,810	3,812	5,837	5,864	917	944	1,104	1,115
All other	4,364	4,359	759	766	2,206	2,206	610	616	789	771
Farm workers	1,320	1,383	1,190	1,242	106	110	18	24	7	8
Farmers and farm managers	5,984	5,993	1,861	1,804	3,525	3,548	289	304	308	336
Farm laborers and supervisors	2,809	2,698	2,053	1,957	465	447	242	257	48	39
Paid workers	1,469	1,376	1,328	1,256	122	99	19	22	--	--
Unpaid family workers	1,340	1,322	726	701	343	348	223	235	48	39
	1,036	996	690	648	150	141	169	177	27	29
	304	327	35	52	193	206	54	58	21	10

# HOUSEHOLD DATA

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979
<b>TOTAL</b>						
Total, 16 years and over (thousands)	93,851	96,220	55,312	56,280	38,539	39,941
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	49.8	50.9	40.7	41.3	62.8	64.3
Professional and technical	15.3	15.8	14.8	15.3	16.0	16.5
Managers and administrators, except farm	10.6	10.7	13.7	13.9	6.0	6.3
Sales workers	6.3	6.3	6.0	6.1	6.7	6.6
Clerical workers	17.7	18.0	6.3	6.0	34.0	34.9
Blue-collar workers	33.6	33.1	46.5	46.3	15.0	14.6
Craft and kindred workers	13.0	13.3	20.9	21.4	1.7	1.8
Operatives, except transport	11.5	11.1	11.6	11.4	11.3	10.6
Transport equipment operatives	3.8	3.8	5.9	6.0	.6	.8
Nonfarm laborers	5.3	4.9	8.1	7.5	1.3	1.4
Service workers	13.6	13.2	8.6	8.5	20.9	19.9
Private household workers	1.2	1.0	(1)	(1)	2.9	2.4
Other service workers	12.4	12.2	8.5	8.5	18.0	17.5
Farm workers	3.0	2.8	4.1	3.9	1.3	1.2
Farmers and farm managers	1.6	1.4	2.4	2.3	.3	.2
Farm laborers and supervisors	1.4	1.4	1.7	1.7	1.0	1.0
<b>White</b>						
Total, 16 years and over (thousands)	83,446	85,482	49,757	50,544	33,690	34,939
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.6	52.5	42.3	42.8	65.3	66.5
Professional and technical	15.8	16.3	15.4	15.9	16.3	16.8
Managers and administrators, except farm	11.3	11.4	14.5	14.6	6.5	6.7
Sales workers	6.7	6.8	6.4	6.5	7.3	7.1
Clerical workers	17.8	18.1	6.0	5.8	35.2	35.9
Blue-collar workers	33.0	32.7	45.6	45.5	14.2	14.1
Craft and kindred workers	13.5	13.8	21.4	22.0	1.8	1.9
Operatives, except transport	10.9	10.6	11.2	10.9	10.5	10.0
Transport equipment operatives	3.6	3.7	5.6	5.7	.6	.8
Nonfarm laborers	5.0	4.7	7.4	6.9	1.3	1.4
Service workers	12.4	11.9	7.8	7.6	19.1	18.2
Private household workers	.9	.8	(1)	(1)	2.2	1.8
Other service workers	11.5	11.1	7.8	7.6	16.9	16.3
Farm workers	3.1	2.9	4.2	4.1	1.4	1.3
Farmers and farm managers	1.7	1.6	2.6	2.5	.3	.3
Farm laborers and supervisors	1.4	1.3	1.6	1.6	1.1	1.0
<b>Black and other</b>						
Total, 16 years and over (thousands)	10,405	10,738	5,555	5,736	4,850	5,002
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	35.4	37.8	26.6	27.9	45.5	49.2
Professional and technical	11.7	12.3	9.3	10.7	14.4	14.2
Managers and administrators, except farm	4.8	5.4	6.7	7.2	2.7	3.5
Sales workers	2.6	2.8	2.4	2.6	2.8	3.0
Clerical workers	16.3	17.3	8.2	7.4	25.6	28.5
Blue-collar workers	38.5	36.6	54.6	52.7	20.1	18.0
Craft and kindred workers	9.1	9.2	16.1	16.2	1.1	1.2
Operatives, except transport	15.9	15.1	15.1	15.3	16.9	14.9
Transport equipment operatives	5.3	5.1	9.5	9.0	.5	.6
Nonfarm laborers	8.2	7.2	13.9	12.2	1.6	1.3
Service workers	23.8	23.7	15.3	16.5	33.4	31.9
Private household workers	3.5	3.1	.1	.2	7.4	6.5
Other service workers	20.2	20.5	15.2	16.3	26.0	25.4
Farm workers	2.3	2.0	3.5	2.9	.9	1.0
Farmers and farm managers	.5	.3	.8	.4	.2	.1
Farm laborers and supervisors	1.8	1.7	2.7	2.4	.8	.9

<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	May 1979								
	Nonsgricultural 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> .....	85,509	1,157	15,729	68,623	6,870	532	1,446	1,524	339
16 to 19 years .....	7,119	235	543	6,341	110	34	257	48	70
16 to 17 years .....	2,770	179	170	2,421	57	21	137	26	44
18 to 19 years .....	4,349	56	373	3,920	52	13	120	18	25
20 to 24 years .....	12,932	94	1,543	11,295	326	22	300	84	44
25 to 34 years .....	23,250	117	4,629	18,503	1,574	97	327	262	56
35 to 44 years .....	16,456	135	3,491	12,831	1,613	154	194	255	55
45 to 54 years .....	14,019	193	3,105	10,721	1,560	121	165	327	70
55 to 64 years .....	9,648	195	2,064	7,389	1,114	78	109	358	29
55 to 59 years .....	6,044	96	1,313	4,635	657	52	57	182	15
60 to 64 years .....	3,605	99	751	2,754	457	26	51	177	14
65 years and over .....	2,084	189	353	1,542	573	28	94	194	16
<b>Males, 16 years and over</b> .....	48,683	154	7,775	40,754	4,881	56	1,155	1,394	110
16 to 19 years .....	3,682	71	250	3,362	79	25	219	40	58
16 to 17 years .....	1,467	58	92	1,318	43	15	120	22	38
18 to 19 years .....	2,215	13	158	2,044	37	10	100	18	20
20 to 24 years .....	6,879	14	608	6,256	217	8	240	75	30
25 to 34 years .....	13,578	18	2,326	11,234	1,079	7	254	240	8
35 to 44 years .....	9,430	6	1,722	7,702	1,163	4	147	223	3
45 to 54 years .....	8,238	17	1,610	6,611	1,147	--	118	293	4
55 to 64 years .....	5,710	5	1,053	4,652	791	3	91	335	2
55 to 59 years .....	3,575	2	659	2,914	463	2	47	166	--
60 to 64 years .....	2,135	3	393	1,738	328	1	44	169	2
65 years and over .....	1,166	23	206	938	404	10	87	187	6
<b>Females, 16 years and over</b> .....	36,826	1,004	7,954	27,869	1,989	476	291	130	229
16 to 19 years .....	3,436	164	293	2,979	30	8	38	3	12
16 to 17 years .....	1,303	121	79	1,103	15	5	17	4	6
18 to 19 years .....	2,134	43	214	1,876	16	3	21	--	5
20 to 24 years .....	6,053	80	935	5,039	109	14	60	9	14
25 to 34 years .....	9,672	100	2,303	7,269	495	90	73	22	48
35 to 44 years .....	7,027	129	1,769	5,130	450	150	48	31	52
45 to 54 years .....	5,781	176	1,495	4,110	413	121	48	34	66
55 to 64 years .....	3,938	190	1,011	2,737	322	75	17	23	27
55 to 59 years .....	2,469	94	654	1,721	194	50	10	16	15
60 to 64 years .....	1,470	96	358	1,016	128	25	7	8	12
65 years and over .....	918	166	148	604	169	17	7	7	10

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

(In thousands)

Industry	May 1979											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Profes- sional and technical workers	Managers and admini- strators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
<b>Total, 16 years and over:</b>												
Agriculture .....	3,309	65	31	8	78	48	16	50	296	--	17	2,698
Mining .....	851	132	65	3	84	232	263	52	14	--	7	--
Construction .....	6,285	201	731	34	437	3,466	297	233	860	--	26	--
Manufacturing .....	21,734	2,452	1,496	412	2,615	4,269	8,195	799	1,077	--	419	--
Durable goods .....	13,320	1,708	829	145	1,608	2,774	4,972	393	655	--	236	--
Nondurable goods .....	8,414	744	668	267	1,007	1,495	3,223	406	421	--	183	--
Transportation and public utilities .....	6,305	531	623	55	1,390	1,337	152	1,547	488	--	181	--
Wholesale and retail trade .....	19,604	368	3,739	4,070	3,401	1,562	950	733	1,246	--	3,536	--
Wholesale trade .....	3,856	133	790	919	813	348	174	371	272	--	36	--
Retail trade .....	15,749	235	2,949	3,151	2,589	1,214	776	362	974	--	3,500	--
Finance, insurance, and real estate .....	5,655	311	1,042	1,314	2,488	135	3	17	79	--	265	--
Services .....	27,379	10,156	1,894	176	5,054	1,418	724	199	540	993	6,224	--
Private households .....	1,228	6	2	--	12	3	1	10	143	993	58	--
Other service industries .....	26,151	10,150	1,892	176	5,042	1,415	723	189	397	--	6,166	--
Public administration .....	5,098	1,004	690	2	1,781	297	44	59	161	--	1,060	--

## HOUSEHOLD DATA

**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>			
	May 1978				May 1979		Paid absences <sup>2</sup>	
			May 1978	May 1979			May 1978	May 1979
Total, 16 years and over . . . . .	3,684	3,751	3,571	3,665	1,616	1,781	1,541	1,495
Vacation . . . . .	1,319	1,386	1,315	1,377	956	1,074	251	222
Illness . . . . .	1,331	1,371	1,304	1,339	479	530	700	703
Bad weather . . . . .	169	77	105	56	--	--	--	--
Industrial dispute . . . . .	70	105	70	104	--	--	--	--
All other reasons . . . . .	796	812	777	789	180	177	591	570
Males, 16 years and over . . . . .	2,072	2,113	1,967	2,039	980	1,123	763	692
Vacation . . . . .	758	860	755	853	609	713	91	91
Illness . . . . .	742	751	719	722	276	305	378	351
All other reasons <sup>3</sup> . . . . .	572	501	493	463	96	105	294	250
Females, 16 years and over . . . . .	1,613	1,638	1,604	1,626	635	659	780	803
Vacation . . . . .	561	526	563	523	348	361	160	131
Illness . . . . .	588	620	584	617	204	226	323	352
All other reasons <sup>3</sup> . . . . .	463	491	459	485	84	73	297	321

<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	May 1979					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agricul-ture	All industries	Nonagri-cultural industries	Agricul-ture
Total, 16 years and over . . . . .	92,469	89,246	3,223	100.0	100.0	100.0
1-34 hours . . . . .	21,802	20,987	816	23.6	23.5	25.3
1-4 hours . . . . .	772	729	44	.8	.8	1.4
5-14 hours . . . . .	4,334	4,124	210	4.7	4.6	6.5
15-29 hours . . . . .	10,710	10,309	401	11.6	11.6	12.4
30-34 hours . . . . .	5,986	5,825	161	6.5	6.5	5.0
36 hours and over . . . . .	70,668	68,260	2,407	76.4	76.5	74.7
35-39 hours . . . . .	6,662	6,529	133	7.2	7.3	4.1
40 hours . . . . .	38,325	37,926	399	41.4	42.5	12.4
41 hours and over . . . . .	25,681	23,805	1,875	27.8	26.7	58.2
41 to 48 hours . . . . .	9,982	9,735	247	10.8	10.9	7.7
49 to 59 hours . . . . .	8,464	8,072	392	9.2	9.0	12.2
60 hours and over . . . . .	7,235	5,998	1,236	7.8	6.7	38.3
Average hours, total at work . . . . .	39.2	38.8	49.9	--	--	--
Average hours, workers on full-time schedules . . . . .	43.6	43.1	57.6	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	May 1979					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over . . . . .	21,802	6,255	15,547	20,987	6,012	14,975
Economic reasons . . . . .	3,217	1,259	1,958	3,100	1,216	1,884
Slack work . . . . .	1,504	863	641	1,437	827	610
Material shortages or repairs to plant and equipment . . . . .	88	88	--	88	88	--
New job started during week . . . . .	244	244	--	240	240	--
Job terminated during week . . . . .	64	64	--	61	61	--
Could find only part-time work . . . . .	1,317	--	1,317	1,274	--	1,274
Other reasons . . . . .	18,585	4,996	13,589	17,886	4,796	13,090
Does not want, or unavailable for, full-time work . . . . .	11,607	--	11,607	11,191	--	11,191
Vacation . . . . .	878	878	--	871	871	--
Illness . . . . .	1,896	1,699	197	1,854	1,677	177
Bad weather . . . . .	509	509	--	382	382	--
Industrial dispute . . . . .	36	36	--	36	36	--
Legal or religious holiday . . . . .	15	15	--	14	14	--
Full time for this job . . . . .	1,292	--	1,292	1,271	--	1,271
All other reasons . . . . .	2,352	1,858	494	2,267	1,815	452
Average hours:						
Economic reasons . . . . .	21.9	24.3	20.3	22.1	24.5	20.5
Other reasons . . . . .	20.7	26.1	18.7	20.8	26.2	18.8
Worked 30 to 34 hours:						
Economic reasons . . . . .	1,036	575	461	1,016	563	453
Other reasons . . . . .	4,950	2,624	2,326	4,809	2,550	2,259

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

[Numbers in thousands]

Industry	May 1979								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules						
Total				40 hours or less	41 to 48 hours	49 hours or more				
Total, 16 years and over <sup>1</sup> . . . . .	89,246	3,100	13,090	73,056	49,251	9,735	14,070	38.8	43.1	
Wage and salary workers . . . . .	82,207	2,741	11,764	67,702	46,971	9,100	11,631	38.5	42.6	
Construction . . . . .	4,922	269	291	4,362	3,212	503	647	39.0	41.2	
Manufacturing . . . . .	20,379	462	665	19,252	13,280	3,126	2,846	41.3	42.4	
Durable goods . . . . .	12,540	180	296	12,064	8,201	2,023	1,840	41.7	42.5	
Nondurable goods . . . . .	7,839	282	369	7,188	5,080	1,103	1,005	40.5	42.2	
Transportation and public utilities . . . . .	5,683	139	398	5,146	3,393	670	1,083	41.4	43.6	
Wholesale and retail trade . . . . .	16,915	757	4,461	11,697	7,107	1,986	2,604	36.4	43.9	
Finance, insurance, and real estate . . . . .	4,964	74	491	4,399	3,320	457	622	39.0	41.4	
Service industries . . . . .	23,650	964	5,135	17,551	12,660	1,841	3,050	36.3	42.5	
Private households . . . . .	1,132	148	624	360	266	23	71	23.1	42.7	
All other industries . . . . .	22,518	816	4,511	17,191	12,394	1,818	2,979	37.0	42.5	
Public administration . . . . .	4,909	62	313	4,534	3,536	426	572	39.8	41.5	
Self-employed workers . . . . .	6,507	342	1,124	5,041	2,131	577	2,333	42.1	49.1	
Unpaid family workers . . . . .	532	18	202	312	150	57	105	36.6	46.7	

<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	May 1979							
	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	89,246	3,100	13,090	73,056	49,251	23,805	38.8	43.1
16 to 21 years	11,893	680	4,699	6,514	4,941	1,573	30.2	40.9
16 to 19 years	7,037	408	3,869	2,760	2,176	584	25.9	40.1
16 to 17 years	2,772	112	2,276	384	299	85	18.7	38.3
18 to 19 years	4,265	295	1,592	2,378	1,880	498	30.6	40.4
20 years and over	82,209	2,692	9,222	70,295	47,073	23,222	39.9	43.2
20 to 24 years	12,877	651	1,614	10,612	7,602	3,010	38.1	42.0
25 years and over	69,332	2,042	7,608	59,682	39,471	20,211	40.2	43.4
25 to 44 years	41,576	1,220	3,802	36,554	23,788	12,766	40.8	43.5
45 to 64 years	25,264	717	2,547	22,000	14,910	7,090	40.3	43.3
65 years and over	2,492	107	1,259	1,126	770	356	28.7	42.7
<b>Males, 16 years and over</b>	51,581	1,408	4,347	46,126	27,485	18,641	41.9	44.6
16 to 21 years	6,259	350	2,261	3,648	2,489	1,159	31.9	42.2
16 to 19 years	3,697	218	1,929	1,550	1,123	427	27.1	41.1
16 to 17 years	1,488	75	1,189	224	159	65	19.4	39.5
18 to 19 years	2,208	143	740	1,325	963	362	32.3	41.3
20 years and over	47,884	1,190	2,118	44,576	26,363	18,213	43.1	44.7
20 to 24 years	6,891	317	605	5,969	3,826	2,143	40.3	43.3
25 years and over	40,994	874	1,513	38,607	22,538	16,069	43.5	44.9
25 to 44 years	24,388	508	436	23,444	13,288	10,156	44.3	45.2
45 to 64 years	15,147	307	398	14,442	8,776	5,666	43.6	44.6
65 years and over	1,460	60	678	722	476	246	30.0	43.0
<b>Females, 16 years and over</b>	37,665	1,692	9,043	26,930	21,766	5,164	34.5	40.4
16 to 21 years	5,634	330	2,437	2,867	2,452	415	28.4	39.3
16 to 19 years	3,340	190	1,939	1,211	1,055	156	24.6	38.8
16 to 17 years	1,283	37	1,087	159	139	20	17.8	36.6
18 to 19 years	2,057	152	852	1,053	917	136	28.9	39.1
20 years and over	34,325	1,502	7,104	25,719	20,710	5,009	35.4	40.5
20 to 24 years	5,987	334	1,009	4,644	3,777	867	35.6	40.3
25 years and over	28,338	1,168	6,094	21,076	16,934	4,142	35.4	40.5
25 to 44 years	17,188	712	3,366	13,110	10,501	2,609	35.8	40.5
45 to 64 years	10,118	409	2,149	7,560	6,136	1,424	35.6	40.6
65 years and over	1,032	47	580	405	296	109	26.7	42.1
<b>RACE</b>								
<b>White</b>	79,250	2,594	11,939	64,717	42,503	22,214	39.0	43.4
Males	46,313	1,168	3,647	41,498	24,023	17,475	42.2	44.9
Females	32,937	1,427	8,292	23,218	18,480	4,738	34.4	40.6
<b>Black and other</b>	9,996	507	1,151	8,338	6,747	1,591	37.2	40.8
Males	5,268	240	400	4,628	3,462	1,166	39.1	42.0
Females	4,728	265	751	3,712	3,286	426	35.2	39.3
<b>MARITAL STATUS</b>								
<b>Males, 16 years and over:</b>								
Married, spouse present	35,853	671	1,183	33,999	19,385	14,614	43.8	45.1
Widowed, divorced, or separated	3,891	172	204	3,515	2,120	1,395	42.3	44.6
Single (never married)	11,837	565	2,660	8,612	5,979	2,633	35.9	42.6
<b>Females, 18 years and over:</b>								
Married, spouse present	21,086	881	5,254	14,951	12,221	2,730	34.4	40.2
Widowed, divorced, or separated	7,168	338	1,046	5,784	4,491	1,293	37.2	41.2
Single (never married)	9,411	473	2,743	6,195	5,054	1,141	32.6	40.3

# 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	May 1979								
	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, 16 years and over</b> .....	89,837	3,125	13,225	73,487	49,450	9,792	14,245	38.8	40.3
<b>White-collar workers</b> .....	47,281	996	6,756	39,529	26,211	4,715	8,603	39.6	43.5
Professional and technical .....	14,734	255	1,648	12,831	8,447	1,538	2,846	40.4	43.7
Managers and administrators, except farm .....	9,987	95	421	9,471	4,395	1,401	3,675	46.2	47.6
Sales workers .....	5,824	221	1,422	4,181	2,387	604	1,190	37.3	44.6
Clerical workers .....	16,736	424	3,265	13,047	10,982	1,173	892	35.6	40.0
<b>Blue-collar workers</b> .....	30,395	1,290	2,392	26,713	17,857	4,297	4,559	40.0	42.7
Craft and kindred workers .....	12,228	453	528	11,247	7,154	1,935	2,158	41.5	43.3
Operatives, except transport .....	10,964	425	568	9,071	6,631	1,396	1,044	39.6	41.5
Transport equipment operatives .....	3,544	122	344	3,078	1,638	506	934	42.4	45.7
Nonfarm laborers .....	4,559	292	952	3,315	2,432	460	423	34.9	41.2
<b>Service workers</b> .....	12,161	839	4,077	7,245	5,382	780	1,083	32.7	42.3
Private household .....	965	117	525	323	230	22	71	24.1	42.9
Other service workers .....	11,196	723	3,552	6,921	5,152	758	1,011	33.4	42.2
<b>Males, 16 years and over</b> .....	52,014	1,424	4,134	46,456	27,626	7,046	11,784	41.9	42.1
<b>White-collar workers</b> .....	22,528	276	1,307	20,945	11,203	2,935	6,807	44.2	46.1
Professional and technical .....	8,388	83	420	7,885	4,685	999	2,201	43.5	45.1
Managers and administrators, except farm .....	7,579	67	164	7,348	3,075	1,079	3,194	47.7	48.6
Sales workers .....	3,322	67	342	2,913	1,431	451	1,031	43.0	46.4
Clerical workers .....	3,238	58	381	2,799	2,012	406	381	38.9	42.0
<b>Blue-collar workers</b> .....	24,891	945	1,772	22,174	14,176	3,717	4,281	40.7	43.3
Craft and kindred workers .....	11,534	429	431	10,674	6,745	1,844	2,085	41.7	43.4
Operatives, except transport .....	6,063	173	315	5,575	3,715	960	900	41.1	42.9
Transport equipment operatives .....	3,252	93	201	2,958	1,555	490	913	43.6	45.9
Nonfarm laborers .....	4,042	249	825	2,968	2,161	423	384	35.1	41.4
<b>Service workers</b> .....	4,595	203	1,055	3,337	2,247	394	696	37.1	44.2
Private household .....	26	6	12	8	4	—	—	19.8	31.8
Other service workers .....	4,569	198	1,042	3,329	2,241	390	698	37.2	44.2
<b>Females, 16 years and over</b> .....	37,825	1,703	9,091	27,031	21,825	2,747	2,459	34.4	37.2
<b>White-collar workers</b> .....	24,754	720	5,449	18,585	15,008	1,781	1,796	35.3	40.6
Professional and technical .....	6,345	171	1,228	4,946	3,762	539	645	36.3	41.3
Managers and administrators, except farm .....	2,408	29	256	2,123	1,321	321	481	41.5	44.3
Sales workers .....	2,502	155	1,080	1,267	955	153	159	29.7	40.6
Clerical workers .....	13,498	366	2,885	10,247	8,969	767	511	34.8	39.4
<b>Blue-collar workers</b> .....	5,505	347	620	4,538	3,680	580	278	36.6	39.9
Craft and kindred workers .....	694	24	97	573	409	91	73	38.1	41.9
Operatives, except transport .....	4,002	252	253	3,497	2,917	436	144	37.4	39.4
Transport equipment operatives .....	291	27	143	121	84	16	21	29.3	41.6
Nonfarm laborers .....	517	41	127	349	273	37	39	32.7	40.0
<b>Service workers</b> .....	7,566	636	3,022	3,908	3,137	386	385	30.0	40.6
Private household .....	939	111	513	315	225	18	72	24.2	43.2
Other service workers .....	6,627	525	2,510	3,592	2,911	368	313	30.8	40.4



# HOUSEHOLD DATA

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

[Numbers in thousands]

Employment status	May 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,967	4,054	3,913	6,657	3,396	3,261	1,310	658	652
Civilian labor force	1,472	867	604	1,335	779	556	136	88	48
Employed	1,255	724	531	1,185	679	505	71	44	26
Agriculture	143	132	11	141	130	11	2	2	--
Nonagricultural industries	1,112	592	520	1,043	550	494	68	42	26
Unemployed	217	144	73	151	100	51	66	44	22
Unemployment rate	14.7	16.6	12.1	11.3	12.8	9.2	48.5	50.0	(1)
Not in labor force	6,495	3,187	3,309	5,322	2,617	2,705	1,174	570	603
Keeping house	37	3	34	33	3	30	4	--	4
Going to school	6,358	3,157	3,201	5,210	2,584	2,626	1,148	573	575
Unable to work	8	4	4	6	4	2	3	1	2
All other reasons	92	23	69	73	25	47	19	--	22

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

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

Characteristics	May 1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
<b>Total</b>	1,255	724	531	100.0	100.0	100.0
Nonagricultural industries	1,112	592	520	88.6	81.7	97.7
Wage and salary workers	1,005	516	488	80.1	71.2	91.7
Private household workers	385	127	258	30.7	17.5	48.5
Government workers	35	24	12	2.8	3.3	2.3
Other wage and salary workers	585	366	219	46.6	50.5	41.2
Self-employed workers	100	75	26	8.0	10.3	4.9
Unpaid family workers	7	1	6	.6	.1	1.1
Agriculture	143	132	11	11.4	18.2	2.1
Wage and salary workers	57	51	6	4.5	7.0	1.1
Self-employed workers	48	47	1	3.8	6.5	.2
Unpaid family workers	38	34	4	3.0	4.7	.8
<b>OCCUPATION</b>						
<b>Total</b>	1,255	724	531	100.0	100.0	100.0
White-collar workers	319	215	104	25.4	29.7	19.6
Professional and technical	15	10	5	1.2	1.4	.9
Managers and administrators, except farm	1	1	1	.1	.1	.2
Sales workers	241	184	56	19.2	25.4	10.6
Clerical workers	63	21	42	5.0	2.9	7.9
Blue-collar workers	314	293	21	25.0	40.5	4.0
Craft and kindred workers	23	23	--	1.8	3.2	--
Operatives, except transport	25	18	7	2.0	2.5	1.3
Transport equipment operatives	7	6	1	.6	.8	.2
Nonfarm laborers	258	246	12	20.6	34.0	2.3
Service workers	533	138	395	42.5	19.1	74.5
Private household workers	270	13	256	21.5	1.8	48.3
Other service workers	263	124	139	21.0	17.1	26.2
Farm workers	89	78	11	7.1	10.8	2.1
Farmers and farm managers	4	3	1	.3	.4	.2
Farm laborers and supervisors	85	75	10	6.8	10.4	1.9

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Employment status	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	160,713	160,928	161,148	161,348	161,570	161,829	162,033	162,250	162,448	162,633	162,909	163,008	163,260
Armed Forces <sup>1</sup> .....	2,113	2,098	2,116	2,122	2,123	2,122	2,117	2,108	2,094	2,094	2,090	2,082	2,078
Civilian noninstitutional population <sup>1</sup> .....	158,601	158,830	159,032	159,226	159,447	159,707	159,916	160,142	160,353	160,539	160,819	160,926	161,182
Civilian labor force .....	100,109	100,504	100,622	100,663	100,974	101,077	101,628	101,867	102,183	102,527	102,714	102,111	102,247
Percent of civilian population .....	63.1	63.3	63.3	63.2	63.3	63.3	63.6	63.6	63.7	63.9	63.9	63.5	63.4
Employed .....	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318
Percent of total population .....	58.5	58.8	58.6	58.7	58.8	58.9	59.1	59.1	59.3	59.4	59.4	59.0	59.0
Agriculture .....	3,243	3,424	3,377	3,351	3,406	3,374	3,275	3,387	3,232	3,311	3,343	3,186	3,184
Nonagricultural industries .....	90,710	91,216	91,069	91,372	91,604	91,867	92,476	92,468	93,068	93,335	93,499	92,987	93,134
Unemployed .....	6,156	5,864	6,176	5,940	5,964	5,836	5,877	6,012	5,883	5,881	5,871	5,937	5,929
Unemployment rate .....	6.1	5.8	6.1	5.9	5.9	5.8	5.8	6.0	5.8	5.8	5.7	5.7	5.8
Not in labor force .....	58,492	58,326	58,410	58,563	58,473	58,630	58,288	58,275	58,170	58,012	58,105	58,815	58,935
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	68,519	68,623	68,729	68,827	68,937	69,081	69,182	69,288	69,385	69,476	69,612	69,663	69,787
Civilian noninstitutional population <sup>1</sup> .....	66,845	66,947	67,039	67,127	67,236	67,382	67,486	67,600	67,726	67,816	67,939	67,997	68,123
Civilian labor force .....	53,383	53,449	53,401	53,396	53,459	53,593	53,938	54,033	54,333	54,485	54,444	54,243	54,261
Percent of civilian population .....	79.9	79.8	79.7	79.5	79.5	79.5	79.9	79.9	80.2	80.3	80.1	79.8	79.7
Employed .....	51,119	51,337	51,214	51,215	51,287	51,448	51,825	51,838	52,133	52,331	52,264	52,056	52,157
Percent of total population .....	74.6	74.8	74.5	74.4	74.4	74.5	74.9	74.8	75.1	75.3	75.1	74.7	74.7
Agriculture .....	2,324	2,406	2,396	2,357	2,409	2,363	2,337	2,403	2,293	2,324	2,355	2,271	2,274
Nonagricultural industries .....	48,795	48,931	48,818	48,858	48,878	49,085	49,488	49,435	49,841	50,007	49,909	49,785	49,883
Unemployed .....	2,264	2,112	2,187	2,181	2,172	2,145	2,113	2,195	2,200	2,154	2,180	2,187	2,105
Unemployment rate .....	4.2	4.0	4.1	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9
Not in labor force .....	13,462	13,498	13,638	13,731	13,777	13,789	13,548	13,567	13,393	13,331	13,495	13,754	13,862
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	75,412	75,527	75,643	75,753	75,873	75,998	76,110	76,227	76,337	76,440	76,589	76,645	76,782
Civilian noninstitutional population <sup>1</sup> .....	75,310	75,422	75,537	75,645	75,764	75,889	76,001	76,119	76,228	76,332	76,476	76,532	76,670
Civilian labor force .....	37,208	37,392	37,573	37,543	37,921	37,860	38,095	38,217	38,185	38,429	38,642	38,345	38,560
Percent of civilian population .....	49.4	49.6	49.7	49.6	50.1	49.9	50.1	50.2	50.1	50.3	50.5	50.1	50.3
Employed .....	34,886	35,098	35,160	35,312	35,691	35,726	35,887	35,990	36,019	36,252	36,440	36,165	36,323
Percent of total population .....	46.3	46.5	46.5	46.6	47.0	47.0	47.2	47.2	47.2	47.4	47.6	47.2	47.3
Agriculture .....	536	608	593	581	597	587	571	591	586	608	613	580	543
Nonagricultural industries .....	34,350	34,490	34,567	34,731	35,094	35,139	35,316	35,399	35,433	35,644	35,827	35,584	35,780
Unemployed .....	2,322	2,294	2,413	2,231	2,230	2,134	2,208	2,227	2,166	2,177	2,201	2,180	2,237
Unemployment rate .....	6.2	6.1	6.4	5.9	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8
Not in labor force .....	38,102	38,030	37,964	38,102	37,843	38,029	37,906	37,902	38,043	37,903	37,834	38,187	38,110
<b>Both sexes, 18-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,782	16,779	16,776	16,768	16,760	16,750	16,741	16,734	16,725	16,717	16,709	16,700	16,692
Civilian noninstitutional population <sup>1</sup> .....	16,446	16,461	16,455	16,455	16,446	16,436	16,429	16,422	16,400	16,391	16,404	16,397	16,389
Civilian labor force .....	9,518	9,663	9,648	9,724	9,594	9,624	9,595	9,617	9,665	9,613	9,628	9,523	9,426
Percent of civilian population .....	57.9	58.7	58.6	59.1	58.3	58.6	58.4	58.6	58.9	58.6	58.7	58.1	57.5
Employed .....	7,948	8,205	8,072	8,196	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839
Percent of total population .....	47.4	48.9	48.1	48.9	47.9	48.2	48.0	48.0	48.7	48.2	48.7	47.6	47.0
Agriculture .....	383	410	389	413	400	424	367	393	354	380	375	335	368
Nonagricultural industries .....	7,565	7,795	7,684	7,783	7,632	7,643	7,672	7,634	7,794	7,684	7,763	7,618	7,471
Unemployed .....	1,570	1,458	1,576	1,528	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587
Unemployment rate .....	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8
Not in labor force .....	6,928	6,798	6,807	6,731	6,852	6,812	6,834	6,805	6,735	6,778	6,776	6,874	6,963

<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-42 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

Full- and part-time employment status	1978									1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
<b>FULL TIME</b>														
Total, 16 years and over:														
Civilian labor force	84,957	85,965	85,894	86,030	85,899	86,185	86,391	86,631	87,025	87,373	87,567	87,430	87,300	
Employed	80,175	81,436	81,004	81,389	81,247	81,680	81,900	82,034	82,525	82,789	83,067	82,774	82,792	
Unemployed	4,782	4,529	4,890	4,641	4,652	4,505	4,491	4,597	4,500	4,584	4,499	4,655	4,508	
Unemployment rate	5.6	5.3	5.7	5.4	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2	
<b>PART TIME</b>														
Total, 16 years and over:														
Civilian labor force	15,106	14,506	14,749	14,720	14,952	14,996	15,150	15,205	15,196	15,213	15,097	14,701	14,954	
Employed	13,717	13,206	13,431	13,436	13,635	13,642	13,800	13,802	13,810	13,907	13,706	13,410	13,517	
Unemployed	1,389	1,300	1,318	1,284	1,317	1,354	1,350	1,403	1,385	1,306	1,391	1,291	1,437	
Unemployment rate	9.2	9.0	8.9	8.7	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6	

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

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

(Numbers in thousands)

Characteristics	1978									1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
<b>WHITE</b>														
Total, 16 years and over:														
Civilian labor force	88,168	88,626	88,503	88,655	88,862	89,067	89,468	89,747	90,093	90,395	90,415	89,923	90,018	
Employed	83,499	84,171	83,857	84,060	84,250	84,565	85,013	85,125	85,543	85,941	85,938	85,479	85,515	
Unemployed	4,669	4,455	4,646	4,595	4,612	4,502	4,455	4,622	4,550	4,453	4,478	4,444	4,503	
Unemployment rate	5.3	5.0	5.2	5.2	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0	
Males, 20 years and over:														
Civilian labor force	47,668	47,810	47,710	47,707	47,684	47,791	48,103	48,202	48,466	48,639	48,527	48,411	48,401	
Employed	45,915	46,144	45,992	45,996	45,968	46,098	46,477	46,492	46,737	47,006	46,877	46,755	46,792	
Unemployed	1,753	1,666	1,718	1,711	1,716	1,693	1,626	1,710	1,729	1,633	1,650	1,657	1,609	
Unemployment rate	3.7	3.5	3.6	3.6	3.6	3.5	3.4	3.5	3.6	3.4	3.4	3.4	3.3	
Females, 20 years and over:														
Civilian labor force	32,055	32,214	32,343	32,265	32,602	32,677	32,809	32,981	32,978	33,225	33,302	33,080	33,275	
Employed	30,303	30,490	30,565	30,574	30,912	31,074	31,161	31,287	31,340	31,567	31,638	31,460	31,572	
Unemployed	1,752	1,724	1,778	1,691	1,690	1,603	1,648	1,694	1,638	1,658	1,664	1,619	1,703	
Unemployment rate	5.5	5.4	5.5	5.2	5.2	4.9	5.0	5.1	5.0	5.0	5.0	4.9	5.1	
Both sexes, 16 to 19 years:														
Civilian labor force	8,445	8,602	8,450	8,683	8,576	8,599	8,556	8,564	8,649	8,531	8,586	8,432	8,342	
Employed	7,281	7,537	7,300	7,490	7,370	7,393	7,375	7,346	7,466	7,368	7,422	7,264	7,151	
Unemployed	1,164	1,065	1,150	1,193	1,206	1,206	1,181	1,218	1,183	1,163	1,164	1,168	1,191	
Unemployment rate	13.8	12.4	13.6	13.7	14.1	14.0	13.8	14.2	13.7	13.6	13.6	13.9	14.3	
<b>BLACK AND OTHER</b>														
Total, 16 years and over:														
Civilian labor force	11,906	11,974	12,010	11,994	12,084	12,122	12,163	12,153	12,077	12,228	12,251	12,175	12,176	
Employed	10,437	10,537	10,533	10,616	10,721	10,749	10,746	10,758	10,725	10,775	10,878	10,734	10,767	
Unemployed	1,469	1,437	1,477	1,378	1,363	1,373	1,417	1,395	1,352	1,452	1,374	1,442	1,409	
Unemployment rate	12.3	12.0	12.3	11.5	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6	
Males, 20 years and over:														
Civilian labor force	5,713	5,721	5,703	5,692	5,759	5,808	5,829	5,867	5,810	5,841	5,874	5,813	5,826	
Employed	5,208	5,250	5,228	5,195	5,286	5,327	5,345	5,376	5,356	5,339	5,357	5,315	5,335	
Unemployed	505	471	475	497	473	481	484	491	455	502	517	498	491	
Unemployment rate	8.8	8.2	8.3	8.7	8.2	8.3	8.3	8.4	7.8	8.6	8.8	8.6	8.4	
Females, 20 years and over:														
Civilian labor force	5,142	5,191	5,172	5,266	5,287	5,277	5,266	5,224	5,223	5,279	5,316	5,276	5,290	
Employed	4,580	4,615	4,580	4,722	4,759	4,743	4,723	4,691	4,667	4,722	4,793	4,708	4,764	
Unemployed	562	576	592	544	528	534	543	533	556	557	523	568	526	
Unemployment rate	10.9	11.1	11.4	10.3	10.0	10.1	10.3	10.2	10.6	10.6	9.8	10.8	9.9	
Both sexes, 16 to 19 years:														
Civilian labor force	1,051	1,062	1,135	1,036	1,038	1,037	1,068	1,062	1,044	1,107	1,061	1,086	1,059	
Employed	649	672	725	699	676	679	678	691	703	714	727	711	668	
Unemployed	402	390	410	337	362	358	390	371	341	393	334	375	391	
Unemployment rate	38.2	36.7	36.1	32.5	34.9	34.5	36.5	34.9	32.7	35.5	31.5	34.5	36.9	

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[Unemployment rates]

Selected categories	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8
Males, 20 years and over .....	4.2	4.0	4.1	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9
Females, 20 years and over .....	6.2	6.1	6.4	5.9	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8
Both sexes, 16-19 years .....	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8
White .....	5.3	5.0	5.2	5.2	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0
Black and other .....	12.3	12.0	12.3	11.5	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6
Married men, spouse present .....	2.9	2.7	2.7	2.8	2.6	2.6	2.4	2.5	2.6	2.6	2.6	2.7	2.5
Married women, spouse present .....	6.0	5.6	5.5	5.6	5.5	5.3	5.5	5.6	5.3	5.1	5.1	5.2	5.2
Women who head families .....	9.3	8.8	9.8	8.0	8.0	7.5	7.7	7.7	7.8	8.3	8.3	8.4	8.9
Full-time workers .....	5.6	5.3	5.7	5.4	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2
Part-time workers .....	9.2	9.0	8.9	8.7	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6
Unemployed 15 weeks and over <sup>1</sup> .....	1.4	1.3	1.3	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.2	1.2
Labor force time lost <sup>2</sup> .....	6.6	6.5	6.8	6.5	6.4	6.2	6.2	6.2	6.2	6.2	6.1	6.5	6.3
<b>OCCUPATION</b>													
White-collar workers .....	3.7	3.6	3.7	3.5	3.5	3.3	3.2	3.5	3.3	3.4	3.4	3.3	3.2
Professional and technical .....	2.5	2.5	2.5	2.6	2.6	2.8	2.4	3.0	2.5	2.3	2.1	2.2	2.0
Managers and administrators, except farm .....	2.1	1.9	2.2	1.9	2.2	1.8	2.2	1.9	2.0	1.9	2.2	2.3	2.2
Sales workers .....	4.5	4.4	4.3	4.1	4.3	4.1	3.1	3.6	3.8	4.3	4.1	4.0	4.0
Clerical workers .....	5.3	5.1	5.3	4.9	4.7	4.2	4.5	4.6	4.6	4.7	4.9	4.5	4.6
Blue-collar workers .....	6.7	6.6	6.7	6.9	6.8	6.8	6.4	6.8	6.4	6.4	6.6	6.9	6.7
Craft and kindred workers .....	4.4	4.3	4.0	4.5	4.7	4.9	4.0	4.7	4.5	4.7	4.6	4.2	4.0
Operatives, except transport .....	8.4	8.1	8.2	8.8	8.1	7.6	7.5	7.7	7.6	7.6	7.7	8.6	8.3
Transport equipment operatives .....	5.6	4.9	5.7	5.6	5.2	4.8	4.2	5.3	4.9	5.0	5.2	6.0	5.4
Nonfarm laborers .....	8.8	10.2	10.6	9.7	10.5	11.0	11.6	11.0	9.4	9.3	10.3	10.5	11.1
Service workers .....	7.6	7.2	7.4	7.1	7.4	7.1	7.4	7.7	7.9	7.1	7.2	7.4	7.2
Farm workers .....	3.6	3.2	3.9	3.6	3.9	4.6	3.2	3.4	2.8	3.6	3.2	3.4	3.5
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	6.0	5.7	6.0	5.8	5.8	5.6	5.6	5.8	5.7	5.6	5.5	5.7	5.7
Construction .....	9.6	9.5	9.6	9.4	10.6	11.2	10.8	12.1	10.6	11.5	10.2	10.3	9.6
Manufacturing .....	5.7	5.6	5.5	5.6	5.3	5.1	5.1	5.0	5.0	4.8	5.2	5.4	5.4
Durable goods .....	5.1	4.9	5.0	5.4	4.8	4.6	4.6	4.4	4.4	4.1	4.3	4.6	4.4
Nondurable goods .....	6.5	6.6	6.3	5.8	6.1	6.0	5.8	6.0	5.9	5.8	6.4	6.5	7.0
Transportation .....	3.9	3.9	4.1	3.8	3.6	3.4	3.3	3.3	3.5	3.0	4.0	2.9	3.5
Wholesale and retail trade .....	6.9	6.4	6.8	6.5	6.7	6.7	6.5	6.8	6.5	6.6	6.2	6.6	6.4
Finance and service industries .....	5.2	4.8	5.4	5.2	5.1	4.6	5.0	5.1	5.1	4.8	4.7	4.8	5.0
Government workers .....	4.0	4.0	4.1	3.6	3.9	3.9	3.9	4.0	4.0	3.7	4.1	3.6	3.5
Agricultural wage and salary workers .....	7.9	8.4	9.6	8.7	8.7	9.5	7.9	7.7	7.2	8.9	7.7	8.6	9.3

<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	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>DURATION</b>													
Both sexes, 16 years and over:													
Less than 5 weeks .....	2,862	2,772	2,967	2,795	2,783	2,719	2,833	2,876	2,713	2,743	2,751	2,939	2,787
5 to 14 weeks .....	1,842	1,908	1,873	1,895	1,861	1,789	1,774	1,979	1,877	1,870	1,857	1,874	1,935
15 weeks and over .....	1,404	1,266	1,314	1,234	1,268	1,317	1,196	1,208	1,251	1,260	1,305	1,235	1,213
15 to 26 weeks .....	723	674	668	625	663	732	685	726	728	712	729	692	705
27 weeks and over .....	681	592	646	609	605	585	511	482	523	548	576	543	508
Average (mean) duration, in weeks .....	12.2	12.0	11.8	11.4	11.5	11.8	11.0	10.7	11.2	11.3	11.7	11.0	11.1
Median duration, in weeks .....	5.3	6.0	6.0	6.0	5.9	5.9	5.4	5.6	5.9	6.3	5.8	5.2	5.2
<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 .....	46.9	46.6	48.2	47.2	47.1	46.7	48.8	47.4	46.4	46.7	46.5	48.6	47.0
5 to 14 weeks .....	30.2	32.1	30.4	32.0	31.5	30.7	30.6	32.6	32.1	31.8	31.4	31.0	32.6
15 weeks and over .....	23.0	21.3	21.4	20.8	21.4	22.6	20.6	19.9	21.4	21.4	22.1	20.4	20.4
15 to 26 weeks .....	11.8	11.3	10.9	10.6	11.2	12.6	11.8	12.3	12.5	12.1	12.3	11.4	11.9
27 weeks and over .....	11.1	10.0	10.5	10.3	10.2	10.0	8.8	7.9	9.0	9.3	9.7	9.0	8.6

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

Sex and age	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>Total, 16 years and over</b> .....	6.1	5.8	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8
16 to 19 years .....	16.5	15.1	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8
16 to 17 years .....	19.1	17.1	20.0	18.6	19.2	19.2	19.3	20.2	18.4	18.4	18.9	19.1	19.2
18 to 19 years .....	14.6	13.4	13.9	13.5	14.0	14.0	14.0	13.8	13.6	14.6	13.1	14.3	15.2
20 to 24 years .....	9.1	9.4	9.9	9.0	9.3	8.6	9.0	9.3	8.6	8.6	8.8	8.5	8.9
25 years and over .....	4.2	3.9	4.1	4.1	4.0	3.9	3.8	3.9	3.9	3.9	3.9	4.0	3.8
25 to 54 years .....	4.5	4.1	4.3	4.3	4.1	4.2	4.0	4.2	4.2	4.1	4.1	4.2	4.0
55 years and over .....	3.3	3.2	3.2	3.0	3.3	3.0	2.9	2.9	2.9	3.0	3.1	3.1	3.2
<b>Males, 16 years and over</b> .....	5.2	4.8	5.1	5.0	5.1	5.1	5.0	5.1	5.1	5.0	5.0	5.1	4.9
16 to 19 years .....	15.3	13.7	15.4	14.8	15.5	16.1	15.9	16.7	16.1	16.5	16.0	16.2	16.1
16 to 17 years .....	18.4	16.8	18.6	17.7	19.1	19.9	20.1	20.7	19.1	19.2	19.9	18.0	19.0
18 to 19 years .....	13.1	12.0	13.0	12.5	12.6	13.2	12.7	13.6	13.5	14.7	13.2	14.2	14.1
20 to 24 years .....	8.0	8.4	8.9	8.8	8.6	8.5	8.5	8.9	8.4	8.2	8.4	7.8	8.0
25 years and over .....	3.5	3.1	3.3	3.3	3.3	3.3	3.1	3.2	3.2	3.2	3.2	3.3	3.1
25 to 54 years .....	3.5	3.2	3.3	3.5	3.4	3.4	3.2	3.4	3.3	3.2	3.3	3.4	3.1
55 years and over .....	3.3	3.1	3.4	2.9	3.0	2.8	2.5	2.6	2.8	2.8	2.8	3.0	2.9
<b>Females, 16 years and over</b> .....	7.5	7.3	7.6	7.1	7.1	6.8	6.9	6.9	6.7	6.7	6.7	6.9	7.0
16 to 19 years .....	17.8	16.6	17.4	16.8	17.1	16.3	16.5	16.3	15.3	15.7	14.8	16.8	17.7
16 to 17 years .....	20.9	17.6	21.6	19.7	19.4	18.4	18.3	19.6	17.5	17.4	17.8	20.2	19.3
18 to 19 years .....	16.2	15.0	14.8	14.6	15.6	14.8	15.5	14.1	13.6	14.4	13.0	14.4	16.4
20 to 24 years .....	10.5	10.5	11.0	9.2	10.1	8.7	9.6	9.7	8.9	9.1	9.4	9.4	9.9
25 years and over .....	5.4	5.1	5.4	5.2	4.9	4.9	4.9	5.0	5.0	4.9	4.8	4.9	5.0
25 to 54 years .....	5.9	5.6	5.8	5.6	5.2	5.2	5.2	5.3	5.4	5.3	5.2	5.2	5.2
55 years and over .....	3.2	3.2	2.9	3.2	3.8	3.3	3.5	3.3	3.1	3.3	3.6	3.1	3.7

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

[Numbers in thousands]

Reason for unemployment	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>NUMBER OF UNEMPLOYED</b>													
<b>Both sexes, 16 years and over:</b>													
Job losers .....	2,614	2,379	2,536	2,459	2,362	2,456	2,372	2,442	2,454	2,481	2,440	2,521	2,361
On layoff .....	701	636	696	700	683	644	746	715	753	792	789	846	710
Other job losers .....	1,913	1,743	1,840	1,759	1,679	1,812	1,626	1,727	1,701	1,689	1,652	1,675	1,652
Job leavers .....	828	853	855	840	849	812	825	871	927	829	863	847	951
Reentrants .....	1,793	1,785	1,870	1,743	1,930	1,721	1,754	1,937	1,692	1,756	1,788	1,790	1,762
New entrants .....	892	816	871	875	816	825	872	826	823	874	822	811	841
<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 .....	42.7	40.8	41.4	41.6	39.7	42.2	40.7	40.2	41.6	41.8	41.3	42.2	39.9
On layoff .....	11.4	10.9	11.4	11.8	11.5	11.1	12.8	11.8	12.8	13.3	13.3	14.2	12.0
Other job losers .....	31.2	29.9	30.0	29.7	28.2	31.2	27.9	28.4	28.9	28.4	27.9	28.1	27.9
Job leavers .....	13.5	14.6	13.9	14.2	14.3	14.0	14.2	14.3	15.7	14.0	14.6	14.2	16.1
Reentrants .....	29.3	30.6	30.5	29.5	32.4	29.6	30.1	31.9	28.7	29.6	30.2	30.0	29.8
New entrants .....	14.6	14.0	14.2	14.8	13.7	14.2	15.0	13.6	14.0	14.7	13.9	13.6	14.2
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.6	2.4	2.5	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.5	2.3
On layoff .....	.8	.8	.8	.8	.8	.8	.8	.9	.9	.8	.8	.8	.9
Other job losers .....	1.8	1.8	1.9	1.7	1.9	1.7	1.7	1.9	1.7	1.7	1.7	1.8	1.7
Job leavers .....	.9	.8	.9	.9	.8	.8	.9	.8	.8	.9	.8	.8	.8

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>Total, 16 years and over</b> .....	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318
16 to 19 years .....	7,948	8,205	8,072	8,196	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839
16 to 17 years .....	3,282	3,365	3,287	3,370	3,293	3,308	3,276	3,300	3,354	3,372	3,323	3,280	3,177
18 to 19 years .....	4,665	4,789	4,736	4,814	4,749	4,773	4,783	4,730	4,835	4,731	4,803	4,711	4,661
20 to 24 years .....	13,432	13,532	13,483	13,626	13,666	13,773	13,701	13,760	13,859	13,992	13,959	13,975	13,803
25 years and over .....	72,557	72,879	72,922	72,761	73,332	73,530	73,976	74,070	74,299	74,641	74,703	74,284	74,666
25 to 54 years .....	58,378	58,645	58,789	58,750	59,191	59,329	59,630	59,781	59,903	60,193	60,329	60,069	60,298
55 years and over .....	14,107	14,239	14,148	14,114	14,124	14,137	14,340	14,327	14,394	14,452	14,382	14,220	14,295
<b>Males, 16 years and over</b> .....	55,372	55,766	55,531	55,580	55,594	55,754	56,096	56,072	56,449	56,549	56,559	56,267	56,352
16 to 19 years .....	4,253	4,429	4,317	4,365	4,307	4,306	4,271	4,234	4,316	4,218	4,295	4,211	4,195
16 to 17 years .....	1,778	1,831	1,766	1,810	1,775	1,751	1,734	1,744	1,795	1,779	1,788	1,783	1,739
18 to 19 years .....	2,455	2,558	2,520	2,562	2,549	2,558	2,559	2,494	2,541	2,455	2,519	2,458	2,436
20 to 24 years .....	7,348	7,371	7,304	7,378	7,378	7,432	7,443	7,443	7,541	7,585	7,516	7,641	7,474
25 years and over .....	43,772	43,934	43,894	43,807	43,950	44,026	44,340	44,411	44,589	44,772	44,711	44,442	44,684
25 to 54 years .....	35,046	35,121	35,183	35,087	35,237	35,261	35,481	35,560	35,709	35,845	35,880	35,716	35,863
55 years and over .....	8,702	8,801	8,721	8,719	8,711	8,760	8,867	8,872	8,896	8,901	8,841	8,713	8,789
<b>Females, 16 years and over</b> .....	38,581	38,874	38,915	39,143	39,416	39,487	39,655	39,783	39,851	40,098	40,283	39,907	39,966
16 to 19 years .....	3,695	3,776	3,755	3,831	3,725	3,761	3,768	3,793	3,832	3,846	3,843	3,742	3,643
16 to 17 years .....	1,504	1,534	1,521	1,560	1,518	1,557	1,542	1,556	1,559	1,593	1,535	1,497	1,438
18 to 19 years .....	2,210	2,231	2,216	2,252	2,200	2,215	2,224	2,236	2,294	2,276	2,284	2,253	2,225
20 to 24 years .....	6,084	6,161	6,179	6,248	6,288	6,341	6,223	6,317	6,318	6,407	6,444	6,334	6,329
25 years and over .....	28,785	28,945	29,028	28,954	29,382	29,504	29,636	29,659	29,710	29,869	29,993	29,841	29,982
25 to 54 years .....	23,332	23,524	23,606	23,663	23,954	24,068	24,149	24,221	24,194	24,348	24,449	24,353	24,435
55 years and over .....	5,405	5,438	5,427	5,395	5,413	5,377	5,473	5,455	5,498	5,551	5,541	5,507	5,506

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

[In thousands]

Sex and age	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>Total, 16 years and over</b> .....	6,156	5,864	6,176	5,940	5,964	5,836	5,877	6,012	5,883	5,881	5,871	5,937	5,929
16 to 19 years .....	1,570	1,458	1,576	1,528	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587
16 to 17 years .....	777	696	824	772	783	786	781	834	755	758	775	772	753
18 to 19 years .....	796	742	763	751	773	775	778	759	758	807	724	788	835
20 to 24 years .....	1,351	1,399	1,479	1,343	1,399	1,298	1,361	1,406	1,310	1,316	1,355	1,305	1,348
25 years and over .....	3,215	2,991	3,152	3,088	3,025	3,015	2,951	3,015	3,049	2,998	3,008	3,063	2,978
25 to 54 years .....	2,740	2,538	2,648	2,663	2,553	2,569	2,514	2,615	2,607	2,566	2,574	2,602	2,509
55 years and over .....	474	464	465	436	478	438	428	424	435	449	462	448	471
<b>Males, 16 years and over</b> .....	3,032	2,816	2,971	2,937	2,965	2,971	2,923	3,044	3,026	2,989	3,001	3,001	2,910
16 to 19 years .....	768	704	784	756	793	826	810	849	826	835	821	814	805
16 to 17 years .....	401	369	404	389	418	436	436	455	424	423	443	392	408
18 to 19 years .....	370	348	378	367	367	390	371	391	397	424	383	408	399
20 to 24 years .....	640	679	712	708	696	693	699	730	693	674	687	647	653
25 years and over .....	1,575	1,426	1,487	1,506	1,495	1,505	1,413	1,469	1,493	1,459	1,481	1,538	1,406
25 to 54 years .....	1,286	1,145	1,185	1,256	1,228	1,237	1,188	1,249	1,231	1,202	1,235	1,254	1,156
55 years and over .....	296	286	305	257	265	253	230	235	258	257	253	270	259
<b>Females, 16 years and over</b> .....	3,124	3,048	3,205	3,003	2,999	2,865	2,954	2,968	2,857	2,891	2,870	2,936	3,019
16 to 19 years .....	802	754	792	772	769	731	746	741	691	714	669	756	782
16 to 17 years .....	376	327	420	383	365	353	345	379	331	335	332	380	345
18 to 19 years .....	426	394	385	384	406	385	407	368	361	383	341	380	436
20 to 24 years .....	711	720	767	635	703	605	662	676	618	642	668	658	695
25 years and over .....	1,640	1,565	1,665	1,582	1,530	1,510	1,538	1,546	1,555	1,539	1,527	1,526	1,572
25 to 54 years .....	1,454	1,393	1,463	1,404	1,325	1,332	1,326	1,366	1,376	1,364	1,340	1,349	1,352
55 years and over .....	178	178	160	179	213	185	198	189	177	192	208	179	211

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>CHARACTERISTICS</b>													
Total, 16 years and over .....	93,953	94,640	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318
Married men, spouse present .....	38,596	38,621	38,635	38,534	38,782	38,806	38,944	39,039	39,202	39,374	39,291	38,917	38,988
Married women, spouse present .....	21,694	21,749	21,837	21,737	22,133	22,194	22,274	22,297	22,410	22,632	22,700	22,355	22,490
<b>OCCUPATION</b>													
White-collar workers .....	46,885	47,225	47,276	47,325	47,550	47,713	47,888	48,040	48,275	49,001	49,133	49,160	49,104
Professional and technical Managers and administrators, except farm .....	14,356	14,318	14,249	14,246	14,182	14,307	14,297	14,629	14,743	15,034	15,083	15,226	15,220
Sales workers .....	9,972	10,146	10,212	10,180	10,062	9,968	10,030	10,217	10,322	10,414	10,407	10,409	10,374
Clerical workers .....	5,903	5,922	5,992	5,892	5,898	5,986	6,192	6,092	6,055	6,141	6,067	6,079	6,091
Blue-collar workers .....	16,654	16,839	16,823	17,007	17,408	17,452	17,369	17,102	17,154	17,412	17,577	17,446	17,418
Craft and kindred workers .....	31,477	31,554	31,282	31,506	31,891	31,986	32,202	31,962	32,491	32,331	32,085	31,582	31,826
Operatives, except transport Transport equipment operatives .....	12,233	12,429	12,220	12,557	12,628	12,556	12,646	12,610	12,842	12,932	12,808	12,697	12,790
Nonfarm laborers .....	10,798	10,924	10,877	10,741	10,981	11,178	11,177	10,887	11,047	10,953	11,060	10,651	10,664
Service workers .....	3,508	3,501	3,487	3,429	3,573	3,581	3,640	3,640	3,678	3,618	3,565	3,550	3,667
Farm workers .....	4,938	4,700	4,698	4,779	4,709	4,671	4,739	4,825	4,924	4,829	4,652	4,684	4,706
Unpaid family workers .....	12,838	12,987	12,803	12,866	12,754	12,951	13,009	13,007	12,777	12,770	12,856	12,909	12,754
Unpaid family workers .....	2,708	2,874	2,797	2,794	2,855	2,821	2,739	2,826	2,759	2,742	2,803	2,624	2,600
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,434	1,443	1,386	1,423	1,442	1,423	1,424	1,478	1,365	1,429	1,419	1,362	1,439
Self-employed workers .....	1,577	1,664	1,641	1,611	1,648	1,638	1,563	1,625	1,547	1,550	1,595	1,531	1,490
Unpaid family workers .....	250	328	340	319	307	323	293	318	293	348	324	282	270
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	84,016	84,456	84,064	84,508	84,786	85,363	85,578	85,579	86,169	86,346	86,592	86,195	86,129
Government .....	15,238	15,255	15,184	15,275	15,336	15,387	15,373	15,360	15,217	15,293	15,224	15,356	15,635
Private industries .....	68,778	69,201	68,880	69,233	69,450	69,976	70,205	70,219	70,952	71,053	71,368	70,839	70,494
Private households .....	1,410	1,370	1,371	1,368	1,361	1,315	1,335	1,316	1,245	1,334	1,255	1,160	1,177
Other industries .....	67,368	67,831	67,509	67,865	68,089	68,661	68,870	68,903	69,707	69,719	70,112	69,679	69,317
Self-employed workers .....	6,274	6,216	6,216	6,219	6,224	6,314	6,370	6,515	6,529	6,632	6,585	6,468	6,625
Unpaid family workers .....	497	466	485	449	470	453	455	460	478	456	443	471	466
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	85,401	86,011	86,102	86,350	86,329	86,511	86,653	87,046	87,490	87,592	87,955	86,345	87,727
Full-time schedules .....	70,090	70,723	70,929	71,205	71,085	71,318	71,394	71,787	72,209	72,250	72,623	71,554	72,476
Part-time for economic reasons .....	3,247	3,433	3,316	3,298	3,203	3,164	3,131	3,058	3,159	3,147	3,179	3,312	3,307
Usually work full-time .....	1,211	1,409	1,347	1,350	1,283	1,167	1,279	1,209	1,208	1,205	1,235	1,265	1,246
Usually work part-time .....	2,036	2,024	1,969	1,948	1,920	1,997	1,852	1,849	1,951	1,942	1,944	2,048	2,061
Part-time for noneconomic reasons .....	12,064	11,855	11,857	11,847	12,041	12,029	12,128	12,201	12,122	12,195	12,154	11,479	11,943

<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.

## A-43. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninsti- tutional population		Civilian labor force							
			Total		Employed		Unemployed			
	Number						Percent of labor force			
May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	May 1978	May 1979	
<b>VETERANS<sup>1</sup></b>										
Total, 20 years and over .....	8,311	8,516	7,811	8,085	7,518	7,748	293	337	3.8	4.2
20 to 24 years .....	784	579	685	517	642	460	43	57	6.3	11.0
25 to 39 years .....	6,825	7,106	6,522	6,867	6,292	6,604	230	263	3.5	3.8
25 to 29 years .....	2,417	2,003	2,276	1,907	2,155	1,807	121	100	5.3	5.2
30 to 34 years .....	3,327	3,591	3,198	3,491	3,123	3,366	75	125	2.3	3.6
35 to 39 years .....	1,081	1,512	1,048	1,469	1,014	1,431	34	38	3.2	2.6
40 years and over .....	702	831	604	701	584	684	20	17	3.3	2.4
<b>NONVETERANS<sup>2</sup></b>										
Total, 25 to 39 years .....	13,565	14,463	12,944	13,721	12,443	13,309	501	412	3.9	3.0
25 to 29 years .....	6,015	6,597	5,672	6,226	5,420	6,016	252	210	4.4	3.4
30 to 34 years .....	3,991	4,148	3,854	3,966	3,714	3,847	140	119	3.6	3.0
35 to 39 years .....	3,559	3,718	3,418	3,529	3,309	3,446	109	83	3.2	2.4

<sup>1</sup> Vietnam-era veterans are those who served between August 5, 1964 and May 1975.<sup>2</sup> Nonveterans are males who have never served in the Armed Forces. Published data are limited to those 25-39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

NOTE: Seasonally-adjusted data are no longer being provided because the changing age composition of the Vietnam-era veterans' population distorts the ability to identify seasonality in the series.



# ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

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

Year and month	Goods-producing						Service-producing								
	Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government			
							Total	Wholesale trade	Retail trade			Total	Federal	State and local	
1919	27,078	12,828	1,133	1,036	10,659	14,250	3,711	4,514	-	-	1,096	2,253	2,676	-	-
1920	27,340	12,760	1,239	863	10,658	14,580	3,998	4,467	-	-	1,160	2,352	2,603	-	-
1925	28,766	12,489	1,089	1,461	9,939	16,277	3,826	5,576	-	-	1,218	2,857	2,800	-	-
1926	29,806	12,911	1,185	1,570	10,156	16,895	3,942	5,784	-	-	1,290	3,033	2,846	-	-
1927	29,962	12,738	1,114	1,623	10,001	17,224	3,895	5,908	-	-	1,352	3,154	2,915	-	-
1928	29,986	12,618	1,050	1,621	9,947	17,368	3,828	5,874	-	-	1,420	3,251	2,995	-	-
1929	31,324	13,301	1,087	1,512	10,702	18,023	3,916	6,123	-	-	1,494	3,425	3,065	533	2,532
1930	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,250	1,525	3,905	4,660	1,340	3,320
1942	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,174
1944	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,213	1,461	4,145	6,043	2,928	3,116
1945	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,085	1,675	4,697	5,595	2,254	3,341
1947	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,484	1,728	5,025	5,474	1,892	3,582
1948	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,609	2,298	6,240	6,914	2,187	4,727
1956	52,369	21,104	822	3,039	17,243	31,265	4,244	10,858	3,018	7,840	2,389	6,497	7,277	2,209	5,069
1957	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
1970	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977	82,256	24,288	809	3,833	19,647	57,968	4,696	18,492	4,697	13,795	4,452	15,249	15,079	2,727	12,352
1978	85,763	25,381	837	4,212	20,332	60,382	4,859	19,394	4,898	14,496	4,676	15,979	15,476	2,753	12,723
May	85,796	25,262	870	4,183	20,209	60,534	4,842	19,267	4,870	14,397	4,642	15,975	15,808	2,756	13,052
June	86,799	25,839	895	4,462	20,482	60,960	4,920	19,499	4,934	14,565	4,712	16,138	15,691	2,802	12,889
July	85,925	25,712	900	4,572	20,240	60,213	4,856	19,469	4,930	14,539	4,746	16,213	14,929	2,815	12,114
Aug.	86,134	25,997	902	4,633	20,462	60,137	4,870	19,519	4,930	14,589	4,754	16,235	14,759	2,793	11,966
Sept.	86,688	26,131	894	4,586	20,651	60,557	4,908	19,634	4,932	14,702	4,724	16,159	15,132	2,744	12,388
Oct.	87,303	26,161	897	4,601	20,663	61,142	4,952	19,701	4,970	14,731	4,732	16,201	15,556	2,746	12,810
Nov.	87,800	26,157	904	4,517	20,736	61,643	4,972	19,771	4,988	14,983	4,760	16,237	15,703	2,746	12,957
Dec.	88,054	25,967	898	4,331	20,738	62,087	4,992	20,388	5,010	15,378	4,775	16,245	15,687	2,733	12,954
1979:															
Jan.	86,295	25,428	892	3,934	20,602	60,867	4,919	19,619	4,985	14,634	4,771	16,058	15,500	2,730	12,770
Feb.	86,487	25,404	897	3,894	20,613	61,083	4,936	19,402	4,985	14,417	4,786	16,241	15,718	2,738	12,980
Mar.	87,346	25,788	906	4,159	20,723	61,558	4,965	19,548	5,015	15,533	4,810	16,436	15,799	2,740	13,059
Apr. <sup>p</sup>	87,957	26,013	915	4,354	20,744	61,944	4,902	19,817	5,037	14,780	4,839	16,578	15,808	2,750	13,058
May <sup>p</sup>	88,673	26,322	921	4,593	20,808	62,351	4,990	19,995	5,068	14,927	4,868	16,691	15,807	2,761	13,046

<sup>1</sup> Data include Alaska and Hawaii beginning 1960. This inclusion has resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1960 benchmark month.

<sup>p</sup> - preliminary.

# ESTABLISHMENT DATA EMPLOYMENT

## B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May <sup>P</sup> 1979 <sup>P</sup>
-	<b>TOTAL</b> .....	85,075	85,796	87,346	87,957	88,673	-	-	-	-	-
-	<b>PRIVATE SECTOR</b> .....	69,309	69,988	71,547	72,149	72,866	56,761	57,358	58,392	58,938	59,577
-	<b>MINING</b> .....	858	870	906	915	921	648	660	681	687	689
10	<b>METAL MINING</b> .....	96.1	96.2	99.0	99.5	-	74.5	74.2	75.8	76.1	-
101	Iron ores .....	24.0	24.7	24.8	24.8	-	19.6	20.0	19.9	19.8	-
102	Copper ores .....	35.5	35.3	36.1	36.3	-	27.2	26.9	27.7	27.9	-
11, 12	<b>COAL MINING</b> .....	238.9	241.9	246.6	249.6	-	197.3	200.9	205.5	208.6	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	235.7	238.8	243.6	246.6	-	194.5	198.2	202.8	205.9	-
13	<b>OIL AND GAS EXTRACTION</b> .....	403.1	408.9	439.5	439.4	-	281.6	286.5	303.8	301.7	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	173.6	174.2	185.7	186.3	-	86.8	87.1	90.1	89.1	-
138	Oil and gas field services .....	229.5	234.7	253.8	253.1	-	194.8	199.4	213.7	212.6	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	119.6	123.1	121.3	126.0	-	94.9	98.1	96.2	100.5	-
142	Crushed and broken stone .....	41.4	43.2	42.5	44.5	-	34.5	36.3	35.3	37.3	-
144	Sand and gravel .....	35.5	37.0	35.0	37.4	-	-	-	-	-	-
147	Chemical and fertilizer minerals .....	23.3	23.2	23.8	23.7	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	4,014	4,183	4,159	4,354	4,593	3,150	3,310	3,266	3,451	3,677
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,147.6	1,178.6	1,161.8	1,211.7	-	880.9	910.2	883.9	929.6	-
152	Residential building construction .....	605.3	624.6	617.1	644.6	-	454.1	471.6	460.8	483.8	-
153	Operative builders .....	80.6	81.6	78.8	81.0	-	53.4	54.8	50.6	52.5	-
154	Nonresidential building construction .....	461.7	472.4	465.9	486.1	-	373.4	383.8	372.5	393.3	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	827.9	887.3	804.9	881.1	-	657.9	717.0	648.8	723.9	-
161	Highway and street construction .....	247.7	285.2	232.5	277.4	-	209.2	246.3	190.5	234.1	-
162	Heavy construction, except highway .....	580.2	602.1	572.4	603.7	-	448.7	470.7	458.3	489.8	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	2,038.5	2,117.0	2,191.8	2,261.6	-	1,611.6	1,682.9	1,733.2	1,797.5	-
171	Plumbing, heating, air conditioning .....	497.0	506.9	511.6	519.8	-	376.5	384.8	386.3	391.6	-
172	Painting, paper hanging, decorating .....	129.7	138.1	130.9	141.4	-	107.2	115.0	106.5	117.2	-
173	Electrical work .....	340.0	355.4	377.1	380.6	-	260.6	275.3	293.1	296.2	-
174	Masonry, stonework, and plastering .....	338.9	345.5	384.0	392.1	-	292.0	297.9	331.7	340.0	-
175	Carpentering and flooring .....	119.7	126.4	136.9	135.3	-	92.2	98.2	106.9	104.5	-
176	Roofing and sheet metal work .....	151.9	155.5	162.0	169.7	-	123.9	127.4	130.6	137.6	-
-	<b>MANUFACTURING</b> .....	20,101	20,209	20,723	20,744	20,808	14,444	14,534	14,872	14,887	14,952
24, 25, 32-39	<b>DURABLE GOODS</b> .....	12,007	12,083	12,565	12,600	12,637	8,621	8,684	9,011	9,042	9,075
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	8,094	8,126	8,158	8,144	8,171	5,823	5,850	5,861	5,845	5,877
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	739.8	749.1	743.7	748.3	755.7	634.3	643.1	633.6	638.2	645.4
241	Logging camps and logging contractors .....	82.2	84.5	86.9	85.6	-	66.2	68.4	70.7	69.4	-
242	Sawmills and planing mills .....	235.8	238.1	235.7	236.7	-	210.9	213.0	210.6	211.4	-
2421	Sawmills and planing mills, general .....	195.9	198.3	194.6	196.2	-	175.6	177.9	174.6	176.0	-
2426	Hardwood dimension and flooring .....	33.3	33.4	33.9	33.3	-	29.5	29.5	29.6	29.0	-
243	Millwork, plywood, and structural members .....	211.2	213.8	213.3	214.3	-	179.0	181.6	179.1	180.7	-
2431	Millwork .....	76.8	77.7	76.0	75.8	-	63.4	64.4	62.2	62.1	-
2434	Wood kitchen cabinets .....	46.5	47.4	49.1	49.4	-	38.9	39.7	41.3	41.6	-
2435	Hardwood veneer and plywood .....	26.5	26.2	26.2	26.4	-	23.7	23.4	23.4	23.6	-
2436	Softwood veneer and plywood .....	47.2	47.5	47.1	47.3	-	41.7	42.0	40.7	41.1	-
244	Wooden containers .....	43.1	42.5	43.8	44.5	-	38.2	37.6	38.8	39.6	-
245	Wood buildings and mobile homes .....	84.0	86.1	76.4	79.0	-	70.0	71.9	60.4	62.9	-
2451	Mobile homes .....	57.9	58.4	53.1	54.8	-	50.2	50.7	44.0	45.5	-
249	Miscellaneous wood products .....	83.5	84.1	87.6	88.2	-	70.0	70.6	74.0	74.2	-
25	<b>FURNITURE AND FIXTURES</b> .....	486.2	485.4	487.0	482.4	480.9	400.6	399.5	399.0	394.5	391.5
251	Household furniture .....	331.2	329.7	326.8	323.5	-	282.3	281.0	277.4	274.2	-
2511	Wood household furniture .....	147.7	147.4	144.8	143.7	-	130.6	130.4	128.0	127.1	-
2512	Upholstered household furniture .....	102.5	102.6	102.6	102.3	-	85.3	85.4	85.0	84.6	-
2514	Metal household furniture .....	32.4	31.2	32.2	30.5	-	26.5	25.4	26.1	24.5	-
2515	Mattresses and bedsprings .....	32.5	32.2	32.1	32.2	-	25.3	25.2	24.8	24.8	-
252	Office furniture .....	43.7	44.1	45.0	44.4	-	35.5	35.8	35.9	35.4	-
253	Public building and related furniture .....	24.0	24.2	25.3	24.9	-	18.2	18.3	19.4	19.0	-
254	Partitions and fixtures .....	60.8	60.7	63.7	63.6	-	46.2	45.9	48.2	48.0	-
259	Miscellaneous furniture and fixtures .....	26.5	26.7	26.2	26.0	-	18.4	18.5	18.1	17.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
<b>32</b>	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	689.9	701.6	692.9	702.9	712.7	549.8	559.5	546.6	555.6	563.8
321	Flat glass	21.7	21.8	20.7	20.7	—	17.4	17.4	16.3	16.3	—
322	Glass and glassware, pressed or blown	138.1	138.4	135.5	134.4	—	119.1	119.5	115.9	115.3	—
3221	Glass containers	78.4	78.8	75.9	76.2	—	69.6	70.0	66.7	67.0	—
3229	Pressed and blown glass, nec	59.7	59.6	59.6	58.2	—	49.5	49.5	49.2	48.3	—
323	Products of purchased glass	45.5	46.5	48.9	48.5	—	33.5	34.2	36.1	35.8	—
324	Cement, hydraulic	31.3	31.8	32.1	32.6	—	24.7	25.2	25.8	26.2	—
325	Structural clay products	51.7	51.8	51.3	51.8	—	40.9	40.9	40.0	40.5	—
326	Pottery and related products	46.8	47.3	46.9	47.6	—	39.4	39.8	39.6	40.1	—
327	Concrete, gypsum, and plaster products	203.4	211.3	200.0	208.3	—	159.0	165.8	154.7	162.0	—
3271	Concrete block and brick	23.6	24.2	23.4	24.7	—	16.6	16.9	16.6	17.6	—
3272	Concrete products, nec	70.4	72.0	69.1	70.3	—	55.3	56.6	52.8	53.8	—
3273	Ready-mixed concrete	88.4	94.0	86.6	92.1	—	70.2	75.3	68.2	73.2	—
329	Misc. nonmetallic mineral products	139.1	140.1	145.4	146.2	—	105.8	106.5	108.4	109.0	—
3291	Abrasive products	27.4	27.9	29.9	29.9	—	18.9	19.2	20.3	20.4	—
3292	Asbestos products	21.7	21.9	22.4	22.6	—	16.7	16.9	17.3	17.5	—
3296	Mineral wool	31.4	31.5	31.0	30.9	—	—	—	—	—	—
<b>33</b>	<b>PRIMARY METAL INDUSTRIES</b>	1,190.3	1,200.6	1,243.5	1,252.5	1,246.9	934.1	943.8	982.7	992.7	985.8
331	Blast furnace and basic steel products	546.1	553.3	562.5	567.1	—	428.9	435.8	446.5	451.4	—
3312	Blast furnaces and steel mills	462.1	469.4	476.2	480.1	—	364.7	371.5	379.5	383.3	—
3317	Steel pipe and tubes	29.6	29.6	31.5	31.4	—	22.9	23.0	24.9	25.0	—
332	Iron and steel foundries	235.6	236.1	248.4	248.9	—	193.2	193.6	203.8	205.1	—
3321	Gray iron foundries	150.2	151.0	155.0	154.9	—	125.4	126.1	129.5	130.1	—
3322	Malleable iron foundries	22.4	22.5	23.6	23.7	—	18.1	18.3	19.1	19.4	—
3325	Steel foundries, nec	54.5	54.0	57.6	58.0	—	43.8	43.2	46.2	46.5	—
333	Primary nonferrous metals	66.4	66.7	68.7	68.8	—	52.1	52.1	53.2	53.7	—
3334	Primary aluminum	33.4	33.6	34.6	34.8	—	27.3	27.4	27.9	28.5	—
335	Nonferrous rolling and drawing	203.3	206.6	214.0	215.9	—	148.2	151.4	157.8	159.5	—
3351	Copper rolling and drawing	32.1	33.6	33.7	34.4	—	25.0	26.2	26.8	27.4	—
3353	Aluminum sheet, plate, and foil	35.8	36.4	38.3	38.4	—	26.4	27.1	29.4	29.4	—
3357	Nonferrous wire drawing and insulating	81.3	81.9	85.8	86.3	—	60.3	61.0	63.7	64.0	—
336	Nonferrous foundries	93.6	92.7	101.0	102.5	—	77.6	76.7	84.0	85.2	—
3361	Aluminum foundries	52.0	51.3	55.8	56.3	—	43.9	43.2	47.1	47.5	—
<b>34</b>	<b>FABRICATED METAL PRODUCTS</b>	1,634.3	1,645.7	1,696.6	1,699.3	1,702.9	1,242.2	1,252.1	1,285.0	1,287.7	1,291.1
341	Metal cans and shipping containers	78.8	79.3	77.7	79.5	—	66.4	66.8	66.2	67.9	—
3411	Metal cans	65.3	65.3	63.6	64.8	—	55.5	55.5	54.6	55.7	—
342	Cutlery, hand tools, and hardware	186.6	186.5	190.3	191.6	—	146.2	146.0	148.5	149.7	—
3423,5	Hand and edge tools, and hand saws and blades	63.4	63.5	64.1	65.6	—	50.1	50.2	50.5	52.0	—
3429	Hardware, nec	107.3	107.1	110.1	109.9	—	84.2	84.0	86.3	86.0	—
343	Plumbing and fitting, except electric	70.8	70.3	69.9	69.1	—	52.5	52.1	51.5	50.5	—
3432	Plumbing fittings and brass goods	26.5	26.4	25.9	25.2	—	21.8	21.7	20.9	20.2	—
3433	Heating equipment, except electric	33.5	33.2	32.5	32.4	—	23.4	23.2	22.2	22.1	—
344	Fabricated structural metal products	489.3	494.8	507.3	507.1	—	345.8	351.2	356.9	356.9	—
3441	Fabricated structural metal	98.9	99.8	105.3	105.0	—	70.6	71.4	76.1	76.0	—
3442	Metal doors, sash, and trim	81.7	83.6	80.6	81.6	—	61.7	63.8	59.5	60.3	—
3443	Fabricated plate work (boiler shops)	144.7	145.3	149.9	149.8	—	95.0	95.4	97.7	97.5	—
3444	Sheet metal work	99.2	99.5	103.3	102.7	—	73.3	73.9	75.9	75.6	—
3446	Architectural metal work	31.9	32.2	33.8	33.1	—	22.7	22.9	24.4	24.0	—
345	Screw machine products, bolts, etc.	105.5	106.0	117.0	117.4	—	83.4	83.5	92.4	92.5	—
3451	Screw machine products	51.0	51.0	56.7	56.6	—	42.6	42.2	47.1	46.9	—
3452	Bolts, nuts, rivets, and washers	54.5	55.0	60.3	60.8	—	40.8	41.3	45.3	45.6	—
346	Metal forgings and stampings	297.4	300.1	302.9	302.5	—	241.5	243.6	243.8	244.0	—
3462	Iron and steel forgings	51.5	51.2	57.0	58.3	—	41.4	41.1	45.6	46.9	—
3465	Automotive stampings	114.2	115.9	112.9	111.1	—	96.8	98.1	95.0	93.6	—
3469	Metal stampings, nec	120.6	121.8	121.4	121.4	—	94.7	95.7	94.3	94.3	—
347	Metal services, nec	96.1	96.6	99.7	100.1	—	79.4	79.8	81.6	82.0	—
3471	Plating and polishing	68.3	69.0	70.8	71.3	—	57.2	57.7	58.5	59.1	—
3479	Metal coating and allied services	27.8	27.6	28.9	28.8	—	22.2	22.1	23.1	22.9	—
348	Ordinance and accessories, nec	58.1	58.5	59.7	59.5	—	40.5	40.6	41.4	41.2	—
3483	Ammunition, exc. for small arms, nec	24.5	24.4	24.6	24.5	—	17.3	17.1	17.0	17.0	—
349	Misc. fabricated metal products	251.7	253.6	272.1	272.5	—	186.5	188.5	202.7	203.0	—
3494	Valves and pipe fittings	99.2	99.2	105.5	106.2	—	68.1	68.1	72.8	73.5	—
3496	Misc. fabricated wire products	50.1	51.0	55.6	55.4	—	38.6	39.4	43.3	43.1	—
<b>35</b>	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2,309.0	2,303.9	2,486.4	2,496.0	2,494.3	1,520.1	1,511.5	1,644.5	1,651.5	1,646.9
351	Engines and turbines	130.5	129.9	137.1	136.9	—	83.9	83.1	89.1	89.4	—
3511	Turbines and turbine generator sets	44.2	44.3	44.2	43.3	—	23.3	23.3	22.9	22.9	—
3519	Internal combustion engines, nec	86.3	85.6	92.9	93.6	—	60.6	59.8	66.2	66.5	—
352	Farm and garden machinery	165.3	153.1	177.8	178.5	—	114.0	103.3	127.3	127.7	—
3523	Farm machinery and equipment	146.8	135.4	158.7	160.1	—	100.8	90.8	113.4	114.4	—
353	Construction and related machinery	375.8	380.1	414.4	416.5	—	251.2	254.1	278.2	279.8	—
3531	Construction machinery	168.4	169.8	182.1	183.6	—	115.5	116.4	125.5	126.8	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3532	Mining machinery.....	33.1	33.9	37.6	37.5	—	20.9	21.5	24.2	23.9	—
3533	Oil field machinery.....	73.1	74.1	82.2	82.2	—	50.6	51.4	57.2	57.4	—
3535	Conveyers and conveying equipment.....	30.6	31.1	34.9	34.9	—	18.2	18.4	20.9	20.6	—
3537	Industrial trucks and tractors.....	37.7	38.1	42.0	42.2	—	26.3	26.5	29.0	29.3	—
354	Metalworking machinery.....	341.8	342.1	360.8	361.9	—	249.6	249.8	263.9	264.5	—
3541	Machine tools, metal cutting types.....	68.5	68.8	75.3	75.7	—	44.4	44.6	49.1	49.4	—
3542	Machine tools, metal forming types.....	23.9	23.9	25.4	25.5	—	15.9	15.8	16.8	16.8	—
3544	Special dies, tools, jigs, and fixtures.....	128.8	128.4	134.8	135.0	—	103.1	102.6	108.5	108.4	—
3545	Machine tool accessories.....	62.8	63.3	66.7	67.5	—	44.7	45.1	47.1	47.9	—
3546	Power driven hand tools.....	34.3	34.1	33.6	33.4	—	25.5	25.5	25.3	25.2	—
355	Special industry machinery.....	198.1	198.4	208.4	207.5	—	125.0	125.0	130.7	131.0	—
3551	Food products machinery.....	45.4	45.4	47.4	47.6	—	28.4	28.4	29.7	29.8	—
3552	Textile machinery.....	31.1	31.2	31.3	31.0	—	22.0	22.1	22.0	21.8	—
3555	Printing trades machinery.....	35.1	35.5	39.0	39.4	—	20.6	20.8	23.3	23.5	—
356	General industrial machinery.....	308.1	308.5	325.7	326.0	—	207.2	206.9	218.1	218.2	—
3561	Pumps and pumping equipment.....	61.7	61.6	63.1	63.0	—	38.7	38.5	38.8	38.9	—
3562	Ball and roller bearings.....	58.1	57.2	62.1	62.4	—	44.9	43.9	48.4	48.6	—
3563	Air and gas compressors.....	28.9	29.2	29.5	29.4	—	17.0	17.0	17.2	17.2	—
3564	Blowers and fans.....	36.7	36.9	39.5	39.5	—	23.7	23.9	24.9	24.6	—
3566	Speed changers, drives, and gears.....	25.4	25.5	27.4	27.6	—	17.5	17.6	18.8	19.0	—
3568	Power transmission equipment, nec.....	22.4	22.5	23.2	23.3	—	16.2	16.3	17.2	17.3	—
357	Office and computing machines.....	344.1	345.9	379.9	383.0	—	157.6	158.0	175.0	175.8	—
3573	Electronic computing equipment.....	268.4	269.9	300.1	302.9	—	111.8	112.3	128.7	129.7	—
358	Refrigeration and service machinery.....	184.2	185.7	194.9	196.0	—	130.0	131.3	138.9	139.9	—
3585	Refrigeration and heating equipment.....	128.9	129.7	137.1	137.9	—	91.8	92.2	98.8	99.6	—
359	Misc. machinery, except electrical.....	261.1	260.2	287.4	289.7	—	201.6	200.0	223.3	225.2	—
3592	Carburetors, pistons, rings, valves.....	37.7	38.0	43.2	43.8	—	29.8	30.0	34.5	35.1	—
3599	Machinery, except electrical, nec.....	223.4	222.2	224.2	245.9	—	171.8	170.0	188.8	190.1	—
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT.....</b>	<b>1,935.5</b>	<b>1,942.5</b>	<b>2,042.9</b>	<b>2,048.5</b>	<b>2,055.3</b>	<b>1,269.8</b>	<b>1,274.3</b>	<b>1,343.3</b>	<b>1,348.4</b>	<b>1,357.0</b>
361	Electric distributing equipment.....	121.2	121.0	122.3	122.6	—	86.5	86.8	87.7	88.2	—
3612	Transformers.....	56.4	56.4	57.7	58.0	—	39.8	40.2	41.5	41.9	—
3613	Switchgear and switchboard apparatus.....	64.8	64.6	64.6	64.6	—	46.7	46.6	46.2	46.3	—
362	Electrical industrial apparatus.....	239.6	240.4	252.2	253.3	—	173.1	172.9	182.7	183.9	—
3621	Motors and generators.....	130.5	130.5	133.8	134.5	—	98.9	98.3	102.3	103.3	—
3622	Industrial controls.....	64.9	65.8	71.5	71.8	—	42.4	42.9	46.4	46.5	—
363	Household appliances.....	187.8	187.6	176.0	176.7	—	148.4	148.3	138.3	139.5	—
3632	Household refrigerators and freezers.....	51.5	51.8	43.6	43.7	—	41.4	41.7	34.8	35.1	—
3633	Household laundry equipment.....	23.3	23.2	22.2	22.4	—	18.4	18.3	17.4	17.6	—
3634	Electric housewares and fans.....	49.6	49.2	47.9	48.3	—	39.3	38.8	37.5	38.1	—
364	Electric lighting and wiring equipment.....	209.2	210.3	224.3	225.4	—	157.9	158.7	171.0	172.2	—
3641	Electric lamps.....	37.8	37.9	39.0	39.2	—	33.1	33.2	34.6	34.7	—
3643	Current-carrying wiring devices.....	86.3	87.5	94.2	95.3	—	60.9	61.7	66.5	67.8	—
3644	Noncurrent-carrying wiring devices.....	20.7	20.6	23.9	24.0	—	14.2	14.3	17.7	17.7	—
3645	Residential lighting fixtures.....	24.6	24.6	26.3	26.2	—	19.0	19.0	20.6	20.5	—
365	Radio and TV receiving equipment.....	119.0	119.4	116.5	113.8	—	87.1	87.6	86.3	83.7	—
3651	Radio and TV receiving sets.....	95.5	95.4	94.2	93.5	—	69.1	69.1	68.7	67.9	—
366	Communication equipment.....	482.1	482.5	516.1	518.0	—	234.2	233.8	257.4	258.9	—
3661	Telephone and telegraph apparatus.....	151.6	150.3	155.4	156.8	—	103.5	102.6	108.7	110.2	—
3662	Radio and TV communication equipment.....	330.5	332.2	360.7	361.2	—	130.7	131.2	148.7	148.7	—
367	Electronic components and accessories.....	420.4	424.2	474.1	478.3	—	263.0	265.8	298.3	301.2	—
3671-3	Electronic tubes.....	42.1	42.3	44.2	44.6	—	27.7	28.0	28.7	28.8	—
3674	Semiconductors and related devices.....	154.5	156.8	181.7	183.5	—	71.6	73.2	86.3	87.3	—
3679	Electronic components, nec.....	164.9	165.5	183.3	184.4	—	116.4	116.5	131.0	132.0	—
369	Misc. electrical equipment and supplies.....	156.2	157.1	161.4	160.4	—	119.6	120.4	121.6	120.8	—
3691	Storage batteries.....	27.8	28.1	29.7	29.6	—	22.3	22.4	23.6	23.6	—
3694	Engine electrical equipment.....	77.7	78.2	79.8	78.7	—	61.7	62.4	62.7	61.7	—
37	<b>TRANSPORTATION EQUIPMENT.....</b>	<b>1,932.0</b>	<b>1,953.5</b>	<b>2,038.3</b>	<b>2,032.9</b>	<b>2,051.1</b>	<b>1,335.8</b>	<b>1,355.9</b>	<b>1,414.3</b>	<b>1,409.4</b>	<b>1,422.2</b>
371	Motor vehicles and equipment.....	971.8	978.1	1,002.6	996.9	—	757.9	764.3	786.0	781.9	—
3711	Motor vehicles and car bodies.....	457.0	459.8	454.8	455.6	—	342.3	344.9	340.3	341.9	—
3713	Truck and bus bodies.....	50.4	49.2	55.0	54.3	—	40.1	39.2	44.3	44.0	—
3714	Motor vehicle parts and accessories.....	434.6	438.4	459.8	453.6	—	352.0	355.9	375.2	369.4	—
3715	Truck trailers.....	29.8	30.7	33.0	33.4	—	23.5	24.3	26.2	26.6	—
372	Aircraft and parts.....	504.6	519.5	592.4	598.0	—	256.0	269.6	320.6	324.6	—
3721	Aircraft.....	285.5	298.7	344.8	347.9	—	126.1	138.2	170.6	172.7	—
3724	Aircraft engines and engine parts.....	127.9	129.0	142.7	144.1	—	72.4	73.2	82.1	83.2	—
3728	Aircraft equipment, nec.....	91.2	91.8	104.9	106.0	—	57.5	58.2	67.9	68.7	—
373	Ship and boat building and repairing.....	223.3	220.9	207.5	205.8	—	179.4	177.6	165.4	163.9	—
3731	Ship building and repairing.....	174.2	171.1	157.2	155.2	—	138.8	136.5	123.9	121.9	—
3732	Boat building and repairing.....	49.1	49.8	50.3	50.6	—	40.6	41.1	41.5	42.0	—
374	Railroad equipment.....	56.2	56.7	62.5	62.9	—	42.2	42.4	48.3	48.4	—
378	Guided missiles, space vehicles, parts.....	82.0	81.7	86.2	86.5	—	26.3	25.8	27.7	28.1	—
3781	Guided missiles and space vehicles.....	62.6	62.2	65.3	65.2	—	17.8	17.4	18.9	19.1	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

(In thousands)		All employees					Production workers <sup>1</sup>				
1972 SIC Code	Industry	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
379	Miscellaneous transportation equipment	75.5	77.7	70.4	65.8	—	59.0	60.7	53.2	49.1	—
3792	Travel trailers and campers	50.4	52.4	45.4	40.9	—	41.0	42.5	36.1	31.8	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	641.8	646.7	686.2	689.9	688.9	391.9	395.8	422.2	423.9	425.7
381	Engineering and scientific instruments	67.7	67.5	72.8	73.4	—	32.7	32.5	37.2	36.9	—
382	Measuring and controlling devices	212.6	214.1	227.2	228.9	—	134.9	136.7	146.1	147.5	—
3822	Environmental controls	50.4	50.4	48.7	48.7	—	35.3	35.2	33.8	34.1	—
3823	Process control instruments	46.4	46.9	50.7	51.4	—	24.1	24.5	27.6	27.8	—
3825	Instruments to measure electricity	80.0	81.0	89.7	90.5	—	50.2	51.6	57.6	58.1	—
383	Optical instruments and lenses	27.0	27.2	30.1	30.3	—	15.3	15.1	16.6	16.8	—
384	Medical instruments and supplies	136.9	138.9	151.4	151.5	—	91.9	92.8	101.5	101.2	—
3841	Surgical and medical instruments	54.5	55.6	62.7	63.2	—	36.3	36.9	41.9	42.0	—
3842	Surgical appliances and supplies	64.7	65.2	69.7	69.5	—	43.7	44.0	46.9	46.7	—
385	Ophthalmic goods	40.7	41.0	41.4	41.7	—	29.9	30.3	30.5	30.7	—
386	Photographic equipment and supplies	128.2	129.1	134.9	135.8	—	65.0	66.0	68.4	68.9	—
387	Watches, clocks, and watchcases	28.7	28.9	28.4	28.3	—	22.2	22.4	21.9	21.9	—
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	448.5	454.4	447.9	447.5	448.2	342.5	348.1	340.1	339.7	341.0
391	Jewelry, silverware, and plated ware	61.8	62.0	58.5	58.1	—	45.4	46.0	42.6	42.3	—
3911	Jewelry, precious metal	39.7	39.9	36.4	36.1	—	28.5	29.0	25.8	25.5	—
393	Musical instruments	24.9	25.3	25.3	25.2	—	20.4	20.9	20.7	20.7	—
394	Toys and sporting goods	115.9	118.3	109.6	110.6	—	89.1	91.3	83.4	84.0	—
3942, 4	Dolls, games, toys, and children's vehicles	52.2	54.1	50.2	51.0	—	38.5	40.2	36.4	36.9	—
3949	Sporting and athletic goods, nec	63.7	64.2	59.4	59.6	—	50.6	51.1	47.0	47.1	—
396	Pens, pencils, office and art supplies	34.5	34.6	36.2	36.4	—	24.9	24.9	26.2	26.2	—
396	Costume jewelry and notions	66.8	68.3	69.5	69.2	—	53.7	55.1	56.1	55.6	—
3961	Costume jewelry	36.7	38.2	38.6	38.3	—	29.8	31.2	31.4	31.0	—
399	Miscellaneous manufactures	144.6	145.9	148.8	148.0	—	109.0	109.9	111.1	110.9	—
3993	Signs and advertising displays	51.8	51.8	54.1	54.5	—	37.2	37.4	39.0	39.5	—
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b>	1,639.5	1,644.6	1,642.5	1,633.4	1,645.2	1,095.5	1,099.3	1,106.9	1,097.9	1,107.5
201	Meat products	348.4	354.4	356.3	355.8	—	286.8	292.6	294.7	294.1	—
2011	Meat packing plants	169.8	172.2	168.6	167.3	—	136.5	139.1	136.4	134.9	—
2013	Sausages and other prepared meats	66.8	67.9	67.2	66.2	—	48.9	49.8	49.2	48.3	—
2016	Poultry dressing plants	97.3	100.0	105.4	107.6	—	88.4	91.0	96.2	98.2	—
202	Dairy products	190.0	191.4	186.8	189.0	—	99.6	100.6	97.5	98.8	—
2022	Cheese, natural and processed	31.3	31.6	31.3	31.3	—	24.2	24.5	24.5	24.6	—
2026	Fluid milk	122.0	122.4	120.4	121.2	—	53.1	53.4	51.5	51.8	—
203	Preserved fruits and vegetables	193.8	194.3	192.1	187.6	—	151.4	151.6	152.3	149.2	—
2032	Canned specialties	28.2	27.4	27.9	27.7	—	19.3	18.9	19.3	19.3	—
2033	Canned fruits and vegetables	63.8	65.6	59.6	57.4	—	48.7	49.8	46.2	44.6	—
2037	Frozen fruits and vegetables	36.7	36.3	38.1	36.8	—	31.4	31.0	33.1	32.0	—
204	Grain mill products	143.5	142.1	144.3	142.6	—	96.8	95.4	98.8	97.0	—
2041	Flour and other grain mill products	24.5	24.2	24.9	25.1	—	15.7	15.4	15.6	15.7	—
2048	Prepared feeds, nec	61.1	61.7	61.7	60.9	—	38.1	38.7	39.7	38.8	—
205	Bakery products	227.1	226.7	227.2	227.7	—	132.1	132.1	132.5	133.0	—
2051	Bread, cake, and related products	187.0	187.9	186.8	187.2	—	100.4	101.1	100.4	100.9	—
2052	Cookies and crackers	40.1	38.8	40.4	40.5	—	31.7	31.0	32.1	32.1	—
206	Sugar and confectionery products	101.8	99.9	104.1	99.4	—	76.8	75.0	78.5	74.5	—
2061-3	Cane and beet sugar	29.7	28.4	29.9	28.1	—	21.3	20.2	21.0	19.5	—
2065	Confectionery products	53.5	52.6	55.1	52.2	—	42.3	41.3	44.1	41.5	—
207	Fats and oils	41.7	41.3	39.7	39.1	—	29.9	29.6	28.8	28.1	—
206	Beverages	229.9	229.8	225.0	225.7	—	107.3	106.2	104.7	104.7	—
2062	Malt beverages	49.8	49.8	48.3	48.7	—	33.3	33.1	33.3	33.8	—
2086	Bottled and canned soft drinks	136.0	137.9	136.9	137.7	—	48.9	49.8	48.0	48.0	—
209	Misc. foods and kindred products	163.3	164.7	167.0	166.5	—	114.8	116.2	119.1	118.5	—
21	<b>TOBACCO MANUFACTURES</b>	67.3	66.6	68.1	66.4	66.0	52.7	51.8	53.8	52.2	52.3
211	Cigarettes	48.5	48.3	48.9	49.0	—	37.6	37.3	38.0	38.1	—
22	<b>TEXTILE MILL PRODUCTS</b>	909.6	912.1	905.3	900.7	904.6	792.7	794.6	787.3	783.4	788.1
221	Weaving mills, cotton	155.6	153.6	155.3	154.9	—	140.3	138.0	140.0	139.7	—
222	Weaving mills, synthetics	121.9	120.9	120.7	119.7	—	108.8	107.9	108.0	107.2	—
223	Weaving and finishing mills, wool	20.9	20.9	21.4	21.2	—	17.5	17.5	17.8	17.7	—
224	Narrow fabric mills	26.6	26.7	26.2	25.6	—	23.2	23.3	23.0	22.5	—
225	Knitting mills	239.1	242.9	235.1	235.4	—	207.1	210.9	202.4	203.0	—
2251	Women's hosiery, except socks	28.1	29.0	31.2	30.9	—	25.0	25.9	27.9	27.6	—
2252	Hosiery, nec	35.5	35.5	35.2	35.0	—	32.3	32.3	32.1	31.9	—
2253	Knit outerwear mills	75.9	76.9	69.7	70.2	—	64.8	65.8	59.3	59.9	—
2254	Knit underwear mills	37.4	38.0	38.1	38.2	—	32.5	33.0	32.7	32.7	—

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]		All employees					Production workers <sup>1</sup>				
1972 SIC Code	Industry	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
<b>TEXTILE MILL PRODUCTS—Continued</b>											
2257	Circular knit fabric mills	36.2	37.2	35.5	35.5	—	30.4	31.5	29.0	29.3	—
226	Textile finishing, except wool	79.8	81.2	79.2	78.6	—	67.7	68.9	66.8	66.1	—
2261	Finishing plants, cotton	33.6	33.5	33.4	32.9	—	28.2	28.1	28.0	27.5	—
2262	Finishing plants, synthetics	30.3	30.7	29.6	29.5	—	26.1	26.4	25.1	24.9	—
227	Floor covering mills	61.0	60.9	63.8	62.8	—	49.3	49.2	52.1	51.2	—
228	Yarn and thread mills	134.6	133.9	133.0	132.7	—	122.8	122.1	120.6	120.2	—
2281	Yarn mills, except wool	88.9	89.3	89.0	88.7	—	82.5	82.8	82.0	81.6	—
2282	Throwing and winding mills	22.3	21.3	21.2	21.2	—	19.9	18.9	18.9	18.9	—
229	Miscellaneous textile goods	70.1	71.1	70.6	69.8	—	56.0	56.6	55.8	55.8	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,325.7	1,328.2	1,304.7	1,301.7	1,299.8	1,139.8	1,142.6	1,115.9	1,112.7	1,114.3
231	Men's and boys' suits and coats	88.2	90.0	86.2	88.1	—	77.6	79.5	73.5	75.2	—
232	Men's and boys' furnishings	374.1	375.0	366.5	366.9	—	324.0	325.1	315.9	316.8	—
2321	Men's and boys' shirts and nightwear	103.0	104.6	102.7	103.0	—	89.6	91.3	89.5	89.6	—
2327	Men's and boys' separate trousers	87.8	87.6	84.3	84.0	—	76.6	76.4	73.4	73.2	—
2328	Men's and boys' work clothing	96.7	95.8	96.4	96.4	—	82.5	81.6	81.6	82.0	—
233	Women's and misses' outerwear	427.5	425.4	427.6	423.4	—	369.1	367.1	367.7	363.0	—
2331	Women's and misses' blouses and waists	57.7	57.3	60.0	59.5	—	50.6	50.3	52.6	52.0	—
2335	Women's and misses' dresses	162.7	159.6	159.7	160.1	—	143.1	140.0	140.2	140.2	—
2337	Women's and misses' suits and coats	63.0	64.6	64.1	63.3	—	54.0	55.3	55.0	54.2	—
2339	Women's and misses' outerwear, nec.	144.1	143.9	143.8	140.5	—	121.4	121.5	119.9	116.6	—
234	Women's and children's undergarments	95.1	94.5	90.5	91.6	—	81.6	81.0	76.9	78.2	—
2341	Women's and children's underwear	74.8	74.5	72.1	72.7	—	65.2	64.9	62.2	63.1	—
2342	Brassieres and allied garments	20.3	20.0	18.4	18.9	—	16.4	16.1	14.7	15.1	—
236	Children's outerwear	68.7	70.1	66.8	65.7	—	58.5	59.8	57.6	56.3	—
2361	Children's dresses and blouses	25.9	25.7	24.5	24.4	—	23.3	23.2	21.9	21.8	—
238	Misc. apparel and accessories	62.7	63.1	59.0	58.7	—	54.1	54.6	50.7	50.5	—
239	Misc. fabricated textile products	189.4	189.9	188.3	187.6	—	157.6	158.0	156.7	155.9	—
2391	Curtains and draperies	29.5	30.2	28.9	28.8	—	25.7	26.3	25.1	25.0	—
2392	House furnishings, nec.	51.7	50.5	50.1	49.9	—	43.1	41.9	41.6	41.4	—
2396	Automotive and apparel trimmings	35.6	35.8	37.1	37.9	—	29.8	29.8	30.9	31.7	—
26	<b>PAPER AND ALLIED PRODUCTS</b>	700.0	705.8	710.2	712.5	712.5	524.7	531.0	536.0	539.2	539.2
261, 2,6	Paper and pulp mills	205.1	206.7	205.2	206.4	—	155.2	157.5	153.8	155.1	—
262	Paper mills, except building paper	177.3	178.8	178.6	179.7	—	133.3	135.4	132.7	133.9	—
263	Paperboard mills	66.7	67.1	68.7	68.4	—	52.5	52.8	54.7	54.7	—
264	Misc. converted paper products	214.3	216.9	218.0	218.8	—	151.7	154.5	158.4	159.7	—
2641	Paper coating and glazing	55.8	56.8	58.3	58.7	—	28.1	29.4	35.1	35.8	—
2642	Envelopes	24.5	24.5	24.6	24.5	—	19.3	19.3	19.3	19.3	—
2643	Bags, except textile bags	49.0	48.7	51.1	51.2	—	38.8	38.6	39.9	40.0	—
265	Paperboard containers and boxes	213.9	215.1	218.3	218.9	—	165.3	166.2	169.1	169.7	—
2651	Folding paperboard boxes	41.6	41.6	43.0	43.0	—	33.0	32.9	34.3	34.3	—
2653	Corrugated and solid fiber boxes	107.4	107.7	109.4	109.4	—	79.6	79.8	81.2	81.1	—
2654	Sanitary food containers	33.3	33.4	33.7	33.8	—	27.6	27.5	28.1	28.1	—
27	<b>PRINTING AND PUBLISHING</b>	1,171.4	1,177.3	1,215.3	1,216.7	1,218.5	664.3	666.3	686.7	688.3	690.9
271	Newspapers	403.0	404.4	414.8	414.7	—	166.0	166.4	166.7	167.0	—
272	Periodicals	77.0	76.9	80.6	79.8	—	15.7	15.1	13.9	13.6	—
273	Books	104.9	104.0	105.9	106.7	—	55.2	54.6	56.3	57.7	—
2731	Book publishing	72.9	72.3	74.2	74.7	—	28.0	27.6	29.4	30.4	—
2732	Book printing	32.0	31.7	31.7	32.0	—	27.2	27.0	26.9	27.3	—
274	Miscellaneous publishing	46.1	46.1	48.4	49.4	—	28.0	27.7	30.1	30.6	—
275	Commercial printing	374.1	379.7	393.5	394.0	—	276.6	280.0	291.4	291.7	—
2751	Commercial printing, letterpress	162.0	163.5	168.7	168.2	—	120.3	120.8	124.3	124.2	—
2752	Commercial printing, lithographic	189.2	193.3	203.2	204.0	—	137.3	140.2	149.2	149.5	—
276	Manifold business forms	44.0	44.1	47.0	47.2	—	31.5	31.6	33.9	33.9	—
278	Blankbooks and bookbinding	59.8	59.8	62.6	62.5	—	49.4	49.2	51.8	51.5	—
279	Printing trade services	39.6	39.4	40.2	39.8	—	28.9	28.5	29.2	28.9	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1,080.9	1,087.4	1,094.0	1,096.7	1,101.0	621.6	626.8	628.9	629.4	633.2
281	Industrial inorganic chemicals	162.5	163.1	167.9	168.4	—	93.4	93.2	92.8	93.0	—
2819	Industrial inorganic chemicals, nec.	107.5	107.9	110.8	111.1	—	59.3	59.6	61.1	61.3	—
282	Plastics materials and synthetics	211.7	214.3	213.7	214.4	—	142.7	145.1	145.8	147.0	—
2821	Plastics materials and resins	83.4	84.1	84.4	84.4	—	51.7	52.0	52.4	52.8	—
2824	Organic fibers, noncellulosic	93.6	95.3	95.0	95.5	—	66.0	67.8	68.6	69.0	—
283	Drugs	181.4	183.0	184.9	186.2	—	87.6	89.2	90.6	91.5	—
2834	Pharmaceutical preparations	144.6	145.7	147.5	148.6	—	67.2	68.2	69.1	69.7	—
284	Soap, cleaners, and toilet goods	132.5	133.4	134.6	133.6	—	80.8	81.5	81.6	80.3	—
2841	Soap and other detergents	40.3	40.2	40.5	39.9	—	25.9	25.8	26.3	25.5	—
2842, 3	Polishing, sanitation, and finishing preparations	37.4	37.3	38.8	38.7	—	20.8	20.7	21.4	21.5	—
2844	Toilet preparations	54.8	55.9	55.3	55.0	—	34.1	35.0	33.9	33.3	—
285	Paints and allied products	69.0	69.7	69.4	69.4	—	36.3	37.0	36.1	35.9	—
286	Industrial organic chemicals	163.7	163.8	162.8	162.8	—	84.4	84.6	84.8	83.4	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
2885	Cyclic crudes and intermediates . . . . .	35.3	35.2	36.0	36.0	-	21.7	21.7	23.0	22.9	-
2881,9	Gum, wood, and industrial organic chemicals, nec . . . . .	128.4	128.6	126.8	126.8	-	62.7	62.9	61.8	60.5	-
287	Agricultural chemicals . . . . .	73.6	73.2	72.4	73.5	-	47.2	46.8	47.1	48.2	-
289	Miscellaneous chemical products . . . . .	86.5	86.9	88.3	88.4	-	49.2	49.4	50.1	50.1	-
	<b>PETROLEUM AND COAL PRODUCTS</b> . . . . .	206.2	207.8	208.3	210.2	212.7	134.2	135.5	135.8	137.4	141.3
291	Petroleum refining . . . . .	161.6	162.2	162.8	163.5	-	101.5	101.7	102.9	103.1	-
295	Paving and roofing materials . . . . .	33.3	34.1	33.5	34.6	-	25.5	26.5	25.7	26.9	-
	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> . . . . .	739.5	741.0	770.1	767.5	767.1	579.3	581.6	606.0	601.9	602.6
301	Tires and inner tubes . . . . .	125.4	125.3	127.6	128.5	-	90.6	91.1	93.1	93.7	-
302	Rubber and plastics footwear . . . . .	23.2	21.6	23.1	22.5	-	20.2	18.9	20.2	19.6	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting . . . . .	23.3	23.2	22.5	21.7	-	17.5	17.4	17.0	16.2	-
306	Fabricated rubber products, nec . . . . .	113.4	113.4	115.2	115.2	-	88.7	88.9	91.2	91.0	-
307	Miscellaneous plastics products . . . . .	454.2	457.5	481.7	479.6	-	362.3	365.3	384.5	381.4	-
	<b>LEATHER AND LEATHER PRODUCTS</b> . . . . .	253.6	255.6	239.1	238.2	243.1	218.0	220.1	203.8	202.8	207.8
311	Leather tanning and finishing . . . . .	22.7	23.0	20.5	20.3	-	19.5	19.7	17.3	17.1	-
314	Footwear, except rubber . . . . .	157.4	159.3	147.4	146.6	-	137.5	139.5	127.0	126.3	-
3143	Men's footwear, except athletic . . . . .	65.0	65.0	58.9	58.8	-	57.6	57.6	51.5	51.3	-
3144	Women's footwear, except athletic . . . . .	61.1	62.5	59.4	58.5	-	52.5	54.3	50.7	50.1	-
316	Luggage . . . . .	17.1	17.3	17.4	17.4	-	13.1	13.4	13.8	13.7	-
317	Handbags and personal leather goods . . . . .	31.1	30.6	30.0	29.9	-	26.1	25.5	25.5	25.3	-
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> . . . . .	4,808	4,842	4,965	4,902	4,990	4,057	4,082	4,149	4,093	4,183
	<b>RAILROAD TRANSPORTATION</b> . . . . .	533.4	545.1	530.7	535.7	-	-	-	-	-	-
4011	Class I railroads <sup>2</sup> . . . . .	485.3	496.5	489.5	494.1	-	-	-	-	-	-
	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> . . . . .	266.0	265.5	270.6	268.2	-	245.0	244.7	249.3	247.2	-
411	Local and suburban transportation . . . . .	71.0	69.3	73.8	74.3	-	65.2	63.5	68.3	69.0	-
412	Taxicabs . . . . .	68.2	67.7	69.3	68.0	-	-	-	-	-	-
413	Intercity highway transportation . . . . .	36.5	37.5	35.6	36.6	-	33.3	34.4	32.6	33.5	-
415	School buses . . . . .	76.2	76.6	77.8	74.8	-	-	-	-	-	-
	<b>TRUCKING AND WAREHOUSING</b> . . . . .	1,244.4	1,256.2	1,286.0	1,239.9	-	1,101.4	1,112.7	1,138.5	1,090.9	-
421,3	Trucking and trucking terminals . . . . .	1,158.9	1,170.7	1,203.1	1,158.7	-	1,027.8	1,038.9	1,067.5	1,021.5	-
422	Public warehousing . . . . .	85.5	85.5	82.9	81.2	-	73.6	73.8	71.0	69.4	-
	<b>WATER TRANSPORTATION</b> . . . . .	206.5	209.8	204.5	206.7	-	-	-	-	-	-
	<b>TRANSPORTATION BY AIR</b> . . . . .	394.8	389.7	410.2	379.0	-	-	-	-	-	-
451,2	Air transportation . . . . .	351.7	346.5	363.1	331.2	-	-	-	-	-	-
	<b>PIPE LINES, EXCEPT NATURAL GAS</b> . . . . .	18.5	18.6	18.5	18.5	-	13.3	13.4	13.1	13.0	-
	<b>TRANSPORTATION SERVICES</b> . . . . .	164.7	165.6	177.3	176.9	-	-	-	-	-	-
	<b>COMMUNICATION</b> . . . . .	1,211.9	1,218.8	1,275.4	1,280.6	-	919.1	923.9	963.2	969.5	-
461	Telephone communication . . . . .	976.4	981.4	1,025.0	1,029.4	-	728.9	732.0	757.5	763.0	-
483	Radio and television broadcasting . . . . .	175.2	175.6	183.1	183.7	-	137.4	137.9	146.3	146.7	-
	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> . . . . .	767.4	772.2	791.7	796.8	-	627.7	631.7	644.3	648.5	-
491	Electric services . . . . .	351.9	355.3	368.4	371.1	-	284.1	286.9	296.8	299.3	-
492	Gas production and distribution . . . . .	158.5	159.2	161.0	161.5	-	129.7	130.2	131.2	131.5	-
493	Combination utility services . . . . .	190.1	190.0	190.8	191.1	-	156.2	156.0	154.7	154.7	-
496	Sanitary services . . . . .	42.6	43.3	46.0	46.6	-	37.6	38.3	40.6	41.2	-
	<b>WHOLESALE AND RETAIL TRADE</b> . . . . .	19,053	19,267	19,548	19,817	19,995	16,786	16,986	17,177	17,422	17,566
	<b>WHOLESALE TRADE</b> . . . . .	4,843	4,870	5,015	5,037	5,068	3,992	4,014	4,121	4,140	4,165
	<b>WHOLESALE TRADE - DURABLE GOODS</b> . . . . .	2,812	2,836	2,958	2,975	-	2,314	2,334	2,427	2,443	-
501	Motor vehicles and automotive equipment . . . . .	412.6	417.0	432.1	434.0	-	339.5	343.8	352.8	354.9	-
502	Furniture and home furnishing . . . . .	98.5	98.4	101.7	101.6	-	80.0	80.0	82.7	82.4	-
503	Lumber and construction materials . . . . .	170.7	173.3	175.6	176.9	-	142.2	145.1	145.6	146.9	-
504	Sporting goods, toys, and hobby goods . . . . .	63.8	63.7	61.0	59.8	-	53.3	53.1	50.3	49.0	-
505	Metals and minerals, except petroleum . . . . .	135.6	136.6	145.3	146.9	-	109.8	110.8	118.0	119.6	-
506	Electrical goods . . . . .	387.1	390.0	412.0	415.2	-	319.3	321.1	339.4	341.5	-
507	Hardware, plumbing, and heating equipment . . . . .	228.1	229.8	237.7	238.1	-	188.6	190.2	197.4	197.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>WHOLESALE TRADE-DURABLE GOODS—</b>										
	Continued										
508	Machinery, equipment, and supplies .....	1, 124. 2	1, 133. 6	1, 191. 7	1, 199. 6	-	921. 1	928. 0	970. 8	979. 5	-
509	Miscellaneous durable goods .....	191. 1	193. 5	200. 9	202. 8	-	160. 4	162. 2	169. 9	171. 7	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	2, 031	2, 034	2, 057	2, 062	-	1, 678	1, 680	1, 694	1, 697	-
511	Paper and paper products .....	131. 4	131. 8	136. 0	136. 5	-	107. 2	107. 2	109. 7	110. 1	-
512	Drugs, proprietaries, and sundries .....	134. 5	134. 9	138. 0	138. 1	-	115. 3	115. 6	118. 6	119. 1	-
513	Apparel, piece goods, and notions .....	157. 7	157. 6	161. 6	160. 8	-	125. 2	125. 2	128. 1	127. 4	-
514	Groceries and related products .....	621. 0	622. 1	615. 5	616. 4	-	537. 9	538. 8	533. 3	533. 5	-
516	Chemical and allied products .....	115. 5	116. 8	118. 1	118. 5	-	81. 9	83. 3	85. 2	85. 5	-
517	Petroleum and petroleum products .....	225. 1	225. 5	223. 6	222. 5	-	174. 8	174. 7	165. 9	164. 2	-
518	Beer, wine, and distilled beverages .....	128. 0	129. 6	135. 5	137. 3	-	108. 2	109. 7	114. 7	116. 2	-
519	Miscellaneous nondurable goods .....	362. 5	362. 4	369. 1	372. 8	-	299. 6	299. 7	305. 4	308. 5	-
52-59	<b>RETAIL TRADE</b> .....	14, 210	14, 397	14, 533	14, 780	14, 927	12, 794	12, 972	13, 056	13, 282	13, 401
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	SUPPLIES .....	579. 5	588. 4	589. 5	603. 2	-	494. 3	502. 7	502. 6	514. 6	-
521	Lumber and other building materials .....	308. 0	313. 5	311. 8	318. 5	-	264. 1	270. 1	266. 8	272. 7	-
525	Hardware stores .....	139. 8	141. 1	143. 0	144. 3	-	119. 6	120. 3	122. 7	123. 5	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	2, 239. 7	2, 260. 5	2, 214. 9	2, 223. 8	-	2, 083. 7	2, 104. 2	2, 059. 4	2, 067. 5	-
531	Department stores .....	1, 823. 7	1, 832. 8	1, 785. 7	1, 789. 4	-	1, 707. 8	1, 717. 6	1, 671. 9	1, 675. 5	-
533	Variety stores .....	278. 5	285. 8	279. 5	283. 9	-	259. 3	265. 9	258. 8	262. 1	-
539	Misc. general merchandise stores .....	137. 5	141. 9	149. 7	150. 5	-	116. 6	120. 7	128. 7	129. 9	-
54	<b>FOOD STORES</b> .....	2, 174. 7	2, 191. 7	2, 261. 1	2, 264. 7	-	2, 004. 9	2, 022. 3	2, 085. 8	2, 089. 0	-
541	Grocery stores .....	1, 914. 0	1, 926. 3	1, 999. 0	2, 000. 6	-	1, 768. 1	1, 780. 9	1, 846. 6	1, 847. 6	-
542	Meat markets and freezer provisioners .....	47. 3	46. 8	49. 5	48. 4	-	-	-	-	-	-
546	Retail bakeries .....	116. 5	117. 1	117. 9	118. 8	-	106. 8	107. 5	108. 6	109. 6	-
56	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	STATIONS .....	1, 840. 5	1, 849. 5	1, 866. 2	1, 856. 7	-	1, 582. 8	1, 593. 2	1, 597. 0	1, 588. 3	-
561,2	New and used car dealers .....	875. 5	878. 9	902. 3	903. 4	-	730. 1	733. 9	750. 9	752. 0	-
563	Auto and home supply stores .....	244. 7	248. 3	246. 6	248. 7	-	213. 0	217. 5	215. 4	217. 4	-
564	Gasoline service stations .....	640. 9	642. 4	637. 3	623. 2	-	572. 6	574. 0	562. 7	549. 6	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	864. 6	864. 6	880. 0	900. 0	-	745. 8	745. 7	757. 5	775. 8	-
561	Men's and boys' clothing and furnishings .....	137. 4	136. 6	139. 2	141. 0	-	116. 7	116. 3	118. 1	119. 9	-
562	Women's ready-to-wear stores .....	321. 0	322. 0	327. 8	331. 8	-	278. 3	279. 5	285. 2	289. 2	-
566	Family clothing stores .....	152. 3	153. 4	156. 2	159. 9	-	134. 8	135. 3	136. 6	139. 9	-
568	Shoe stores .....	169. 0	168. 5	173. 3	184. 1	-	141. 5	140. 9	144. 6	154. 6	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	STORES .....	582. 0	586. 3	606. 5	603. 4	-	482. 7	486. 5	503. 4	498. 2	-
571	Furniture and home furnishings .....	351. 4	352. 7	358. 5	356. 6	-	296. 1	296. 8	300. 6	299. 0	-
572	Household appliance stores .....	85. 9	86. 6	91. 9	90. 9	-	73. 1	73. 9	78. 6	77. 7	-
573	Radio, television, and music stores .....	144. 7	147. 0	156. 1	155. 9	-	113. 5	115. 8	124. 2	121. 5	-
58	<b>EATING AND DRINKING PLACES</b> .....	4, 181. 0	4, 294. 1	4, 317. 9	4, 521. 3	-	3, 863. 6	3, 968. 5	3, 964. 7	4, 154. 9	-
59	<b>MISCELLANEOUS RETAIL</b> .....	1, 747. 7	1, 762. 1	1, 797. 1	1, 807. 2	-	1, 535. 8	1, 549. 0	1, 585. 7	1, 593. 5	-
591	Drug stores and proprietary stores .....	491. 8	492. 3	513. 0	514. 7	-	447. 3	448. 2	467. 5	468. 1	-
592	Liquor stores .....	115. 9	117. 8	124. 3	123. 8	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	482. 3	483. 9	500. 7	499. 2	-	412. 7	412. 8	429. 4	427. 4	-
596	Nonstore retailers .....	271. 7	268. 4	263. 4	259. 5	-	252. 3	249. 2	247. 4	243. 6	-
598	Fuel and ice dealers .....	101. 9	99. 0	106. 9	102. 4	-	86. 3	83. 7	91. 5	86. 8	-
599	Retail stores, nec. .....	232. 0	247. 5	235. 1	252. 9	-	196. 4	211. 2	198. 6	216. 1	-
-	<b>FINANCE, INSURANCE, AND REAL</b>										
	ESTATE <sup>2</sup> .....	4, 609	4, 642	4, 810	4, 839	4, 868	3, 502	3, 526	3, 655	3, 681	3, 704
80	<b>BANKING</b> .....	1, 395. 8	1, 403. 3	1, 463. 6	1, 468. 6	-	1, 091. 8	1, 097. 0	1, 135. 2	1, 136. 8	-
802	Commercial and stock savings banks .....	1, 272. 8	1, 279. 7	1, 334. 8	1, 339. 4	-	991. 9	996. 7	1, 030. 4	1, 031. 8	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	490. 4	493. 9	519. 9	520. 3	-	375. 8	378. 3	399. 0	399. 7	-
612	Savings and loan associations .....	209. 7	211. 1	226. 5	227. 1	-	163. 9	164. 9	175. 2	175. 8	-
614	Personal credit institutions .....	194. 8	196. 4	203. 4	203. 6	-	146. 9	147. 9	155. 5	155. 5	-
62	<b>SECURITY, COMMODITY BROKERS, AND</b>										
	SERVICES .....	183. 3	184. 7	198. 9	200. 1	-	-	-	-	-	-
621	Security brokers and dealers .....	150. 5	152. 0	163. 0	163. 8	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	1, 182. 9	1, 186. 5	1, 223. 4	1, 228. 7	-	822. 8	824. 4	860. 2	866. 6	-
531	Life insurance .....	522. 5	522. 7	524. 8	528. 6	-	311. 2	311. 2	314. 5	318. 1	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>p</sup>	May 1979 <sup>p</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>p</sup>	May 1979 <sup>p</sup>
	<b>INSURANCE CARRIERS—Continued</b>										
632	Medical service and health insurance .....	137.8	137.9	142.5	142.0	-	111.8	111.6	114.5	113.9	-
633	Fire, marine, and casualty insurance .....	451.9	454.4	482.8	484.6	-	341.9	343.1	371.0	374.1	-
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b> .....	385.9	388.1	409.9	410.5	-	-	-	-	-	-
65	<b>REAL ESTATE</b> .....	842.6	855.9	861.5	877.5	-	-	-	-	-	-
651	Real estate operators and lessors .....	428.1	429.5	431.1	434.6	-	-	-	-	-	-
653	Real estate agents and managers .....	283.2	288.9	299.0	302.9	-	-	-	-	-	-
655	Subdividers and developers .....	107.7	113.5	106.6	114.8	-	-	-	-	-	-
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b> .....	29.8	30.0	30.3	29.8	-	-	-	-	-	-
67	<b>HOLDING AND OTHER INVESTMENT OFFICES.</b> .....	98.5	99.1	102.6	103.4	-	-	-	-	-	-
-	<b>SERVICES</b> .....	15,866	15,975	16,436	16,578	16,691	14,174	14,260	14,592	14,717	14,806
70	<b>HOTELS AND OTHER LODGING PLACES</b> .....	929.2	949.3	924.3	959.0	-	-	-	-	-	-
701	Hotels, motels, and tourist courts .....	896.8	914.4	892.2	927.2	-	825.0	842.9	823.6	855.4	-
72	<b>PERSONAL SERVICES</b> .....	899.4	903.7	907.1	907.8	-	-	-	-	-	-
721	Laundry, cleaning, and garment services .....	352.4	354.5	350.3	351.2	-	313.5	316.0	311.8	312.2	-
723	Beauty shops .....	279.3	280.2	284.5	283.4	-	257.1	257.9	262.8	262.3	-
726	Funeral service and crematories .....	69.4	70.0	72.4	73.1	-	-	-	-	-	-
73	<b>BUSINESS SERVICES</b> .....	2,483.2	2,504.5	2,675.6	2,671.4	-	2,152.9	2,170.4	2,317.4	2,309.3	-
731	Advertising .....	137.7	138.0	147.9	148.6	-	101.9	102.1	108.9	109.0	-
732	Credit reporting and collection .....	87.3	87.8	86.6	86.5	-	-	-	-	-	-
733	Mailing, reproduction, stenographic .....	100.6	99.6	103.1	101.1	-	-	-	-	-	-
734	Services to buildings .....	445.3	451.2	466.6	469.4	-	398.8	404.6	419.0	422.6	-
736	Personnel supply services .....	388.9	396.0	420.2	413.4	-	-	-	-	-	-
737	Computer and data processing services .....	202.7	203.0	232.9	234.1	-	166.7	165.3	192.4	193.4	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	518.7	516.6	539.5	538.5	-	446.3	443.6	464.4	462.6	-
753	Automotive repair shops .....	315.6	316.7	325.5	328.5	-	269.4	270.2	278.7	280.8	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	243.6	243.6	254.2	254.0	-	209.4	208.8	217.3	217.1	-
78	<b>MOTION PICTURES</b> .....	214.5	214.4	216.7	224.8	-	188.9	189.2	193.7	201.7	-
781	Motion picture production and services .....	76.3	72.1	89.1	87.0	-	66.4	62.5	78.6	76.6	-
783	Motion picture theaters .....	127.9	132.2	117.2	127.4	-	-	-	-	-	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	677.0	721.2	644.9	699.8	-	613.9	657.5	580.2	633.9	-
80	<b>HEALTH SERVICES</b> .....	4,710.5	4,726.1	4,905.2	4,917.0	-	4,206.5	4,216.8	4,367.1	4,376.2	-
801	Offices of physicians .....	671.4	676.8	699.7	702.9	-	555.9	559.9	572.3	574.7	-
802	Offices of dentists .....	288.1	287.6	296.2	298.0	-	253.3	251.1	258.8	260.9	-
805	Nursing and personal care facilities .....	886.7	892.6	935.9	940.6	-	800.9	805.2	843.7	846.7	-
806	Hospitals .....	2,522.3	2,524.9	2,609.9	2,608.7	-	2,300.9	2,302.7	2,383.0	2,381.6	-
81	<b>LEGAL SERVICES</b> .....	409.6	413.1	442.1	441.5	-	356.9	359.0	379.4	378.7	-
82	<b>EDUCATIONAL SERVICES</b> .....	1,117.7	1,085.0	1,096.4	1,092.4	-	-	-	-	-	-
821	Elementary and secondary schools .....	246.8	245.9	237.9	234.9	-	-	-	-	-	-
822	Colleges and universities .....	768.7	737.1	750.6	749.9	-	-	-	-	-	-
83	<b>SOCIAL SERVICES</b> .....	930.8	938.5	995.2	997.2	-	-	-	-	-	-
86	<b>MEMBERSHIP ORGANIZATIONS</b> .....	1,520.7	1,535.2	1,576.9	1,580.3	-	-	-	-	-	-
89	<b>MISCELLANEOUS SERVICES</b> .....	842.1	842.1	908.6	910.5	-	702.5	702.2	755.4	755.9	-
891	Engineering and architectural services .....	449.4	456.6	478.2	481.8	-	379.7	386.3	403.3	406.3	-
893	Accounting, auditing, and bookkeeping .....	274.9	267.0	299.2	296.8	-	223.5	215.9	242.9	240.5	-
-	<b>GOVERNMENT<sup>4</sup></b> .....	15,766	15,808	15,799	15,808	15,807	-	-	-	-	-
-	<b>FEDERAL GOVERNMENT</b> .....	2,739	2,756	2,740	2,750	2,761	-	-	-	-	-
-	Executive .....	2,686.7	2,702.9	2,688.3	2,697.4	-	-	-	-	-	-
-	Department of Defense .....	905.4	911.3	892.0	890.0	-	-	-	-	-	-
-	Postal Service .....	647.9	648.3	655.4	655.0	-	-	-	-	-	-
-	Other executive agencies .....	1,133.4	1,143.3	1,140.9	1,152.4	-	-	-	-	-	-
-	Manufacturing activities .....	141.0	141.6	139.6	139.9	-	-	-	-	-	-
-	Shipbuilding .....	72.2	72.8	71.7	71.6	-	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
-	Executive—Continued										
-	Transportation and public utilities, except										
-	Postal Service .....	37.6	38.2	37.9	37.7	-	-	-	-	-	-
-	Services .....	380.3	386.9	372.1	373.7	-	-	-	-	-	-
-	Hospitals .....	234.8	237.3	228.0	228.0	-	-	-	-	-	-
-	Legislative .....	39.5	40.0	38.9	39.4	-	-	-	-	-	-
-	Judicial .....	12.7	12.8	13.1	13.2	-	-	-	-	-	-
-	<b>STATE AND LOCAL GOVERNMENT .....</b>	<b>13,027</b>	<b>13,052</b>	<b>13,059</b>	<b>13,058</b>	<b>13,046</b>	-	-	-	-	-
-	State government .....	3,505.0	3,477.0	3,514.1	3,508.5	-	-	-	-	-	-
-	Hospitals .....	551.7	552.3	563.0	562.2	-	-	-	-	-	-
-	State education .....	1,467.3	1,428.7	1,470.6	1,462.3	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions .....	917.0	922.1	903.3	904.7	-	-	-	-	-	-
-	Local government .....	9,522.4	9,575.4	9,544.5	9,549.0	-	-	-	-	-	-
-	Transportation and public utilities .....	558.4	561.7	579.0	575.2	-	-	-	-	-	-
-	Hospitals .....	503.7	506.2	522.0	522.2	-	-	-	-	-	-
-	Local education .....	5,393.7	5,415.6	5,384.3	5,390.8	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions .....	2,725.5	2,747.7	2,717.9	2,718.1	-	-	-	-	-	-

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

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

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

<sup>4</sup> Prepared by the U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

<sup>5</sup> Not available.  
p=preliminary.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Feb. 1978	Mar. 1978	Jan. 1979	Feb. 1979	Mar. 1979
-	<b>TOTAL</b> .....	34,094	34,454	35,723	35,829	36,124
-	<b>PRIVATE SECTOR</b> .....	26,799	27,090	28,425	28,401	28,643
-	<b>MINING</b> .....	68	68	81	82	84
10	<b>METAL MINING</b> .....	6.4	6.4	7.6	7.6	8.0
11, 12	<b>COAL MINING</b> .....	5.0	4.8	8.5	8.5	8.5
13	<b>OIL AND GAS EXTRACTION</b> .....	48.8	49.1	56.3	57.5	58.7
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	31.8	32.2	36.0	36.7	37.0
138	Oil and gas field services .....	17.0	16.9	20.3	20.8	21.7
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	7.3	7.3	8.2	8.1	8.6
142	Crushed and broken stone .....	2.2	2.3	2.6	2.6	2.7
144	Sand and gravel .....	2.2	2.1	2.5	2.4	2.7
-	<b>CONSTRUCTION</b> .....	315	319	339	344	346
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	115.4	117.0	122.5	123.9	123.6
152	Residential building construction .....	69.2	70.2	73.1	73.8	73.6
153	Operative builders .....	16.1	16.3	16.5	17.0	16.8
154	Nonresidential building construction .....	30.1	30.5	32.9	33.1	33.2
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	47.5	48.0	48.9	49.0	49.9
181	Highway and street construction .....	10.5	10.9	13.0	13.1	14.0
182	Heavy construction, except highway .....	37.0	37.1	35.9	35.9	35.9
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	151.9	153.9	167.8	170.6	172.6
171	Plumbing, heating, air conditioning .....	43.9	44.1	46.2	46.5	46.9
172	Painting, paper hanging, decorating .....	9.8	10.0	11.3	11.5	11.5
173	Electrical work .....	27.7	28.0	29.2	29.3	29.7
174	Masonry, stonework, and plastering .....	17.4	17.6	19.9	20.7	20.8
175	Carpentering and flooring .....	11.4	11.6	13.4	14.1	13.8
176	Roofing and sheet metal work .....	10.0	10.5	11.6	11.8	12.2
-	<b>MANUFACTURING</b> .....	5,976	6,035	6,271	6,284	6,323
24, 25, 32-38	<b>DURABLE GOODS</b> .....	2,754	2,782	2,976	2,991	3,015
20-23, 28-31	<b>NONDURABLE GOODS</b> .....	3,222	3,253	3,295	3,293	3,308
	<b>DURABLE GOODS</b>					
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	100.6	101.7	108.1	108.6	110.7
241	Logging camps and logging contractors .....	4.4	4.7	4.8	4.8	4.9
242	Sawmills and planing mills .....	20.3	20.8	22.4	22.4	22.8
2421	Sawmills and planing mills, general .....	14.0	14.6	15.3	15.3	15.7
243	Millwork, plywood, and structural members .....	39.6	39.7	42.8	42.9	43.8
244	Wooden containers .....	6.9	6.9	7.0	7.1	7.4
245	Wood buildings and mobile homes .....	9.6	9.4	9.8	9.7	10.1
249	Miscellaneous wood products .....	19.8	20.2	21.3	21.7	21.7
26	<b>FURNITURE AND FIXTURES</b> .....	139.7	140.2	145.9	144.8	143.5
261	Household furniture .....	107.0	106.9	109.8	108.7	107.7
2611	Wood household furniture .....	44.5	44.2	45.4	45.1	44.9
2612	Upholstered household furniture .....	36.5	36.5	37.8	37.3	37.0
2615	Mattresses and bedsprings .....	8.5	8.4	8.5	8.6	8.6
262	Office furniture .....	9.3	9.4	10.7	10.6	10.5
263	Public building and related furniture .....	4.6	4.7	5.0	5.0	4.9
264	Partitions and fixtures .....	9.0	9.2	10.2	10.3	10.3
269	Miscellaneous furniture and fixtures .....	9.8	10.0	10.2	10.2	10.1
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	126.4	127.3	129.7	129.9	131.5
322	Glass and glassware, pressed or blown .....	47.2	47.3	45.0	44.4	44.6
3221	Glass containers .....	28.1	28.2	25.1	25.4	25.4
3229	Pressed and blown glass, nec .....	19.1	19.1	19.9	19.0	19.2
323	Products of purchased glass .....	10.8	10.8	12.4	12.6	12.9
324	Cement, hydraulic .....	1.5	1.5	1.6	1.6	1.6
325	Structural clay products .....	6.5	6.5	6.6	6.7	6.7
326	Pottary and related products .....	16.6	16.9	16.8	16.9	17.1
327	Concrete, gypsum, and plaster products .....	13.3	13.4	14.0	13.9	14.2
329	Misc. nonmetallic mineral products .....	27.9	28.2	30.7	31.3	31.4
33	<b>PRIMARY METAL INDUSTRIES</b> .....	113.5	114.5	128.8	129.5	130.5
331	Blast furnaces and basic steel products .....	35.0	35.1	40.2	40.7	41.2
3312	Blast furnaces and steel mills .....	26.9	27.0	31.5	31.9	32.3
332	Iron and steel foundries .....	17.2	17.6	20.9	20.6	21.1

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Feb. 1978	Mar. 1978	Jan. 1979	Feb. 1979	Mar. 1979
<b>PRIMARY METAL INDUSTRIES—Continued</b>						
3321	Gray iron foundries .....	8.9	9.0	10.6	10.2	10.4
3322	Malleable iron foundries .....	1.5	1.5	1.7	1.7	1.8
3325	Steel foundries, nec .....	3.9	4.0	4.8	4.8	4.9
333	Primary nonferrous metals .....	4.1	4.2	4.5	4.5	4.6
3334	Primary aluminum .....	1.3	1.4	1.7	1.7	1.7
335	Nonferrous rolling and drawing .....	37.2	37.6	41.3	41.7	41.5
3351	Copper rolling and drawing .....	3.1	3.2	3.7	3.8	3.8
3353	Aluminum sheet, plate, and foil .....	4.2	4.3	4.6	4.6	4.6
3357	Nonferrous wire drawing and insulating .....	22.2	22.3	24.5	24.6	24.5
336	Nonferrous foundries .....	15.2	15.1	16.9	16.9	17.0
3361	Aluminum foundries .....	7.1	7.0	7.8	7.7	7.8
34	<b>FABRICATED METAL PRODUCTS .....</b>	<b>326.7</b>	<b>329.4</b>	<b>348.8</b>	<b>349.2</b>	<b>352.0</b>
341	Metal cans and shipping containers .....	12.1	12.3	12.9	13.3	13.3
3411	Metal cans .....	10.6	10.8	11.2	11.6	11.6
342	Cutlery, hand tools, and hardware .....	61.9	62.5	64.1	64.0	64.3
3423, 5	Hand and edge tools, and hand saws and blades .....	16.5	16.8	17.2	17.1	17.1
3429	Hardware, nec .....	38.5	38.7	39.6	39.6	40.0
343	Plumbing and heating, except electric .....	16.7	16.7	18.1	17.8	17.8
344	Fabricated structural metal products .....	65.6	65.3	69.4	68.7	69.2
3441	Fabricated structural metal .....	6.9	6.9	7.4	7.6	7.5
3442	Metal doors, sash, and trim .....	22.5	21.8	22.0	21.1	21.3
3443	Fabricated plate work (boiler shops) .....	14.6	14.7	15.9	16.0	16.1
3444	Sheet metal work .....	13.1	13.4	14.2	14.4	14.4
345	Screw machine products, bolts, etc. ....	21.8	22.2	24.4	24.9	25.3
3451	Screw machine products .....	11.3	11.6	12.7	13.1	13.2
3452	Bolts, nuts, rivets, and washers .....	10.5	10.6	11.7	11.8	12.1
346	Metal forgings and stampings .....	54.6	55.2	58.4	58.6	58.8
3462	Iron and steel forgings .....	3.8	3.8	4.5	4.5	4.6
3465	Automotive stampings .....	14.1	14.3	15.6	15.4	15.2
3469	Metal stampings, nec .....	34.6	35.0	36.1	36.6	36.8
347	Metal services, nec .....	23.5	23.8	24.4	24.1	24.5
3471	Plating and polishing .....	17.6	17.6	17.5	17.3	17.6
3479	Metal coating and allied services .....	5.9	6.2	6.9	6.8	6.9
348	Ordnance and accessories, nec .....	15.6	15.7	16.4	16.5	16.6
349	Misc. fabricated metal products .....	54.9	55.7	60.7	61.3	62.2
3494	Valves and pipe fittings .....	19.8	20.0	22.2	22.4	22.6
3496	Misc. fabricated wire products .....	12.1	12.2	13.5	13.8	14.0
35	<b>MACHINERY, EXCEPT ELECTRICAL .....</b>	<b>414.9</b>	<b>419.5</b>	<b>462.8</b>	<b>467.3</b>	<b>471.3</b>
351	Engines and turbines .....	21.8	22.0	24.7	25.0	25.0
3511	Turbines and turbine generator sets .....	5.8	5.9	6.1	6.1	6.1
3519	Internal combustion engines, nec .....	16.0	16.1	18.6	18.9	18.9
352	Farm and garden machinery .....	22.9	23.1	25.0	25.6	26.1
3523	Farm machinery and equipment .....	17.9	17.9	19.7	20.3	20.6
353	Construction and related machinery .....	38.7	39.2	44.0	44.3	44.9
3531	Construction machinery .....	13.9	14.0	14.5	14.7	14.7
3533	Oil field machinery .....	8.2	8.4	10.1	10.2	10.4
354	Metalworking machinery .....	50.2	50.6	55.0	55.6	56.1
3541	Machine tools, metal cutting types .....	7.8	7.9	9.0	9.1	9.4
3544	Special dies, tools, jigs, and fixtures .....	13.6	13.6	15.5	15.4	15.6
3545	Machine tool accessories .....	12.3	12.4	13.8	14.1	14.1
355	Special industry machinery .....	28.0	28.5	30.4	30.5	30.7
3551	Food products machinery .....	5.9	5.9	6.3	6.3	6.4
3552	Textile machinery .....	5.8	5.9	5.9	6.0	6.0
3556	Printing trades machinery .....	5.8	6.2	7.0	6.9	6.9
356	General industrial machinery .....	54.8	55.7	60.8	61.4	62.0
3561	Pumps and pumping equipment .....	10.4	10.4	11.2	11.3	11.4
3562	Ball and roller bearings .....	13.3	13.6	14.6	14.7	14.8
357	Office and computing machines .....	115.8	117.0	133.6	134.9	136.1
3573	Electronic computing equipment .....	88.8	90.0	103.9	105.9	107.0
358	Refrigeration and service machinery .....	35.8	36.4	39.4	39.8	40.0
3585	Refrigeration and heating equipment .....	24.6	24.9	26.7	27.2	27.3
359	Misc. machinery, except electrical .....	46.9	47.0	49.9	50.2	50.4
3599	Machinery, except electrical, nec .....	37.3	37.4	38.6	38.8	38.9
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT .....</b>	<b>798.6</b>	<b>801.7</b>	<b>848.1</b>	<b>852.3</b>	<b>858.7</b>
361	Electric distributing equipment .....	43.9	44.1	43.8	44.0	44.5
3612	Transformers .....	20.4	20.6	20.1	20.5	20.5
3613	Switchgear and switchboard apparatus .....	23.5	23.5	23.7	23.5	24.0
362	Electrical industrial apparatus .....	90.4	90.9	95.9	96.9	97.2
3621	Motors and generators .....	50.9	50.6	53.2	53.8	54.1
3622	Industrial controls .....	27.6	28.3	30.0	30.1	30.2
363	Household appliances .....	60.0	60.6	56.0	57.6	57.3
3632	Household refrigerators and freezers .....	12.4	12.9	9.6	10.7	10.7
3633	Household laundry equipment .....	4.9	4.9	4.0	4.6	4.7
3634	Electric housewares and fans .....	24.4	24.9	24.6	24.4	24.2
364	Electric lighting and wiring equipment .....	95.8	97.0	103.6	103.3	104.2
3641	Electric lamps .....	24.4	24.2	25.7	24.8	24.9

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Feb. 1978	Mar. 1978	Jan. 1979	Feb. 1979	Mar. 1979
<b>ELECTRIC AND ELECTRONIC EQUIPMENT—Continued</b>						
3643	Current-carrying wiring devices .....	41.3	42.5	46.4	46.7	46.7
365	Radio and TV receiving equipment .....	65.7	65.0	62.5	61.4	61.0
3651	Radio and TV receiving sets .....	49.9	48.8	49.8	48.7	48.0
366	Communication equipment .....	172.5	172.2	186.1	186.7	189.4
3661	Telephone and telegraph apparatus .....	71.9	71.9	72.9	72.9	75.1
3662	Radio and TV communication equipment .....	100.6	100.3	113.2	113.8	114.3
367	Electronic components and accessories .....	217.4	218.5	243.7	246.3	248.6
3671-3	Electronic tubes .....	15.8	15.9	16.6	16.8	16.9
3674	Semiconductors and related devices .....	72.4	73.1	84.8	85.1	86.5
3679	Electronic components, nec .....	88.9	88.8	98.5	99.9	100.4
369	Misc. electrical equipment and supplies .....	52.9	53.4	56.5	56.1	56.5
3694	Engine electrical equipment .....	26.9	26.9	28.7	28.0	27.9
37	<b>TRANSPORTATION EQUIPMENT .....</b>	<b>267.4</b>	<b>274.4</b>	<b>311.4</b>	<b>311.2</b>	<b>314.7</b>
371	Motor vehicles and equipment .....	123.8	126.3	141.6	138.9	141.1
3711	Motor vehicles and car bodies .....	47.9	50.2	53.9	52.3	54.2
3713	Truck and bus bodies .....	5.4	5.3	5.9	6.1	6.2
3714	Motor vehicle parts and accessories .....	68.7	68.9	79.5	78.2	78.4
372	Aircraft and parts .....	82.0	85.1	104.7	106.8	108.2
3721	Aircraft .....	47.0	49.9	63.5	64.7	65.6
3724	Aircraft engines and engine parts .....	18.8	18.9	22.3	22.6	22.9
3728	Aircraft equipment, nec .....	16.2	16.3	18.9	19.5	19.7
373	Ship and boat building and repairing .....	21.9	22.0	22.6	22.2	22.3
3731	Ship building and repairing .....	14.7	14.6	14.4	13.8	13.9
374	Railroad equipment .....	4.6	4.6	5.0	5.4	5.4
376	Guided missiles, space vehicles, parts .....	15.6	15.7	17.0	17.6	17.8
3761	Guided missiles and space vehicles .....	12.5	12.6	13.6	14.1	14.2
379	Miscellaneous transportation equipment .....	13.5	14.5	14.7	14.3	13.8
38	<b>INSTRUMENTS AND RELATED PRODUCTS .....</b>	<b>264.2</b>	<b>266.7</b>	<b>288.9</b>	<b>291.2</b>	<b>292.5</b>
381	Engineering and scientific instruments .....	19.3	19.5	22.0	22.3	22.5
382	Measuring and controlling devices .....	88.6	89.3	96.5	97.8	98.4
3822	Environmental controls .....	25.5	25.4	24.1	24.5	24.4
3823	Process control instruments .....	15.0	15.0	16.4	16.8	16.8
3825	Instruments to measure electricity .....	34.5	35.2	40.7	41.1	41.8
383	Optical instruments and lenses .....	9.0	9.1	9.9	9.9	10.1
384	Medical instruments and supplies .....	72.2	73.4	81.1	81.5	81.7
3841	Surgical and medical instruments .....	30.9	31.4	36.1	36.0	36.2
3842	Surgical appliances and supplies .....	32.8	33.4	36.4	36.7	36.7
385	Ophthalmic goods .....	22.4	22.4	23.5	23.6	23.8
386	Photographic equipment and supplies .....	34.6	34.8	37.8	37.7	38.0
387	Watches, clocks, and watchcases .....	18.1	18.2	18.1	18.4	18.0
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES .....</b>	<b>201.5</b>	<b>206.7</b>	<b>203.6</b>	<b>206.9</b>	<b>209.5</b>
391	Jewelry, silverware, and plated ware .....	27.3	28.7	28.8	28.0	27.7
393	Musical instruments .....	11.2	11.3	12.1	11.4	11.6
394	Toys and sporting goods .....	57.6	59.3	52.1	55.7	57.3
3942, 4	Dolls, games, toys, and children's vehicles .....	26.1	27.6	24.3	26.8	27.8
3949	Sporting and athletic goods, nec .....	31.5	31.7	27.8	28.9	29.5
395	Pens, pencils, office and art supplies .....	18.5	18.5	19.3	19.3	19.7
396	Costume jewelry and notions .....	37.8	38.8	40.2	40.5	41.1
399	Miscellaneous manufactures .....	49.1	50.1	51.1	52.0	52.1
<b>NONDURABLE GOODS</b>						
20	<b>FOOD AND KINDRED PRODUCTS .....</b>	<b>445.0</b>	<b>451.6</b>	<b>466.0</b>	<b>457.2</b>	<b>463.2</b>
201	Meat products .....	104.6	104.2	111.5	110.1	110.6
2011	Meat packing plants .....	26.4	26.2	27.8	27.1	27.3
2013	Sausages and other prepared meats .....	19.9	19.8	20.2	20.4	20.3
2016	Poultry dressing plants .....	51.1	50.9	55.6	55.0	55.5
202	Dairy products .....	35.8	36.8	37.2	36.8	37.5
2026	Fluid milk .....	19.3	19.7	19.7	19.5	19.8
203	Preserved fruits and vegetables .....	75.2	80.3	76.9	76.6	79.9
2032	Canned specialties .....	9.4	9.7	10.1	9.6	9.9
2033	Canned fruits and vegetables .....	19.4	21.4	20.4	20.9	20.9
2037	Frozen fruits and vegetables .....	17.0	19.5	16.5	16.8	19.2
204	Grain mill products .....	27.9	27.9	28.3	28.3	27.9
205	Bakery products .....	59.9	60.4	60.4	59.9	60.2
2051	Bread, cake, and related products .....	41.2	41.5	41.4	41.2	41.4
2052	Cookies and crackers .....	18.7	18.9	19.0	18.7	18.8
206	Sugar and confectionery products .....	37.9	36.5	41.8	39.9	39.6
207	Fats and oils .....	5.0	5.0	4.9	4.9	5.0
208	Beverages .....	34.7	34.7	34.7	34.6	34.6
2082	Malt beverages .....	5.3	5.5	5.8	5.7	5.7
2086	Bottled and canned soft drinks .....	15.6	15.8	16.8	16.9	16.9
209	Misc. foods and kindred products .....	64.0	65.8	70.3	66.1	67.9
21	<b>TOBACCO MANUFACTURES .....</b>	<b>26.9</b>	<b>25.6</b>	<b>27.0</b>	<b>25.4</b>	<b>24.6</b>
211	Cigarettes .....	15.4	15.3	15.5	15.2	15.1

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Feb. 1978	Mar. 1978	Jan. 1979	Feb. 1979	Mar. 1979
22	<b>TEXTILE MILL PRODUCTS</b>	427.1	428.3	426.5	427.1	427.3
221	Weaving mills, cotton	67.0	66.9	66.6	66.7	67.1
222	Weaving mills, synthetics	49.8	49.3	49.5	49.4	49.3
223	Weaving and finishing mills, wool	7.8	7.9	8.3	8.3	8.2
224	Narrow fabric mills	15.4	15.4	15.5	15.5	15.5
225	Knitting mills	151.0	152.9	150.3	150.2	150.9
2251	Women's hosiery, except socks	21.9	21.9	24.4	24.3	24.3
2252	Hosiery, nec	25.5	25.6	25.6	25.6	25.5
2253	Knit outerwear mills	52.2	53.6	48.6	48.4	49.0
2254	Knit underwear mills	26.4	26.8	28.3	28.5	28.7
2257	Circular knit fabric mills	14.7	14.6	13.6	13.7	13.6
226	Textile finishing, except wool	24.2	23.8	23.2	23.4	23.4
2261	Finishing plants, cotton	10.1	10.1	10.3	10.4	10.2
2262	Finishing plants, synthetic	6.8	6.8	6.3	6.4	6.6
227	Floor covering mills	24.3	25.0	25.7	25.8	25.9
228	Yarn and thread mills	66.2	65.9	66.0	66.3	65.4
2281	Yarn mills, except wool	40.8	40.9	41.7	42.1	41.3
2282	Throwing and winding mills	12.6	12.8	12.3	12.2	12.0
229	Miscellaneous textile goods	21.4	21.2	21.4	21.5	21.6
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,062.1	1,073.1	1,047.4	1,053.7	1,057.5
231	Men's and boys' suits and coats	69.1	67.4	66.6	67.2	65.0
232	Men's and boys' furnishings	314.5	313.0	303.1	307.8	308.8
2321	Men's and boys' shirts and nightwear	88.8	89.3	89.9	90.6	90.0
2327	Men's and boys' separate trousers	72.4	71.4	67.9	69.0	69.5
2328	Men's and boys' work clothing	83.0	81.3	78.3	80.8	80.9
233	Women's and misses' outerwear	358.4	368.1	362.1	362.3	366.5
2331	Women's and misses' blouses and waists	50.3	50.8	52.9	52.9	52.9
2335	Women's and misses' dresses	134.8	142.0	135.8	135.0	138.7
2337	Women's and misses' suits and coats	51.5	53.0	50.7	51.7	52.9
2339	Women's and misses' outerwear, nec	121.8	122.3	122.7	122.7	122.0
234	Women's and children's undergarments	82.5	83.6	78.4	78.9	78.7
2341	Women's and children's underwear	66.2	66.7	63.0	63.6	63.4
2342	Brasieres and allied garments	16.3	16.9	15.4	15.3	15.3
236	Children's outerwear	58.8	58.6	56.0	57.6	57.5
2361	Children's dresses and blouses	23.4	23.3	22.1	22.2	21.9
236	Misc. apparel and accessories	47.4	48.9	44.2	45.5	46.1
239	Misc. fabricated textile products	118.1	120.0	123.7	120.7	121.3
2391	Curtains and drapeeries	24.2	24.2	23.8	23.2	23.1
2392	House furnishings, nec	32.5	33.1	32.0	30.7	31.4
2396	Automotive and apparel trimmings	16.7	17.7	19.4	18.7	19.0
26	<b>PAPER AND ALLIED PRODUCTS</b>	153.0	154.1	159.2	158.9	161.0
261, 2,6	Paper and pulp mills	24.9	25.0	25.7	25.5	26.2
262	Paper mills, except building paper	22.5	22.5	23.1	23.1	23.8
263	Paperboard mills	5.5	5.5	6.0	6.1	6.1
264	Misc. converted paper products	71.9	72.8	74.5	74.3	75.6
265	Paperboard containers and boxes	50.7	50.8	53.0	53.0	53.1
27	<b>PRINTING AND PUBLISHING</b>	438.4	444.4	469.5	471.4	473.2
271	Newspapers	137.9	139.1	147.6	148.5	149.0
272	Periodicals	44.6	46.1	50.1	49.4	49.3
273	Books	55.2	56.3	55.5	55.9	56.5
274	Miscellaneous publishing	25.2	25.4	26.4	26.4	26.1
275	Commercial printing	111.5	112.4	120.8	122.0	123.0
2751	Commercial printing, letterpress	51.3	51.5	55.3	55.3	55.5
2752	Commercial printing, lithographic	54.5	55.1	60.1	61.2	61.8
276	Manifold business forms	13.5	13.5	14.8	14.8	14.8
278	Blankbooks and bookbinding	30.3	30.9	33.0	33.1	33.1
279	Printing trade services	7.6	7.9	8.5	8.3	8.3
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	246.2	249.3	260.7	260.7	262.1
281	Industrial inorganic chemicals	21.0	21.2	23.3	23.4	23.4
2819	Industrial inorganic chemicals, nec	14.7	14.9	15.9	16.1	16.0
282	Plastics materials and synthetics	42.7	42.6	45.0	45.1	44.9
2821	Plastics materials and resins	9.5	9.6	10.7	10.7	10.5
2824	Organic fibers, noncellulosic	25.5	25.4	26.0	26.1	26.1
283	Drugs	71.5	72.2	75.7	75.3	75.4
2834	Pharmaceutical preparations	60.8	61.5	64.5	64.2	64.2
284	Soap, cleaners, and toilet goods	51.0	52.8	52.6	52.6	53.5
2841	Soap and other detergents	8.7	9.1	9.2	8.9	8.9
2844	Toilet preparations	30.8	32.0	31.2	31.3	32.2
285	Paints and allied products	11.0	11.2	12.6	12.5	12.7
286	Industrial organic chemicals	23.2	23.2	23.6	23.7	23.8
2861,9	Gum, wood, and industrial organic chemicals, nec	18.7	18.7	19.2	19.2	19.3
287	Agricultural chemicals	8.8	9.0	9.5	9.6	9.9
289	Miscellaneous chemical products	17.0	17.1	18.4	18.5	18.5

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Feb. 1978	Mar. 1978	Jan. 1979	Feb. 1979	Mar. 1979
29	<b>PETROLEUM AND COAL PRODUCTS</b>	23.9	23.9	24.8	24.8	25.3
291	Petroleum refining	19.2	19.3	19.6	19.6	20.1
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	248.6	251.3	268.5	269.7	270.0
301	Tires and inner tubes	11.9	11.8	12.2	12.2	12.2
302	Rubber and plastics footwear	14.1	14.3	13.9	13.8	13.5
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.1	5.9	5.7	5.8	5.8
306	Fabricated rubber products, nec	38.4	38.5	40.5	40.5	40.4
307	Miscellaneous plastics products	178.1	180.8	196.2	197.4	198.1
31	<b>LEATHER AND LEATHER PRODUCTS</b>	150.5	150.9	144.9	144.0	144.1
311	Leather tanning and finishing	3.0	2.9	3.1	3.1	3.1
314	Footwear, except rubber	102.8	102.6	98.4	97.1	96.8
3143	Men's footwear, except athletic	41.0	41.4	37.7	36.8	36.7
3144	Women's footwear, except athletic	41.0	40.2	41.9	40.8	40.5
316	Luggage	8.7	9.0	8.7	9.0	9.3
317	Handbags and personal leather goods	22.0	22.4	21.0	21.3	21.6
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	1,081	1,088	1,176	1,180	1,187
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>	52.8	54.1	57.0	57.1	57.4
411	Local and suburban transportation	8.9	8.9	10.3	10.5	10.6
412	Taxicabs	7.1	7.2	8.1	8.0	7.8
413	Intercity highway transportation	4.5	4.5	4.7	4.6	4.6
415	School buses	30.0	31.0	31.4	31.5	31.8
42	<b>TRUCKING AND WAREHOUSING</b>	129.5	130.3	140.7	141.4	143.3
421,3	Trucking and trucking terminals	115.3	116.2	125.5	126.2	128.4
422	Public warehousing	14.2	14.1	15.2	15.2	14.9
44	<b>WATER TRANSPORTATION</b>	17.0	17.0	18.7	18.0	18.2
45	<b>TRANSPORTATION BY AIR</b>	118.6	119.6	127.2	127.6	128.7
451,2	Air transportation	112.2	112.8	120.0	120.1	121.2
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b>	1.9	1.9	2.0	1.9	1.9
47	<b>TRANSPORTATION SERVICES</b>	71.2	71.5	76.1	78.1	79.0
48	<b>COMMUNICATION</b>	543.5	546.9	597.4	599.4	600.5
481	Telephone communication	479.8	482.9	526.3	528.5	528.7
483	Radio and television broadcasting	49.5	49.9	55.4	55.4	56.1
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	128.3	129.0	135.7	136.0	136.7
491	Electric services	57.5	57.8	61.5	61.6	62.0
492	Gas production and distribution	31.6	31.7	33.2	33.2	33.2
493	Combination utility services	30.3	30.4	31.5	31.6	31.7
495	Sanitary services	4.4	4.5	4.5	4.6	4.7
-	<b>WHOLESALE AND RETAIL TRADE</b>	7,791	7,875	8,389	8,240	8,310
50,51	<b>WHOLESALE TRADE</b>	1,174	1,186	1,261	1,258	1,267
50	<b>WHOLESALE TRADE-DURABLE GOODS</b>	637	642	694	693	699
501	Motor vehicles and automotive equipment	83.5	84.1	91.9	91.4	91.7
502	Furniture and home furnishings	33.9	34.0	35.8	35.9	36.6
503	Lumber and construction materials	26.8	27.0	29.5	29.9	29.8
504	Sporting goods, toys, and hobby goods	21.6	21.9	22.1	22.2	21.5
505	Metals and minerals, except petroleum	23.6	23.5	26.1	26.3	26.5
506	Electrical goods	103.0	104.0	114.6	114.8	115.7
507	Hardware, plumbing, and heating equipment	59.6	60.2	65.6	65.1	66.7
508	Machinery, equipment, and supplies	237.8	240.2	259.7	259.8	263.2
509	Miscellaneous durable goods	46.9	47.3	48.5	47.7	47.5
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b>	537	544	567	565	568
511	Paper and paper products	38.7	38.7	38.9	38.7	39.4
512	Drugs, proprietaries, and sundries	55.6	56.3	60.6	61.0	61.2
513	Apparel, piece goods, and notions	72.4	74.4	76.2	77.2	78.1
514	Groceries and related products	141.3	144.1	139.8	137.7	140.2
516	Chemicals and allied products	27.7	28.0	29.7	29.9	30.2
517	Petroleum and petroleum products	44.7	45.0	48.0	47.4	47.1
518	Beer, wine, and distilled beverages	18.7	19.0	20.1	20.2	20.2
519	Miscellaneous nondurable goods	99.6	100.5	106.7	107.9	108.2

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Feb. 1978	Mar. 1978	Jan. 1979	Feb. 1979	Mar. 1979
52-59	<b>RETAIL TRADE</b> .....	6,617	6,689	7,128	6,982	7,043
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	135.6	137.2	143.2	145.0	147.2
521	Lumber and other building materials .....	54.2	54.2	57.7	57.3	58.0
525	Hardware stores .....	46.7	46.7	50.8	50.3	50.2
53	<b>GENERAL MERCHANDISE STORES</b> .....	1,498.7	1,497.8	1,628.1	1,508.6	1,493.6
531	Department stores .....	1,197.6	1,191.6	1,301.0	1,198.8	1,182.3
533	Variety stores .....	216.1	215.9	227.8	215.0	215.9
539	Misc. general merchandise stores .....	85.0	90.3	99.3	94.8	95.4
54	<b>FOOD STORES</b> .....	865.0	871.4	925.2	924.3	926.7
541	Grocery stores .....	723.4	726.9	781.6	779.8	786.6
542	Meat markets and freezer provisioners .....	13.6	13.4	14.7	14.9	14.9
548	Retail bakeries .....	68.7	69.1	69.2	68.2	69.7
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	281.2	282.9	306.0	307.1	307.1
551,2	New and used car dealers .....	114.1	114.8	124.5	124.8	125.4
553	Auto and home supply stores .....	40.5	40.7	45.5	43.6	43.1
554	Gasoline service stations .....	112.6	113.4	122.5	124.7	124.0
56	<b>APPAREL AND ACCESSORY STORES</b> .....	571.2	580.0	619.5	592.8	599.5
561	Men's and boys' clothing and furnishings .....	58.4	57.6	64.3	59.8	59.4
562	Women's ready-to-wear stores .....	272.0	278.3	293.2	284.0	289.3
565	Family clothing stores .....	110.5	112.1	121.9	114.8	115.5
568	Shoe stores .....	65.4	66.5	70.9	68.5	70.9
57	<b>FURNITURE AND HOME FURNISHING STORES</b> .....	179.9	180.6	192.4	190.9	193.2
571	Furniture and home furnishings .....	121.3	121.0	125.8	124.3	125.0
572	Household appliance stores .....	23.5	23.5	25.3	25.3	25.4
573	Radio, television, and music stores .....	35.1	36.1	41.3	41.3	42.8
58	<b>EATING AND DRINKING PLACES</b> .....	2,194.9	2,243.6	2,348.9	2,364.9	2,434.4
59	<b>MISCELLANEOUS RETAIL</b> .....	890.2	895.9	964.5	948.0	941.2
591	Drug stores and proprietary stores .....	280.1	281.6	314.5	306.3	306.4
592	Liquor stores .....	23.6	23.4	28.9	29.8	29.9
594	Miscellaneous shopping goods stores .....	285.8	285.8	304.6	297.5	297.5
596	Nonstore retailers .....	146.3	151.9	159.5	151.6	149.4
598	Fuel and ice dealers .....	22.8	22.6	23.4	23.4	23.5
599	Retail stores, nec .....	113.4	112.0	111.8	118.3	113.4
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,605	2,623	2,773	2,784	2,799
60	<b>BANKING</b> .....	953.8	957.9	1,013.4	1,017.8	1,021.6
602	Commercial and stock savings banks .....	877.6	881.1	931.8	935.8	939.2
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	309.9	312.3	333.5	336.0	339.2
612	Savings and loan associations .....	149.0	150.9	162.6	163.3	164.6
614	Personal credit institutions .....	107.7	107.9	114.6	116.2	117.8
62	<b>SECURITY, COMMODITY BROKERS, AND SERVICES</b> .....	69.2	69.1	75.8	76.6	77.3
621	Security brokers and dealers .....	55.8	55.8	61.0	61.7	62.4
63	<b>INSURANCE CARRIERS</b> .....	684.5	689.2	725.2	730.5	734.6
631	Life insurance .....	269.2	269.6	273.4	275.2	276.1
632	Medical service and health insurance .....	98.6	99.1	102.5	103.2	103.3
633	Fire, marine, and casualty insurance .....	270.2	273.4	299.7	302.2	305.1
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b> .....	232.3	234.9	248.8	246.6	249.1
65	<b>REAL ESTATE</b> .....	291.2	294.5	306.6	306.5	307.5
651	Real estate operators and lessors .....	126.9	129.2	134.0	131.2	130.8
653	Real estate agents and managers .....	121.5	122.2	128.3	130.6	132.4
655	Subdividers and developers .....	26.5	26.8	26.8	27.0	27.0
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b> .....	18.1	18.2	18.7	18.9	18.6
67	<b>HOLDING AND OTHER INVESTMENT OFFICES.</b> .....	46.4	46.8	50.6	51.4	51.5
-	<b>SERVICES</b> .....	8,963	9,082	9,396	9,487	9,594
70	<b>HOTELS AND OTHER LODGING PLACES</b> .....	470.1	476.7	470.7	475.4	493.8
701	Hotels, motels, and tourist courts .....	452.3	459.3	453.6	458.4	476.9



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Feb. 1978	Mar. 1978	Jan. 1979	Feb. 1979	Mar. 1979
72	<b>PERSONAL SERVICES</b> .....	591.6	599.9	600.7	606.4	615.0
721	Laundry, cleaning, and garment services .....	216.3	219.1	219.7	217.5	219.4
723	Beauty shops .....	247.1	248.6	250.7	250.3	255.0
726	Funeral service and crematories .....	18.2	18.0	18.8	18.6	18.9
73	<b>BUSINESS SERVICES</b> .....	1,002.2	1,019.4	1,128.8	1,121.4	1,136.7
731	Advertising .....	59.7	60.3	63.0	68.0	68.3
732	Credit reporting and collection .....	62.3	63.1	63.9	64.0	64.5
733	Mailing, reproduction, stenographic .....	47.7	47.7	50.4	49.5	50.7
734	Services to buildings .....	149.9	151.2	167.8	165.2	165.8
736	Personnel supply services .....	206.5	216.5	250.7	238.6	247.1
737	Computer and data processing services .....	95.2	95.5	109.9	111.1	111.4
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	80.6	82.7	85.5	86.8	88.8
753	Automotive repair shops .....	35.4	36.5	37.1	37.9	38.8
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	44.0	44.8	50.0	49.9	51.6
78	<b>MOTION PICTURES</b> .....	74.6	78.6	78.5	77.1	79.3
781	Motion picture production and services .....	22.4	23.9	24.3	24.5	25.2
783	Motion picture theaters .....	46.7	49.2	48.7	47.1	48.6
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	225.2	232.6	229.2	234.6	244.1
80	<b>HEALTH SERVICES</b> .....	3,791.3	3,811.4	3,955.2	3,970.6	3,987.4
801	Offices of physicians .....	522.4	525.6	544.4	547.5	549.3
802	Offices of dentists .....	243.5	246.1	252.5	252.3	254.1
806	Nursing and personal care facilities .....	776.5	781.2	826.9	826.9	831.8
808	Hospitals .....	2,019.4	2,027.1	2,084.6	2,096.4	2,103.1
81	<b>LEGAL SERVICES</b> .....	292.0	294.9	312.8	315.8	316.9
82	<b>EDUCATIONAL SERVICES</b> .....	562.8	575.4	522.8	552.3	556.0
821	Elementary and secondary schools .....	152.9	155.2	148.2	149.9	149.8
822	Colleges and universities .....	353.1	362.9	316.3	342.7	345.7
83	<b>SOCIAL SERVICES</b> .....	658.1	672.4	720.6	734.1	745.2
89	<b>MISCELLANEOUS SERVICES</b> .....	251.4	255.2	272.4	277.5	282.3
891	Engineering and architectural services .....	83.7	85.3	93.4	93.4	94.4
893	Accounting, auditing, and bookkeeping .....	118.3	119.4	124.6	129.1	132.2
-	<b>GOVERNMENT</b> .....	7,295	7,364	7,298	7,428	7,481
-	<b>FEDERAL GOVERNMENT</b> .....	855	859	856	859	859
-	<b>STATE AND LOCAL GOVERNMENT</b> .....	6,440	6,505	6,442	6,569	6,622
-	State government .....	1,562.7	1,573.6	1,507.6	1,552.6	1,564.2
-	Hospitals .....	323.4	320.6	328.6	327.2	330.5
-	State education .....	649.0	653.1	611.2	655.3	660.0
-	General administration including executive, legislative, and judicial functions .....	408.4	417.3	382.0	384.1	388.5
-	Local government .....	4,877.5	4,931.4	4,934.1	5,016.1	5,058.1
-	Transportation and public utilities .....	70.8	70.9	83.4	84.7	85.6
-	Hospitals .....	382.3	384.9	402.7	404.1	406.0
-	Local education .....	3,359.1	3,397.0	3,390.2	3,463.4	3,493.2
-	General administration including executive, legislative, and judicial functions .....	881.9	891.3	874.3	878.3	884.8

**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	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>TOTAL</b> .....	85,618	85,996	86,033	86,149	86,163	86,573	87,036	87,281	87,524	87,818	88,263	88,267	88,438
<b>GOODS-PRODUCING</b> .....	25,341	25,473	25,501	25,463	25,471	25,670	25,872	26,030	26,111	26,199	26,412	26,369	26,401
<b>MINING</b> .....	869	879	882	887	887	893	903	904	905	919	922	924	920
<b>CONSTRUCTION</b> .....	4,175	4,278	4,317	4,298	4,298	4,341	4,368	4,397	4,381	4,385	4,526	4,517	4,584
<b>MANUFACTURING</b> .....	20,297	20,316	20,302	20,278	20,286	20,436	20,601	20,729	20,825	20,895	20,964	20,928	20,897
<b>DURABLE GOODS</b> .....	12,093	12,109	12,138	12,146	12,166	12,305	12,410	12,491	12,562	12,647	12,699	12,671	12,649
Lumber and wood products .....	745	747	743	743	744	748	759	765	770	773	768	760	752
Furniture and fixtures .....	489	486	485	481	480	484	487	491	494	493	491	487	485
Stone, clay, and glass products .....	700	701	698	692	692	696	701	707	706	709	714	712	711
Primary metal industries .....	1,197	1,197	1,199	1,205	1,214	1,220	1,235	1,240	1,241	1,251	1,254	1,254	1,243
Fabricated metal products .....	1,652	1,645	1,643	1,646	1,650	1,667	1,684	1,697	1,706	1,715	1,712	1,711	1,710
Machinery, except electrical .....	2,311	2,332	2,345	2,351	2,358	2,391	2,404	2,425	2,447	2,465	2,481	2,496	2,502
Electric and electronic equipment .....	1,952	1,962	1,977	1,975	1,972	1,987	2,001	2,011	2,027	2,042	2,064	2,065	2,066
Transportation equipment .....	1,942	1,929	1,937	1,941	1,943	1,991	2,010	2,021	2,031	2,055	2,067	2,037	2,039
Instruments and related products .....	649	654	660	661	662	665	671	676	681	686	690	693	691
Miscellaneous manufacturing ind. ....	456	456	451	451	451	456	458	458	459	458	458	456	450
<b>NONDURABLE GOODS</b> .....	8,204	8,207	8,164	8,132	8,120	8,131	8,191	8,238	8,263	8,248	8,265	8,257	8,248
Food and kindred products .....	1,701	1,702	1,688	1,670	1,665	1,667	1,693	1,711	1,716	1,708	1,716	1,709	1,701
Tobacco manufactures .....	75	76	73	69	70	71	71	72	72	71	73	73	74
Textile mill products .....	913	908	909	903	907	907	910	910	912	911	909	903	906
Apparel and other textile products .....	1,326	1,325	1,307	1,309	1,309	1,307	1,307	1,312	1,318	1,304	1,301	1,306	1,297
Paper and allied products .....	709	709	710	698	697	692	700	705	708	712	717	719	716
Printing and publishing .....	1,180	1,186	1,187	1,188	1,178	1,185	1,198	1,203	1,209	1,214	1,219	1,219	1,221
Chemicals and allied products .....	1,093	1,091	1,091	1,089	1,088	1,089	1,093	1,097	1,099	1,098	1,098	1,101	1,107
Petroleum and coal products .....	207	209	207	209	209	210	210	211	211	212	214	214	212
Rubber and misc. plastic products .....	747	749	749	746	744	752	761	771	773	777	778	776	773
Leather and leather products .....	253	252	243	251	253	251	248	246	245	241	240	237	241
<b>SERVICE-PRODUCING</b> .....	60,277	60,523	60,532	60,686	60,692	60,903	61,164	61,251	61,413	61,619	61,851	61,898	62,037
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,847	4,881	4,827	4,846	4,855	4,922	4,947	4,697	4,974	5,001	5,025	4,942	4,995
<b>WHOLESALE AND RETAIL TRADE</b> ..	19,335	19,412	19,469	19,523	19,546	19,632	19,701	19,697	19,817	19,883	19,945	19,966	20,010
<b>WHOLESALE TRADE</b> .....	4,885	4,905	4,901	4,905	4,917	4,945	4,968	4,995	5,020	5,035	5,055	5,067	5,083
<b>RETAIL TRADE</b> .....	14,450	14,507	14,568	14,618	14,629	14,687	14,733	14,702	14,797	14,848	14,890	14,899	14,927
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,637	4,670	4,690	4,707	4,719	4,737	4,774	4,789	4,809	4,829	4,839	4,854	4,863
<b>SERVICES</b> .....	15,896	15,963	15,989	16,074	16,127	16,169	16,270	16,327	16,352	16,438	16,535	16,578	16,608
<b>GOVERNMENT</b> .....	15,562	15,597	15,557	15,536	15,445	15,443	15,472	15,471	15,461	15,468	15,507	15,558	15,561
<b>FEDERAL</b> .....	2,753	2,772	2,765	2,765	2,752	2,760	2,757	2,734	2,755	2,755	2,754	2,756	2,758
<b>STATE AND LOCAL</b> .....	12,809	12,825	12,792	12,771	12,693	12,683	12,715	12,737	12,706	12,713	12,753	12,802	12,803

<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	1978										1979		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. <sup>P</sup>	Mar. <sup>P</sup>
<b>TOTAL</b> .....	34, 531	34, 755	34, 921	35, 077	35, 099	35, 170	35, 256	35, 381	35, 622	35, 758	35, 953	36, 069	36, 191
<b>GOODS-PRODUCING</b> .....	6, 510	6, 545	6, 568	6, 592	6, 584	6, 587	6, 594	6, 645	6, 703	6, 754	6, 803	6, 815	6, 844
<b>MINING</b> .....	68	73	73	75	77	77	78	79	80	81	82	82	84
<b>CONSTRUCTION</b> .....	326	328	329	334	337	338	377	339	339	340	344	350	353
<b>MANUFACTURING</b> .....	6, 116	6, 114	6, 166	6, 183	6, 170	6, 172	6, 179	6, 227	6, 284	6, 333	6, 377	6, 383	6, 407
<b>DURABLE GOODS</b> .....	2, 819	2, 831	2, 848	2, 862	2, 870	2, 875	2, 887	2, 924	2, 954	2, 982	3, 005	3, 033	3, 055
Lumber and wood products .....	105	105	106	107	106	106	106	108	110	111	112	113	114
Furnitures and fixtures .....	141	141	142	141	142	141	141	142	143	144	146	146	144
Stone, clay, and glass products .....	130	130	130	129	129	130	130	130	131	133	132	133	135
Primary metal industries .....	115	115	117	120	121	122	124	125	126	128	129	130	131
Fabricated metal products .....	334	336	339	339	336	337	338	343	346	350	353	355	357
Machinery, except electrical .....	419	426	429	433	437	437	441	448	450	457	461	466	471
Electric and electronic equipment .....	813	813	815	818	823	823	821	831	838	845	852	861	871
Transportation equipment .....	281	280	284	285	286	286	291	300	308	311	314	321	322
Instruments and related products .....	268	271	273	277	279	281	282	282	285	287	290	293	294
Miscellaneous manufacturing ind. ....	213	214	213	213	211	212	213	215	217	216	216	215	216
<b>NONDURABLE GOODS</b> .....	3, 297	3, 313	3, 318	3, 321	3, 300	3, 297	3, 292	3, 303	3, 330	3, 351	3, 372	3, 350	3, 352
Food and kindred products .....	484	485	480	485	482	469	467	417	485	495	501	495	496
Tobacco manufactures .....	28	27	28	27	27	24	25	26	26	27	27	26	27
Textile mill products .....	431	429	430	429	430	428	429	430	430	431	431	430	430
Apparel and other textile products .....	1, 069	1, 078	1, 076	1, 074	1, 059	1, 064	1, 064	1, 061	1, 061	1, 064	1, 070	1, 057	1, 053
Paper and allied products .....	157	159	161	160	159	159	158	157	159	160	162	162	164
Printing and publishing .....	446	447	451	452	452	456	455	459	464	466	472	473	475
Chemicals and allied products .....	252	253	256	256	258	257	257	258	261	263	265	264	265
Petroleum and coal products .....	24	25	25	25	25	25	25	25	25	25	25	25	25
Rubber and misc. plastics products .....	254	257	258	260	260	262	258	262	268	271	271	272	272
Leather and leather products .....	152	153	153	153	148	153	154	154	151	149	148	146	145
<b>SERVICE-PRODUCING</b> .....	28, 021	28, 210	28, 353	28, 485	28, 515	28, 583	28, 662	28, 736	28, 919	29, 004	29, 150	29, 254	29, 347
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1, 094	1, 104	1, 102	1, 115	1, 117	1, 127	1, 131	1, 145	1, 150	1, 158	1, 177	1, 186	1, 193
<b>WHOLESALE AND RETAIL TRADE</b> ..	8, 098	8, 138	8, 188	8, 225	8, 258	8, 303	8, 322	8, 354	8, 389	8, 372	8, 467	8, 511	8, 523
<b>WHOLESALE TRADE</b> .....	1, 196	1, 207	1, 210	1, 217	1, 215	1, 216	1, 222	1, 242	1, 250	1, 260	1, 267	1, 268	1, 277
<b>RETAIL TRADE</b> .....	6, 902	6, 931	6, 978	7, 008	7, 043	7, 087	7, 100	7, 112	7, 139	7, 112	7, 200	1, 243	7, 246
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2, 631	2, 646	2, 658	2, 679	2, 696	2, 709	2, 720	2, 742	2, 764	2, 778	2, 793	2, 798	2, 807
<b>SERVICES</b> .....	9, 109	9, 144	9, 176	9, 220	9, 260	9, 315	9, 333	9, 354	9, 440	9, 506	9, 529	9, 564	9, 623
<b>GOVERNMENT</b> .....	7, 089	7, 178	7, 229	7, 246	7, 184	7, 129	7, 156	7, 141	7, 176	7, 190	7, 184	7, 195	7, 201
<b>FEDERAL</b> .....	858	863	882	874	879	880	877	878	874	859	862	860	858
<b>STATE AND LOCAL</b> .....	6, 231	6, 315	6, 347	6, 372	6, 305	6, 249	6, 279	6, 263	6, 302	6, 331	6, 322	6, 335	6, 343

<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.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	57,428	57,653	57,710	57,771	57,861	58,151	58,576	58,780	58,914	59,157	59,514	59,421	59,564
<b>GOODS-PRODUCING</b> .....	18,565	18,660	18,675	18,619	18,629	18,795	18,974	19,114	19,151	19,214	19,395	19,335	19,380
<b>MINING</b> .....	659	663	667	668	671	675	683	682	687	694	694	694	688
<b>CONSTRUCTION</b> .....	3,303	3,401	3,439	3,419	3,422	3,465	3,488	3,513	3,468	3,473	3,613	3,602	3,670
<b>MANUFACTURING</b> .....	14,603	14,596	14,569	14,532	14,536	14,655	14,803	14,919	14,996	15,047	15,088	15,039	15,022
<b>DURABLE GOODS</b> .....	8,685	8,683	8,694	8,693	8,706	8,816	8,909	8,985	9,034	9,100	9,131	9,096	9,077
Lumber and wood products .....	639	641	637	636	636	641	649	654	658	660	658	650	641
Furniture and fixtures .....	404	400	398	394	395	398	400	403	405	404	402	398	396
Stone, clay, and glass products .....	557	558	554	549	548	551	556	561	560	562	566	563	561
Primary metal industries .....	939	939	942	947	953	960	976	981	981	991	992	993	981
Fabricated metal products .....	1,257	1,250	1,245	1,245	1,248	1,264	1,280	1,291	1,295	1,305	1,301	1,297	1,296
Machinery, except electrical .....	1,516	1,533	1,547	1,544	1,550	1,576	1,581	1,603	1,615	1,630	1,638	1,648	1,652
Electric and electronic equipment .....	1,283	1,284	1,293	1,293	1,290	1,301	1,312	1,320	1,334	1,345	1,362	1,363	1,367
Transportation equipment .....	1,344	1,327	1,328	1,336	1,337	1,370	1,393	1,407	1,415	1,429	1,437	1,411	1,414
Instruments and related products .....	397	402	407	405	406	408	412	416	420	424	425	426	427
Miscellaneous manufacturing ind. ....	349	349	343	344	343	347	350	349	351	350	350	347	342
<b>NONDURABLE GOODS</b> .....	5,918	5,913	5,875	5,839	5,830	5,839	5,894	5,934	5,962	5,947	5,957	5,943	5,945
Food and kindred products .....	1,154	1,152	1,142	1,124	1,122	1,122	1,148	1,166	1,174	1,165	1,175	1,169	1,162
Tobacco manufactures .....	60	61	58	54	56	57	56	58	58	57	58	58	60
Textile mill products .....	795	792	791	785	790	790	795	793	795	793	790	784	789
Apparel and other textile products .....	1,140	1,137	1,121	1,127	1,124	1,123	1,123	1,124	1,131	1,119	1,114	1,117	1,112
Paper and allied products .....	535	535	535	523	522	519	525	531	534	538	543	545	543
Printing and publishing .....	668	668	669	667	657	663	672	676	681	685	689	688	692
Chemicals and allied products .....	628	628	628	623	624	624	627	630	632	632	630	631	634
Petroleum and coal products .....	135	136	135	136	137	137	138	139	139	140	141	140	141
Rubber and misc. plastics products .....	586	587	587	584	581	589	598	607	609	613	613	609	607
Leather and leather products .....	217	217	209	216	217	215	212	210	209	205	204	202	205
<b>SERVICE-PRODUCING</b> .....	38,863	38,993	39,035	39,152	39,232	39,356	39,602	39,666	39,763	39,943	40,119	40,086	40,184
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,086	4,109	4,051	4,066	4,064	4,129	4,150	4,155	4,168	4,186	4,204	4,130	4,187
<b>WHOLESALE AND RETAIL TRADE</b> ..	17,079	17,106	17,165	17,214	17,228	17,288	17,372	17,355	17,430	17,502	17,554	17,558	17,579
<b>WHOLESALE TRADE</b> .....	4,026	4,043	4,040	4,042	4,053	4,075	4,093	4,109	4,127	4,144	4,163	4,169	4,178
<b>RETAIL TRADE</b> .....	13,053	13,063	13,125	13,172	13,175	13,213	13,279	13,246	13,303	13,358	13,391	13,389	13,401
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,523	3,546	3,565	3,579	3,591	3,603	3,635	3,644	3,663	3,672	3,681	3,696	3,700
<b>SERVICES</b> .....	14,175	14,232	14,254	14,293	14,349	14,336	14,445	14,512	14,502	14,583	14,680	14,702	14,718

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

<sup>P</sup> 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
1976				
January.....	78.2	85.8	87.2	85.2
February.....	72.4	84.9	85.8	84.0
March.....	69.5	81.4	82.0	85.2
April.....	70.1	72.4	75.6	78.8
May.....	58.1	67.2	68.3	82.6
June.....	57.8	65.1	71.2	79.9
July.....	58.4	57.8	63.1	78.5
August.....	49.1	64.0	65.1	77.6
September.....	64.8	53.8	66.3	80.2
October.....	47.1	65.1	73.3	80.8
November.....	67.4	64.2	78.8	80.8
December.....	66.6	81.4	81.4	82.6
1977				
January.....	76.2	83.1	88.1	78.8
February.....	66.0	86.3	87.8	80.5
March.....	74.7	81.1	85.2	80.2
April.....	68.0	79.4	79.4	84.6
May.....	64.8	76.2	75.9	84.0
June.....	71.2	68.0	72.1	83.1
July.....	59.3	63.4	69.8	82.6
August.....	51.7	58.7	74.1	83.7
September.....	60.8	62.5	72.1	82.6
October.....	60.5	73.8	77.9	81.1
November.....	73.8	75.3	82.0	81.1
December.....	72.1	79.7	83.1	80.8
1978				
January.....	69.8	80.2	85.5	80.5
February.....	70.3	80.2	79.9	79.1
March.....	70.1	75.9	77.9	77.6
April.....	62.8	67.4	68.9	78.5
May.....	56.4	63.7	67.7	80.5
June.....	67.2	62.5	59.6	82.6
July.....	54.9	57.0	61.3	82.0
August.....	51.7	49.7	74.4	77.6
September.....	57.6	58.7	77.9	75.3
October.....	70.6	75.6	83.1	72.7p
November.....	80.2	85.5	84.6	73.0p
December.....	79.7	87.2	86.0	
1979				
January.....	74.1	82.3	81.4p	
February.....	65.1	77.9	69.5p	
March.....	62.5	60.2p		
April.....	45.1p	50.9p		
May.....	47.7p			
June.....				
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)

State and area	Total			Mining			Construction			Manufacturing		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
1 ALABAMA	1,327.9	1,346.5	1,352.8	15.2	15.7	15.8	79.5	74.4	76.3	362.8	363.8	364.7
2 Birmingham	348.8	354.2	356.3	8.5	9.0	8.9	24.5	21.0	21.9	68.5	69.4	69.4
3 Huntsville	116.8	118.3	119.3	(1)	(1)	(1)	4.1	3.9	4.1	34.6	35.3	35.6
4 Mobile	146.8	149.4	150.0	(1)	(1)	(1)	12.0	12.7	13.2	30.6	30.5	30.4
5 Montgomery	101.2	105.5	106.3	(1)	(1)	(1)	6.5	6.8	7.4	15.7	16.0	16.2
6 Tuscaloosa	49.6	49.5	49.8	1.1	1.0	1.1	2.9	2.8	3.0	9.1	9.0	9.1
7 ALASKA	159.4	155.6	(*)	5.7	5.7	(*)	10.7	7.3	(*)	10.7	9.5	(*)
8 ARIZONA	875.5	951.2	955.3	19.2	20.2	20.5	65.6	78.3	78.6	120.5	135.7	136.6
9 Phoenix	541.4	592.5	594.7	.2	.2	.2	40.8	51.2	51.4	89.3	99.9	100.8
10 Tucson	158.7	172.7	172.7	5.8	6.3	6.4	11.5	13.8	13.8	14.1	17.8	18.0
11 ARKANSAS	728.0	736.4	739.5	4.8	4.9	4.8	37.8	35.6	37.1	217.4	216.9	217.2
12 Fayetteville-Springdale	61.6	61.4	61.7	(1)	(1)	(1)	3.3	3.1	3.1	18.5	18.2	18.2
13 Fort Smith	67.9	67.7	68.6	.8	.8	.8	2.8	2.9	3.1	25.9	25.3	25.5
14 Little Rock-North Little Rock	172.6	174.3	174.6	(1)	(1)	(1)	9.1	8.9	8.9	32.2	30.9	31.0
15 Pine Bluff	31.4	30.9	30.9	(1)	(1)	(1)	2.1	1.9	1.8	6.5	6.3	6.3
16 CALIFORNIA	9,102.5	9,487.6	9,540.0	36.1	37.8	38.1	396.3	417.8	431.5	1,816.2	1,946.6	1,949.2
17 Anaheim-Santa Ana-Garden Grove	736.1	793.8	805.3	2.2	2.3	2.3	44.2	49.0	48.8	191.3	210.2	211.5
18 Bakersfield	117.9	121.8	122.7	9.7	10.3	10.3	6.4	6.9	7.1	8.8	9.5	9.5
19 Fresno	172.9	178.9	181.3	.8	.9	.9	10.2	11.7	12.0	21.8	23.0	23.4
20 Los Angeles-Long Beach	3,402.4	3,545.0	3,549.4	11.1	11.3	11.4	104.3	110.8	111.5	859.7	919.2	920.0
21 Modesto	81.9	84.8	86.3	.1	.1	.1	5.5	5.9	6.1	17.3	18.0	18.4
22 Oxnard-Simi Valley-Ventura	135.9	140.1	141.8	2.3	2.4	2.4	6.7	7.4	7.4	20.0	21.6	21.5
23 Riverside-San Bernardino-Ontario	407.8	428.0	429.6	2.5	2.4	2.4	25.3	28.3	28.8	61.6	66.3	65.8
24 Sacramento	373.7	386.4	390.3	.4	.4	.4	19.7	21.7	22.7	25.9	26.3	27.1
25 Salinas-Seaside-Monterey	83.8	84.1	86.1	.6	.6	.6	3.4	3.5	3.6	9.1	9.6	10.2
26 San Diego	587.1	620.4	624.4	.6	.7	.7	36.4	38.7	40.3	85.8	94.0	95.5
27 San Francisco-Oakland	1,468.2	1,519.7	1,511.1	1.8	2.0	2.0	65.3	68.5	69.7	195.8	204.1	204.0
28 San Jose	575.8	607.3	612.6	.1	.1	.1	22.0	22.3	23.1	188.1	210.2	212.5
29 Santa Barbara-Santa Maria-Lompoc	114.1	115.4	116.0	1.0	1.1	1.1	4.7	4.9	4.9	14.5	15.2	15.2
30 Santa Rosa	81.7	83.5	84.5	.4	.4	.4	4.6	4.5	4.7	12.2	13.4	13.5
31 Stockton	113.2	115.8	116.6	.1	.1	.1	5.6	5.8	6.1	19.1	18.5	18.7
32 Vallejo-Fairfield-Napa	95.3	97.4	98.1	.3	.3	.3	4.1	4.5	4.7	9.6	10.3	10.4
33 COLORADO	1,119.5	1,165.2	1,168.1	26.2	28.8	29.2	68.7	68.9	72.2	161.4	172.7	173.4
34 Denver-Boulder	710.8	739.2	739.8	14.3	16.3	16.4	42.5	43.7	45.8	112.2	118.9	119.5
35 CONNECTICUT	1,337.8	1,374.1	(*)	(2)	(2)	(*)	45.5	42.2	(*)	416.4	434.6	(*)
36 Bridgeport	158.3	161.7	162.9	(2)	(2)	(2)	4.7	4.8	5.7	62.3	65.1	65.0
37 Hartford	366.0	377.1	382.1	(2)	(2)	(2)	11.2	10.8	12.2	86.6	92.0	92.6
38 New Britain	60.5	61.3	61.9	(2)	(2)	(2)	2.0	1.6	1.9	28.6	29.7	29.6
39 New Haven-West Haven	187.6	188.2	190.4	(2)	(2)	(2)	5.9	5.2	5.8	45.1	45.6	45.5
40 Stamford	100.7	104.1	105.4	(2)	(2)	(2)	4.4	4.5	4.9	29.8	30.6	30.9
41 Waterbury	85.3	87.2	89.0	(2)	(2)	(2)	2.8	2.6	3.1	32.5	33.2	33.4
42 DELAWARE	245.3	246.8	249.2	(1)	(1)	(1)	14.5	13.3	14.4	69.7	68.1	68.4
43 Wilmington	218.5	216.1	217.7	(1)	(1)	(1)	15.2	12.8	13.4	65.0	64.0	63.8
44 DISTRICT OF COLUMBIA	589.1	583.7	592.3	(1)	(1)	(1)	14.2	13.9	14.1	15.0	15.1	15.1
45 Washington SMSA	1,439.0	1,452.6	1,471.6	(1)	(1)	(1)	75.2	72.6	75.8	52.0	53.1	53.7
46 FLORIDA	3,126.6	3,278.1	3,256.5	9.4	9.7	9.7	201.2	218.7	212.5	412.8	447.6	445.6
47 Daytona Beach	70.3	75.0	74.7	-	-	-	3.8	4.3	4.2	7.0	8.0	8.0
48 Fort Lauderdale-Hollywood	293.7	306.9	300.5	(1)	(1)	(1)	21.9	24.0	23.6	35.3	37.4	37.4
49 Gainesville	61.0	62.1	62.4	(1)	(1)	(1)	3.1	3.1	3.1	4.2	3.9	3.9
50 Jacksonville	276.7	281.4	280.8	(1)	(1)	(1)	15.8	14.9	15.0	31.6	31.9	32.3
51 Miami	645.6	670.3	665.6	(1)	(1)	(1)	29.0	33.7	31.0	94.7	96.9	95.9
52 Orlando	245.7	261.8	264.5	(1)	(1)	(1)	14.5	15.6	16.1	30.6	34.0	34.2
53 Pensacola	92.5	94.5	94.7	(1)	(1)	(1)	6.0	6.5	6.4	13.2	13.3	13.4
54 Sarasota	61.5	64.1	63.7	(1)	(1)	(1)	6.1	6.7	6.4	5.7	6.7	6.7
55 Tallahassee	67.4	68.9	68.7	(1)	(1)	(1)	3.1	3.4	3.3	2.4	2.5	2.5
56 Tampa-St. Petersburg	478.0	491.8	489.9	(1)	(1)	(1)	30.2	33.0	32.4	65.8	68.1	68.6
57 West Palm Beach-Boca Raton	171.5	185.4	183.9	(1)	(1)	(1)	13.7	16.5	16.4	21.9	25.7	24.9
58 GEORGIA	1,990.6	2,015.9	2,021.6	7.4	7.7	7.8	98.8	95.8	96.1	507.8	515.9	517.2
59 Albany	39.9	44.1	44.0	(1)	(1)	(1)	3.0	4.8	4.5	9.7	11.3	11.4
60 Atlanta	855.4	864.4	865.2	(1)	(1)	(1)	39.1	36.8	36.5	136.8	137.3	138.3
61 Augusta	115.0	120.4	121.6	(1)	(1)	(1)	7.4	6.6	6.8	35.4	36.2	36.1
62 Columbus	79.2	80.7	80.9	(1)	(1)	(1)	4.9	4.8	4.7	19.1	20.6	20.7
63 Macon	95.0	94.0	93.9	(1)	(1)	(1)	4.7	4.3	4.2	15.2	13.9	14.0

See footnotes at end of table.

**ESTABLISHMENT DATA**  
**STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	
68.2	71.2	71.5	265.2	270.4	273.2	57.0	58.6	58.5	191.5	195.1	196.4	288.5	297.3	296.4	1
27.0	28.7	28.7	82.7	85.8	86.4	22.4	22.8	22.9	62.3	64.2	64.8	52.9	53.3	53.3	2
2.5	2.7	2.7	21.3	22.1	22.3	3.5	3.5	3.5	17.6	17.5	17.6	33.2	33.3	33.5	3
11.1	11.3	11.6	35.4	36.0	36.0	6.8	7.3	7.2	26.6	26.9	26.8	24.3	24.7	24.8	4
4.6	4.9	4.9	23.9	24.5	24.4	5.8	6.0	6.0	18.2	18.8	18.9	26.5	28.5	28.5	5
1.8	1.7	1.7	9.7	9.5	9.5	1.6	1.7	1.7	6.0	6.0	6.0	17.4	17.8	17.7	6
16.0	15.4	(*)	27.9	27.3	(*)	7.8	7.4	(*)	27.2	26.8	(*)	53.4	56.3	(*)	7
43.8	47.6	47.6	212.1	227.4	229.0	48.6	51.7	51.9	168.7	186.8	187.1	197.0	203.5	204.0	8
26.2	28.4	28.4	141.6	152.8	153.7	37.4	39.5	39.6	107.5	118.6	118.6	98.4	101.9	102.0	9
7.8	8.6	8.6	36.1	38.1	38.1	6.9	7.5	7.5	33.4	35.9	35.9	43.1	44.7	44.4	10
39.9	42.8	38.8	155.8	158.0	161.3	30.2	30.7	31.1	103.0	109.8	110.6	139.1	137.7	138.6	11
3.2	3.3	3.3	14.4	14.4	14.7	2.1	2.2	2.2	7.8	8.6	8.6	12.3	11.6	11.6	12
3.3	3.2	3.2	14.3	14.4	14.6	2.3	2.4	2.4	10.6	11.1	11.1	7.9	7.6	7.7	13
12.1	12.4	12.0	39.5	40.7	40.8	12.1	12.0	12.1	30.9	33.0	33.3	36.7	36.4	36.5	14
3.7	3.7	3.7	6.1	6.0	6.1	1.2	1.2	1.2	4.6	4.7	4.7	7.2	7.1	7.1	15
494.2	521.5	502.1	2,081.7	2,200.3	2,227.1	541.0	574.6	579.4	1,908.0	2,067.6	2,080.3	1,829.0	1,721.4	1,732.3	16
22.6	25.5	25.7	176.4	191.9	197.7	45.6	50.7	51.4	145.2	159.6	162.4	108.6	104.6	105.5	17
6.8	7.4	7.3	29.7	30.7	31.2	4.4	4.5	4.5	20.0	21.1	21.2	32.1	31.4	31.6	18
9.5	9.9	10.1	44.3	46.8	47.4	9.2	9.8	9.8	33.4	34.4	34.9	43.7	42.4	42.8	19
185.1	198.3	193.5	774.8	813.2	819.5	208.0	216.8	216.8	748.6	795.8	796.2	510.8	479.6	480.5	20
3.5	3.5	3.6	19.3	21.1	21.4	2.8	3.0	3.1	15.3	16.1	16.5	18.1	17.1	17.1	21
5.8	6.1	6.1	31.8	33.4	34.3	5.8	6.1	6.1	25.4	26.7	27.1	38.1	36.4	36.9	22
21.0	22.5	22.4	97.1	103.5	104.1	16.6	17.4	17.5	83.7	89.0	89.4	100.0	98.6	99.2	23
19.2	20.7	21.0	83.2	88.9	89.4	18.0	19.8	20.0	66.1	72.1	72.7	141.2	136.5	137.0	24
4.9	4.8	4.7	21.1	21.0	21.8	3.8	3.9	3.9	17.7	18.1	18.5	23.2	22.6	22.8	25
25.4	27.1	26.4	134.1	146.7	147.6	32.5	34.9	34.9	128.3	137.4	138.2	144.0	140.9	140.8	26
122.4	126.7	110.2	334.8	354.3	357.0	129.9	135.7	136.5	313.5	334.8	337.2	304.7	293.6	294.5	27
19.1	20.4	20.4	111.1	116.6	117.2	22.9	24.5	24.5	126.2	133.2	134.0	86.3	80.0	80.8	28
4.1	4.3	4.3	29.5	30.2	30.3	4.8	4.9	4.9	28.7	30.1	30.4	26.8	24.7	24.9	29
4.0	4.1	4.1	19.4	20.1	20.3	4.9	5.3	5.3	15.7	16.2	16.3	20.5	19.5	19.9	30
7.5	8.1	8.0	25.5	27.1	27.2	4.6	4.9	5.0	22.1	23.7	23.7	28.7	27.6	27.8	31
4.2	4.2	4.2	18.8	20.1	20.2	3.2	3.5	3.5	17.2	17.4	17.7	37.9	37.1	37.1	32
67.2	72.3	69.4	279.7	287.9	288.8	66.6	70.3	70.9	229.1	241.0	242.1	220.6	223.4	222.1	33
46.6	50.7	47.7	177.6	182.1	182.5	47.4	49.8	50.2	147.2	155.1	155.8	122.9	122.6	121.8	34
58.0	58.4	(*)	280.3	287.2	(*)	93.9	97.3	(*)	260.2	266.2	(*)	183.7	188.2	(*)	35
5.8	6.0	6.1	32.0	31.9	32.2	6.4	6.5	6.5	30.3	30.5	30.6	16.7	16.9	16.9	36
14.7	15.0	15.1	76.5	78.5	79.6	53.7	56.1	56.3	70.4	72.5	74.1	52.9	52.2	52.1	37
1.5	1.5	1.5	10.4	10.2	10.5	1.6	1.6	1.7	9.2	9.7	9.7	7.2	7.0	7.0	38
15.2	15.2	15.3	39.2	39.7	40.1	10.0	10.5	10.8	45.3	45.2	46.1	26.9	26.9	27.1	39
3.5	3.7	3.7	23.2	23.9	24.2	6.9	7.2	7.3	23.2	24.2	24.6	9.7	10.0	9.9	40
3.0	3.0	3.1	15.3	15.6	15.8	3.1	3.2	3.2	17.3	18.2	18.9	11.3	11.5	11.6	41
12.4	13.0	12.9	52.8	53.9	54.2	11.1	11.4	11.4	40.9	42.1	42.7	44.0	45.0	45.1	42
12.2	12.3	12.2	43.8	43.6	43.9	10.2	10.1	10.1	36.0	37.1	37.9	36.2	36.2	36.3	43
25.4	25.7	25.7	64.8	65.2	65.6	33.4	34.1	33.8	160.2	161.2	163.2	276.1	268.5	274.8	44
63.3	65.0	64.4	275.7	281.9	285.0	83.8	86.7	87.0	356.9	364.3	368.3	532.1	529.0	537.4	45
192.9	202.5	203.0	819.2	841.4	836.9	215.6	232.9	233.3	686.7	720.0	711.2	588.8	605.3	604.3	46
2.6	2.8	2.9	20.6	20.9	20.9	3.8	4.2	4.2	19.1	20.5	20.2	13.4	14.3	14.3	47
14.1	15.2	15.1	84.5	87.3	85.1	23.1	25.3	25.3	71.5	74.5	71.6	43.3	43.2	42.4	48
1.5	1.5	1.5	12.9	12.0	12.3	2.5	2.6	2.7	7.9	8.3	8.4	28.9	30.7	30.5	49
22.3	23.1	22.5	71.7	73.0	72.6	27.3	28.1	28.1	53.9	55.0	54.9	54.1	55.4	55.4	50
61.6	66.8	66.8	165.4	168.8	169.0	46.4	48.4	48.8	156.7	162.9	161.6	91.8	92.8	92.5	51
11.8	13.1	12.9	68.9	72.2	73.2	15.9	17.7	17.7	63.4	67.5	68.8	40.6	41.7	41.6	52
4.5	4.9	4.9	21.7	22.1	22.2	4.1	4.1	4.2	17.6	17.7	17.8	25.4	25.9	25.8	53
2.7	2.7	2.7	18.3	18.6	18.4	4.8	4.8	4.8	14.7	15.0	15.0	9.2	9.6	9.7	54
2.2	2.2	2.2	13.6	13.5	13.7	3.1	3.1	3.1	9.1	9.7	9.6	33.9	34.5	34.3	55
27.4	28.3	28.3	134.1	136.5	135.8	33.6	36.1	36.1	108.0	111.6	110.7	78.9	78.2	78.0	56
7.4	7.9	7.9	45.0	47.6	47.5	13.2	14.4	14.3	40.6	42.7	42.2	29.7	30.6	30.7	57
126.1	127.2	127.6	456.1	461.0	462.2	101.4	104.5	104.6	298.6	302.9	304.5	394.4	401.0	401.7	58
1.8	1.8	1.8	9.2	9.3	9.5	1.7	1.7	1.8	5.0	4.9	4.8	9.6	10.2	10.2	59
75.3	77.0	77.0	238.1	238.9	238.8	58.6	60.6	60.5	158.4	159.9	160.1	149.1	153.8	154.0	60
4.1	4.2	4.2	20.3	24.9	25.2	4.2	4.3	4.3	14.6	15.6	16.2	28.9	28.6	28.9	61
3.3	3.4	3.4	17.3	17.2	17.3	5.1	5.3	5.3	10.7	10.4	10.4	18.9	19.1	19.1	62
4.5	4.5	4.5	19.6	19.7	19.5	5.8	5.8	5.7	15.1	14.9	15.0	30.1	30.9	31.0	63

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	APR-1978	MAR-1979	APR-1979P	APR-1978	MAR-1979	APR-1979P	APR-1978	MAR-1979	APR-1979P	APR-1978	MAR-1979	APR-1979P
<b>GEORGIA—Continued</b>												
1 Savannah	83.8	83.8	84.0	(1)	(1)	(1)	5.8	5.4	5.4	16.9	16.7	16.7
<b>HAWAII</b>												
2 Honolulu	373.4	380.9	380.1	(1)	(1)	(1)	19.9	21.9	21.7	22.7	23.2	22.9
3 Honolulu	310.1	315.4	314.7	(1)	(1)	(1)	16.7	18.5	18.2	16.6	16.9	16.8
<b>IDAHO</b>												
4 Boise City	319.9	334.6	339.3	3.7	3.9	3.9	18.9	17.5	19.3	55.4	56.3	56.9
5 Boise City	78.0	83.7	84.9	(1)	(1)	(1)	6.3	6.4	6.5	9.0	9.5	9.9
<b>ILLINOIS</b>												
6 Chicago-Gary	4,726.3	4,792.0	4,822.0	27.2	27.4	27.6	164.3	152.6	164.5	1,230.3	1,242.8	1,244.0
7 Bloomington-Normal	48.2	48.3	48.7	(2)	(2)	(2)	1.4	1.0	1.1	6.4	6.3	6.4
8 Champaign-Urbana-Rantoul	69.5	72.0	72.3	(2)	(2)	(2)	2.5	2.5	2.7	7.6	7.9	7.8
9 Chicago-Gary	3,368.2	3,429.4	(*)	4.9	5.3	(*)	132.0	128.4	(*)	934.4	947.8	(*)
10 Chicago SMSA <sup>3</sup>	3,117.5	3,176.0	3,195.2	4.8	4.8	4.9	116.9	113.7	123.7	833.9	843.2	845.6
11 Davenport-Rock Island-Moline	156.3	161.7	162.9	(2)	(2)	(2)	7.1	6.6	7.2	46.1	50.0	50.0
12 Decatur	54.0	54.9	55.3	(2)	(2)	(2)	2.9	2.9	3.1	19.0	19.5	19.4
13 Kankakee	33.7	33.8	33.7	(2)	(2)	(2)	1.0	.9	1.0	10.4	10.1	10.1
14 Peoria	148.3	150.0	151.2	(2)	(2)	(2)	8.1	8.2	8.7	51.3	51.7	51.6
15 Rockford	117.9	121.2	121.6	(2)	(2)	(2)	3.1	2.8	2.9	53.6	56.8	56.8
16 Springfield	83.1	82.4	83.0	(2)	(2)	(2)	3.7	3.3	3.8	8.8	7.8	7.8
<b>INDIANA</b>												
17 Anderson	2,169.5	2,212.9	2,229.7	9.4	9.6	10.0	89.1	97.3	102.8	731.5	748.8	749.2
18 Evansville	53.2	52.4	52.4	(1)	(1)	(1)	1.1	.9	1.0	26.3	25.6	25.1
19 Fort Wayne	125.6	123.3	122.7	2.5	2.4	2.4	7.1	7.0	5.5	40.5	38.8	39.0
20 Gary-Hammond-East Chicago <sup>3</sup>	172.2	174.3	177.6	(1)	(1)	(1)	6.7	6.5	7.1	60.6	61.8	63.4
21 Indianapolis	253.0	257.0	260.8	(1)	(1)	(1)	15.1	14.9	15.9	100.5	104.8	105.5
22 Lafayette-West Lafayette	504.2	509.5	507.5	(1)	(1)	(1)	17.6	15.4	16.9	128.5	131.4	129.7
23 Muncie	56.6	58.0	58.6	(1)	(1)	(1)	1.6	1.6	1.9	12.3	12.5	12.5
24 South Bend	48.8	49.4	50.2	(1)	(1)	(1)	1.7	1.6	1.8	13.9	14.6	14.7
25 Terre Haute	111.6	112.9	112.9	(1)	(1)	(1)	4.5	4.6	4.6	34.5	34.3	34.4
26 Terre Haute	62.9	62.9	64.1	1.3	1.5	1.5	2.2	2.1	2.5	17.0	16.7	16.8
<b>IOWA</b>												
27 Cedar Rapids	1,103.1	1,114.9	1,129.9	2.3	2.0	2.2	54.9	48.6	54.9	248.1	257.9	258.2
28 Des Moines	82.0	84.8	85.2	(1)	(1)	(1)	4.0	3.7	4.0	28.3	30.0	30.0
29 Dubuque	178.2	179.8	180.4	(1)	(1)	(1)	8.2	7.3	7.5	25.3	26.4	26.3
30 Sioux City	43.7	44.5	44.7	(1)	(1)	(1)	1.8	1.8	1.9	16.6	17.3	17.4
31 Waterloo-Cedar Falls	51.3	50.3	51.1	(1)	(1)	(1)	4.0	3.0	3.6	9.9	9.6	9.5
32 Waterloo-Cedar Falls	64.7	67.9	68.6	(1)	(1)	(1)	2.9	2.4	2.6	22.0	22.9	23.2
<b>KANSAS</b>												
33 Lawrence	911.7	935.6	943.3	12.4	12.4	12.5	46.4	44.9	48.5	183.3	199.4	199.6
34 Topeka	26.7	27.7	27.9	(2)	(2)	(2)	1.2	1.2	1.2	4.2	4.6	4.6
35 Wichita	84.3	86.0	86.7	.2	.3	.3	3.6	3.4	3.8	11.7	12.2	12.2
36 Wichita	187.8	200.8	202.8	2.1	2.0	2.0	9.4	10.5	11.2	56.8	65.6	66.2
<b>KENTUCKY</b>												
37 Lexington-Fayette	1,220.3	1,250.4	1,263.5	57.9	56.9	56.8	67.2	64.9	69.3	289.1	290.9	293.8
38 Louisville	140.6	146.7	151.8	(1)	(1)	(1)	7.7	7.0	8.8	30.0	31.2	30.8
39 Owensboro	392.3	402.8	411.4	(1)	(1)	(1)	19.5	19.3	20.7	110.5	108.4	111.0
40 Owensboro	30.1	31.5	31.4	.8	.7	.7	2.2	2.2	2.3	7.0	7.1	6.9
<b>LOUISIANA</b>												
41 Alexandria	1,411.3	1,434.9	1,438.7	70.7	77.6	77.6	119.0	120.4	121.6	204.2	208.7	207.6
42 Baton Rouge	50.3	51.2	51.1	(1)	(1)	(1)	3.1	3.1	3.1	6.2	6.3	6.2
43 Lafayette	186.9	187.9	186.9	.9	1.0	.9	23.8	25.1	24.5	24.6	25.1	24.9
44 Lake Charles	61.7	65.6	66.0	11.2	11.7	11.9	4.8	5.8	5.6	3.3	3.7	3.7
45 Monroe	57.8	58.6	58.4	1.8	1.9	1.9	5.7	5.4	5.3	12.1	12.5	12.2
46 New Orleans	48.6	49.6	49.6	.4	.3	.3	4.6	4.4	4.3	8.4	8.9	8.9
47 Shreveport	474.4	479.7	479.5	15.4	16.0	16.0	28.8	28.5	28.4	50.8	52.5	52.4
48 Shreveport	138.7	141.6	141.9	4.9	5.5	5.5	9.2	10.2	10.2	28.1	27.7	27.5
<b>MAINE</b>												
49 Lewiston-Auburn	396.4	399.1	404.6	(1)	(1)	(1)	17.3	14.4	16.1	108.9	112.1	112.5
50 Portland	33.8	34.2	34.9	(1)	(1)	(1)	1.3	1.1	1.2	12.3	12.2	12.5
51 Portland	83.9	86.6	87.2	(1)	(1)	(1)	3.7	3.4	3.7	16.1	17.2	17.1
<b>MARYLAND</b>												
52 Baltimore	1,584.2	1,596.7	1,620.0	(1)	(1)	(1)	97.7	97.6	103.3	239.8	243.5	243.1
53 Baltimore	877.9	884.9	894.6	(1)	(1)	(1)	47.5	46.9	50.7	163.9	164.1	162.8
<b>MASSACHUSETTS</b>												
54 Boston	2,474.9	2,527.8	(*)	(1)	(1)	(*)	69.4	64.1	(*)	641.8	657.9	(*)
55 Brockton	1,348.1	1,369.1	(*)	(1)	(1)	(*)	39.6	35.7	(*)	277.5	285.6	(*)
56 Fall River	56.1	58.4	(*)	(1)	(1)	(*)	1.8	1.4	(*)	12.1	12.5	(*)
57 Lawrence-Haverhill	55.6	57.1	(*)	(1)	(1)	(*)	1.1	1.1	(*)	20.8	21.5	(*)
58 Lowell	106.8	107.1	(*)	(1)	(1)	(*)	2.3	2.0	(*)	39.9	38.6	(*)
59 New Bedford	67.7	69.7	(*)	(1)	(1)	(*)	2.3	1.9	(*)	22.8	24.2	(*)
60 Springfield-Chicopee-Holyoke	61.7	62.2	(*)	(1)	(1)	(*)	1.6	1.8	(*)	25.0	25.7	(*)
61 Springfield-Chicopee-Holyoke	224.7	226.0	(*)	(1)	(1)	(*)	5.1	4.3	(*)	65.5	65.9	(*)

See footnotes at end of table.



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	
8.8	9.7	9.7	18.9	19.2	19.4	3.9	4.1	4.2	13.7	13.5	13.5	15.7	15.2	15.2	1
28.3	28.7	28.2	96.4	96.2	96.4	28.4	29.3	29.2	89.2	92.8	92.3	88.5	88.8	89.4	2
23.2	23.8	23.3	80.6	80.0	80.1	24.8	25.7	25.6	72.7	74.9	74.5	75.5	75.6	76.2	3
18.9	20.4	20.6	79.5	83.7	84.3	19.7	22.8	22.9	55.6	59.4	59.9	68.2	70.6	71.5	4
4.7	4.6	4.7	20.5	21.5	21.8	7.5	9.3	9.4	12.9	14.2	14.5	17.1	18.2	18.1	5
287.0	293.5	292.1	1,084.8	1,085.2	1,093.9	281.9	291.3	293.2	883.7	907.4	915.3	767.1	791.9	791.3	6
3.0	3.1	3.1	11.1	11.4	11.4	7.3	7.4	7.4	7.0	7.2	7.2	11.9	11.8	12.1	7
2.4	2.6	2.6	15.5	16.4	16.6	2.2	2.3	2.3	9.2	9.3	9.4	30.1	30.9	30.8	8
207.9	213.8	(*)	753.3	759.2	(*)	211.3	217.0	(*)	646.6	661.3	(*)	478.1	496.9	(*)	9
193.4	199.2	198.7	704.6	710.4	715.4	202.6	208.8	209.1	612.6	627.2	631.5	448.8	468.7	466.4	10
6.8	7.8	7.8	40.6	41.4	41.8	6.6	6.6	6.6	23.5	23.3	23.5	25.6	26.0	26.0	11
4.4	4.6	4.7	11.1	11.2	11.3	2.5	2.6	2.6	8.5	8.6	8.7	5.6	5.5	5.5	12
1.4	1.4	1.4	7.8	7.8	7.8	1.0	1.0	1.0	6.3	6.4	6.5	5.8	6.1	6.0	13
7.5	7.7	7.7	35.2	35.3	35.9	7.3	7.5	7.5	26.0	26.6	26.8	12.9	13.0	13.0	14
5.3	5.2	5.1	24.3	24.2	24.4	3.9	4.1	4.1	15.6	16.0	16.1	12.1	12.1	12.2	15
4.8	4.7	4.7	18.8	19.2	19.3	6.6	6.7	6.7	15.4	15.8	15.8	24.9	24.9	24.9	16
107.1	109.8	108.2	469.0	473.4	479.8	94.9	98.4	98.8	310.3	317.0	321.8	358.1	358.6	359.0	17
1.5	1.5	1.5	10.2	10.3	10.6	1.7	1.7	1.7	6.7	6.7	6.8	5.7	5.7	5.7	18
6.6	6.7	6.3	29.2	29.1	29.7	4.2	4.3	4.3	23.0	22.8	23.3	12.5	12.2	12.2	19
10.7	10.9	10.9	40.3	40.7	41.3	9.4	9.7	9.8	26.8	26.8	27.1	17.7	17.9	18.0	20
14.5	14.5	14.9	48.7	48.7	49.9	8.7	8.9	8.9	34.0	34.0	34.3	31.5	31.2	31.4	21
30.2	30.5	25.7	122.4	124.7	126.7	34.4	34.7	35.0	82.6	85.0	86.2	88.5	87.8	87.3	22
1.5	1.6	1.6	11.1	11.3	11.5	2.7	2.8	2.7	8.3	8.8	8.9	19.1	19.4	19.5	23
2.1	2.2	2.1	11.2	11.0	11.3	1.5	1.5	1.5	7.3	7.3	7.5	11.1	11.2	11.3	24
5.2	5.3	4.9	26.5	27.3	27.5	5.0	5.1	5.1	22.9	23.1	23.3	13.0	13.2	13.1	25
3.9	3.9	4.0	15.4	15.9	16.0	2.0	2.0	2.0	8.8	8.7	9.0	12.3	12.1	12.3	26
55.5	56.1	56.2	280.3	282.2	288.2	54.2	56.3	56.7	195.5	199.3	201.2	212.3	212.6	212.3	27
4.0	3.9	3.9	17.8	18.3	18.3	4.2	4.3	4.3	14.6	14.9	14.9	9.2	9.8	9.8	28
11.3	11.3	11.3	47.6	47.0	47.7	19.4	20.0	20.0	37.1	37.9	37.9	29.2	29.8	29.6	29
1.6	1.5	1.4	8.9	9.1	9.2	1.3	1.3	1.3	9.4	9.2	9.3	4.0	4.2	4.3	30
3.9	4.0	4.0	13.4	13.2	13.4	2.7	2.7	2.8	10.7	11.0	11.1	6.7	6.7	6.7	31
2.6	2.5	2.5	14.0	14.7	14.7	2.0	2.0	2.0	10.2	10.6	10.7	11.1	12.8	12.7	32
62.6	65.8	65.7	217.6	220.2	222.4	44.3	46.1	46.3	155.6	160.5	162.5	189.5	186.3	185.8	33
1.4	1.4	1.4	5.4	5.5	5.6	.8	.8	.8	3.3	3.3	3.4	10.6	10.9	10.9	34
7.3	7.5	7.5	18.6	18.9	19.0	5.7	5.7	5.8	16.0	16.6	16.7	21.4	21.4	21.4	35
10.2	10.5	10.5	42.1	43.5	43.9	8.9	9.2	9.3	35.3	36.4	36.7	23.2	23.1	23.0	36
66.3	69.3	64.8	258.4	271.6	273.0	48.2	49.6	50.2	198.8	206.2	212.3	234.4	241.0	243.3	37
6.7	7.1	7.2	31.4	31.6	33.0	6.6	7.0	7.0	25.9	27.1	29.0	32.3	35.7	36.0	38
23.9	24.6	24.6	88.3	94.3	97.4	21.5	22.2	22.5	71.6	73.9	75.0	57.0	60.0	60.3	39
2.1	2.2	2.2	7.5	8.0	8.0	1.2	1.2	1.1	5.0	5.8	5.9	4.3	4.3	4.3	40
108.7	110.7	109.1	334.6	339.0	341.4	68.7	71.3	71.7	238.7	245.9	246.5	266.7	261.3	263.2	41
2.4	2.5	2.6	10.9	11.1	11.1	3.1	3.2	3.2	9.4	9.8	9.8	15.2	15.2	15.1	42
9.5	9.2	9.2	39.8	38.8	38.5	10.5	10.9	11.1	28.2	27.2	27.2	49.6	50.6	50.6	43
4.3	4.5	4.6	16.0	16.9	17.1	1.9	2.1	2.1	11.7	11.6	11.6	8.5	9.4	9.4	44
2.9	3.1	3.0	12.9	13.0	13.0	2.4	2.5	2.5	9.5	9.5	9.5	10.5	10.7	11.0	45
2.3	2.4	2.4	12.5	12.4	12.7	3.2	3.4	3.3	7.4	8.0	8.0	9.8	9.8	9.7	46
48.1	48.8	47.8	118.5	119.3	119.4	28.1	28.8	29.0	104.3	106.9	107.3	80.4	78.9	79.2	47
9.3	10.0	10.0	33.9	34.2	34.4	6.5	6.6	6.7	23.3	23.6	23.6	23.5	23.8	24.0	48
17.8	17.9	18.2	86.5	86.7	88.8	15.4	15.9	16.0	67.8	68.9	69.7	82.7	83.2	83.3	49
1.1	1.1	1.1	7.7	7.8	8.0	1.4	1.5	1.5	6.5	6.9	7.1	3.5	3.6	3.5	50
5.1	5.1	5.1	22.5	23.0	22.9	6.6	6.9	7.0	17.2	17.9	18.1	12.7	13.1	13.3	51
82.7	86.5	86.7	374.1	373.8	380.6	84.8	86.7	88.3	315.2	324.0	329.2	389.9	384.6	388.8	52
57.4	61.7	61.6	192.6	190.4	192.0	51.5	52.8	53.5	168.1	173.9	176.2	196.9	195.1	197.8	53
116.6	116.4	(*)	544.0	560.1	(*)	141.3	145.2	(*)	565.0	581.4	(*)	396.8	402.7	(*)	54
68.0	67.2	(*)	297.5	300.1	(*)	97.6	100.3	(*)	364.0	378.6	(*)	203.9	201.6	(*)	55
3.9	4.1	(*)	14.9	15.4	(*)	2.1	2.2	(*)	8.7	9.0	(*)	12.6	13.8	(*)	56
1.9	2.0	(*)	12.3	13.0	(*)	2.7	2.8	(*)	8.8	8.7	(*)	8.0	8.0	(*)	57
4.1	4.2	(*)	22.1	23.1	(*)	3.6	3.7	(*)	15.1	13.8	(*)	19.7	21.7	(*)	58
3.1	3.1	(*)	15.1	15.2	(*)	2.0	2.1	(*)	10.3	10.1	(*)	12.1	13.1	(*)	59
2.5	2.5	(*)	11.9	11.4	(*)	1.9	1.9	(*)	8.8	8.6	(*)	10.0	10.3	(*)	60
9.4	9.8	(*)	45.8	44.6	(*)	11.4	11.5	(*)	41.7	41.1	(*)	45.8	48.8	(*)	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		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>MASSACHUSETTS—Continued</b>												
1 Worcester .....	155.6	159.0	(*)	(1)	(1)	(*)	3.8	3.2	(*)	46.3	48.0	(*)
<b>MICHIGAN</b> .....	3,509.0	3,564.1	(*)	13.6	13.2	(*)	133.2	129.3	(*)	1,136.1	1,160.4	(*)
3 Ann Arbor .....	130.8	137.7	(*)	(1)	(1)	(*)	2.9	2.4	(*)	42.2	45.8	(*)
4 Battle Creek .....	66.4	67.8	(*)	(1)	(1)	(*)	1.5	1.4	(*)	23.7	24.3	(*)
5 Bay City .....	36.0	37.0	(*)	(1)	(1)	(*)	1.4	1.3	(*)	11.1	11.6	(*)
6 Detroit .....	1,730.6	1,745.0	(*)	1.2	1.2	(*)	65.2	64.1	(*)	582.3	578.2	(*)
7 Flint .....	199.1	207.2	(*)	(1)	(1)	(*)	6.4	6.7	(*)	86.6	91.4	(*)
8 Grand Rapids .....	244.8	251.1	(*)	(1)	(1)	(*)	9.7	9.7	(*)	86.7	91.3	(*)
9 Jackson .....	51.0	53.6	(*)	(1)	(1)	(*)	1.1	1.1	(*)	16.2	17.6	(*)
10 Kalamazoo-Portage .....	106.6	108.5	(*)	(1)	(1)	(*)	4.4	4.1	(*)	35.5	37.0	(*)
11 Lansing-East Lansing .....	185.4	191.3	(*)	(1)	(1)	(*)	4.6	4.3	(*)	41.9	45.3	(*)
12 Muskegon-Norton Shores-Musk. Hgts. ....	58.8	61.5	(*)	(1)	(1)	(*)	2.3	2.5	(*)	21.0	23.2	(*)
13 Saginaw .....	90.3	94.3	(*)	(1)	(1)	(*)	2.5	2.7	(*)	37.0	38.8	(*)
<b>MINNESOTA</b> .....	1,659.8	1,696.5	1,725.7	15.6	16.3	16.9	70.1	68.5	75.4	350.0	367.1	370.0
15 Duluth-Superior .....	60.0	60.0	60.7	(1)	(1)	(1)	2.2	2.0	2.3	8.1	8.5	8.8
16 Minneapolis-St. Paul .....	1,008.1	1,034.8	1,052.1	(1)	(1)	(1)	38.9	39.6	43.5	228.3	238.1	239.7
<b>MISSISSIPPI</b> .....	802.7	828.7	833.3	8.5	9.1	9.2	43.8	47.4	48.2	235.7	233.3	233.9
18 Jackson .....	137.8	143.4	144.0	1.1	1.1	1.1	7.4	9.1	9.1	18.7	18.8	18.6
<b>MISSOURI</b> .....	1,924.5	1,937.1	1,954.8	7.9	8.6	8.6	79.4	76.8	82.2	452.4	456.8	456.8
20 Kansas City .....	615.3	620.8	626.9	.5	.5	.5	27.3	27.4	31.1	123.1	126.4	126.4
21 St. Joseph .....	36.9	36.1	36.1	(2)	(2)	(2)	2.1	1.6	1.9	9.7	9.3	9.1
22 St. Louis .....	963.3	972.5	976.4	2.4	2.6	2.6	38.6	41.2	42.6	253.8	256.1	256.4
23 Springfield .....	81.0	83.0	83.9	(2)	(2)	(2)	3.6	3.7	4.4	18.3	18.4	18.4
<b>MONTANA</b> .....	271.8	277.1	283.7	6.5	7.5	7.8	15.3	14.0	16.2	24.7	26.4	26.4
25 Billings .....	44.7	44.9	45.2	(1)	(1)	(1)	2.3	2.1	2.1	4.0	4.0	4.0
26 Great Falls .....	29.4	30.0	30.6	(1)	(1)	(1)	1.5	1.6	1.6	1.8	1.8	1.8
<b>NEBRASKA</b> .....	599.9	602.4	609.7	1.7	1.5	1.5	31.9	27.1	31.4	91.5	94.8	95.3
28 Lincoln .....	96.3	98.4	98.5	(2)	(2)	(2)	4.4	4.0	4.5	13.1	13.8	13.8
29 Omaha .....	253.0	254.9	257.4	(2)	(2)	(2)	12.1	10.0	11.0	35.1	35.7	36.0
<b>NEVADA</b> .....	335.5	370.9	374.7	4.4	3.9	3.9	25.2	28.2	29.0	17.0	19.0	19.1
31 Las Vegas .....	181.7	198.9	199.9	.2	.2	.2	13.2	15.1	15.4	6.1	6.9	6.9
32 Reno .....	98.1	110.7	112.1	.5	.6	.6	8.5	8.6	8.8	7.6	8.4	8.4
<b>NEW HAMPSHIRE</b> .....	353.2	364.4	370.2	.4	.3	.4	16.9	15.9	18.1	109.0	111.6	112.4
34 Manchester .....	70.9	70.8	72.4	(2)	(2)	(2)	3.1	2.8	3.3	19.1	18.5	19.1
35 Nashua .....	54.5	56.4	58.0	(2)	(2)	(2)	2.5	2.6	3.1	24.3	25.5	25.9
<b>NEW JERSEY</b> .....	(*)	2,977.0	2,996.2	(*)	2.4	2.6	(*)	103.2	112.2	(*)	796.2	795.7
37 Atlantic City .....	(*)	70.5	73.7	-	-	-	(*)	4.2	4.8	(*)	8.2	8.3
38 Camden <sup>4</sup> .....	(*)	325.4	329.0	(*)	.1	.1	(*)	12.1	13.6	(*)	70.0	70.2
39 Hackensack <sup>2</sup> .....	(*)	390.0	392.1	(*)	(1)	(1)	(*)	11.7	12.3	(*)	113.7	113.9
40 Jersey City <sup>5</sup> .....	(*)	231.1	229.9	(*)	-	-	(*)	3.7	3.8	(*)	69.7	68.3
41 Long Branch-Asbury Park .....	(*)	150.1	152.6	(*)	(1)	(1)	(*)	5.6	6.0	(*)	23.3	22.9
42 New Bruns. Perth Amboy-Sayreville <sup>5</sup> .....	(*)	280.6	282.4	(*)	(1)	(1)	(*)	10.0	10.7	(*)	90.9	90.5
43 Newark <sup>5</sup> .....	(*)	930.7	933.0	(*)	.9	.8	(*)	29.7	32.1	(*)	256.1	256.6
44 Paterson-Clifton-Passaic <sup>5</sup> .....	(*)	194.3	196.3	(*)	(1)	(1)	(*)	5.9	6.7	(*)	69.0	69.6
45 Trenton .....	(*)	164.2	165.3	(*)	(1)	(1)	(*)	2.5	2.9	(*)	37.6	37.6
46 Vineland-Millville-Bridgeton .....	(*)	57.1	57.4	(*)	(1)	(1)	(*)	1.4	1.6	(*)	19.4	19.6
<b>NEW MEXICO</b> .....	439.1	454.5	458.7	24.0	25.8	26.0	34.6	34.8	35.6	32.9	34.5	34.7
48 Albuquerque .....	176.1	182.8	184.1	(1)	(1)	(1)	14.6	14.2	14.6	17.0	17.4	17.4
<b>NEW YORK</b> .....	6,969.5	7,004.9	(*)	6.2	5.6	(*)	183.4	173.9	(*)	1,470.4	1,488.0	(*)
50 Albany-Schenectady-Troy .....	330.9	327.3	(*)	(1)	(1)	(*)	9.7	8.6	(*)	63.5	60.2	(*)
51 Binghamton .....	115.2	118.0	(*)	(1)	(1)	(*)	3.8	4.1	(*)	41.3	42.6	(*)
52 Buffalo .....	502.1	506.6	(*)	(1)	(1)	(*)	16.6	15.2	(*)	142.7	145.7	(*)
53 Elmira .....	37.4	37.3	(*)	(1)	(1)	(*)	1.2	1.0	(*)	11.5	11.8	(*)
54 Monroe County <sup>4</sup> .....	325.7	332.7	(*)	(1)	(1)	(*)	9.0	8.3	(*)	129.0	134.1	(*)
55 Nassau-Suffolk <sup>7</sup> .....	859.9	863.2	(*)	(1)	(1)	(*)	33.1	29.5	(*)	156.3	160.7	(*)
56 New York-Northeastern New Jersey .....	(*)	6,532.1	(*)	(*)	3.0	(*)	(*)	168.1	(*)	(*)	1,380.9	(*)
57 New York and Nassau-Suffolk <sup>5</sup> .....	4,489.9	4,505.4	(*)	1.6	1.7	(*)	110.3	107.2	(*)	778.8	782.5	(*)
58 New York SMSA <sup>7</sup> .....	3,630.0	3,642.2	(*)	1.5	1.5	(*)	77.2	77.7	(*)	622.5	621.9	(*)
59 New York City <sup>8</sup> .....	3,213.6	3,223.4	(*)	1.3	1.3	(*)	62.0	64.7	(*)	535.7	532.0	(*)
60 Poughkeepsie .....	91.3	93.6	(*)	(1)	(1)	(*)	2.8	2.4	(*)	30.2	31.4	(*)
61 Rochester .....	400.6	406.1	(*)	(1)	(1)	(*)	10.9	9.7	(*)	148.6	154.1	(*)

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	
6.9	7.0	(*)	33.2	34.1	(*)	8.4	8.5	(*)	29.6	30.1	(*)	27.4	28.1	(*)	1
149.8	153.0	(*)	704.5	704.1	(*)	142.9	146.7	(*)	590.3	614.8	(*)	638.6	642.7	(*)	2
2.2	2.3	(*)	18.0	18.7	(*)	3.6	4.0	(*)	17.8	18.5	(*)	44.1	46.0	(*)	3
2.2	2.3	(*)	11.0	11.3	(*)	3.6	3.6	(*)	11.5	12.0	(*)	12.9	12.9	(*)	4
2.1	1.9	(*)	9.0	9.0	(*)	1.1	1.2	(*)	6.1	6.3	(*)	5.2	5.7	(*)	5
82.6	83.3	(*)	339.4	339.2	(*)	82.5	83.8	(*)	318.4	332.0	(*)	259.0	263.2	(*)	6
6.1	6.1	(*)	38.1	40.0	(*)	5.6	5.9	(*)	28.1	28.4	(*)	28.2	28.7	(*)	7
9.7	10.0	(*)	55.5	55.6	(*)	8.6	8.9	(*)	43.8	44.5	(*)	30.8	31.1	(*)	8
4.4	4.4	(*)	9.9	10.4	(*)	1.6	1.8	(*)	9.2	9.8	(*)	8.6	8.5	(*)	9
3.4	3.4	(*)	19.6	20.1	(*)	3.7	3.8	(*)	18.0	18.1	(*)	22.0	22.0	(*)	10
4.4	4.5	(*)	33.3	34.2	(*)	8.6	9.4	(*)	25.0	25.6	(*)	67.6	68.0	(*)	11
3.0	3.0	(*)	11.2	11.4	(*)	1.7	1.8	(*)	8.9	8.6	(*)	10.7	11.0	(*)	12
3.9	4.1	(*)	17.8	18.5	(*)	3.9	4.1	(*)	12.5	12.5	(*)	12.7	13.6	(*)	13
95.1	97.9	97.8	419.3	423.4	433.5	85.0	89.2	90.2	328.3	337.0	344.3	296.4	297.0	297.6	14
6.3	5.3	5.5	15.8	16.5	16.5	2.2	2.2	2.2	12.5	11.9	11.9	12.8	13.5	13.5	15
61.1	63.8	62.9	251.8	253.9	260.3	63.2	66.4	66.9	209.4	216.9	222.6	155.4	156.1	156.1	16
37.2	38.8	38.8	157.2	161.6	163.7	31.0	32.1	32.0	113.9	117.7	118.8	175.5	188.7	188.6	17
8.6	8.8	8.8	34.4	35.5	36.1	10.6	11.0	11.0	26.1	27.0	27.2	30.9	32.2	32.1	18
134.9	137.7	136.6	456.2	457.4	464.6	101.8	102.8	104.1	348.7	350.8	355.3	343.2	346.2	346.6	19
53.8	53.8	53.9	156.0	155.7	155.6	40.8	42.1	42.1	119.6	121.4	123.6	94.2	93.5	93.7	20
2.2	2.1	2.1	9.0	9.0	8.9	1.8	1.9	1.9	6.0	6.1	6.1	6.1	6.1	6.1	21
67.4	70.4	69.5	218.7	217.7	218.8	52.5	53.2	53.5	190.4	193.6	194.9	139.5	137.7	138.1	22
6.2	6.3	6.3	22.3	22.8	23.4	3.2	3.3	3.3	15.9	16.4	16.1	11.5	12.1	12.0	23
20.5	22.0	21.9	69.8	72.1	74.5	11.8	12.8	13.0	51.1	52.5	53.2	72.1	69.8	70.7	24
3.8	4.2	4.2	15.1	15.5	15.7	2.1	2.2	2.2	9.3	9.4	9.4	8.1	7.5	7.6	25
1.9	1.9	1.9	9.7	9.9	10.1	2.0	2.0	2.0	6.4	6.6	6.9	6.1	6.2	6.3	26
42.8	44.8	45.0	154.8	154.2	156.9	38.8	39.9	40.1	108.4	108.9	110.5	130.0	131.2	129.0	27
6.5	6.7	6.8	21.4	21.8	22.3	6.9	6.9	7.0	16.1	16.1	16.6	27.9	29.1	27.5	28
22.7	23.4	23.6	66.0	66.8	67.9	22.6	23.5	23.6	53.2	54.6	54.8	41.3	40.9	40.5	29
20.3	23.0	22.7	65.8	73.5	74.3	13.8	15.5	15.6	137.2	153.8	156.2	51.8	54.0	53.9	30
11.6	13.0	12.7	36.8	42.1	42.5	7.3	8.4	8.4	83.5	89.0	89.7	23.0	24.2	24.1	31
6.4	7.5	7.4	20.4	22.0	22.1	5.2	5.8	5.9	34.9	42.4	43.6	14.6	15.4	15.3	32
12.7	13.7	13.6	77.9	81.7	84.1	16.9	18.0	18.2	62.7	65.9	66.1	56.7	57.3	57.3	33
4.3	4.7	4.7	18.2	17.9	18.2	5.1	5.3	5.4	13.0	13.2	13.3	8.1	8.4	8.4	34
1.7	1.7	1.7	11.0	11.4	11.9	1.7	1.8	1.8	7.6	7.7	7.9	5.7	5.7	5.7	35
(*)	192.1	184.0	(*)	660.1	671.2	(*)	149.6	150.4	(*)	553.2	560.2	(*)	520.2	519.9	36
(*)	3.6	3.7	(*)	17.1	18.0	(*)	4.3	4.7	(*)	17.5	18.4	(*)	15.6	15.8	37
(*)	15.4	15.6	(*)	83.5	84.7	(*)	15.3	15.4	(*)	65.5	66.1	(*)	63.5	63.3	38
(*)	20.6	19.9	(*)	111.5	111.7	(*)	15.4	15.7	(*)	73.5	75.0	(*)	43.6	43.6	39
(*)	27.4	26.8	(*)	45.5	45.9	(*)	8.5	8.6	(*)	30.6	30.9	(*)	45.7	45.6	40
(*)	6.1	6.3	(*)	39.1	40.5	(*)	7.1	7.1	(*)	35.7	36.5	(*)	33.2	33.3	41
(*)	21.0	21.0	(*)	66.3	66.2	(*)	9.5	9.6	(*)	37.6	38.9	(*)	45.3	45.5	42
(*)	71.9	67.8	(*)	176.3	178.5	(*)	61.4	61.6	(*)	184.5	185.5	(*)	149.9	150.1	43
(*)	7.7	7.5	(*)	41.6	41.9	(*)	9.6	9.6	(*)	32.2	32.4	(*)	28.3	28.6	44
(*)	6.0	6.0	(*)	25.7	26.0	(*)	6.7	6.8	(*)	39.5	39.7	(*)	46.2	46.3	45
(*)	3.1	3.1	(*)	9.4	9.3	(*)	2.4	2.4	(*)	8.8	8.9	(*)	12.6	12.5	46
26.0	27.9	28.0	99.7	103.8	105.3	19.6	20.7	20.9	84.9	85.2	86.0	117.4	121.8	122.2	47
9.8	11.2	11.3	44.9	46.2	46.7	10.0	10.7	10.8	39.4	41.2	41.1	40.4	41.9	42.2	48
428.7	424.5	(*)	1,432.1	1,429.3	(*)	580.5	587.2	(*)	1,559.2	1,594.2	(*)	1,308.9	1,302.2	(*)	49
15.4	15.0	(*)	65.3	66.6	(*)	14.8	14.9	(*)	64.8	65.1	(*)	97.3	96.9	(*)	50
4.7	4.7	(*)	21.3	22.0	(*)	3.6	3.6	(*)	17.1	17.4	(*)	23.4	23.7	(*)	51
27.9	27.9	(*)	112.3	113.8	(*)	21.4	21.5	(*)	93.7	93.6	(*)	87.5	88.7	(*)	52
1.4	1.4	(*)	8.2	8.1	(*)	1.0	1.0	(*)	6.8	6.9	(*)	7.0	7.1	(*)	53
10.0	9.9	(*)	60.4	61.8	(*)	14.1	14.7	(*)	63.0	63.7	(*)	40.1	40.2	(*)	54
37.2	37.3	(*)	221.7	223.8	(*)	47.2	47.7	(*)	183.1	184.2	(*)	181.4	180.0	(*)	55
(*)	462.3	(*)	(*)	1,376.0	(*)	(*)	589.9	(*)	(*)	1,477.3	(*)	(*)	1,074.6	(*)	56
317.5	313.7	(*)	935.8	934.4	(*)	480.4	485.5	(*)	1,098.4	1,118.2	(*)	767.2	762.2	(*)	57
280.3	276.4	(*)	714.1	710.7	(*)	433.2	437.8	(*)	915.4	934.1	(*)	585.9	582.2	(*)	58
258.6	254.7	(*)	617.5	613.0	(*)	413.9	418.4	(*)	816.8	835.0	(*)	507.9	504.4	(*)	59
2.9	3.0	(*)	15.2	15.4	(*)	2.5	2.5	(*)	15.9	16.7	(*)	21.9	22.2	(*)	60
12.9	12.8	(*)	77.0	77.8	(*)	15.7	16.3	(*)	73.9	74.7	(*)	61.6	60.8	(*)	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		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>NEW YORK—Continued</b>												
1 Rockland County <sup>8</sup> .....	76.4	77.0	(*)	(1)	(1)	(*)	2.0	1.5	(*)	15.3	15.8	(*)
2 Syracuse .....	252.3	254.7	(*)	(1)	(1)	(*)	9.5	9.0	(*)	57.4	60.1	(*)
3 Utica-Rome .....	113.2	114.3	(*)	(1)	(1)	(*)	2.4	2.5	(*)	31.4	31.8	(*)
4 Westchester County <sup>9</sup> .....	327.9	329.8	(*)	(1)	(1)	(*)	12.4	10.8	(*)	70.2	72.8	(*)
<b>NORTH CAROLINA</b>												
5 Asheville .....	2,250.8	2,298.5	2,307.3	4.6	4.9	4.8	109.9	110.2	115.2	793.6	808.7	805.5
6 Charlotte-Gastonia .....	66.6	67.3	66.8	(1)	(1)	(1)	3.4	3.5	3.5	21.4	21.5	21.1
7 Greensboro—Winston-Salem—High Pt. .....	306.5	313.0	312.2	(1)	(1)	(1)	15.4	15.5	15.8	86.3	88.2	88.1
8 Raleigh-Durham .....	369.7	377.0	376.9	(1)	(1)	(1)	16.8	15.4	15.6	143.9	146.6	145.4
9 .....	243.0	251.6	252.8	(1)	(1)	(1)	12.2	12.4	12.6	37.7	40.5	40.7
<b>NORTH DAKOTA</b>												
10 Fargo-Moorhead .....	226.9	232.9	235.4	3.8	5.1	5.1	15.2	15.4	15.7	15.6	16.2	16.0
11 .....	60.0	61.2	62.2	(2)	(2)	(2)	3.8	3.9	4.1	4.9	5.1	5.2
<b>OHIO</b>												
12 Akron .....	4,351.3	4,422.6	4,472.7	31.3	31.6	32.0	168.3	161.3	177.3	1,367.6	1,396.8	1,389.5
13 Canton .....	264.9	265.9	269.1	.3	.3	.4	8.1	7.5	8.4	85.7	84.6	84.3
14 Cincinnati .....	153.5	156.0	159.4	1.1	1.1	1.2	6.0	5.9	6.6	56.1	57.9	58.8
15 Cleveland .....	589.1	603.3	615.0	.4	.4	.4	25.6	24.6	27.3	167.6	173.2	173.7
16 Columbus .....	901.6	915.9	924.1	1.5	1.5	1.6	30.9	29.8	32.4	275.3	283.5	283.6
17 Dayton .....	488.8	499.7	507.7	.8	.9	.9	19.6	18.8	21.0	100.1	100.7	100.5
18 Toledo .....	355.2	362.6	362.6	.4	.5	.5	13.1	12.9	14.5	112.0	113.1	108.4
19 Youngstown-Warren .....	295.2	305.3	308.6	.6	.6	.6	11.1	10.9	11.5	89.5	91.8	91.9
20 .....	208.9	212.2	215.0	.4	.5	.5	7.3	7.2	8.1	78.7	80.3	80.1
<b>OKLAHOMA</b>												
21 Oklahoma City .....	1,016.5	1,052.9	1,059.4	52.4	57.0	56.7	55.3	54.9	55.6	167.9	177.8	177.7
22 Tulsa .....	353.1	376.5	380.9	12.0	13.6	13.8	18.3	18.8	19.3	46.1	50.7	51.8
23 .....	263.9	274.7	275.0	17.1	17.6	17.5	14.4	14.5	14.7	53.5	58.7	58.3
<b>OREGON</b>												
24 Eugene-Springfield .....	993.4	1,024.7	1,030.1	1.9	2.0	2.1	45.8	51.1	51.1	212.0	218.1	218.7
25 Jackson County .....	102.8	103.8	(*)	(1)	(1)	(*)	5.2	5.4	(*)	20.8	20.0	(*)
26 Portland .....	519.4	536.7	536.2	(1)	(1)	(1)	24.8	25.9	25.4	105.9	112.2	112.0
27 Salem .....	84.3	86.8	87.1	(1)	(1)	(1)	4.6	4.3	4.2	12.4	13.2	13.2
<b>PENNSYLVANIA</b>												
29 Allentown-Bethlehem-Easton .....	4,667.9	4,660.7	4,690.9	53.4	52.4	52.3	190.2	166.7	184.7	1,355.9	1,365.4	1,365.4
30 Altoona .....	256.2	257.6	258.5	(1)	(1)	(1)	9.1	7.8	8.2	108.8	109.2	109.7
31 Delaware Valley <sup>9</sup> .....	51.0	50.8	51.1	(1)	(1)	(1)	2.2	1.9	2.0	12.7	12.7	12.6
32 Erie .....	1,552.9	1,547.0	1,559.7	(1)	(1)	(1)	55.0	50.0	54.3	379.8	381.3	382.5
33 Harrisburg .....	113.8	115.1	116.5	(1)	(1)	(1)	3.6	3.3	3.7	43.1	44.4	44.6
34 Johnstown .....	212.8	211.6	212.7	(1)	(1)	(1)	9.2	7.5	7.8	40.6	42.0	42.5
35 Lancaster .....	86.0	86.8	88.4	9.7	9.3	9.3	2.8	2.1	2.6	19.6	19.7	19.7
36 Northeast Pennsylvania .....	146.9	148.9	150.5	(1)	(1)	(1)	7.5	7.8	8.0	59.0	59.6	60.0
37 Philadelphia SMSA .....	238.7	238.6	239.8	1.2	1.1	1.2	12.5	11.3	12.3	72.7	71.8	71.4
38 Philadelphia City <sup>10</sup> .....	1,870.2	1,872.6	1,888.1	(1)	(1)	(1)	68.2	62.1	67.9	447.1	451.4	452.8
39 Pittsburgh .....	803.9	792.6	795.5	(1)	(1)	(1)	17.5	16.1	17.0	153.1	149.1	149.4
40 Reading .....	929.3	929.5	932.8	11.7	11.1	10.3	47.8	41.5	45.5	247.3	253.4	249.9
41 Scranton <sup>11</sup> .....	133.4	138.1	139.1	(1)	(1)	(1)	4.7	4.7	5.1	51.9	53.8	53.3
42 Wilkes-Barre—Hazleton <sup>12</sup> .....	85.1	86.3	86.1	(1)	(1)	(1)	2.2	1.7	2.0	28.0	28.9	28.1
43 Williamsport .....	126.1	123.8	125.6	1.1	1.0	1.1	9.1	8.6	9.0	40.4	38.4	38.7
44 York .....	47.9	49.0	49.9	(1)	(1)	(1)	1.7	1.5	1.7	17.9	18.3	18.6
45 .....	149.7	150.5	151.4	(1)	(1)	(1)	6.4	6.2	6.5	62.9	64.3	64.4
<b>RHODE ISLAND</b>												
46 Providence-Warwick-Pawtucket .....	395.0	392.8	394.8	(1)	(1)	(1)	13.3	12.1	13.0	134.5	134.5	134.1
47 .....	405.6	404.2	406.1	(1)	(1)	(1)	13.4	12.2	13.1	150.6	150.7	150.2
<b>SOUTH CAROLINA</b>												
48 Charleston-North Charleston .....	1,130.0	1,153.6	1,162.5	1.8	1.9	1.9	69.0	64.7	65.2	387.9	391.7	390.7
49 Columbia .....	137.8	143.2	143.6	(1)	(1)	(1)	10.7	11.1	11.0	18.8	19.5	19.8
50 Greenville-Spartanburg .....	170.2	174.5	175.1	(1)	(1)	(1)	8.6	7.9	8.0	25.3	26.6	26.6
51 .....	251.5	257.1	258.0	(1)	(1)	(1)	14.9	14.9	15.3	103.5	104.7	104.8
<b>SOUTH DAKOTA</b>												
52 Rapid City .....	229.5	231.1	233.7	2.6	2.6	2.7	12.0	10.4	11.7	23.5	24.8	25.0
53 Sioux Falls .....	27.7	27.5	27.4	(2)	(2)	(2)	2.5	2.4	2.5	2.6	2.6	2.6
54 .....	51.9	52.8	53.1	(2)	(2)	(2)	3.2	3.0	3.2	6.9	7.4	7.4
<b>TENNESSEE</b>												
55 Chattanooga .....	1,707.2	1,722.0	1,725.7	11.1	11.1	10.6	83.4	88.4	89.5	521.9	520.6	519.6
56 Knoxville .....	167.8	168.2	168.1	1.3	1.3	1.4	7.3	6.9	7.0	56.0	55.3	55.1
57 Memphis .....	193.0	198.3	198.0	1.7	1.6	1.6	11.9	12.4	12.5	53.1	53.8	53.5
58 Nashville-Davidson .....	350.3	350.7	352.5	.2	.1	.1	14.2	13.8	13.7	63.8	63.4	63.4
59 .....	349.7	354.6	354.7	(1)	(1)	(1)	18.9	21.2	21.3	82.2	81.8	81.6

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			
APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	
3.5	3.4	(*)	16.7	16.7	(*)	2.4	2.4	(*)	16.2	16.3	(*)	20.3	20.9	(*)	1
14.3	14.4	(*)	56.4	56.7	(*)	14.7	15.2	(*)	51.0	50.7	(*)	49.0	48.7	(*)	2
4.0	3.9	(*)	21.1	21.4	(*)	5.4	5.4	(*)	19.3	19.5	(*)	29.6	29.6	(*)	3
17.6	17.6	(*)	76.9	77.8	(*)	16.5	16.6	(*)	80.1	80.6	(*)	54.3	53.5	(*)	4
106.1	110.9	109.1	433.9	443.3	447.9	86.4	86.3	86.6	312.5	321.8	324.0	403.7	412.4	414.2	5
3.4	3.5	3.5	13.4	13.6	13.7	2.2	2.3	2.2	11.7	11.5	11.5	11.1	11.4	11.3	6
28.3	29.1	27.8	74.6	77.1	77.1	19.6	20.0	19.9	46.0	46.1	46.5	36.3	37.0	37.0	7
20.2	20.9	20.4	73.7	76.3	77.1	17.3	17.3	17.5	52.7	54.2	54.5	45.1	46.3	46.4	8
11.6	12.8	12.8	46.8	48.3	48.4	14.4	14.5	14.6	50.4	53.0	53.2	69.9	70.1	70.5	9
14.2	15.2	15.3	63.2	64.4	66.3	10.3	10.7	10.8	44.9	46.3	47.0	59.7	59.6	59.2	10
3.8	4.1	4.1	18.7	18.7	19.1	3.6	3.8	3.8	12.9	13.4	13.6	12.3	12.2	12.3	11
223.8	229.6	225.2	941.2	951.0	974.8	188.7	195.9	198.1	767.2	791.2	812.6	663.3	665.2	663.1	12
14.4	14.7	14.4	57.4	58.7	60.7	9.2	9.4	9.4	46.4	47.1	48.2	43.3	43.5	43.3	13
7.3	7.3	7.0	33.2	33.3	34.7	5.6	5.7	5.7	27.0	27.9	28.4	17.4	17.0	17.0	14
32.4	34.8	34.5	135.7	137.5	140.7	30.3	30.9	31.6	113.0	117.6	122.4	84.1	84.3	84.5	15
47.2	47.1	44.9	205.4	208.8	213.0	45.2	45.8	46.1	176.6	184.6	188.7	119.5	114.7	114.1	16
24.3	26.2	26.3	115.4	118.8	121.6	33.5	35.6	36.3	94.5	98.5	100.6	100.7	100.3	100.5	17
12.5	13.3	13.3	73.6	75.1	77.0	12.3	12.8	12.9	65.7	68.4	69.4	65.5	66.6	66.6	18
19.9	21.0	20.5	66.2	68.0	69.4	9.9	10.3	10.3	55.5	56.2	57.9	42.5	46.6	46.5	19
10.2	10.2	10.1	45.2	45.7	47.2	6.7	6.7	6.7	35.0	35.4	36.5	25.5	26.2	25.8	20
60.7	62.7	62.7	241.9	246.8	249.6	49.9	51.3	52.0	167.6	176.7	178.9	220.8	225.7	226.2	21
21.4	22.5	22.6	87.1	92.0	93.0	22.3	23.2	23.7	60.2	65.2	65.2	85.7	90.5	91.5	22
20.3	20.6	20.6	65.5	65.9	66.3	13.4	13.8	13.9	51.1	53.7	53.7	28.6	29.9	30.0	23
55.3	59.3	57.4	240.2	248.3	252.5	62.8	66.2	66.5	174.1	174.6	176.2	201.3	205.1	205.6	24
5.1	5.6	(*)	25.5	25.3	(*)	5.0	5.1	(*)	18.4	18.3	(*)	22.8	24.1	(*)	25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
33.3	34.9	33.2	132.8	134.4	135.6	40.4	42.1	41.9	101.4	102.7	103.1	80.8	84.5	85.0	27
3.2	3.4	3.4	17.5	18.0	18.1	5.2	5.5	5.5	14.1	14.4	14.5	27.1	28.0	28.2	28
264.1	267.3	268.5	959.6	957.2	964.4	223.4	233.2	234.0	887.7	904.9	907.1	733.6	713.6	714.5	29
13.3	13.6	13.6	47.8	48.7	48.9	8.2	8.4	8.5	38.2	39.5	39.3	30.8	30.4	30.3	30
8.2	7.8	7.7	11.3	11.5	11.5	1.3	1.2	1.3	8.1	8.3	8.5	7.2	7.4	7.5	31
83.2	83.0	82.3	328.0	321.4	328.8	103.2	105.9	106.4	360.7	370.5	370.0	243.0	234.9	235.4	32
5.2	5.2	5.2	22.4	23.3	23.9	4.5	4.4	4.5	19.8	19.6	19.6	15.2	14.9	15.0	33
15.8	15.5	15.5	44.2	43.9	44.4	11.8	12.1	12.0	34.7	34.5	34.7	56.5	56.1	55.8	34
5.3	5.0	5.3	16.4	16.7	17.0	3.4	3.8	3.9	14.8	15.0	15.1	14.0	15.2	15.5	35
6.4	6.3	6.3	32.2	33.7	34.7	5.1	5.3	5.3	20.7	20.8	20.8	16.0	15.4	15.4	36
12.5	13.4	13.3	50.6	51.5	52.2	9.0	9.4	9.6	40.9	40.8	41.3	39.3	39.3	38.5	37
98.9	98.4	97.9	410.3	405.0	413.3	118.3	121.1	121.8	423.4	436.2	436.1	304.0	298.4	298.7	38
56.2	55.8	55.8	152.3	149.0	151.0	67.8	69.4	69.5	207.1	209.1	208.2	149.9	144.1	144.6	39
57.7	57.6	55.7	202.9	207.6	210.9	42.8	43.9	44.1	197.3	195.4	196.7	121.8	119.0	119.7	40
6.4	6.4	6.5	26.5	27.2	27.8	5.4	5.8	5.9	21.4	22.6	22.8	17.1	17.6	17.7	41
4.3	4.6	4.6	19.1	19.6	19.9	3.3	3.4	3.4	16.3	16.4	16.5	11.9	11.7	11.6	42
6.3	6.8	6.8	26.7	26.8	27.0	4.9	5.2	5.4	18.2	17.7	18.2	19.4	19.3	19.4	43
2.4	2.4	2.5	9.5	10.2	10.3	1.9	2.0	2.0	7.4	7.6	7.8	7.1	7.0	7.0	44
7.1	6.8	6.8	31.0	31.1	31.6	3.8	4.0	4.1	19.2	19.5	19.5	19.3	18.6	18.5	45
13.0	13.4	13.2	78.4	76.5	78.2	19.6	20.1	20.0	75.4	75.7	76.6	60.8	60.5	59.7	46
12.9	13.3	13.2	79.0	77.7	79.4	19.8	20.4	20.3	72.0	72.6	73.4	57.9	57.3	56.5	47
47.7	51.3	51.0	208.8	216.0	220.1	42.7	45.1	45.5	144.8	151.8	156.5	227.3	231.1	231.6	48
8.0	8.8	8.8	29.4	30.7	30.6	5.6	6.0	6.1	21.6	22.4	22.6	43.7	44.7	44.7	49
8.4	8.9	9.1	36.8	38.1	38.2	12.5	13.3	13.4	25.4	26.3	26.4	53.2	53.4	53.4	50
9.9	10.3	10.2	48.0	50.1	50.2	8.5	8.7	8.7	32.6	33.8	34.2	34.1	34.6	34.6	51
13.1	13.5	13.3	62.9	62.7	63.1	10.6	11.3	11.3	47.0	48.3	48.6	57.8	57.5	58.0	52
1.8	1.8	1.8	8.0	7.6	7.4	1.4	1.3	1.4	5.7	6.1	5.9	5.7	5.7	5.8	53
4.6	5.1	5.1	15.7	15.1	15.1	3.2	3.0	3.0	11.5	12.5	12.5	6.8	6.7	6.8	54
81.2	83.1	80.0	364.9	368.2	370.0	73.1	73.4	73.6	264.4	266.0	270.1	307.2	311.2	312.3	55
6.7	6.6	6.7	30.8	30.9	30.8	9.1	9.6	9.6	26.2	25.9	25.9	30.4	31.7	31.6	56
7.6	7.9	7.9	40.4	42.0	42.0	7.6	8.0	8.0	29.6	30.1	30.2	41.1	42.5	42.3	57
25.0	25.4	25.7	93.3	93.7	94.1	18.8	18.7	18.9	66.9	68.4	68.7	68.1	67.2	67.9	58
18.6	19.4	19.3	77.7	79.9	80.0	21.5	22.3	22.1	67.1	65.8	66.5	63.7	64.2	63.9	59

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
1 TEXAS .....	5,175.7	5,417.6	5,430.9	176.7	190.4	191.2	368.9	386.6	389.6	940.5	988.5	986.4
2 Amarillo .....	70.2	72.9	73.2	(1)	(1)	(1)	4.6	5.2	5.3	7.9	9.7	9.6
3 Austin .....	214.8	226.7	226.9	(1)	(1)	(1)	12.4	13.9	13.9	24.6	27.0	26.9
4 Beaumont-Port Arthur-Orange .....	141.8	143.8	143.8	(1)	(1)	(1)	10.7	14.9	14.6	41.4	40.9	40.9
5 Corpus Christi .....	110.9	112.5	112.8	5.1	5.0	5.1	10.8	12.1	12.0	14.0	13.6	14.1
6 Dallas-Fort Worth .....	1,270.9	1,334.9	1,347.4	17.8	20.2	20.4	65.3	71.3	73.0	281.6	298.2	298.6
7 El Paso .....	147.9	154.3	153.9	(1)	(1)	(1)	8.9	8.5	8.2	30.2	31.6	31.6
8 Galveston-Texas City .....	65.1	67.6	67.5	(1)	(1)	(1)	4.7	4.7	4.6	11.5	12.1	12.1
9 Houston .....	1,250.4	1,303.4	1,303.4	61.3	62.1	61.9	135.0	140.1	141.0	205.8	215.3	215.3
10 Lubbock .....	86.6	89.3	88.5	(1)	(1)	(1)	4.8	5.5	5.2	12.6	11.7	11.8
11 San Antonio .....	362.2	368.3	370.4	1.9	1.9	1.9	23.8	23.8	23.6	45.8	46.9	47.0
12 Waco .....	65.2	67.2	67.7	(1)	(1)	(1)	3.4	3.2	3.2	15.4	16.5	16.4
13 Wichita Falls .....	49.2	49.9	50.0	2.6	2.6	2.6	2.4	2.4	2.5	9.0	9.3	9.4
14 UTAH .....	517.8	547.4	549.6	15.7	17.3	17.4	33.3	33.1	34.6	76.0	83.0	82.9
15 Salt Lake City-Ogden .....	367.8	385.9	387.0	6.7	7.3	7.4	22.7	22.3	23.4	51.0	56.2	56.0
16 VERMONT .....	183.9	194.1	191.6	.7	.8	.8	8.0	7.2	8.0	46.7	49.1	49.2
17 Burlington <sup>13</sup> .....	49.7	52.7	53.0	-	-	-	-	-	-	12.0	13.1	13.2
18 Springfield <sup>13</sup> .....	13.5	14.4	14.0	-	-	-	-	-	-	5.8	6.1	6.1
19 VIRGINIA .....	2,008.9	2,062.6	2,084.6	23.8	25.5	25.1	128.9	125.8	134.0	402.4	403.4	403.6
20 Bristol .....	26.9	27.5	27.6	(1)	(1)	(1)	1.4	1.4	1.5	9.6	9.8	9.8
21 Lynchburg .....	67.8	70.0	71.1	(1)	(1)	(1)	3.2	3.3	3.5	29.0	29.5	29.6
22 Newport News-Hampton .....	144.0	139.1	141.5	(1)	(1)	(1)	7.6	8.1	8.0	34.4	27.1	28.1
23 Norfolk-Virginia Beach-Portsmouth .....	274.0	276.0	279.1	(1)	(1)	(1)	18.2	17.5	18.5	28.2	29.2	28.8
24 Northern Virginia <sup>14</sup> .....	397.1	410.3	413.7	.3	.4	.4	27.3	25.5	27.9	15.2	16.1	16.2
25 Petersburg-Colonial Hgts.-Hopewell .....	46.6	47.3	48.0	(1)	(1)	(1)	2.4	2.4	2.5	12.2	11.8	12.0
26 Richmond .....	308.1	317.2	319.5	.3	.4	.4	18.7	17.6	18.3	51.6	54.1	54.4
27 Roanoke .....	103.5	103.1	104.0	.2	.1	.1	6.0	5.1	5.6	21.2	21.1	20.9
28 WASHINGTON .....	1,466.4	1,573.4	(*)	2.6	3.2	(*)	87.9	102.5	(*)	278.1	302.5	(*)
29 Seattle-Everett .....	687.2	738.2	(*)	(1)	(1)	(*)	36.8	43.7	(*)	142.4	157.6	(*)
30 Spokane .....	122.7	126.0	(*)	(1)	(1)	(*)	7.3	6.2	(*)	17.6	18.0	(*)
31 Tacoma .....	133.5	138.5	(*)	(1)	(1)	(*)	8.1	9.1	(*)	22.2	21.6	(*)
32 WEST VIRGINIA .....	629.4	626.0	(*)	74.3	71.6	(*)	40.5	35.0	(*)	123.1	124.0	(*)
33 Charleston .....	108.5	109.5	(*)	6.7	6.8	(*)	5.6	5.9	(*)	19.3	19.5	(*)
34 Huntington-Ashland .....	101.9	103.2	(*)	1.0	1.0	(*)	6.2	5.8	(*)	28.7	29.4	(*)
35 Parkersburg-Marietta .....	55.9	57.0	(*)	.5	.5	(*)	3.1	3.9	(*)	17.9	17.8	(*)
36 Wheeling .....	64.0	65.1	(*)	7.0	7.2	(*)	3.0	3.2	(*)	13.4	13.4	(*)
37 WISCONSIN .....	1,844.8	1,901.8	1,924.0	2.4	2.3	2.5	76.7	75.8	80.1	551.4	566.0	569.0
38 Appleton-Oshkosh .....	118.9	123.6	124.7	(1)	(1)	(1)	5.6	6.2	6.5	46.7	48.6	48.9
39 Eau Claire .....	44.1	43.8	45.0	(1)	(1)	(1)	1.6	1.4	1.6	8.8	8.5	8.6
40 Green Bay .....	73.7	74.3	74.9	(1)	(1)	(1)	3.6	2.9	3.1	20.3	20.5	20.7
41 Kenosha .....	40.6	42.4	42.5	(1)	(1)	(1)	1.3	1.4	1.4	15.7	16.9	16.8
42 La Crosse .....	41.3	41.8	42.3	(1)	(1)	(1)	1.6	1.9	1.9	10.2	10.5	10.6
43 Madison .....	158.2	160.2	161.5	(1)	(1)	(1)	7.7	6.5	6.7	19.3	18.4	18.4
44 Milwaukee .....	642.4	663.5	668.7	(1)	(1)	(1)	22.7	23.1	23.8	205.4	213.0	214.2
45 Racine .....	69.6	70.1	70.8	(1)	(1)	(1)	2.4	2.0	2.2	30.6	31.3	31.6
46 WYOMING .....	179.6	197.7	202.0	28.1	31.8	31.2	19.6	21.7	24.2	8.8	9.7	9.9
47 Casper .....	34.9	41.0	41.2	6.9	9.2	9.3	3.3	4.4	4.7	1.6	1.7	1.8
48 Cheyenne .....	25.3	26.3	26.3	(1)	(1)	(1)	1.9	2.2	2.3	1.5	1.5	1.5

<sup>1</sup> Combined with services.  
<sup>2</sup> Combined with construction.  
<sup>3</sup> Area included in Chicago-Gary Standard Consolidated Statistical Area.  
<sup>4</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:  
 Burlington, Camden, and Gloucester Counties, New Jersey.  
<sup>5</sup> Subarea of New York-Northeastern New Jersey.  
<sup>6</sup> Subarea of Rochester Standard Metropolitan Statistical Area.  
<sup>7</sup> Area included in New York and Nassau-Suffolk combined SMSA's.  
<sup>8</sup> Subarea of New York Standard Metropolitan Statistical Area.  
<sup>9</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:  
 Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.  
<sup>10</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:  
 Philadelphia County.  
<sup>11</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area:  
 Lackawanna County.  
<sup>12</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area:  
 Luzerne County.  
<sup>13</sup> Total includes data for industry divisions not shown separately.  
<sup>14</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			
APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	
323.7	346.2	344.2	1,263.1	1,310.6	1,320.9	290.5	305.4	303.9	884.1	918.4	921.6	928.2	971.5	973.1	1
6.6	6.8	6.8	21.7	21.3	21.4	3.6	3.6	3.6	13.9	14.1	14.3	11.9	12.2	12.2	2
6.5	6.5	6.5	44.2	45.8	45.8	12.6	13.4	13.4	35.6	37.2	37.6	78.9	82.9	82.8	3
10.6	10.8	10.8	31.4	30.3	30.2	5.3	5.4	5.4	23.4	23.2	23.3	19.0	18.3	18.6	4
6.2	6.7	6.7	26.3	26.4	26.3	5.2	5.3	5.3	17.4	17.7	17.7	25.9	25.7	25.6	5
81.4	86.5	86.6	333.7	348.3	350.0	93.6	97.5	98.2	223.7	235.5	238.5	173.8	177.4	178.1	6
10.0	10.4	10.4	36.8	38.1	38.0	6.7	7.2	7.2	24.5	25.3	25.4	30.8	33.2	33.1	7
5.9	6.7	6.6	12.4	12.9	12.9	4.3	4.5	4.5	10.1	10.2	10.2	16.3	16.5	16.6	8
92.0	96.1	96.6	296.6	309.5	309.5	72.8	77.5	77.5	243.4	254.4	254.8	143.5	146.5	146.7	9
5.1	5.1	5.0	25.2	26.1	25.8	4.3	4.5	4.5	15.3	16.1	16.1	19.3	20.3	20.1	10
15.2	16.4	16.4	89.9	93.1	93.9	23.9	24.5	24.7	68.2	69.2	69.6	93.5	92.5	93.3	11
3.1	3.2	3.2	14.9	15.6	15.7	3.7	3.9	3.9	13.3	13.7	14.2	11.4	11.1	11.1	12
2.4	2.4	2.4	12.1	12.3	12.3	2.2	2.2	2.2	7.3	7.5	7.5	11.2	11.2	11.1	13
30.9	33.4	33.8	125.1	130.9	132.5	23.9	25.6	25.7	90.6	97.8	98.7	122.3	126.2	126.7	14
24.4	26.5	23.9	93.1	97.1	97.9	19.5	20.7	20.9	62.0	66.4	67.7	88.3	89.4	89.8	15
8.5	8.7	8.8	37.5	40.8	40.8	7.3	7.4	7.6	39.5	43.8	40.7	35.7	36.3	35.7	16
2.1	2.2	2.1	10.4	11.3	11.6	-	-	-	10.2	10.9	11.0	-	-	-	17
.7	.7	.7	2.1	2.1	2.2	-	-	-	2.3	3.0	2.5	-	-	-	18
106.7	111.6	110.9	418.4	434.7	440.4	94.0	98.4	98.8	351.5	367.4	373.7	483.2	495.8	498.1	19
1.0	1.0	1.0	6.1	6.3	6.3	.8	.9	.9	3.2	3.3	3.3	4.8	4.8	4.8	20
2.5	2.5	2.6	11.1	11.4	11.8	3.1	3.2	3.3	9.5	10.2	10.3	9.4	9.9	10.0	21
4.6	4.8	4.9	26.3	27.0	26.9	4.6	4.7	4.7	26.4	26.4	27.7	40.1	41.0	41.2	22
17.8	17.9	17.9	65.4	67.5	68.7	13.8	13.9	14.1	50.1	49.5	50.6	80.5	80.5	80.5	23
26.3	27.6	26.6	94.5	98.0	99.2	24.5	25.4	25.3	95.3	101.1	101.7	113.7	116.2	116.4	24
1.3	1.5	1.5	8.7	8.9	8.9	1.2	1.3	1.3	5.6	5.9	6.0	15.2	15.5	15.8	25
18.6	19.9	19.3	71.9	72.6	72.7	23.7	25.2	25.2	54.1	54.8	56.5	69.2	72.6	72.7	26
9.8	9.9	9.9	25.1	25.5	26.0	5.7	6.0	6.0	18.9	18.9	19.2	16.6	16.5	16.3	27
82.8	90.6	(*)	353.1	376.3	(*)	82.1	88.7	(*)	269.6	292.5	(*)	310.2	317.1	(*)	28
46.2	49.5	(*)	167.1	177.2	(*)	48.8	50.9	(*)	130.0	139.6	(*)	115.9	119.7	(*)	29
7.8	7.6	(*)	33.1	34.7	(*)	7.7	8.0	(*)	27.4	29.2	(*)	21.8	22.3	(*)	30
6.3	6.7	(*)	31.0	33.2	(*)	6.6	6.8	(*)	27.5	29.0	(*)	31.8	32.1	(*)	31
41.8	42.3	(*)	125.8	127.8	(*)	20.4	20.9	(*)	88.7	88.7	(*)	114.8	115.7	(*)	32
9.3	9.6	(*)	25.4	25.6	(*)	4.8	4.9	(*)	18.4	18.5	(*)	19.0	18.7	(*)	33
8.9	9.3	(*)	22.4	23.1	(*)	3.6	3.7	(*)	14.0	14.0	(*)	17.1	16.9	(*)	34
2.5	2.5	(*)	12.0	12.2	(*)	1.9	1.9	(*)	8.4	8.6	(*)	9.6	9.7	(*)	35
3.7	3.7	(*)	14.2	14.9	(*)	2.4	2.4	(*)	12.6	12.6	(*)	7.6	7.7	(*)	36
86.5	88.7	88.6	415.3	434.1	443.8	83.9	88.0	88.3	328.7	344.8	347.7	299.9	302.2	303.9	37
4.1	4.2	4.3	24.0	25.1	25.5	4.7	4.9	5.0	18.9	19.1	19.4	15.0	15.5	15.2	38
2.5	2.6	2.6	11.2	11.8	12.2	1.4	1.4	1.4	9.0	9.2	9.3	9.6	8.8	9.4	39
5.2	5.2	5.2	18.6	19.2	19.3	2.6	2.7	2.7	13.3	13.6	13.6	10.2	10.3	10.3	40
1.6	1.6	1.6	7.9	8.1	8.3	.9	.9	.9	7.1	7.6	7.6	6.1	5.9	5.9	41
2.4	2.3	2.1	10.8	11.2	11.4	1.0	.9	1.0	8.6	8.8	8.9	6.6	6.2	6.3	42
5.6	5.8	5.8	34.4	35.4	35.7	10.8	12.1	12.1	27.0	28.3	28.5	53.5	53.8	54.4	43
32.4	33.3	33.1	143.9	148.6	151.2	35.2	36.2	36.0	127.6	134.1	135.1	75.1	75.3	75.3	44
2.4	2.5	2.5	12.6	12.7	12.9	2.1	2.2	2.2	10.6	10.8	10.8	9.0	8.6	8.6	45
14.0	16.0	16.0	40.4	45.3	46.8	6.3	6.9	7.0	24.9	26.1	26.7	37.5	40.2	40.2	46
2.4	2.7	2.5	9.4	11.4	11.6	1.4	1.5	1.5	5.2	5.6	5.5	4.7	4.5	4.3	47
3.3	3.7	3.6	6.2	7.1	7.2	1.5	1.5	1.5	4.1	3.4	3.3	6.8	6.9	6.9	48





# 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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
-	<b>TOTAL PRIVATE</b> .....	\$200.12	\$200.63	\$214.91	\$211.30	\$215.49	\$5.59	\$5.62	\$6.02	\$6.02	\$6.07
-	<b>MINING</b> .....	332.23	331.58	354.35	363.38	365.43	7.62	7.64	8.26	8.51	8.42
10	<b>METAL MINING</b> .....	328.00	328.45	366.74	372.04	-	8.00	8.07	8.88	9.03	-
101	Iron ores .....	357.57	356.50	389.42	407.78	-	8.22	8.31	9.12	9.31	-
102	Copper ores .....	317.49	321.11	380.16	385.48	-	8.12	8.15	9.03	9.20	-
11, 12	<b>COAL MINING</b> .....	387.57	389.90	412.34	425.95	-	9.43	9.35	9.96	10.44	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> ...	388.81	392.08	413.59	428.22	-	9.46	9.38	9.99	10.47	-
13	<b>OIL AND GAS EXTRACTION</b> .....	314.64	310.26	331.88	338.24	-	6.90	6.91	7.56	7.74	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	336.04	323.54	353.97	369.46	-	8.02	7.93	8.74	8.86	-
138	Oil and gas field services .....	304.44	303.37	322.54	324.85	-	6.45	6.51	7.12	7.30	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> ...	275.40	278.38	293.91	300.38	-	6.12	6.20	6.59	6.72	-
142	Crushed and broken stone .....	271.20	275.12	291.92	290.95	-	6.00	6.06	6.36	6.48	-
-	<b>CONSTRUCTION</b> .....	310.43	312.68	331.52	319.50	333.78	8.39	8.52	8.96	9.00	9.07
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	281.10	279.74	304.68	295.64	-	7.83	7.88	8.44	8.52	-
152	Residential building construction .....	264.89	262.99	288.36	281.42	-	7.42	7.45	8.10	8.11	-
153	Operative builders .....	259.52	243.59	264.44	250.58	-	7.11	6.94	7.47	7.37	-
154	Nonresidential building construction .....	302.28	305.37	330.99	319.12	-	8.42	8.53	8.97	9.17	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> ....	310.40	312.44	330.40	311.54	-	7.76	7.93	8.26	8.33	-
161	Highway and street construction .....	286.75	293.33	299.30	294.10	-	6.96	7.37	7.39	7.58	-
162	Heavy construction, except highway .....	321.11	321.79	342.61	320.02	-	8.15	8.23	8.63	8.72	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	326.87	330.51	345.58	334.85	-	8.98	9.13	9.52	9.54	-
171	Plumbing, heating, air conditioning .....	344.79	357.76	359.48	347.12	-	9.17	9.39	9.51	9.51	-
172	Painting, paper hanging, decorating .....	280.72	282.35	313.28	304.17	-	8.09	8.28	8.90	8.92	-
173	Electrical work .....	379.38	384.69	407.72	399.06	-	10.01	10.15	10.59	10.67	-
174	Masonry, stonework, and plastering .....	303.79	305.61	323.75	316.85	-	8.78	8.91	9.33	9.43	-
175	Carpentering and flooring .....	284.20	286.40	301.34	293.19	-	8.12	8.23	8.76	8.70	-
176	Roofing and sheet metal work .....	265.10	252.80	274.73	253.08	-	7.89	7.90	8.30	8.38	-
-	<b>MANUFACTURING</b> .....	243.61	245.23	265.93	254.41	266.12	6.03	6.07	6.55	6.54	6.62
24, 25, 32-39	<b>DURABLE GOODS</b> .....	265.33	265.27	289.39	272.74	288.75	6.44	6.47	6.99	6.94	7.06
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	213.55	213.79	230.49	225.59	230.49	5.42	5.44	5.85	5.89	5.91
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	217.74	219.05	231.85	231.08	239.20	5.43	5.49	5.84	5.91	5.98
241	Logging camps and logging contractors .....	274.95	276.38	294.78	310.08	-	7.05	7.16	7.52	7.87	-
242	Sawmills and planing mills .....	230.45	231.90	246.02	240.39	-	5.58	5.67	6.03	6.04	-
2421	Sawmills and planing mills, general .....	243.78	243.95	258.67	252.97	-	5.86	5.95	6.34	6.34	-
2426	Hardwood dimension and flooring .....	157.92	158.76	171.36	167.96	-	3.88	3.92	4.20	4.22	-
243	Millwork, plywood, and structural members .....	217.88	216.66	228.13	227.18	-	5.42	5.43	5.79	5.84	-
2431	Millwork .....	205.01	206.06	215.73	216.37	-	5.19	5.23	5.56	5.62	-
2434	Wood kitchen cabinets .....	173.15	193.89	202.16	195.94	-	4.94	5.01	5.32	5.31	-
2435	Hardwood veneer and plywood .....	181.56	181.08	186.53	185.10	-	4.45	4.46	4.64	4.71	-
2436	Softwood veneer and plywood .....	285.60	280.13	302.63	303.23	-	6.80	6.75	7.24	7.36	-
244	Wooden containers .....	155.07	157.51	169.17	166.88	-	4.06	4.07	4.36	4.38	-
245	Wood buildings and mobile homes .....	196.74	201.50	202.95	203.14	-	5.11	5.18	5.50	5.52	-
2451	Mobile homes .....	197.49	201.63	199.63	200.56	-	5.09	5.17	5.41	5.45	-
249	Miscellaneous wood products .....	180.64	181.49	194.17	194.83	-	4.55	4.56	4.83	4.92	-
25	<b>FURNITURE AND FIXTURES</b> .....	180.85	180.71	193.05	185.25	189.36	4.59	4.61	4.95	4.94	4.97
251	Household furniture .....	168.56	168.00	181.20	173.82	-	4.30	4.33	4.67	4.66	-
2511	Wood household furniture .....	157.21	158.00	171.47	164.11	-	3.96	3.99	4.33	4.33	-
2512	Upholstered household furniture .....	179.88	176.44	190.88	187.00	-	4.66	4.68	5.01	5.00	-
2514	Metal household furniture .....	167.91	167.75	186.53	176.43	-	4.35	4.38	4.82	4.73	-
2515	Mattresses and bedsprings .....	192.27	192.61	198.00	185.15	-	4.93	4.99	5.28	5.26	-
252	Office furniture .....	209.00	207.98	215.34	205.82	-	5.11	5.11	5.37	5.36	-
253	Public building and related furniture .....	207.90	207.23	215.61	210.79	-	5.25	5.22	5.35	5.35	-
254	Partitions and fixtures .....	214.82	218.50	229.90	218.89	-	5.48	5.49	5.91	5.90	-
259	Miscellaneous furniture and fixtures .....	195.53	199.80	208.89	195.08	-	4.95	5.02	5.37	5.33	-

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**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
-	<b>TOTAL PRIVATE</b> .....	35.8	35.7	35.7	35.1	35.5	-	-	-	-	-
-	<b>MINING</b> .....	43.6	43.4	42.9	42.7	43.4	-	-	-	-	-
10	<b>METAL MINING</b> .....	41.0	40.7	41.3	41.2	-	-	-	-	-	-
101	Iron ores .....	43.5	42.9	42.7	43.8	-	-	-	-	-	-
102	Copper ores .....	39.1	39.4	42.1	41.9	-	-	-	-	-	-
11, 12	<b>COAL MINING</b> .....	41.1	41.7	41.4	40.8	-	-	-	-	-	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	41.1	41.8	41.4	40.9	-	-	-	-	-	-
13	<b>OIL AND GAS EXTRACTION</b> .....	45.6	44.9	43.9	43.7	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	41.9	40.8	40.5	41.7	-	-	-	-	-	-
138	Oil and gas field services .....	47.2	46.6	45.3	44.5	-	-	-	-	-	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	45.0	44.9	44.6	44.7	-	-	-	-	-	-
142	Crushed and broken stone .....	45.2	45.4	45.9	44.9	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	37.0	36.7	37.0	35.5	36.8	-	-	-	-	-
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	35.9	35.5	36.1	34.7	-	-	-	-	-	-
152	Residential building construction .....	35.7	35.3	35.6	34.7	-	-	-	-	-	-
153	Operative builders .....	36.5	35.1	35.4	34.0	-	-	-	-	-	-
154	Nonresidential building construction .....	35.9	35.8	36.9	34.8	-	-	-	-	-	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	40.0	39.4	40.0	37.4	-	-	-	-	-	-
161	Highway and street construction .....	41.2	39.8	40.5	38.8	-	-	-	-	-	-
162	Heavy construction, except highway .....	39.4	39.1	39.7	36.7	-	-	-	-	-	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	36.4	36.2	36.3	35.1	-	-	-	-	-	-
171	Plumbing, heating, air conditioning .....	37.6	38.1	37.8	36.5	-	-	-	-	-	-
172	Painting, paper hanging, decorating .....	34.7	34.1	35.2	34.1	-	-	-	-	-	-
173	Electrical work .....	37.9	37.9	38.5	37.4	-	-	-	-	-	-
174	Masonry, stonework, and plastering .....	34.6	34.3	34.7	33.6	-	-	-	-	-	-
175	Carpentering and flooring .....	35.0	34.8	34.4	33.7	-	-	-	-	-	-
176	Roofing and sheet metal work .....	33.6	32.0	33.1	30.2	-	-	-	-	-	-
-	<b>MANUFACTURING</b> .....	40.4	40.4	40.6	38.9	40.2	3.5	3.4	3.6	2.6	3.4
24, 25, 32-39	<b>DURABLE GOODS</b> .....	41.2	41.0	41.4	39.3	40.9	3.7	3.6	3.9	2.6	3.6
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	39.4	39.3	39.4	38.3	39.0	3.1	3.1	3.1	2.5	2.9
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	40.1	39.9	39.7	39.1	40.0	3.7	3.6	3.5	3.2	-
241	Logging camps and logging contractors .....	39.0	38.6	39.2	39.4	-	4.1	4.0	4.5	4.3	-
242	Sawmills and planing mills .....	41.3	40.9	40.8	39.8	-	4.7	4.5	4.5	3.9	-
2421	Sawmills and planing mills, general .....	41.6	41.0	40.8	39.9	-	4.9	4.6	4.8	4.2	-
2426	Hardwood dimension and flooring .....	40.7	40.5	40.8	39.8	-	3.9	3.9	3.5	2.9	-
243	Millwork, plywood, and structural members .....	40.2	39.9	39.4	38.9	-	3.2	3.1	2.9	2.6	-
2431	Millwork .....	39.5	39.4	38.8	38.5	-	2.3	2.4	1.8	1.6	-
2434	Wood kitchen cabinets .....	39.1	38.7	38.0	36.9	-	2.0	2.2	2.2	1.8	-
2435	Hardwood veneer and plywood .....	40.8	40.6	40.2	39.3	-	4.0	3.8	3.7	3.3	-
2436	Softwood veneer and plywood .....	42.0	41.5	41.8	41.2	-	5.2	4.7	5.1	4.7	-
244	Wooden containers .....	38.2	38.7	38.8	38.1	-	3.3	3.5	3.1	2.9	-
245	Wood buildings and mobile homes .....	38.5	38.9	36.9	36.8	-	2.2	2.4	1.5	1.4	-
2451	Mobile homes .....	38.8	39.0	36.9	36.8	-	2.0	2.2	1.1	1.1	-
249	Miscellaneous wood products .....	39.7	39.8	40.2	39.6	-	3.4	3.4	3.4	3.2	-
25	<b>FURNITURE AND FIXTURES</b> .....	39.4	39.2	39.0	37.5	38.1	2.5	2.5	2.2	1.6	-
251	Household furniture .....	39.2	38.8	38.8	37.3	-	2.6	2.4	2.2	1.7	-
2511	Wood household furniture .....	39.7	39.6	39.6	37.9	-	3.1	3.1	2.9	2.2	-
2512	Upholstered household furniture .....	38.6	37.7	38.1	37.4	-	1.9	1.6	1.4	1.2	-
2514	Metal household furniture .....	38.6	38.3	38.7	37.3	-	2.0	1.7	2.0	1.0	-
2515	Mattresses and bedsprings .....	39.0	38.6	37.5	35.2	-	2.5	2.3	2.1	1.5	-
252	Office furniture .....	40.9	40.7	40.1	38.4	-	3.0	2.8	2.5	1.6	-
253	Public building and related furniture .....	39.6	39.7	40.3	39.4	-	2.9	2.6	2.1	1.3	-
254	Partitions and fixtures .....	39.2	39.8	38.9	37.1	-	2.1	2.4	2.1	1.3	-
259	Miscellaneous furniture and fixtures .....	39.5	39.8	38.9	36.6	-	1.9	2.6	2.1	1.3	-

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	\$257.71	\$261.25	\$277.13	\$275.11	\$283.66	\$6.18	\$6.25	\$6.63	\$6.71	\$6.77
321	Flat glass	331.62	334.80	361.44	363.32	-	7.73	7.75	8.29	8.63	-
322	Glass and glassware, pressed or blown	265.43	264.66	280.38	292.84	-	6.57	6.60	6.94	7.16	-
3221	Glass containers	280.17	277.26	288.67	308.66	-	6.85	6.88	7.11	7.51	-
3229	Pressed and blown glass, nec	244.33	247.16	269.07	270.40	-	6.17	6.21	6.71	6.66	-
323	Products of purchased glass	243.20	253.97	271.92	253.20	-	6.08	6.24	6.60	6.41	-
324	Cement, hydraulic	351.50	344.86	401.56	404.63	-	8.29	8.33	9.21	9.41	-
325	Structural clay products	208.00	210.53	224.80	224.13	-	5.00	5.11	5.43	5.48	-
326	Pottery and related products	198.18	200.94	217.46	212.69	-	5.03	5.10	5.45	5.51	-
327	Concrete, gypsum, and plaster products	264.31	270.68	276.25	274.86	-	6.09	6.18	6.50	6.56	-
3271	Concrete block and brick	240.46	252.11	264.05	267.18	-	5.49	5.64	6.07	6.10	-
3272	Concrete products, nec	233.20	237.11	246.03	241.31	-	5.50	5.54	5.83	5.90	-
3273	Ready-mixed concrete	292.52	298.03	297.86	296.23	-	6.74	6.82	7.16	7.19	-
329	Misc. nonmetallic mineral products	257.65	261.64	283.57	271.58	-	6.12	6.20	6.61	6.64	-
3291	Abrasive products	247.46	247.65	270.63	253.88	-	6.11	6.13	6.49	6.46	-
3292	Asbestos products	274.68	280.58	289.39	266.66	-	6.30	6.45	6.73	6.70	-
33	<b>PRIMARY METAL INDUSTRIES</b>	331.17	335.27	366.21	370.24	375.66	7.98	8.04	8.74	8.90	8.86
331	Blast furnace and basic steel products	376.07	380.37	419.74	445.82	-	9.15	9.21	10.09	10.32	-
3312	Blast furnaces and steel mills	386.10	390.04	430.15	464.97	-	9.44	9.49	10.39	10.64	-
3317	Steel pipe and tubes	318.42	312.99	353.60	315.51	-	7.51	7.47	8.32	8.09	-
332	Iron and steel foundries	294.53	298.75	324.73	304.52	-	7.08	7.13	7.75	7.69	-
3321	Gray iron foundries	303.36	306.49	332.27	313.63	-	7.24	7.28	7.93	7.90	-
3322	Malleable iron foundries	300.17	303.69	346.10	310.34	-	7.43	7.48	8.36	8.04	-
3325	Steel foundries, nec	276.97	280.22	307.64	287.83	-	6.69	6.72	7.29	7.25	-
333	Primary nonferrous metals	346.94	348.20	378.98	396.68	-	8.32	8.35	9.11	9.29	-
3334	Primary aluminum	372.19	377.10	402.68	420.58	-	8.99	9.00	9.75	9.99	-
335	Nonferrous rolling and drawing	302.29	305.58	336.44	315.79	-	7.03	7.09	7.77	7.74	-
3351	Copper rolling and drawing	292.15	295.41	312.40	272.92	-	6.67	6.76	7.10	6.98	-
3353	Aluminum sheet, plate, and foil	361.12	373.85	417.63	416.98	-	8.34	8.42	9.47	9.63	-
3357	Nonferrous wire drawing and insulating	279.54	279.30	312.31	286.72	-	6.64	6.65	7.28	7.15	-
336	Nonferrous foundries	246.64	250.31	267.73	253.24	-	6.06	6.15	6.53	6.51	-
3361	Aluminum foundries	253.97	256.94	279.35	264.13	-	6.24	6.36	6.83	6.79	-
34	<b>FABRICATED METAL PRODUCTS</b>	256.88	257.70	277.54	256.58	271.35	6.25	6.27	6.72	6.63	6.75
341	Metal cans and shipping containers	342.61	342.43	380.63	364.95	-	7.84	7.89	8.75	8.71	-
3411	Metal cans	352.66	352.41	390.06	376.90	-	8.07	8.12	9.05	9.06	-
342	Cutlery, hand tools, and hardware	247.23	249.28	262.85	242.06	-	6.03	6.08	6.49	6.32	-
3423, 5	Hand and edge tools, and hand saws and blades	239.51	234.93	251.51	241.92	-	5.73	5.73	6.21	6.14	-
3429	Hardware, nec	258.04	263.45	274.86	245.34	-	6.34	6.41	6.77	6.56	-
343	Plumbing and heating, except electric	213.64	214.27	236.59	222.59	-	5.45	5.48	5.90	5.92	-
3432	Plumbing fittings and brass goods	209.35	212.67	237.31	217.29	-	5.30	5.33	5.76	5.81	-
3433	Heating equipment, except electric	204.19	202.92	224.25	211.64	-	5.29	5.34	5.75	5.72	-
344	Fabricated structural metal products	236.99	239.79	257.44	245.76	-	5.91	5.95	6.42	6.40	-
3441	Fabricated structural metal	248.67	251.10	273.91	266.85	-	6.14	6.20	6.73	6.79	-
3442	Metal doors, sash, and trim	184.08	190.16	198.01	191.66	-	4.72	4.79	5.17	5.18	-
3443	Fabricated plate work (boiler shops)	263.25	266.02	284.66	268.50	-	6.50	6.52	6.96	6.92	-
3444	Sheet metal work	242.19	240.95	259.75	247.42	-	6.07	6.10	6.51	6.46	-
3446	Architectural metal work	222.26	230.40	242.96	223.85	-	5.67	5.76	6.12	6.05	-
345	Screw machine products, bolts, etc.	250.06	249.57	276.42	256.25	-	5.87	5.90	6.34	6.25	-
3451	Screw machine products	234.18	232.83	249.64	237.22	-	5.51	5.57	5.86	5.80	-
3452	Bolts, nuts, rivets, and washers	267.07	266.45	304.41	275.37	-	6.24	6.24	6.81	6.70	-
346	Metal forgings and stampings	309.94	308.59	330.79	284.61	-	7.31	7.33	7.82	7.61	-
3462	Iron and steel forgings	336.23	337.08	369.80	294.12	-	7.93	7.95	8.58	8.17	-
3465	Automotive stampings	382.36	377.15	393.73	334.49	-	8.69	8.67	9.33	9.24	-
3469	Metal stampings, nec	226.03	226.40	247.21	228.54	-	5.54	5.59	5.90	5.83	-
347	Metal services, nec	205.54	204.42	222.76	210.60	-	5.05	5.06	5.42	5.40	-
3471	Plating and polishing	198.13	197.96	217.01	204.48	-	4.88	4.90	5.28	5.27	-
3479	Metal coating and allied services	224.68	222.35	237.31	226.16	-	5.48	5.49	5.76	5.74	-
348	Ordnance and accessories, nec	246.60	245.01	267.39	264.00	-	6.00	6.02	6.49	6.60	-
3483	Ammunition, exc. for small arms, nec	224.16	227.26	243.61	244.34	-	5.59	5.71	6.06	6.43	-
349	Misc. fabricated metal products	242.35	242.17	261.43	242.74	-	5.94	5.95	6.33	6.24	-
3494	Valves and pipe fittings	260.21	261.67	279.54	256.11	-	6.24	6.26	6.64	6.55	-
3496	Misc. fabricated wire products	209.08	210.77	229.80	217.45	-	5.24	5.23	5.66	5.59	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	277.62	277.13	305.87	285.02	300.12	6.61	6.63	7.18	7.09	7.18
351	Engines and turbines	322.70	318.89	359.97	330.34	-	7.72	7.74	8.51	8.30	-
3511	Turbines and turbine generator sets	282.57	282.10	320.58	301.86	-	7.19	7.16	7.80	7.76	-
3519	Internal combustion engines, nec	338.12	333.11	373.63	340.05	-	7.90	7.95	8.75	8.48	-
352	Farm and garden machinery	290.60	285.32	338.24	325.51	-	7.14	7.08	7.94	7.92	-
3523	Farm machinery and equipment	298.41	294.52	352.17	338.62	-	7.35	7.29	8.19	8.14	-
353	Construction and related machinery	298.49	296.78	323.60	302.15	-	7.09	7.10	7.65	7.63	-

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**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	41.7	41.8	41.8	41.0	41.9	4.8	4.9	4.6	4.2	-
321	Flat glass	42.9	43.2	43.6	42.1	-	6.0	6.5	5.7	4.2	-
322	Glass and glassware, pressed or blown	40.4	40.1	40.4	40.9	-	4.1	4.1	4.0	4.5	-
3221	Glass containers	40.9	40.3	40.6	41.1	-	4.7	4.6	4.5	4.9	-
3229	Pressed and blown glass, nec	39.6	39.8	40.1	40.6	-	3.2	3.4	3.3	3.9	-
323	Products of purchased glass	40.0	40.7	41.2	39.5	-	3.5	3.6	4.6	3.2	-
324	Cement, hydraulic	42.4	41.4	43.6	43.0	-	4.5	4.1	5.4	4.4	-
325	Structural clay products	41.6	41.2	41.4	40.9	-	4.4	4.4	4.0	4.1	-
326	Pottery and related products	39.4	39.4	39.9	38.6	-	2.4	2.4	2.4	2.2	-
327	Concrete, gypsum, and plaster products	43.4	43.8	42.5	41.9	-	6.7	6.9	5.8	5.5	-
3271	Concrete block and brick	43.8	44.7	43.5	43.8	-	7.6	8.2	6.6	6.3	-
3272	Concrete products, nec	42.4	42.8	42.2	40.9	-	5.7	5.9	4.9	4.3	-
3273	Ready-mixed concrete	43.4	43.7	41.6	41.2	-	6.9	7.0	5.8	5.6	-
329	Misc. nonmetallic mineral products	42.1	42.2	42.9	40.9	-	4.2	4.1	4.6	3.5	-
3291	Abrasive products	40.5	40.4	41.7	39.3	-	3.4	3.2	3.8	2.4	-
3292	Asbestos products	43.6	43.5	43.0	39.8	-	4.8	4.3	3.9	2.1	-
33	<b>PRIMARY METAL INDUSTRIES</b>	41.5	41.7	41.9	41.6	42.4	3.8	3.9	4.3	3.8	-
331	Blast furnace and basic steel products	41.1	41.3	41.6	43.2	-	3.0	3.1	3.7	4.0	-
3312	Blast furnaces and steel mills	40.9	41.1	41.4	43.7	-	2.9	3.0	3.5	4.1	-
3317	Steel pipe and tubes	42.4	41.9	42.5	39.0	-	4.5	4.4	4.7	2.2	-
332	Iron and steel foundries	41.6	41.9	41.9	39.6	-	4.5	4.7	4.7	3.2	-
3321	Gray iron foundries	41.9	42.1	41.9	39.7	-	5.0	5.2	4.8	3.5	-
3322	Malleable iron foundries	40.4	40.6	41.4	38.6	-	3.6	4.0	4.9	2.7	-
3325	Steel foundries, nec	41.4	41.7	42.2	39.7	-	3.5	3.8	4.6	2.9	-
333	Primary nonferrous metals	41.7	41.7	41.6	42.7	-	3.5	3.4	3.8	4.6	-
3334	Primary aluminum	41.4	41.9	41.3	42.1	-	4.4	4.0	3.9	5.2	-
336	Nonferrous rolling and drawing	43.0	43.1	43.3	40.8	-	5.1	5.2	5.6	4.4	-
3361	Copper rolling and drawing	43.8	43.7	44.0	39.1	-	5.3	5.5	6.2	3.3	-
3363	Aluminum sheet, plate and foil	43.3	44.4	44.1	43.3	-	6.9	7.2	7.7	9.2	-
3367	Nonferrous wire drawing and insulating	42.1	42.0	42.9	40.1	-	4.3	4.4	4.8	2.7	-
336	Nonferrous foundries	40.7	40.7	41.0	38.9	-	3.3	3.4	3.9	2.4	-
3361	Aluminum foundries	40.7	40.4	40.9	38.9	-	3.6	3.4	4.3	2.6	-
34	<b>FABRICATED METAL PRODUCTS</b>	41.1	41.1	41.3	38.7	40.2	3.7	3.7	3.7	2.1	-
341	Metal cans and shipping containers	43.7	43.4	43.5	41.9	-	4.8	4.5	5.2	3.9	-
3411	Metal cans	43.7	43.4	43.1	41.6	-	4.4	4.1	4.6	3.7	-
342	Cutlery, hand tools, and hardware	41.0	41.0	40.5	38.3	-	3.4	3.4	3.4	1.6	-
3423, 5	Hand and edge tools, and hand saws and blades	41.8	41.0	40.5	39.4	-	3.8	3.2	3.5	2.1	-
3429	Hardware, nec	40.7	41.1	40.6	37.4	-	3.2	3.7	3.4	1.1	-
343	Plumbing and heating, except electric	39.2	39.1	40.1	37.6	-	2.0	2.2	2.7	1.4	-
3432	Plumbing fittings and brass goods	39.5	39.9	41.2	37.4	-	1.7	2.3	3.2	1.8	-
3433	Heating equipment, except electric	38.6	38.0	39.0	37.0	-	1.7	1.6	2.1	.9	-
344	Fabricated structural metal products	40.1	40.3	40.1	38.4	-	3.0	3.1	2.7	1.7	-
3441	Fabricated structural metal	40.5	40.5	40.7	39.3	-	3.0	3.3	3.7	2.6	-
3442	Metal doors, sash, and trim	39.0	39.7	38.3	37.0	-	2.6	2.9	1.5	.9	-
3443	Fabricated plate work (boiler shops)	40.5	40.8	40.9	38.8	-	3.2	3.2	2.6	1.4	-
3444	Sheet metal work	39.9	39.5	39.9	38.3	-	3.2	3.1	3.0	2.0	-
3446	Architectural metal work	39.2	40.0	39.7	37.0	-	1.5	2.0	1.7	1.1	-
345	Screw machine products, bolts, etc.	42.6	42.3	43.6	41.0	-	5.1	4.9	5.7	3.6	-
3451	Screw machine products	42.5	41.8	42.6	40.9	-	5.5	5.3	5.5	3.9	-
3452	Bolts, nuts, rivets, and washers	42.8	42.7	44.7	41.1	-	4.7	4.5	5.9	3.3	-
346	Metal forgings and stampings	42.4	42.1	42.3	37.4	-	5.0	4.9	4.8	2.3	-
3462	Iron and steel forgings	42.4	42.4	43.1	36.0	-	5.1	5.2	5.2	2.1	-
3466	Automotive stampings	44.0	43.5	42.2	36.2	-	6.5	6.2	5.5	2.5	-
3469	Metal stampings, nec	40.8	40.5	41.9	39.2	-	3.5	3.4	3.9	2.0	-
347	Metal services, nec	40.7	40.4	41.1	39.0	-	3.9	3.8	3.8	2.7	-
3471	Plating and polishing	40.6	40.4	41.1	38.8	-	3.8	3.8	3.7	2.6	-
3479	Metal coating and allied services	41.0	40.5	41.2	39.4	-	4.2	3.8	4.1	3.1	-
348	Ordnance and accessories, nec	41.1	40.7	41.2	40.0	-	3.0	2.7	2.7	1.7	-
3483	Ammunition, exc. for small arms, nec	40.1	39.8	40.2	38.0	-	2.1	1.8	1.7	1.4	-
349	Misc. fabricated metal products	40.8	40.7	41.3	38.9	-	3.2	3.1	3.4	1.8	-
3494	Valves and pipe fittings	41.7	41.8	42.1	39.1	-	3.5	3.6	3.7	1.9	-
3496	Misc. fabricated wire products	39.9	40.3	40.6	38.9	-	2.6	2.7	3.5	1.7	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	42.0	41.8	42.6	40.2	41.8	4.1	3.9	4.5	2.7	-
351	Engines and turbines	41.8	41.2	42.3	39.8	-	3.9	3.6	4.2	2.3	-
3511	Turbines and turbine generator sets	39.3	39.4	41.1	38.9	-	3.6	3.5	3.8	3.1	-
3519	Internal combustion engines, nec	42.8	41.9	42.7	40.1	-	4.0	3.6	4.4	2.0	-
352	Farm and garden machinery	40.7	40.3	42.6	41.1	-	3.3	3.0	5.4	3.8	-
3523	Farm machinery and equipment	40.6	40.4	43.0	41.6	-	3.2	3.0	5.7	4.1	-
353	Construction and related machinery	42.1	41.8	42.3	39.6	-	3.7	3.5	3.6	2.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>										
3531	Construction machinery .....	\$ 321.86	\$317.70	\$354.48	\$325.08	-	\$7.70	\$7.73	\$8.44	\$8.40	-
3532	Mining machinery .....	284.54	292.73	322.24	306.59	-	6.94	7.02	7.60	7.57	-
3533	Oil field machinery .....	286.67	287.77	306.42	291.17	-	6.53	6.57	6.98	7.05	-
3535	Conveyers and conveying equipment .....	259.98	256.81	271.55	253.99	-	6.19	6.10	6.45	6.43	-
3537	Industrial trucks and tractors .....	265.27	260.50	286.07	267.74	-	6.47	6.48	6.91	6.83	-
354	Metalworking machinery .....	304.54	303.10	332.72	308.17	-	6.89	6.92	7.46	7.32	-
3541	Machine tools, metal cutting types .....	316.85	316.80	341.69	320.03	-	7.01	7.04	7.61	7.46	-
3542	Machine tools, metal forming types .....	305.02	307.64	330.71	312.64	-	7.11	7.29	7.62	7.57	-
3544	Special dies, tools, jigs, and fixtures .....	335.67	331.52	366.62	340.34	-	7.41	7.40	7.97	7.86	-
3545	Machine tool accessories .....	270.19	270.47	295.31	268.37	-	6.24	6.29	6.82	6.61	-
3546	Power driven hand tools .....	221.81	218.41	245.78	223.69	-	5.41	5.44	5.98	5.81	-
355	Special industry machinery .....	261.88	263.13	285.02	266.78	-	6.28	6.31	6.77	6.72	-
3551	Food products machinery .....	270.50	276.71	300.42	284.97	-	6.63	6.70	7.17	7.16	-
3552	Textile machinery .....	210.83	212.57	230.88	223.91	-	5.18	5.21	5.55	5.57	-
3555	Printing trades machinery .....	281.23	275.84	290.07	269.70	-	6.48	6.46	6.89	6.88	-
356	General industrial machinery .....	271.26	271.83	300.17	276.90	-	6.60	6.63	7.13	7.01	-
3561	Pumps and pumping equipment .....	270.60	267.81	299.04	276.11	-	6.60	6.58	7.12	6.99	-
3562	Ball and roller bearings .....	268.46	271.83	305.73	283.81	-	6.58	6.63	7.16	7.06	-
3563	Air and gas compressors .....	284.34	286.79	303.64	280.80	-	6.77	6.78	7.37	7.20	-
3564	Blowers and fans .....	242.81	241.19	266.24	246.09	-	6.04	6.06	6.40	6.31	-
3566	Speed changers, drives, and gears .....	298.90	301.18	342.85	307.91	-	7.00	7.07	7.67	7.51	-
3568	Power transmission equipment, nec .....	264.99	268.09	293.16	264.49	-	6.37	6.46	6.98	6.73	-
357	Office and computing machines .....	225.23	224.95	245.68	238.60	-	5.48	5.50	5.92	5.95	-
3573	Electronic computing equipment .....	224.95	225.09	244.36	238.58	-	5.46	5.49	5.86	5.92	-
358	Refrigeration and service machinery .....	246.38	249.04	262.99	246.77	-	5.98	6.03	6.43	6.36	-
3585	Refrigeration and heating equipment .....	252.51	257.46	270.27	250.91	-	6.07	6.13	6.56	6.45	-
359	Misc. machinery, except electrical .....	269.87	271.99	301.80	275.40	-	6.38	6.43	6.97	6.80	-
3592	Carburetors, pistons, rings, valves .....	310.06	310.06	342.66	297.99	-	7.40	7.40	8.12	7.72	-
3599	Machinery, except electrical, nec .....	262.88	265.42	294.50	271.58	-	6.20	6.26	6.77	6.64	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b> .....	229.14	229.77	251.12	236.84	\$248.40	5.70	5.73	6.17	6.12	\$6.21
361	Electric distributing equipment .....	232.47	230.75	251.74	239.51	-	5.74	5.74	6.14	6.11	-
3612	Transformers .....	216.54	215.34	238.62	227.36	-	5.36	5.37	5.82	5.80	-
3613	Switchgear and switchboard apparatus .....	246.04	244.22	264.04	251.13	-	6.06	6.06	6.44	6.39	-
362	Electrical industrial apparatus .....	232.36	232.98	261.02	241.01	-	5.78	5.81	6.32	6.26	-
3621	Motors and generators .....	238.76	239.38	264.09	240.41	-	5.91	5.94	6.41	6.31	-
3622	Industrial controls .....	210.90	211.92	250.31	231.11	-	5.38	5.42	6.12	6.05	-
363	Household appliances .....	230.52	229.20	251.83	231.38	-	5.72	5.73	6.28	6.17	-
3632	Household refrigerators and freezers .....	250.20	245.59	268.00	253.55	-	6.00	5.99	6.70	6.69	-
3633	Household laundry equipment .....	262.28	258.45	295.07	215.22	-	6.64	6.61	7.34	7.15	-
3634	Electric housewares and fans .....	198.21	196.98	213.33	202.01	-	4.87	4.90	5.32	5.22	-
364	Electric lighting and wiring equipment .....	216.27	216.95	231.26	218.48	-	5.34	5.37	5.71	5.66	-
3641	Electric lamps .....	237.05	239.44	254.61	241.56	-	5.81	5.84	6.15	6.10	-
3643	Current-carrying wiring devices .....	202.95	204.09	217.75	204.19	-	4.95	4.99	5.35	5.29	-
3644	Noncurrent-carrying wiring devices .....	213.44	218.00	237.10	224.03	-	5.27	5.33	5.84	5.88	-
3645	Residential lighting fixtures .....	164.05	164.25	170.62	160.81	-	4.34	4.38	4.49	4.43	-
365	Radio and TV receiving equipment .....	203.31	203.56	228.34	205.77	-	5.24	5.26	5.87	5.78	-
3651	Radio and TV receiving sets .....	208.59	210.68	233.31	211.46	-	5.39	5.43	6.06	5.94	-
366	Communication equipment .....	261.20	262.25	291.87	280.10	-	6.53	6.54	7.05	7.02	-
3661	Telephone and telegraph apparatus .....	252.59	255.98	294.69	278.32	-	6.51	6.53	7.17	7.10	-
3662	Radio and TV communication equipment .....	268.55	267.24	289.54	281.88	-	6.55	6.55	6.96	6.96	-
367	Electronic components and accessories .....	192.96	193.36	210.20	202.41	-	4.80	4.81	5.19	5.19	-
3671-3	Electronic tubes .....	262.12	258.83	273.31	269.43	-	6.11	6.09	6.57	6.62	-
3674	Semiconductors and related devices .....	215.02	215.42	239.25	228.97	-	5.27	5.28	5.71	5.71	-
3679	Electronic components, nec .....	178.25	179.55	194.49	186.92	-	4.49	4.50	4.85	4.83	-
369	Misc. electrical equipment and supplies .....	272.83	279.76	295.51	271.74	-	6.72	6.84	7.19	7.04	-
3691	Storage batteries .....	272.56	280.55	287.83	258.11	-	6.78	6.91	7.25	7.13	-
3694	Engine electrical equipment .....	305.78	315.65	331.66	301.47	-	7.55	7.68	8.05	7.81	-
37	<b>TRANSPORTATION EQUIPMENT</b> .....	327.40	326.28	354.90	313.50	355.28	7.74	7.75	8.41	8.25	8.52
371	Motor vehicles and equipment .....	362.39	361.99	388.29	322.81	-	8.35	8.36	9.03	8.82	-
3711	Motor vehicles and car bodies .....	385.44	381.49	422.84	322.93	-	8.80	8.79	9.61	9.47	-
3713	Truck and bus bodies .....	272.43	270.41	279.86	257.18	-	6.76	6.71	6.91	6.75	-
3714	Motor vehicle parts and accessories .....	359.31	362.71	381.31	339.11	-	8.26	8.30	8.93	8.74	-
3715	Truck trailers .....	224.92	222.86	229.51	219.26	-	5.54	5.53	5.90	5.91	-
372	Aircraft and parts .....	310.17	307.33	341.97	321.53	-	7.35	7.37	7.99	7.90	-
3721	Aircraft .....	313.50	309.82	349.80	334.97	-	7.50	7.52	8.25	8.19	-
3724	Aircraft engines and engine parts .....	319.12	316.92	353.50	319.59	-	7.58	7.60	8.24	8.05	-
3728	Aircraft equipment, nec .....	291.17	288.23	307.55	291.33	-	6.74	6.75	7.07	7.02	-
373	Ship and boat building and repairing .....	254.27	251.68	(*)	(*)	-	6.47	6.47	(*)	(*)	-
3731	Shipbuilding and repairing .....	267.05	266.17	(*)	(*)	-	6.83	6.86	(*)	(*)	-
3732	Boat building and repairing .....	209.08	206.85	221.29	212.25	-	5.24	5.25	5.56	5.63	-
374	Railroad equipment ** .....	308.43	310.40	361.47	350.32	-	7.73	7.76	8.71	8.78	-

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**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>										
3531	Construction machinery .....	41.8	41.1	42.0	38.7	—	3.1	3.0	2.9	1.6	—
3532	Mining machinery .....	41.0	41.7	42.4	40.5	—	3.0	3.4	3.7	2.1	—
3533	Oil field machinery .....	43.9	43.8	43.9	41.3	—	5.0	4.9	5.1	3.7	—
3535	Conveyers and conveying equipment .....	42.0	42.1	42.1	39.5	—	3.9	4.2	3.9	2.3	—
3537	Industrial trucks and tractors .....	41.0	40.2	41.4	39.2	—	3.4	2.6	3.1	1.4	—
354	Metalworking machinery .....	44.2	43.8	44.6	42.1	—	5.9	5.6	6.4	4.3	—
3541	Machine tools, metal cutting types .....	45.2	45.0	44.9	42.9	—	6.2	6.0	6.5	4.9	—
3542	Machine tools, metal forming types .....	42.9	42.2	43.4	41.3	—	5.6	5.5	7.7	4.8	—
3544	Special dies, tools, jigs, and fixtures .....	45.3	44.8	46.0	43.3	—	7.3	6.8	7.4	5.3	—
3545	Machine tool accessories .....	43.3	43.0	43.3	40.6	—	4.6	4.4	5.3	3.4	—
3546	Power driven hand tools .....	41.0	40.1	41.1	38.5	—	3.4	2.8	3.6	.9	—
355	Special industry machinery .....	41.7	41.7	42.1	39.7	—	3.7	3.7	4.2	2.2	—
3561	Food products machinery .....	40.8	41.3	41.9	39.8	—	3.0	3.2	3.9	2.0	—
3562	Textile machinery .....	40.7	40.8	41.6	40.2	—	2.8	3.0	3.4	2.2	—
3565	Printing trades machinery .....	43.4	42.7	42.1	39.2	—	4.4	4.2	4.2	2.1	—
356	General industrial machinery .....	41.1	41.0	42.1	39.5	—	3.7	3.6	4.5	2.5	—
3561	Pumps and pumping equipment .....	41.0	40.7	42.0	39.5	—	3.8	3.5	4.3	2.2	—
3562	Ball and roller bearings .....	40.8	41.0	42.7	40.2	—	3.9	4.0	5.1	2.6	—
3563	Air and gas compressors .....	42.0	42.3	41.2	39.0	—	3.8	3.8	4.2	2.2	—
3564	Blowers and fans .....	40.2	39.8	41.6	39.0	—	3.1	3.3	4.0	2.5	—
3566	Speed changers, drives, and gears .....	42.7	42.6	44.7	41.0	—	4.0	3.9	6.4	4.0	—
3568	Power transmission equipment, nec .....	41.6	41.5	42.0	39.3	—	3.8	3.9	4.6	2.0	—
357	Office and computing machines .....	41.1	40.9	41.5	40.1	—	3.1	2.8	2.9	2.1	—
3573	Electronic computing equipment .....	41.2	41.0	41.7	40.3	—	3.2	2.9	2.9	2.1	—
358	Refrigeration and service machinery .....	41.2	41.3	40.9	38.8	—	3.2	3.4	2.7	1.2	—
3585	Refrigeration and heating equipment .....	41.6	42.0	41.2	38.9	—	3.4	3.6	3.0	1.3	—
359	Misc. machinery, except electrical .....	42.3	42.3	43.3	40.5	—	4.7	4.6	5.2	3.3	—
3582	Carburetors, pistons, rings, valves .....	41.9	41.9	42.2	38.6	—	3.4	3.2	4.0	1.7	—
3599	Machinery, except electrical, nec .....	42.4	42.4	43.5	40.9	—	4.9	4.9	5.4	3.6	—
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b> .....	40.2	40.1	40.7	38.7	40.0	2.5	2.5	2.9	1.8	—
361	Electric distributing equipment .....	40.5	40.2	41.0	39.2	—	2.4	2.2	2.8	1.9	—
3612	Transformers .....	40.4	40.1	41.0	39.2	—	2.1	1.9	3.0	2.4	—
3613	Switchgear and switchboard apparatus .....	40.6	40.3	41.0	39.3	—	2.7	2.5	2.6	1.5	—
362	Electrical industrial apparatus .....	40.2	40.1	41.3	38.5	—	2.7	2.6	3.3	1.9	—
3621	Motors and generators .....	40.4	40.3	41.2	38.1	—	2.8	2.8	3.4	1.9	—
3622	Industrial controls .....	39.2	39.1	40.9	38.2	—	2.0	1.9	2.8	1.2	—
363	Household appliances .....	40.3	40.0	40.1	37.5	—	2.2	2.0	2.2	1.5	—
3632	Household refrigerators and freezers .....	41.7	41.0	40.0	37.9	—	1.6	1.7	1.5	1.2	—
3633	Household laundry equipment .....	39.5	39.1	40.2	30.1	—	1.7	1.2	1.1	.2	—
3634	Electric housewares and fans .....	40.7	40.2	40.1	38.7	—	2.4	2.3	2.3	1.2	—
364	Electric lighting and wiring equipment .....	40.5	40.4	40.5	38.6	—	2.6	2.6	2.9	1.5	—
3641	Electric lamps .....	40.8	41.0	41.4	39.6	—	2.3	2.3	2.6	1.4	—
3643	Current-carrying wiring devices .....	41.0	40.9	40.7	38.6	—	2.6	2.8	2.9	1.5	—
3644	Noncurrent-carrying wiring devices .....	40.5	40.9	40.6	38.1	—	2.7	2.9	3.1	1.1	—
3645	Residential lighting fixtures .....	37.8	37.5	38.0	36.3	—	1.3	1.3	2.0	.7	—
365	Radio and TV receiving equipment .....	38.8	38.7	38.9	35.6	—	1.8	2.1	2.3	.8	—
3651	Radio and TV receiving sets .....	38.7	38.8	38.5	35.6	—	1.4	1.7	1.8	.8	—
366	Communication equipment .....	40.0	40.1	41.4	39.9	—	2.3	2.4	3.0	1.9	—
3661	Telephone and telegraph apparatus .....	38.8	39.2	41.1	39.2	—	1.7	2.3	3.3	1.8	—
3662	Radio and TV communication equipment .....	41.0	40.8	41.6	40.5	—	2.7	2.5	2.7	2.0	—
367	Electronic components and accessories .....	40.2	40.2	40.5	39.0	—	2.6	2.5	3.0	2.3	—
3671-3	Electronic tubes .....	42.9	42.5	41.6	40.7	—	2.4	2.2	2.2	1.5	—
3674	Semiconductors and related devices .....	40.8	40.8	41.9	40.1	—	3.2	2.9	3.7	3.1	—
3679	Electronic components, nec .....	39.7	39.9	40.1	38.7	—	2.5	2.5	3.0	2.2	—
369	Misc. electrical equipment and supplies .....	40.6	40.9	41.1	38.6	—	3.3	3.7	3.4	1.6	—
3691	Storage batteries .....	40.2	40.6	39.7	36.2	—	2.9	3.3	3.1	1.5	—
3694	Engine electrical equipment .....	40.5	41.1	41.2	38.6	—	3.9	4.6	3.5	1.4	—
37	<b>TRANSPORTATION EQUIPMENT</b> .....	42.3	42.1	42.2	38.0	41.7	4.9	4.9	5.0	2.8	—
371	Motor vehicles and equipment .....	43.4	43.3	43.0	36.6	—	6.0	6.1	6.0	2.6	—
3711	Motor vehicles and car bodies .....	43.8	43.4	44.0	34.1	—	6.3	6.3	7.1	2.7	—
3713	Truck and bus bodies .....	40.3	40.3	40.5	38.1	—	3.7	4.0	3.8	1.8	—
3714	Motor vehicle parts and accessories .....	43.5	43.7	42.7	38.8	—	6.2	6.4	5.5	2.7	—
3715	Truck trailers .....	40.6	40.3	38.9	37.1	—	3.0	2.7	2.3	1.5	—
372	Aircraft and parts .....	42.2	41.7	42.8	40.7	—	4.0	3.7	4.8	3.5	—
3721	Aircraft .....	41.8	41.2	42.4	40.9	—	3.2	2.9	4.3	3.7	—
3724	Aircraft engines and engine parts .....	42.1	41.7	42.9	39.7	—	4.6	4.4	5.3	2.4	—
3728	Aircraft equipment, nec .....	43.2	42.7	43.5	41.5	—	5.0	4.5	5.5	4.2	—
373	Ship and boat building and repairing .....	39.3	38.9	(*)	(*)	—	2.9	2.8	(*)	(*)	—
3731	Ship building and repairing .....	39.1	38.8	(*)	(*)	—	2.9	2.8	(*)	(*)	—
3732	Boat building and repairing .....	39.9	39.4	39.8	37.7	—	3.0	2.8	2.7	2.0	—
374	Railroad equipment <sup>2</sup> .....	39.9	40.0	41.5	39.9	—	2.9	3.2	4.5	3.8	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
376	Guided missiles, space vehicles, parts .....	\$305.98	\$307.13	\$340.26	\$326.30	-	\$7.32	\$7.33	\$7.95	\$7.92	-
3781	Guided missiles and space vehicles .....	308.10	308.84	336.96	323.21	-	7.46	7.46	8.10	8.06	-
379	Miscellaneous transportation equipment .....	218.51	221.29	224.85	222.00	-	5.56	5.56	5.98	6.00	-
3792	Travel trailers and campers .....	193.39	198.27	193.64	191.05	-	5.01	5.11	5.47	5.49	-
<b>INSTRUMENTS AND RELATED PRODUCTS</b>											
38	Engineering and scientific instruments .....	230.98	230.52	249.45	240.60	\$249.29	5.62	5.65	6.04	6.03	\$6.11
381	Measuring and controlling devices .....	256.61	254.07	267.97	253.26	-	5.94	5.95	6.35	6.30	-
382	Environmental controls .....	230.77	231.49	254.79	242.80	-	5.67	5.73	6.11	6.07	-
3822	Process control instruments .....	216.46	215.12	237.86	221.57	-	5.48	5.53	5.83	5.77	-
3823	Instruments to measure electricity .....	237.69	237.89	262.84	245.23	-	5.70	5.76	6.17	6.07	-
3825	Optical instruments and lenses .....	242.78	242.72	267.55	262.86	-	5.85	5.92	6.34	6.38	-
383	Medical instruments and supplies .....	255.35	259.60	299.92	288.63	-	5.87	5.90	6.52	6.53	-
384	Surgical and medical instruments .....	193.68	194.49	205.27	195.94	-	4.83	4.85	5.21	5.17	-
3841	Surgical appliances and supplies .....	191.06	191.94	200.88	191.38	-	4.66	4.67	5.06	5.01	-
3842	Ophthalmic goods .....	196.42	196.32	210.00	200.72	-	4.96	4.97	5.33	5.31	-
385	Photographic equipment and supplies .....	179.73	176.54	187.15	186.33	-	4.55	4.55	4.75	4.79	-
386	Watches, clocks, and watchcases .....	306.29	306.00	327.08	325.01	-	7.19	7.20	7.66	7.72	-
387	Signs and advertising displays .....	173.71	171.94	185.40	178.69	-	4.42	4.42	4.67	4.69	-
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>											
39	Jewelry, silverware, and plated ware .....	180.57	180.03	194.04	186.50	193.15	4.63	4.64	4.95	4.96	5.03
391	Jewelry, precious metal .....	183.35	180.40	193.42	188.74	-	4.75	4.76	5.05	5.06	-
3911	Musical instruments .....	180.69	174.74	183.89	180.77	-	4.73	4.71	4.93	4.98	-
393	Toys and sporting goods .....	175.38	175.95	188.25	182.47	-	4.44	4.50	4.79	4.84	-
394	Dolls, games, toys, and children's vehicles .....	166.53	165.64	177.77	171.58	-	4.27	4.82	4.57	4.60	-
3942, 4	Sporting and athletic goods, nec .....	157.32	156.91	172.48	160.21	-	4.14	4.14	4.48	4.48	-
3949	Pens, pencils, office and art supplies .....	173.96	172.53	181.89	175.78	-	4.36	4.39	4.64	4.70	-
395	Costume jewelry and notions .....	189.81	194.32	205.44	198.00	-	4.71	4.81	5.06	5.09	-
396	Costume jewelry .....	151.60	151.15	161.93	157.44	-	4.00	4.02	4.25	4.29	-
3961	Miscellaneous manufactures .....	140.25	140.61	148.27	146.47	-	3.75	3.79	4.04	4.08	-
399	Signs and advertising displays .....	203.18	203.70	221.05	210.10	-	5.17	5.17	5.54	5.50	-
3993	Signs and advertising displays .....	212.78	211.68	233.20	226.01	-	5.47	5.40	5.83	5.84	-
<b>NONDURABLE GOODS</b>											
<b>FOOD AND KINDRED PRODUCTS</b>											
20	Meat products .....	225.76	227.70	242.35	242.03	244.28	5.73	5.75	6.12	6.19	6.20
201	Meat packing plants .....	225.04	231.66	239.94	243.28	-	5.80	5.85	6.20	6.27	-
2011	Sausages and other prepared meats .....	284.56	288.97	301.04	309.55	-	6.89	6.98	7.47	7.55	-
2013	Poultry dressing plants .....	248.45	261.23	277.38	287.12	-	6.47	6.58	7.04	7.16	-
2016	Dairy products .....	131.72	138.38	145.20	142.04	-	3.70	3.73	4.00	3.99	-
202	Cheese, natural and processed .....	234.89	236.97	254.61	254.00	-	5.66	5.71	6.15	6.18	-
2022	Fluid milk .....	210.27	213.86	238.32	232.22	-	5.27	5.36	5.87	5.82	-
2026	Preserved fruits and vegetables .....	245.76	249.05	261.67	262.08	-	5.81	5.86	6.26	6.30	-
203	Canned specialties .....	189.25	189.76	206.56	200.30	-	5.02	5.02	5.31	5.37	-
2032	Canned fruits and vegetables .....	217.88	221.48	243.98	236.22	-	5.53	5.65	5.98	5.95	-
2033	Frozen fruits and vegetables .....	193.73	190.40	207.36	203.14	-	5.18	5.16	5.40	5.52	-
2037	Grain mill products .....	169.73	174.46	188.44	180.54	-	4.65	4.64	4.92	4.96	-
204	Flour and other grain mill products .....	261.80	260.18	282.10	276.54	-	6.16	6.18	6.53	6.60	-
2041	Prepared feeds, nec .....	289.16	288.16	303.35	299.64	-	6.44	6.49	6.91	6.92	-
2048	Bakery products .....	209.39	211.23	234.96	233.06	-	4.95	4.97	5.34	5.42	-
205	Bread, cake, and related products .....	226.01	230.89	242.79	241.94	-	5.81	5.89	6.29	6.35	-
2051	Cookies and crackers .....	225.04	231.67	240.66	242.32	-	5.80	5.91	6.30	6.36	-
2052	Sugar and confectionery products .....	229.91	229.31	248.29	241.42	-	5.85	5.82	6.27	6.32	-
206	Cane and beet sugar .....	215.17	219.13	231.21	223.34	-	5.56	5.59	5.99	6.02	-
2061-3	Confectionery products .....	251.46	263.48	279.17	261.72	-	6.60	6.62	7.14	7.27	-
2065	Fats and oils .....	191.07	192.73	202.54	199.39	-	4.95	4.98	5.33	5.36	-
207	Beverages .....	250.50	256.52	276.25	274.77	-	5.95	6.05	6.38	6.39	-
208	Malt beverages .....	274.86	269.56	291.13	302.06	-	6.77	6.79	7.26	7.44	-
2082	Bottled and canned soft drinks .....	388.94	385.81	416.91	445.16	-	9.13	9.23	9.95	10.21	-
2086	Misc. foods and kindred products .....	202.47	200.85	210.00	211.43	-	5.10	5.15	5.33	5.38	-
209	Misc. foods and kindred products .....	191.26	190.73	209.33	201.70	-	5.02	4.98	5.34	5.35	-
<b>TOBACCO MANUFACTURES</b>											
21	Cigarettes .....	243.07	247.43	256.79	259.82	264.80	6.33	6.41	6.74	6.91	6.95
211	Cigarettes .....	280.19	285.09	293.76	296.40	-	7.24	7.31	7.69	7.80	-
<b>TEXTILE MILL PRODUCTS</b>											
22	Weaving mills, cotton .....	168.89	170.11	182.61	172.54	179.95	4.17	4.19	4.52	4.47	4.51
221	Weaving mills, synthetics .....	170.40	172.08	196.09	181.83	-	4.26	4.27	4.68	4.58	-
222	Weaving and finishing mills, wool .....	183.10	183.52	196.35	185.40	-	4.37	4.38	4.72	4.67	-
223	Narrow fabric mills .....	175.87	180.09	187.68	179.66	-	4.30	4.35	4.60	4.56	-
224	Knitting mills .....	157.58	158.38	171.78	162.18	-	3.92	3.93	4.20	4.18	-
225	Knitting mills .....	152.10	153.27	160.27	153.97	-	3.92	3.93	4.24	4.23	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>p</sup>	May 1979 <sup>p</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>p</sup>	May 1979 <sup>p</sup>
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
376	Guided missiles, space vehicles, parts .....	41.8	41.9	42.8	41.2	—	3.3	3.2	4.6	3.6	—
3781	Guided missiles and space vehicles .....	41.3	41.4	41.6	40.1	—	2.6	2.6	3.6	2.7	—
379	Miscellaneous transportation equipment .....	39.3	39.8	37.6	37.0	—	2.6	2.7	1.5	.9	—
3782	Travel trailers and campers .....	38.6	38.8	35.4	34.8	—	2.9	3.0	.9	.5	—
<b>INSTRUMENTS AND RELATED PRODUCTS</b>											
38	Engineering and scientific instruments .....	41.1	40.8	41.3	39.9	40.8	2.4	2.3	2.8	1.9	—
381	Measuring and controlling devices .....	43.2	42.7	42.2	40.2	—	2.9	2.9	3.7	2.2	—
382	Environmental controls .....	40.7	40.4	41.7	40.0	—	2.1	2.0	2.7	1.5	—
3822	Process control instruments .....	39.5	38.9	40.8	38.4	—	1.6	1.4	1.7	.9	—
3823	Instruments to measure electricity .....	41.7	41.3	42.6	40.4	—	2.3	2.5	3.6	1.7	—
3825	Optical instruments and lenses .....	41.5	41.0	42.2	41.2	—	2.2	2.0	2.4	1.6	—
383	Medical instruments and supplies .....	43.5	44.0	46.0	44.2	—	3.3	3.2	4.7	3.8	—
384	Surgical and medical instruments .....	40.1	40.1	39.4	37.9	—	2.0	1.8	2.3	1.3	—
3841	Surgical appliances and supplies .....	41.0	41.1	39.7	38.2	—	1.9	1.8	2.9	1.8	—
3842	Ophthalmic goods .....	39.6	39.5	39.4	37.8	—	2.1	1.9	2.0	1.1	—
385	Photographic equipment and supplies .....	39.5	38.8	39.4	38.9	—	1.7	1.7	2.1	1.8	—
386	Watches, clocks, and watchcases .....	42.6	42.5	42.7	42.1	—	3.5	3.4	3.4	3.0	—
387	Watches, clocks, and watchcases .....	39.3	38.9	39.7	38.1	—	1.8	1.8	1.7	1.1	—
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>											
38	Jewelry, silverware, and plated ware .....	39.0	38.8	39.2	37.6	38.4	2.3	2.1	2.3	1.5	—
381	Jewelry, precious metal .....	38.6	37.9	38.3	37.3	—	2.7	2.5	2.0	1.5	—
3811	Musical instruments .....	38.2	37.1	37.3	36.3	—	3.0	2.5	1.8	1.5	—
383	Toys and sporting goods .....	39.5	39.1	39.3	37.7	—	1.9	1.8	1.5	.9	—
384	Dolls, games, toys, and children's vehicles .....	39.0	38.7	38.9	37.3	—	1.9	1.6	2.0	1.1	—
3842, 4	Sporting and athletic goods, nec .....	38.0	37.9	38.5	37.1	—	1.8	1.5	1.8	1.2	—
3848	Pens, pencils, office and art supplies .....	39.9	39.3	39.2	37.4	—	2.0	1.7	2.1	1.1	—
385	Costume jewelry and notions .....	40.3	40.4	40.6	38.9	—	2.6	2.3	2.7	1.5	—
386	Costume jewelry .....	37.9	37.6	38.1	36.7	—	2.4	2.5	2.1	1.7	—
3861	Miscellaneous manufactures .....	37.4	37.1	36.7	35.9	—	2.4	2.7	1.7	1.5	—
389	Signs and advertising displays .....	39.3	39.4	39.9	38.2	—	2.3	2.3	2.7	1.8	—
3893	Signs and advertising displays .....	38.9	39.2	40.0	38.7	—	2.1	2.2	2.7	2.0	—
<b>NONDURABLE GOODS</b>											
<b>FOOD AND KINDRED PRODUCTS</b>											
20	Meat products .....	39.4	39.6	39.6	39.1	39.4	3.7	3.8	3.6	3.3	—
201	Meat packing plants .....	38.8	39.6	38.7	38.8	—	3.5	3.9	3.5	3.6	—
2011	Sausages and other prepared meats .....	41.3	41.4	40.3	41.0	—	4.5	4.7	4.0	4.4	—
2013	Poultry dressing plants .....	38.4	39.7	39.4	40.1	—	3.0	3.5	3.8	4.2	—
2016	Dairy products .....	35.6	37.1	36.3	35.6	—	2.5	3.0	2.7	2.4	—
202	Cheese, natural and processed .....	41.5	41.5	41.4	41.1	—	4.1	4.1	3.9	3.8	—
2022	Fluid milk .....	39.9	39.9	40.6	39.9	—	3.8	3.6	3.8	3.3	—
2026	Preserved fruits and vegetables .....	42.3	42.5	41.8	41.6	—	4.2	4.3	4.1	4.1	—
203	Canned specialties .....	37.7	37.8	38.9	37.3	—	2.6	2.8	2.8	2.1	—
2032	Canned fruits and vegetables .....	39.4	39.2	40.8	39.7	—	2.8	3.9	4.3	3.6	—
2033	Frozen fruits and vegetables .....	37.4	36.9	38.4	36.8	—	2.9	2.8	2.6	1.8	—
2037	Grain mill products .....	36.5	37.6	38.3	36.4	—	2.3	2.9	2.8	2.1	—
204	Flour and other grain mill products .....	42.5	42.1	43.2	41.9	—	5.8	5.2	6.0	5.0	—
2041	Prepared feeds, nec .....	44.9	44.4	43.9	43.3	—	6.1	5.3	6.9	5.9	—
2048	Bakery products .....	42.3	42.5	44.0	43.0	—	5.7	5.8	6.2	5.4	—
205	Bread, cake, and related products .....	38.9	39.2	38.6	38.1	—	3.3	3.7	3.2	3.1	—
2051	Cookies and crackers .....	38.8	39.2	38.2	38.1	—	3.6	4.2	3.5	3.6	—
2052	Sugar and confectionery products .....	39.3	39.4	39.6	38.2	—	2.6	2.1	2.3	1.4	—
206	Cane and beet sugar .....	38.7	39.2	38.6	37.1	—	2.5	2.6	3.0	1.7	—
2061-3	Confectionery products .....	38.1	39.8	39.1	36.0	—	2.9	3.0	4.7	2.8	—
2065	Fats and oils .....	38.6	38.7	38.0	37.2	—	2.2	2.2	2.5	1.4	—
207	Beverages .....	42.1	42.4	43.3	43.0	—	5.3	5.4	5.6	5.2	—
208	Malt beverages .....	40.6	39.7	40.1	40.6	—	4.2	3.8	3.7	4.2	—
2082	Bottled and canned soft drinks .....	42.6	41.8	41.9	43.6	—	5.3	4.9	5.5	7.0	—
2086	Misc. foods and kindred products .....	39.7	39.0	39.4	39.3	—	4.0	3.5	3.1	3.1	—
209	Misc. foods and kindred products .....	38.1	38.3	39.2	37.7	—	3.5	3.7	3.2	2.6	—
<b>TOBACCO MANUFACTURES</b>											
21	Cigarettes .....	38.4	38.6	38.1	37.6	38.1	1.9	2.2	.9	.5	—
211	Cigarettes .....	38.7	39.0	38.2	38.0	—	2.0	2.5	.6	.3	—
<b>TEXTILE MILL PRODUCTS</b>											
22	Weaving mills, cotton .....	40.5	40.6	40.4	38.6	39.9	3.6	3.6	3.6	2.3	—
221	Weaving mills, synthetics .....	40.0	40.3	41.9	39.7	—	3.7	3.6	4.6	2.7	—
222	Weaving and finishing mills, wool .....	41.9	41.9	41.6	39.7	—	3.8	3.9	4.0	2.7	—
223	Narrow fabric mills .....	40.9	41.4	40.8	39.4	—	3.8	4.0	3.7	2.8	—
224	Knitting mills .....	40.2	40.3	40.9	38.8	—	3.2	3.5	3.1	1.8	—
225	Knitting mills .....	38.8	39.0	37.8	36.4	—	2.9	3.0	2.4	1.7	—

See footnotes at end of table.



# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
2251	Women's hosiery, except socks	\$ 135.03	\$135.74	\$154.28	\$145.75	—	\$ 3.62	\$ 3.61	\$ 4.06	\$ 4.06	—
2252	Hosiery, nec	138.00	140.22	146.03	140.10	—	3.68	3.67	3.99	3.98	—
2253	Knit outerwear mills	147.03	148.59	150.95	147.20	—	3.90	3.90	4.17	4.17	—
2254	Knit underwear mills	141.36	141.73	145.08	141.05	—	3.72	3.72	4.03	4.03	—
2257	Circular knit fabric mills	179.75	180.98	189.72	184.00	—	4.29	4.34	4.65	4.67	—
226	Textile finishing, except wool	186.43	187.68	194.95	187.85	—	4.46	4.49	4.79	4.78	—
2261	Finishing plants, cotton	187.23	186.26	197.88	184.60	—	4.49	4.51	4.85	4.77	—
2262	Finishing plants, synthetics	194.32	198.01	203.59	200.99	—	4.66	4.67	4.99	5.05	—
227	Floor covering mills	180.13	179.70	193.12	175.10	—	4.33	4.33	4.62	4.56	—
228	Yarn and thread mills	160.33	160.72	170.07	162.60	—	3.92	3.92	4.22	4.18	—
2281	Yarn mills, except wool	161.46	162.24	172.16	162.24	—	3.90	3.90	4.23	4.16	—
2282	Throwing and winding mills	151.62	150.82	160.33	162.76	—	3.80	3.78	4.09	4.11	—
229	Miscellaneous textile goods	189.11	192.82	206.91	192.85	—	4.59	4.68	4.95	4.87	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	140.37	139.26	148.33	141.70	\$147.35	3.91	3.89	4.19	4.18	\$4.21
231	Men's and boys' suits and coats	172.32	173.15	178.46	172.89	—	4.80	4.77	5.07	5.07	—
232	Men's and boys' furnishings	128.16	127.45	137.83	132.74	—	3.58	3.56	3.85	3.87	—
2321	Men's and boys' shirts and nightwear	124.87	124.12	135.00	127.91	—	3.44	3.41	3.75	3.74	—
2327	Men's and boys' separate trousers	129.55	126.66	137.94	131.60	—	3.67	3.65	3.93	3.94	—
2328	Men's and boys' work clothing	124.96	125.67	139.48	134.49	—	3.53	3.53	3.78	3.81	—
233	Women's and misses' outerwear	133.86	131.29	140.69	132.80	—	3.88	3.85	4.15	4.15	—
2331	Women's and misses' blouses and waists	125.94	125.98	134.94	128.64	—	3.64	3.62	3.90	3.91	—
2335	Women's and misses' dresses	134.19	129.03	138.35	130.66	—	3.97	3.91	4.27	4.27	—
2337	Women's and misses' suits and coats	138.24	140.35	145.52	135.91	—	4.09	4.14	4.37	4.37	—
2339	Women's and misses' outerwear, nec	134.95	132.73	143.82	135.41	—	3.78	3.76	4.04	4.03	—
234	Women's and children's undergarments	124.61	126.38	135.61	129.92	—	3.53	3.54	3.82	3.81	—
2341	Women's and children's underwear	122.14	123.53	132.40	127.16	—	3.47	3.47	3.74	3.74	—
2342	Brassieres and allied garments	133.89	137.94	148.63	142.96	—	3.74	3.80	4.14	4.12	—
236	Children's outerwear	128.12	128.47	136.76	132.59	—	3.51	3.51	3.82	3.81	—
2361	Children's dresses and blouses	124.24	125.98	133.16	133.41	—	3.49	3.48	3.73	3.79	—
238	Misc. apparel and accessories	141.38	140.25	148.64	141.45	—	3.75	3.75	4.05	4.03	—
239	Misc. fabricated textile products	173.95	173.18	183.92	174.58	—	4.53	4.51	4.84	4.77	—
2391	Curtains and draperies	125.94	126.25	138.00	132.86	—	3.46	3.44	3.68	3.65	—
2392	House furnishing, nec	143.64	142.88	155.45	149.85	—	3.78	3.78	4.08	4.05	—
2396	Automotive and apparel trimmings	300.85	292.47	313.16	279.33	—	7.41	7.33	7.79	7.57	—
26	<b>PAPER AND ALLIED PRODUCTS</b>	270.92	272.64	293.09	288.56	296.34	6.33	6.37	6.88	6.92	6.94
261, 262	Paper and pulp mills	322.11	323.63	355.16	359.34	—	7.19	7.24	7.91	7.95	—
262	Paper mills, except building paper	322.65	324.18	357.08	361.61	—	7.17	7.22	7.90	7.93	—
263	Paperboard mills	326.19	328.55	356.33	367.36	—	7.33	7.35	8.08	8.20	—
264	Misc. converted paper products	232.63	233.29	252.35	241.77	—	5.66	5.69	6.14	6.09	—
2641	Paper coating and glazing	280.58	283.39	308.07	389.43	—	6.48	6.47	6.97	6.81	—
2642	Envelopes	212.93	213.46	230.28	223.47	—	5.31	5.31	5.70	5.73	—
2643	Bags, except textile bags	219.24	222.09	236.74	226.16	—	5.40	5.43	5.76	5.74	—
265	Paperboard containers and boxes	240.81	242.92	254.20	241.30	—	5.72	5.77	6.14	6.14	—
2651	Folding paperboard boxes	252.36	252.70	253.37	243.59	—	5.91	5.96	6.21	6.23	—
2653	Corrugated and solid fiber boxes	252.03	255.60	271.97	256.07	—	5.93	6.00	6.46	6.45	—
2654	Sanitary food containers	226.56	227.27	235.25	222.51	—	5.42	5.45	5.71	5.72	—
27	<b>PRINTING AND PUBLISHING</b>	238.88	237.34	254.10	244.55	251.54	6.37	6.38	6.74	6.70	6.78
271	Newspapers	233.24	233.24	240.77	233.92	—	6.84	6.86	7.04	7.11	—
272	Periodicals	220.98	211.87	235.69	230.01	—	5.80	5.62	6.17	6.15	—
273	Books	218.95	219.94	232.65	227.76	—	5.46	5.54	5.95	5.87	—
2731	Book publishing	210.40	213.99	221.13	220.09	—	5.26	5.31	5.57	5.53	—
2732	Book printing	228.50	226.39	245.25	235.75	—	5.67	5.79	6.37	6.27	—
274	Miscellaneous publishing	212.43	203.55	207.20	205.71	—	5.68	5.75	5.92	5.98	—
275	Commercial printing	253.33	250.32	273.00	259.13	—	6.58	6.57	7.00	6.91	—
2751	Commercial printing, letterpress	239.62	234.12	251.79	241.52	—	6.24	6.21	6.54	6.51	—
2752	Commercial printing, lithographic	262.57	260.52	285.71	270.61	—	6.82	6.82	7.27	7.14	—
276	Manifold business forms	242.81	242.19	265.10	252.70	—	6.04	6.07	6.45	6.43	—
278	Blankbooks and bookbinding	189.42	189.31	205.25	197.98	—	4.92	4.93	5.29	5.21	—
279	Printing trade services	314.26	316.68	341.13	327.45	—	8.27	8.29	8.93	8.85	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	289.23	289.67	308.38	314.58	313.41	6.87	6.93	7.36	7.49	7.48
281	Industrial inorganic chemicals	312.38	312.25	332.64	347.28	—	7.42	7.47	7.92	8.21	—
2819	Industrial inorganic chemicals, nec	305.44	307.17	327.85	343.19	—	7.36	7.42	7.90	8.23	—
282	Plastics materials and synthetics	285.10	288.74	302.15	319.42	—	6.74	6.81	7.16	7.36	—
2821	Plastics materials and resins	318.42	318.51	336.87	348.57	—	7.32	7.39	7.78	8.05	—
2824	Organic fibers, noncellulosic	262.91	269.42	280.54	303.35	—	6.32	6.43	6.76	6.91	—
283	Drugs	262.91	262.34	279.86	273.78	—	6.32	6.43	6.76	6.76	—
2834	Pharmaceutical preparations	253.78	253.75	271.26	261.09	—	6.22	6.25	6.60	6.56	—

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**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
2251	Women's hosiery, except socks	37.3	37.6	38.0	35.9	—	1.8	1.7	2.6	1.2	—
2252	Hosiery, nec	37.5	38.0	36.6	35.2	—	2.1	2.2	1.8	1.2	—
2253	Knit outerwear mills	37.7	38.1	36.2	35.3	—	2.4	2.6	1.7	1.3	—
2254	Knit underwear mills	38.0	38.1	36.0	35.0	—	2.1	2.2	1.2	.9	—
2257	Circular knit fabric mills	41.9	41.7	40.8	39.4	—	5.3	5.2	4.6	3.9	—
226	Textile finishing, except wool	41.8	41.8	40.7	39.3	—	4.3	4.3	3.4	2.1	—
2261	Finishing plants, cotton	41.7	41.3	40.8	38.7	—	4.3	4.2	3.3	1.3	—
2262	Finishing plants, synthetics	41.7	42.4	40.8	39.8	—	4.6	4.8	3.8	2.9	—
227	Floor covering mills	41.6	41.5	41.8	38.4	—	4.3	4.0	4.4	2.5	—
228	Yarn and thread mills	40.9	41.0	40.3	38.9	—	3.8	3.8	3.5	2.4	—
2281	Yarn mills, except wool	41.4	41.6	40.7	39.0	—	4.2	4.2	3.8	2.5	—
2282	Throwing and winding mills	39.9	39.9	39.2	39.6	—	3.2	3.2	3.2	3.1	—
228	Miscellaneous textile goods	41.2	41.2	41.8	39.6	—	3.7	3.9	3.9	2.5	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	35.9	35.8	35.4	33.9	35.0	1.3	1.2	1.1	.6	—
231	Men's and boys' suits and coats	35.9	36.3	35.2	34.1	—	.8	.8	.7	.4	—
232	Men's and boys' furnishings	35.8	35.8	35.8	34.3	—	.9	.9	.8	.5	—
2321	Men's and boys' shirts and nighwear	36.3	36.4	36.0	34.2	—	.9	.8	1.0	.5	—
2327	Men's and boys' separate trousers	35.3	34.7	35.1	33.4	—	.8	.8	.6	.3	—
2328	Men's and boys' work clothing	35.4	35.6	36.9	35.3	—	.8	.7	.9	.7	—
233	Women's and misses' outerwear	34.5	34.1	33.9	32.0	—	1.3	1.2	1.1	.7	—
2331	Women's and misses' blouses and waists	34.6	34.8	34.6	32.9	—	1.0	1.1	1.1	.5	—
2336	Women's and misses' dresses	33.8	33.0	32.4	30.6	—	1.4	1.2	1.1	.8	—
2337	Women's and misses' suits and coats	33.8	33.9	33.3	31.1	—	1.3	1.3	.8	.4	—
2339	Women's and misses' outerwear, nec	35.7	35.3	35.6	33.6	—	1.4	1.3	1.3	.7	—
234	Women's and children's undergarments	35.3	35.7	35.5	34.1	—	.8	.8	.9	.6	—
2341	Women's and children's underwear	35.2	35.6	35.4	34.0	—	.8	.8	.9	.6	—
2342	Brassieres and allied garments	35.8	36.3	35.9	34.7	—	.9	1.0	.9	.5	—
236	Children's outerwear	36.5	36.6	35.8	34.8	—	1.6	1.6	1.2	.6	—
2361	Children's dresses and blouses	35.6	36.2	35.7	35.2	—	2.1	2.1	1.1	1.0	—
238	Misc. apparel and accessories	37.7	37.4	36.7	35.1	—	1.4	1.6	1.3	.8	—
239	Misc. fabricated textile products	38.4	38.4	38.0	36.6	—	2.1	2.0	1.8	1.0	—
2391	Curtains and draperies	36.4	36.7	37.5	36.4	—	1.0	1.1	.9	.5	—
2392	House furnishings, nec	38.0	37.8	38.1	37.0	—	1.5	1.3	1.4	1.0	—
2398	Automotive and apparel trimmings	40.6	39.9	40.2	36.9	—	4.0	3.5	3.6	1.5	—
26	<b>PAPER AND ALLIED PRODUCTS</b>	42.8	42.8	42.6	41.7	42.7	4.9	4.8	4.7	4.0	—
261, 2, 6	Paper and pulp mills	44.8	44.7	44.9	45.2	—	6.4	6.2	6.4	6.4	—
262	Paper mills, except building paper	45.0	44.9	45.2	45.6	—	6.6	6.4	6.5	6.4	—
263	Paperboard mills	44.5	44.7	44.1	44.8	—	6.9	7.1	6.8	7.0	—
264	Misc. converted paper products	41.1	41.0	41.1	39.7	—	3.7	3.6	3.6	2.4	—
2641	Paper coating and glazing	43.3	43.8	44.2	42.5	—	5.4	5.2	5.6	3.7	—
2642	Envelopes	40.1	40.2	40.4	39.0	—	3.0	2.9	3.1	2.1	—
2643	Bags, except textile bags	40.6	40.9	41.1	39.4	—	3.3	3.3	3.5	2.3	—
265	Paperboard containers and boxes	42.1	42.1	41.4	39.3	—	4.0	3.9	3.5	2.4	—
2651	Folding paperboard boxes	42.7	42.4	40.8	39.1	—	4.4	4.2	3.1	1.9	—
2653	Corrugated and solid fiber boxes	42.5	42.6	42.1	39.7	—	4.2	4.3	4.2	2.8	—
2654	Sanitary food containers	41.8	41.7	41.2	38.9	—	3.6	3.2	3.2	2.3	—
27	<b>PRINTING AND PUBLISHING</b>	37.5	37.2	37.7	36.5	37.1	2.9	2.7	3.0	2.3	—
271	Newspapers	34.1	34.0	34.2	32.9	—	1.9	1.9	2.0	1.8	—
272	Periodicals	38.1	37.7	38.2	37.4	—	2.7	2.5	2.6	2.1	—
273	Books	40.1	39.7	39.1	38.8	—	4.0	3.6	4.0	3.3	—
2731	Book publishing	40.0	40.3	39.7	39.8	—	3.4	3.2	3.0	2.8	—
2732	Book printing	40.3	39.1	38.5	37.6	—	4.7	4.1	5.0	3.8	—
274	Miscellaneous publishing	37.4	35.4	35.0	34.4	—	2.1	2.0	2.1	1.9	—
275	Commercial printing	38.5	38.1	39.0	37.5	—	3.4	3.1	3.6	2.6	—
2751	Commercial printing, letterpress	38.4	37.7	38.5	37.1	—	3.1	2.7	3.2	2.2	—
2752	Commercial printing, lithographic	38.5	38.2	39.3	37.9	—	3.6	3.3	3.9	2.8	—
276	Manifold business forms	40.2	39.9	41.1	39.3	—	3.1	2.8	3.5	2.0	—
278	Blankbooks and bookbinding	38.5	38.4	38.8	38.0	—	2.2	2.2	2.2	1.7	—
279	Printing trade service	38.0	38.2	38.2	37.0	—	3.0	3.0	3.5	2.5	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	42.1	41.8	41.9	42.0	41.9	3.6	3.4	3.5	3.5	—
281	Industrial inorganic chemicals	42.1	41.8	42.0	42.3	—	3.7	3.6	3.4	4.6	—
2819	Industrial inorganic chemicals, nec	41.5	41.4	41.5	41.7	—	3.2	3.1	2.9	4.2	—
282	Plastics materials and synthetics	42.3	42.4	42.2	43.4	—	3.3	3.3	3.3	3.8	—
2821	Plastics materials and resins	43.5	43.1	43.3	43.3	—	4.6	4.5	4.4	4.6	—
2824	Organic fibers, noncellulosic	41.6	41.9	41.5	43.9	—	2.5	2.5	2.4	3.2	—
283	Drugs	41.6	40.8	41.4	40.5	—	2.8	2.8	3.0	2.2	—
2834	Pharmaceutical preparations	40.8	40.6	41.1	39.8	—	2.8	2.7	3.0	1.9	—

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods	\$269.94	\$268.77	\$284.42	\$271.36	-	\$6.60	\$6.62	\$7.04	\$7.03	
2841	Soap and other detergents	369.29	361.63	390.92	368.85	-	8.47	8.41	9.07	9.13	
2842, 3	Polishing, sanitation, and finishing preparations	241.49	239.99	255.04	250.63	-	5.89	5.97	6.36	6.41	
2844	Toilet preparations	211.46	216.45	219.65	210.53	-	5.45	5.55	5.72	5.69	
285	Paints and allied products	261.46	263.97	277.89	269.84	-	6.27	6.30	6.68	6.63	
286	Industrial organic chemicals	345.91	348.47	379.26	402.28	-	8.12	8.18	8.82	9.04	
2865	Cyclic crudes and intermediates	317.69	317.15	354.01	355.73	-	7.44	7.48	8.31	8.37	
2861, 9	Gum, wood, and industrial organic chemicals, nec	355.71	359.53	388.33	420.38	-	8.35	8.42	9.01	9.28	
287	Agricultural chemicals	275.75	276.49	297.56	304.76	-	6.31	6.46	6.92	6.99	-
289	Miscellaneous chemical products	267.52	266.62	282.62	279.61	-	6.40	6.44	6.81	6.87	-
29	<b>PETROLEUM AND COAL PRODUCTS</b>	370.20	265.51	406.46	416.86	\$400.09	8.53	8.52	9.28	9.41	\$9.24
291	Petroleum refining	399.04	394.40	439.62	455.94	-	9.28	9.28	10.06	10.20	-
295	Paving and roofing materials	284.48	285.12	307.98	305.11	-	6.28	6.35	6.89	6.95	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	219.22	221.00	241.36	228.52	240.35	5.36	5.43	5.83	5.80	5.92
301	Tires and inner tubes	318.42	330.93	368.24	343.21	-	7.51	7.75	8.35	8.29	-
302	Rubber and plastics footwear	146.66	145.52	153.85	146.97	-	3.78	3.77	4.07	4.06	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	226.29	228.73	247.10	231.27	-	5.56	5.62	5.94	5.93	-
306	Fabricated rubber products, nec	209.09	209.90	229.48	215.83	-	5.17	5.15	5.57	5.52	-
307	Miscellaneous plastics products	200.65	199.89	218.12	207.23	-	4.93	4.96	5.32	5.30	-
31	<b>LEATHER AND LEATHER PRODUCTS</b>	145.13	146.28	149.70	147.07	150.06	3.87	3.88	4.17	4.19	4.18
311	Leather tanning and finishing	209.00	207.14	207.82	204.71	-	5.11	5.14	5.37	5.43	-
314	Footwear, except rubber	139.50	141.75	142.97	141.35	-	3.73	3.74	4.05	4.05	-
3143	Men's footwear, except athletic	148.61	149.00	157.03	153.19	-	3.87	3.87	4.21	4.22	-
3144	Women's footwear, except athletic	132.13	135.77	130.65	129.59	-	3.63	3.64	3.90	3.88	-
316	Luggage	148.96	148.96	150.73	145.42	-	4.07	4.07	4.27	4.38	-
317	Handbags and personal leather goods	133.94	135.39	148.06	142.31	-	3.70	3.74	3.98	4.02	-
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	296.51	297.26	314.81	307.72	312.84	7.45	7.45	7.89	7.87	7.92
	<b>RAILROAD TRANSPORTATION:</b>										
4011	Class 1 railroads <sup>2</sup>	328.60	347.14	379.30	(*)	-	7.75	7.68	8.64	(*)	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>	189.54	187.76	194.03	202.19	-	5.51	5.49	5.69	5.81	-
411	Local and suburban transportation	287.02	282.31	282.62	296.87	-	6.85	6.77	6.91	6.92	-
413	Intercity highway transportation	297.83	282.72	302.28	344.66	-	7.90	7.81	8.42	8.51	-
42	<b>TRUCKING AND WAREHOUSING</b>	312.66	312.76	326.84	292.25	-	7.72	7.78	8.09	7.92	-
421, 3	Trucking and trucking terminals	319.93	319.98	333.32	297.78	-	7.88	7.94	8.23	8.07	-
422	Public warehousing	212.86	212.39	220.61	216.20	-	5.43	5.46	5.73	5.75	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b>	361.27	355.97	393.55	398.55	-	8.79	8.64	9.26	9.65	-
48	<b>COMMUNICATION</b>	282.74	282.35	297.86	301.29	-	7.14	7.13	7.56	7.57	-
481	Telephone communication	289.35	290.07	308.09	312.35	-	7.27	7.27	7.78	7.77	-
4817	Switchboard operating employees <sup>3</sup>	211.24	209.84	211.55	240.01	-	6.07	6.03	6.43	6.63	-
4818	Line construction employees <sup>4</sup>	396.03	398.25	412.34	418.75	-	8.84	8.85	9.35	9.41	-
483	Radio and television broadcasting	246.62	244.46	248.82	253.46	-	6.49	6.45	6.60	6.67	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	312.75	313.25	330.79	332.86	-	7.50	7.53	7.99	8.04	-
491	Electric services	319.79	321.64	336.88	340.65	-	7.56	7.64	8.04	8.13	-
492	Gas production and distribution	283.10	284.20	301.44	299.25	-	6.99	7.00	7.48	7.50	-
493	Combination utility services	345.28	343.21	367.38	370.82	-	8.28	8.27	8.81	8.85	-
496	Sanitary services	255.60	252.70	265.27	262.40	-	6.00	5.96	6.47	6.40	-
	<b>WHOLESALE AND RETAIL TRADE</b>	150.42	150.75	161.35	162.18	161.68	4.60	4.61	4.98	4.99	4.99
50, 51	<b>WHOLESALE TRADE</b>	224.26	223.69	242.74	243.18	244.05	5.78	5.78	6.24	6.30	6.29
50	<b>WHOLESALE TRADE-DURABLE GOODS</b>	227.94	227.36	245.86	244.44	-	5.80	5.80	6.24	6.30	-
501	Motor vehicles and automotive equipment	206.66	206.21	226.98	224.79	-	5.34	5.37	5.85	5.90	-
502	Furniture and home furnishings	196.70	196.32	210.75	217.93	-	5.19	5.18	5.62	5.89	-
503	Lumber and construction materials	227.52	226.91	249.15	247.74	-	5.76	5.73	6.26	6.32	-
504	Sporting goods, toys, and hobby goods	224.32	227.02	236.33	239.84	-	5.95	5.99	6.37	6.43	-

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**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	40.9	40.6	40.4	38.6	—	3.1	3.0	3.2	2.3	—
2841	Soap and other detergents .....	43.6	43.0	43.1	40.4	—	4.6	4.2	5.0	3.9	—
2842, 3	Polishing, sanitation, and finishing preparations .....	41.0	40.2	40.1	39.1	—	3.3	3.0	3.1	2.5	—
2844	Toilet preparations .....	38.8	39.0	38.4	37.0	—	1.8	2.0	1.9	1.0	—
285	Paints and allied products .....	41.7	41.9	41.6	40.7	—	3.7	3.7	3.4	2.5	—
286	Industrial organic chemicals .....	42.6	42.6	43.0	44.5	—	3.6	3.5	3.9	4.2	—
2865	Cyclic crudes and intermediates .....	42.7	42.4	42.6	42.5	—	4.0	3.7	4.5	4.0	—
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	42.6	42.7	43.1	45.3	—	3.4	3.4	3.7	4.3	—
287	Agricultural chemicals .....	43.7	42.8	43.0	43.6	—	6.4	5.0	5.0	5.6	—
289	Miscellaneous chemical products .....	41.8	41.4	41.5	40.7	—	3.4	3.3	3.2	2.9	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	43.4	42.9	43.8	44.3	43.3	4.2	4.1	4.1	4.5	—
291	Petroleum refining .....	43.0	42.5	43.7	44.7	—	3.6	3.4	3.5	4.2	—
295	Paving and roofing materials .....	45.3	44.9	44.7	43.9	—	7.0	6.9	6.6	6.3	—
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	40.9	40.7	41.4	39.4	40.6	3.5	3.5	3.7	2.4	—
301	Tires and inner tubes .....	42.4	42.7	44.1	41.4	—	4.1	4.7	5.4	3.4	—
302	Rubber and plastics footwear .....	38.8	38.6	37.8	36.2	—	2.3	2.6	1.8	1.1	—
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	40.7	40.7	41.6	39.0	—	3.9	4.1	4.4	2.4	—
306	Fabricated rubber products, nec .....	40.6	40.6	41.2	39.1	—	3.1	3.1	3.4	1.9	—
307	Miscellaneous plastics products .....	40.7	40.3	41.0	39.1	—	3.4	3.2	3.5	2.3	—
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	37.5	37.7	35.9	35.1	35.9	1.9	1.9	1.2	.8	—
311	Leather tanning and finishing .....	40.9	40.3	38.7	37.7	—	3.6	3.5	2.4	1.9	—
314	Footwear, except rubber .....	37.4	37.9	35.3	34.9	—	1.9	1.9	1.0	.6	—
3143	Men's footwear, except athletic .....	38.4	38.5	37.3	36.3	—	2.1	2.1	1.0	.5	—
3144	Women's footwear, except athletic .....	36.4	37.3	33.5	33.4	—	1.9	1.9	1.1	.9	—
316	Luggage .....	36.6	36.6	35.3	33.2	—	1.6	1.6	1.4	.7	—
317	Handbags and personal leather goods .....	36.2	36.2	37.2	35.4	—	1.6	1.3	1.6	.9	—
—	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	39.8	39.9	39.9	39.1	39.5	—	—	—	—	—
	<b>RAILROAD TRANSPORTATION:</b>										
4011	Class 1 railroads <sup>2</sup> .....	42.4	45.2	43.9	(*)	—	—	—	—	—	—
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	34.4	34.2	34.1	34.8	—	—	—	—	—	—
411	Local and suburban transportation .....	41.9	41.7	40.9	42.9	—	—	—	—	—	—
413	Intercity highway transportation .....	37.7	36.2	35.9	40.5	—	—	—	—	—	—
42	<b>TRUCKING AND WAREHOUSING</b> .....	40.5	40.2	40.4	36.9	—	—	—	—	—	—
421, 3	Trucking and trucking terminals .....	40.6	40.3	40.5	36.9	—	—	—	—	—	—
422	Public warehousing .....	39.2	38.9	38.5	37.6	—	—	—	—	—	—
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	41.1	41.2	42.5	41.3	—	—	—	—	—	—
48	<b>COMMUNICATION</b> .....	39.6	39.6	39.4	39.8	—	—	—	—	—	—
481	Telephone communication .....	39.8	39.9	39.6	40.2	—	—	—	—	—	—
4817	Switchboard operating employees <sup>3</sup> .....	34.8	34.8	32.9	36.2	—	—	—	—	—	—
4818	Line construction employees <sup>4</sup> .....	44.8	45.0	44.1	44.5	—	—	—	—	—	—
483	Radio and television broadcasting .....	38.0	37.9	37.7	38.0	—	—	—	—	—	—
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	41.7	41.6	41.4	41.4	—	—	—	—	—	—
491	Electric services .....	42.3	42.1	41.9	41.9	—	—	—	—	—	—
492	Gas production and distribution .....	40.5	40.6	40.3	39.9	—	—	—	—	—	—
493	Combination utility services .....	41.7	41.5	41.7	41.9	—	—	—	—	—	—
495	Sanitary services .....	42.6	42.4	41.0	41.0	—	—	—	—	—	—
—	<b>WHOLESALE AND RETAIL TRADE</b> .....	32.7	32.7	32.4	32.5	32.4	—	—	—	—	—
50, 51	<b>WHOLESALE TRADE</b> .....	38.8	38.7	38.9	38.6	38.8	—	—	—	—	—
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	39.3	39.2	39.4	38.8	—	—	—	—	—	—
501	Motor vehicles and automotive equipment .....	38.7	38.4	38.8	38.1	—	—	—	—	—	—
502	Furniture and home furnishings .....	37.9	37.9	37.5	37.0	—	—	—	—	—	—
503	Lumber and construction materials .....	39.5	39.6	39.8	39.2	—	—	—	—	—	—
504	Sporting goods, toys, and hobby goods .....	37.7	37.9	37.1	37.3	—	—	—	—	—	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	\$261.62	\$262.28	\$288.55	\$285.98	—	\$6.59	\$6.59	\$7.16	\$7.24	—
506	Electrical goods .....	227.76	226.01	245.50	241.42	—	5.87	5.84	6.36	6.37	—
507	Hardware, plumbing, and heating equipment .....	218.06	215.00	228.10	229.14	—	5.62	5.57	5.94	6.03	—
508	Machinery, equipment, and supplies .....	242.80	242.99	259.20	258.84	—	6.07	6.09	6.48	6.52	—
509	Miscellaneous durable goods .....	194.43	195.32	213.47	207.97	—	4.96	4.97	5.35	5.36	—
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	218.12	217.35	238.37	240.66	—	5.74	5.75	6.24	6.30	—
511	Paper and paper products .....	240.83	237.04	276.74	280.49	—	6.58	6.53	7.52	7.54	—
512	Drugs, proprietaries, and sundries .....	228.82	224.32	239.77	244.02	—	5.99	5.95	6.36	6.49	—
513	Apparel, piece goods, and notions .....	192.58	192.05	212.54	213.44	—	5.32	5.32	5.76	5.80	—
514	Groceries and related products .....	221.56	222.32	239.51	242.44	—	5.80	5.82	6.27	6.33	—
516	Chemicals and allied products .....	254.26	249.36	284.71	288.95	—	6.57	6.46	7.10	7.26	—
517	Petroleum and petroleum products .....	260.11	258.30	296.51	304.87	—	6.62	6.64	7.45	7.66	—
518	Beer, wine, and distilled beverages .....	260.22	258.38	268.53	270.00	—	6.83	6.89	7.18	7.20	—
519	Miscellaneous nondurable goods .....	179.55	179.83	196.48	198.01	—	4.75	4.77	5.13	5.17	—
52-59	<b>RETAIL TRADE</b> .....	127.93	128.24	135.44	137.09	\$136.64	4.14	4.15	4.47	4.48	\$4.48
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	169.80	172.21	181.39	181.54	—	4.54	4.58	4.85	4.88	—
521	Lumber and other building materials .....	189.43	192.37	201.06	200.58	—	4.82	4.87	5.09	5.13	—
526	Hardware stores .....	137.75	135.37	143.56	144.67	—	3.85	3.89	4.21	4.23	—
53	<b>GENERAL MERCHANDISE STORES</b> .....	116.80	117.49	125.28	126.00	—	4.00	4.01	4.32	4.33	—
531	Department stores .....	121.47	122.60	129.92	130.50	—	4.16	4.17	4.48	4.50	—
533	Variety stores .....	95.24	96.10	106.14	107.45	—	3.33	3.36	3.66	3.63	—
539	Misc. general merchandise stores .....	96.34	93.81	99.53	101.21	—	3.19	3.18	3.48	3.49	—
54	<b>FOOD STORES</b> .....	163.06	164.21	173.78	178.64	—	5.16	5.18	5.57	5.60	—
541	Grocery stores .....	169.39	171.09	180.18	185.22	—	5.31	5.33	5.72	5.77	—
546	Retail bakeries .....	113.20	113.49	122.55	128.65	—	3.89	3.90	4.27	4.26	—
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	184.01	184.64	195.38	199.81	—	4.92	4.95	5.21	5.30	—
551, 2	New and used car dealers .....	229.10	229.08	240.79	245.31	—	5.92	5.95	6.19	6.29	—
553	Auto and home supply stores .....	177.51	181.65	187.80	192.71	—	4.46	4.53	4.66	4.77	—
554	Gasoline service stations .....	127.00	127.33	135.29	137.11	—	3.66	3.68	3.91	3.94	—
56	<b>APPAREL AND ACCESSORY STORES</b> .....	106.87	108.04	113.18	117.41	—	3.66	3.70	3.93	3.98	—
561	Men's and boys' clothing and furnishings .....	134.50	134.72	142.40	146.12	—	4.19	4.21	4.45	4.51	—
562	Women's ready-to-wear stores .....	95.70	96.60	100.01	102.57	—	3.43	3.45	3.65	3.65	—
565	Family clothing stores .....	100.55	102.47	108.38	113.07	—	3.42	3.45	3.75	3.82	—
566	Shoe stores .....	113.00	114.40	117.58	126.44	—	3.91	4.00	4.14	4.33	—
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	163.44	163.31	175.74	177.32	—	4.71	4.72	5.05	5.11	—
571	Furniture and home furnishings .....	169.61	171.15	180.09	180.26	—	4.86	4.89	5.19	5.24	—
572	Household appliance stores .....	175.58	170.72	193.68	194.39	—	4.96	4.92	5.38	5.37	—
573	Radio, television, and music stores .....	139.93	137.61	153.11	158.12	—	4.14	4.12	4.49	4.61	—
58	<b>EATING AND DRINKING PLACES<sup>5</sup></b> .....	85.91	85.91	89.26	90.63	—	3.17	3.17	3.42	3.42	—
59	<b>MISCELLANEOUS RETAIL</b> .....	130.57	130.25	138.29	138.41	—	4.03	4.02	4.39	4.38	—
591	Drug stores and proprietary stores .....	115.67	115.36	122.51	123.93	—	3.83	3.82	4.03	4.05	—
594	Miscellaneous shopping goods stores .....	116.81	116.69	124.92	124.01	—	3.72	3.74	4.15	4.12	—
596	Nonstore retailers .....	165.50	163.79	170.75	166.72	—	4.61	4.64	5.19	5.21	—
598	Fuel and ice dealers .....	202.41	197.49	224.62	223.10	—	5.19	5.17	5.73	5.75	—
599	Retail stores, nec .....	127.26	133.57	141.26	146.93	—	3.94	3.94	4.32	4.36	—
—	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>5</sup></b> .....	177.14	176.06	187.31	190.01	187.88	4.84	4.85	5.16	5.22	5.19
60	<b>BANKING</b> .....	154.29	150.95	160.89	162.79	—	4.17	4.17	4.42	4.46	—
602	Commercial and stock savings banks .....	150.96	147.70	157.98	160.67	—	4.08	4.08	4.34	4.39	—
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	161.85	158.70	165.71	171.12	—	4.41	4.36	4.54	4.65	—
612	Savings and loan associations .....	154.76	150.84	158.15	165.17	—	4.24	4.19	4.43	4.55	—
614	Personal credit institutions .....	155.49	154.28	162.29	167.24	—	4.26	4.25	4.41	4.52	—
63	<b>INSURANCE CARRIERS</b> .....	193.21	192.70	206.64	207.57	—	5.18	5.18	5.54	5.55	—
631	Life insurance .....	191.73	191.36	207.57	210.37	—	5.21	5.20	5.61	5.58	—
632	Medical service and health insurance .....	190.64	188.88	201.47	198.81	—	5.03	5.01	5.33	5.33	—
633	Fire, marine, and casualty insurance .....	194.48	193.29	207.39	207.01	—	5.20	5.21	5.59	5.61	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	<b>WHOLESALE TRADE-DURABLE</b>										
	<b>GOODS—Continued</b>										
506	Metals and minerals, except petroleum .....	39.7	39.8	40.3	39.5	—	—	—	—	—	—
506	Electrical goods .....	38.8	38.7	38.6	37.9	—	—	—	—	—	—
507	Hardware, plumbing, and heating equipment .....	38.8	38.6	38.4	38.0	—	—	—	—	—	—
508	Machinery, equipment, and supplies .....	40.0	39.9	40.0	39.7	—	—	—	—	—	—
509	Miscellaneous durable goods .....	39.2	39.3	39.9	38.8	—	—	—	—	—	—
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	38.0	37.8	38.2	38.2	—	—	—	—	—	—
511	Paper and paper products .....	36.6	36.3	36.8	37.2	—	—	—	—	—	—
512	Drugs, proprietaries, and sundries .....	38.2	37.7	37.7	37.6	—	—	—	—	—	—
513	Apparel, piece goods, and notions .....	36.2	36.1	36.9	36.8	—	—	—	—	—	—
514	Groceries and related products .....	38.2	38.2	38.2	38.3	—	—	—	—	—	—
516	Chemicals and allied products .....	38.7	38.6	40.1	39.8	—	—	—	—	—	—
517	Petroleum and petroleum products .....	39.3	38.9	38.9	39.8	—	—	—	—	—	—
518	Beer, wine, and distilled beverages .....	38.1	37.5	37.4	37.5	—	—	—	—	—	—
519	Miscellaneous nondurable goods .....	37.8	37.7	38.3	38.3	—	—	—	—	—	—
52-59	<b>RETAIL TRADE</b> .....	30.9	30.9	30.3	30.6	30.5	—	—	—	—	—
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	<b>SUPPLIES</b> .....	37.4	37.6	37.4	37.2	—	—	—	—	—	—
521	Lumber and other building materials .....	39.3	39.5	39.5	39.1	—	—	—	—	—	—
525	Hardware stores .....	35.0	34.8	34.1	34.2	—	—	—	—	—	—
53	<b>GENERAL MERCHANDISE STORES</b> .....	29.2	29.3	29.0	29.1	—	—	—	—	—	—
531	Department stores .....	29.2	29.4	29.0	29.0	—	—	—	—	—	—
533	Variety stores .....	28.6	28.6	29.0	29.6	—	—	—	—	—	—
539	Misc. general merchandise stores .....	30.2	29.5	28.6	29.0	—	—	—	—	—	—
54	<b>FOOD STORES</b> .....	31.6	31.7	31.2	31.9	—	—	—	—	—	—
541	Grocery stores .....	31.9	32.1	31.5	32.1	—	—	—	—	—	—
546	Retail bakeries .....	29.1	29.1	28.7	30.2	—	—	—	—	—	—
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	<b>STATIONS</b> .....	37.4	37.3	37.5	37.7	—	—	—	—	—	—
551, 2	New and used car dealers .....	38.7	38.5	38.9	39.0	—	—	—	—	—	—
553	Auto and home supply stores .....	39.8	40.1	40.3	40.4	—	—	—	—	—	—
554	Gasoline service stations .....	34.7	34.6	34.6	34.8	—	—	—	—	—	—
56	<b>APPAREL AND ACCESSORY STORES</b> .....	29.2	29.2	28.8	29.5	—	—	—	—	—	—
561	Men's and boys' clothing and furnishings .....	32.1	32.0	32.0	32.4	—	—	—	—	—	—
562	Women's ready-to-wear stores .....	27.9	28.0	27.4	28.1	—	—	—	—	—	—
565	Family clothing stores .....	29.4	29.7	28.9	29.6	—	—	—	—	—	—
566	Shoe stores .....	28.9	28.6	28.4	29.2	—	—	—	—	—	—
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	<b>STORES</b> .....	34.7	34.6	34.8	34.7	—	—	—	—	—	—
571	Furniture and home furnishings .....	34.9	35.0	34.7	34.4	—	—	—	—	—	—
572	Household appliance stores .....	35.4	34.7	36.0	36.2	—	—	—	—	—	—
573	Radio, television, and music stores .....	33.8	33.4	34.1	34.3	—	—	—	—	—	—
58	<b>EATING AND DRINKING PLACES</b> <sup>5</sup> .....	27.1	27.1	26.1	26.5	—	—	—	—	—	—
59	<b>MISCELLANEOUS RETAIL</b> .....	32.4	32.4	31.5	31.6	—	—	—	—	—	—
591	Drug stores and proprietary stores .....	30.2	30.2	30.4	30.6	—	—	—	—	—	—
594	Miscellaneous shopping goods stores .....	31.4	31.2	30.1	30.1	—	—	—	—	—	—
596	Nonstore retailers .....	35.9	35.3	32.9	32.0	—	—	—	—	—	—
598	Fuel and ice dealers .....	39.0	38.2	39.2	38.8	—	—	—	—	—	—
599	Retail stores, nec .....	32.3	33.9	32.7	33.7	—	—	—	—	—	—
—	<b>FINANCE, INSURANCE, AND REAL</b>										
	<b>ESTATE</b> <sup>6</sup> .....	36.6	36.3	36.3	36.4	36.2	—	—	—	—	—
60	<b>BANKING</b> .....	37.0	36.2	36.4	36.5	—	—	—	—	—	—
602	Commercial and stock savings banks .....	37.0	36.2	36.4	36.6	—	—	—	—	—	—
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> ....	36.7	36.4	36.5	36.8	—	—	—	—	—	—
612	Savings and loan associations .....	36.5	36.0	35.7	36.3	—	—	—	—	—	—
614	Personal credit institutions .....	36.5	36.3	36.8	37.0	—	—	—	—	—	—
63	<b>INSURANCE CARRIERS</b> .....	37.3	37.2	37.3	37.4	—	—	—	—	—	—
631	Life insurance .....	36.8	36.8	37.0	37.7	—	—	—	—	—	—
632	Medical service and health insurance .....	37.9	37.7	37.8	37.3	—	—	—	—	—	—
633	Fire, marine, and casualty insurance .....	37.4	37.1	37.1	36.9	—	—	—	—	—	—

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
-	<b>SERVICES</b> .....	\$ 162.36	\$161.37	\$171.80	\$ 172.25	\$171.40	\$ 4.95	\$ 4.95	\$ 5.27	\$5.30	\$ 5.29
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts .....	112.37	111.50	119.20	120.82	-	3.59	3.62	3.87	3.91	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	127.31	128.37	136.46	137.89	-	3.69	3.71	3.99	4.02	-
723	Beauty shops .....	123.50	125.24	125.15	130.83	-	3.80	3.83	4.05	4.18	-
	<b>BUSINESS SERVICES</b> .....										
73	Advertising .....	166.65	166.98	175.18	175.39	-	5.05	5.06	5.39	5.43	-
731	Services to buildings .....	254.18	254.51	264.99	269.14	-	7.14	7.05	7.30	7.56	-
734	Computer and data processing services .....	123.95	124.76	127.03	126.16	-	4.38	4.44	4.74	4.69	-
737	Computer and data processing services .....	205.34	202.75	222.88	224.48	-	5.58	5.57	6.14	6.15	-
	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> ...										
75	Automotive repair shops .....	185.37	184.51	199.50	199.76	-	4.93	4.96	5.32	5.37	-
753	Automotive repair shops .....	211.33	207.34	224.40	222.09	-	5.35	5.33	5.61	5.68	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	237.39	242.40	253.17	248.06	-	5.92	6.00	6.19	6.28	-
	<b>MOTION PICTURES</b> .....										
78	Motion picture production and services .....	183.37	178.11	221.95	211.20	-	6.62	6.43	8.13	7.68	-
781	Motion picture production and services .....	363.07	366.34	425.63	415.34	-	9.76	9.54	11.26	10.93	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> ...	141.83	139.52	145.14	146.35	-	4.65	4.62	4.79	4.83	-
	<b>HEALTH SERVICES</b> .....										
80	Offices of physicians .....	154.77	154.63	166.15	166.80	-	4.69	4.70	5.05	5.07	-
801	Offices of physicians .....	165.50	163.82	173.38	174.08	-	4.97	4.89	5.27	5.34	-
802	Offices of dentists .....	136.77	134.32	147.32	147.97	-	4.70	4.68	5.08	5.12	-
805	Nursing and personal care facilities .....	110.14	109.34	116.97	119.81	-	3.53	3.55	3.81	3.84	-
806	Hospitals .....	167.31	168.82	181.03	181.37	-	4.95	4.98	5.34	5.35	-
81	<b>LEGAL SERVICES</b> .....	211.54	207.81	219.43	222.78	-	6.24	6.13	6.55	6.65	-
	<b>MISCELLANEOUS SERVICES</b> .....										
89	Engineering and architectural services .....	276.19	268.66	289.42	291.43	-	7.10	7.07	7.44	7.55	-
891	Engineering and architectural services .....	296.38	292.92	312.39	311.42	-	7.58	7.53	8.01	8.11	-
893	Accounting, auditing, and bookkeeping .....	244.80	226.64	254.16	261.88	-	6.12	6.06	6.37	6.58	-

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

<sup>2</sup> Beginning January 1978, data relate to line haul railroads with operating revenues of \$50,000,000 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 1977, such employees made up 20 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 1977, such employees made up 37 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

<sup>5</sup> Money payments only; tips, not included.

<sup>6</sup> Data for nonoffice sales agents excluded from all series in this division.

\* Not available.

\*\* Data for Railroad equipment (SIC 374) for February 1979 are: \$366.04, \$8.60, 41.4; and 4.7. <sup>P</sup>preliminary.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
-	<b>SERVICES</b> .....	32.8	32.6	32.6	32.5	32.4	-	-	-	-	-
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts .....	31.3	30.8	30.8	30.9	-	-	-	-	-	
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	34.5	34.6	34.2	34.3	-	-	-	-	-	
723	Beauty shops .....	32.5	32.7	30.9	31.3	-	-	-	-	-	
73	<b>BUSINESS SERVICES</b> .....	33.0	33.0	32.5	32.3	-	-	-	-	-	
731	Advertising .....	35.6	36.1	36.3	35.6	-	-	-	-	-	
734	Services to buildings .....	28.3	28.1	26.8	26.9	-	-	-	-	-	
737	Computer and data processing services .....	36.8	36.4	36.3	36.5	-	-	-	-	-	
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	37.6	37.2	37.5	37.2	-	-	-	-	-	
753	Automotive repair shops .....	39.5	38.9	40.0	39.1	-	-	-	-	-	
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	40.1	40.4	40.9	39.5	-	-	-	-	-	
78	<b>MOTION PICTURES</b> .....	27.7	27.7	27.3	27.5	-	-	-	-	-	
781	Motion picture production and services .....	37.2	38.4	37.8	38.0	-	-	-	-	-	
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	30.5	30.2	30.3	30.3	-	-	-	-	-	
80	<b>HEALTH SERVICES</b> .....	33.0	32.9	32.9	32.9	-	-	-	-	-	
801	Offices of physicians .....	33.3	33.5	32.9	32.6	-	-	-	-	-	
802	Offices of dentists .....	29.1	28.7	29.0	28.9	-	-	-	-	-	
805	Nursing and personal care facilities .....	31.2	30.8	30.7	31.2	-	-	-	-	-	
806	Hospitals .....	33.8	33.9	33.9	33.9	-	-	-	-	-	
81	<b>LEGAL SERVICES</b> .....	33.9	33.9	33.5	33.5	-	-	-	-	-	
89	<b>MISCELLANEOUS SERVICES</b> .....	38.9	38.0	38.9	38.6	-	-	-	-	-	
891	Engineering and architectural services .....	39.1	38.9	39.0	38.4	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping .....	40.0	37.4	39.9	39.8	-	-	-	-	-	



# 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	1978												1979	
	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	
<b>Executive Branch</b>														
Total employment .....	2,668.2	2,672.9	2,686.7	2,702.9	2,747.5	2,760.3	2,738.5	2,691.9	2,694.5	2,694.4	2,681.2	2,677.5	2,686.3	
Average weekly hours .....	39.9	39.9	39.6	39.5	39.6	39.8	39.7	39.5	39.9	39.9	40.1	39.7	39.7	
Average overtime hours .....	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.2	1.5	1.2	1.1	
Indexes (1967=100):														
Average weekly earnings ..	230.2	227.4	226.5	226.0	226.5	227.7	226.8	230.0	242.0	<sup>C</sup> 239.2	244.3	243.2	242.4	
Average hourly earnings ...	227.3	226.2	225.4	225.4	225.4	225.4	225.1	229.5	238.9	<sup>C</sup> 242.2	240.0	241.4	240.5	
<b>Department of Defense</b>														
Total employment .....	906.0	905.6	905.4	911.3	924.8	927.1	918.6	905.4	905.8	905.3	902.0	896.0	895.0	
Average weekly hours .....	40.1	40.0	40.1	40.0	40.0	40.1	40.1	39.7	39.9	40.0	39.8	39.9	39.9	
Average overtime hours .....	.8	.9	.9	.9	1.0	.9	1.0	1.2	1.0	.8	.9	.8	.9	
Indexes (1967=100):														
Average weekly earnings ..	222.3	221.5	222.1	222.0	221.5	220.4	221.2	223.3	232.5	233.7	234.1	234.7	234.7	
Average hourly earnings ...	223.4	223.2	223.2	223.7	223.2	221.5	222.3	226.7	234.9	235.4	237.1	237.1	237.1	
<b>Postal Service</b>														
Total employment .....	646.9	647.6	647.9	648.3	648.3	647.5	649.0	651.9	646.9	651.4	651.4	653.0	655.2	
Average weekly hours .....	41.5	40.4	40.1	39.9	40.0	40.2	39.9	39.7	41.5	41.2	42.6	41.2	41.0	
Average overtime hours .....	2.1	1.7	1.5	1.5	1.6	1.8	1.5	1.8	2.3	1.9	3.1	2.6	1.8	
Indexes (1967=100):														
Average weekly earnings ..	266.5	258.5	256.2	254.3	259.7	261.9	260.3	259.3	278.7	275.9	289.4	280.8	276.9	
Average hourly earnings ...	247.9	247.0	246.6	246.0	250.6	251.5	251.8	252.1	259.5	258.5	262.2	263.1	260.7	
<b>Other Agencies</b>														
Total employment .....	1,115.3	1,119.7	1,133.4	1,143.3	1,174.4	1,185.7	1,170.9	1,134.6	1,141.8	1,137.7	1,127.8	1,128.5	1,136.1	
Average weekly hours .....	38.9	38.8	38.9	38.8	39.0	39.3	39.3	39.1	39.0	39.0	38.8	38.7	38.8	
Average overtime hours .....	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.1	1.0	1.0	.9	1.0	
Indexes (1967=100):														
Average weekly earnings ..	217.6	215.1	214.1	213.4	212.0	214.6	213.4	218.3	229.1	231.4	227.7	229.9	229.7	
Average hourly earnings ...	217.1	215.1	213.6	213.4	210.9	211.9	210.6	216.6	228.0	230.2	227.7	230.4	229.7	

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

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

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

Major industry group	Average hourly earnings excluding overtime <sup>1</sup>				
	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
<b>MANUFACTURING</b> .....	\$ 5.79	\$ 5.82	\$ 6.28	\$ 6.33	\$ 6.35
<b>DURABLE GOODS</b> .....	6.16	6.19	6.67	6.72	6.76
Lumber and wood products .....	5.19	5.25	5.59	5.67	-
Furniture and fixtures .....	4.44	4.47	4.81	4.83	-
Stone, clay, and glass products .....	5.84	5.90	6.28	6.38	-
Primary metal industries .....	7.63	7.68	8.32	8.51	-
Fabricated metal products .....	5.98	6.00	6.43	6.45	-
Machinery, except electrical .....	6.30	6.33	6.82	6.85	-
Electric and electronic equipment .....	5.53	5.55	5.96	5.98	-
Transportation equipment .....	7.32	7.33	7.94	7.96	-
Instruments and related products .....	5.46	5.50	5.84	5.89	-
Miscellaneous manufacturing industries .....	4.49	4.52	4.81	4.86	-
<b>NONDURABLE GOODS</b> .....	5.21	5.24	5.63	5.71	5.70
Food and kindred products .....	5.47	5.49	5.85	5.94	-
Tobacco manufactures .....	6.18	6.24	6.66	6.87	-
Textile mill products .....	4.00	4.01	4.33	4.34	-
Apparel and other textile products .....	3.84	3.83	4.13	4.14	-
Paper and allied products .....	5.98	6.03	6.52	6.60	-
Printing and publishing .....	6.13	6.16	6.48	6.49	-
Chemicals and allied products .....	6.59	6.66	7.06	7.19	-
Petroleum and coal products .....	8.13	8.14	8.87	8.95	-
Rubber and misc. plastics products .....	5.14	5.21	5.58	5.63	-
Leather and leather products .....	3.77	3.78	4.10	4.14	-

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

<sup>P</sup> 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		
	Apr. 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	Apr. 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	Apr. 1978	Mar. 1979	Apr. 1979 <sup>P</sup>
<b>TOTAL PRIVATE:</b>									
Current dollars .....	\$200.12	\$214.91	\$211.30	\$162.82	\$174.35	\$171.72	\$178.03	\$190.93	\$188.12
1967 dollars .....	104.56	102.68	99.76	85.07	83.30	81.08	93.01	91.22	88.82
<b>MINING:</b>									
Current dollars .....	332.23	354.35	363.38	251.92	268.53	274.30	276.04	295.42	302.01
1967 dollars .....	173.58	169.30	171.57	131.62	128.30	129.51	144.22	141.15	142.59
<b>CONSTRUCTION:</b>									
Current dollars .....	310.43	331.52	319.50	237.88	253.95	246.27	260.35	278.79	270.30
1967 dollars .....	162.19	158.39	150.85	124.28	121.33	116.27	136.02	133.20	127.62
<b>MANUFACTURING:</b>									
Current dollars .....	243.61	265.93	254.41	193.50	210.37	202.32	210.63	229.79	221.05
1967 dollars .....	127.28	127.06	120.12	101.10	100.51	95.52	110.05	109.79	104.37
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars .....	296.51	314.81	307.72	228.84	243.28	238.75	250.34	266.61	261.45
1967 dollars .....	154.92	150.41	145.29	119.56	116.24	112.72	130.79	127.38	123.44
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars .....	150.42	161.35	162.18	126.41	134.89	135.51	139.86	151.46	152.24
1967 dollars .....	78.59	77.09	76.57	66.04	64.45	63.98	73.07	72.37	71.88
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars .....	177.14	187.31	190.01	146.28	154.24	156.21	160.43	170.06	171.83
1967 dollars .....	92.55	89.49	89.71	76.43	73.69	73.75	83.82	81.25	81.13
<b>SERVICES:</b>									
Current dollars .....	162.36	171.80	172.25	135.36	142.72	143.05	148.90	159.70	160.00
1967 dollars .....	84.83	82.08	81.33	70.72	68.19	67.54	77.80	76.30	75.54
<b>CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)</b> .....	191.4	209.3	211.8						

<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). 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

[1987=100]

Industry division and group	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	Hours				
<b>TOTAL PRIVATE</b> .....	118.5	119.6	121.4	120.6	123.2
<b>GOODS-PRODUCING</b> .....	103.6	104.7	107.1	103.8	108.8
<b>MINING</b> .....	141.5	143.4	146.3	146.7	149.5
<b>CONSTRUCTION</b> .....	112.8	117.6	117.0	118.5	130.9
<b>MANUFACTURING</b> .....	100.6	101.0	104.0	99.8	103.4
<b>DURABLE GOODS</b> .....	103.0	103.5	108.3	103.2	107.8
Lumber and wood products.....	112.6	113.6	111.3	110.5	114.5
Furniture and fixtures.....	109.4	108.4	104.8	102.4	103.3
Stone, clay, and glass products.....	110.3	112.5	109.8	109.6	113.6
Primary metal industries.....	93.0	94.3	98.7	99.0	100.2
Fabricated metal products.....	102.2	102.8	106.0	99.7	103.6
Machinery, except electrical.....	109.6	108.4	120.2	114.1	118.2
Electric and electronic equipment.....	98.7	99.0	105.9	100.9	105.1
Transportation equipment.....	97.1	98.1	102.8	92.1	102.3
Instruments and related products.....	120.0	120.4	130.0	126.1	129.5
Miscellaneous manufacturing industries.....	100.1	101.2	99.9	95.8	98.0
<b>NONDURABLE GOODS</b> .....	97.1	97.5	97.7	94.7	97.1
Food and kindred products.....	88.9	89.7	90.4	88.3	89.8
Tobacco manufactures.....	71.1	70.3	71.9	69.0	70.0
Textile mill products.....	92.2	92.8	91.5	86.9	90.5
Apparel and other textile products.....	91.7	91.7	88.8	84.7	87.5
Paper and allied products.....	99.8	100.9	101.4	99.8	102.3
Printing and publishing.....	98.2	97.5	101.9	98.9	100.9
Chemicals and allied products.....	106.2	106.4	107.0	107.4	107.9
Petroleum and coal products.....	119.0	118.8	121.5	124.4	125.1
Rubber and misc. plastics products.....	144.1	144.0	152.8	144.2	149.0
Leather and leather products.....	70.5	71.7	63.1	61.4	64.3
<b>SERVICE-PRODUCING</b> .....	128.8	129.9	131.4	132.2	133.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	107.2	108.3	109.8	106.3	109.8
<b>WHOLESALE AND RETAIL TRADE</b> .....	124.0	126.0	125.5	127.7	128.5
<b>WHOLESALE TRADE</b> .....	124.4	124.7	128.7	128.3	129.8
<b>RETAIL TRADE</b> .....	123.8	126.5	124.3	127.4	128.1
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	136.6	136.2	141.3	142.6	142.9
<b>SERVICES</b> .....	143.3	143.6	146.5	147.5	147.8

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

<sup>P</sup>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	Apr. 1978	May 1978	Mar. 1979	Apr. 1979 <sup>P</sup>	May 1979 <sup>P</sup>
	Payrolls				
<b>TOTAL PRIVATE</b> .....	247.2	250.5	272.7	270.9	279.2
<b>GOODS-PRODUCING</b> .....	221.7	226.1	248.1	241.4	256.2
<b>MINING</b> .....	338.3	343.6	378.9	391.6	394.9
<b>CONSTRUCTION</b> .....	230.2	243.5	255.0	259.4	288.8
<b>MANUFACTURING</b> .....	215.0	217.0	241.2	230.9	242.4
<b>DURABLE GOODS</b> .....	221.2	223.4	252.5	239.1	253.7
Lumber and wood products.....	258.6	263.8	274.7	275.8	289.5
Furniture and fixtures.....	216.1	215.6	229.3	217.3	220.9
Stone, clay, and glass products.....	241.8	249.5	258.3	261.0	272.8
Primary metal industries.....	222.2	226.9	258.5	263.7	265.7
Fabricated metal products.....	214.4	216.6	239.4	221.9	234.9
Machinery, except electrical.....	227.2	225.5	270.6	253.6	266.1
Electric and electronic equipment.....	203.0	204.4	235.6	222.5	235.3
Transportation equipment.....	218.9	221.5	251.7	221.0	253.6
Instruments and related products.....	237.2	239.4	275.4	266.8	277.6
Miscellaneous manufacturing industries.....	197.3	200.2	210.6	202.3	209.9
<b>NONDURABLE GOODS</b> .....	204.5	206.2	222.2	217.0	223.1
Food and kindred products.....	193.0	195.7	209.6	207.2	211.1
Tobacco manufactures.....	200.3	200.7	213.7	210.0	214.5
Textile mill products.....	187.4	189.1	200.9	188.9	198.7
Apparel and other textile products.....	176.5	175.9	183.3	174.6	181.3
Paper and allied products.....	220.1	224.0	243.0	240.4	247.4
Printing and publishing.....	190.8	190.0	209.7	202.0	208.5
Chemicals and allied products.....	235.3	238.0	253.7	259.2	260.2
Petroleum and coal products.....	285.2	284.5	315.3	327.3	323.0
Rubber and misc. plastics products.....	281.9	285.7	324.7	304.7	321.2
Leather and leather products.....	132.2	134.8	127.2	124.3	130.0
<b>SERVICE-PRODUCING</b> .....	269.2	271.5	293.9	296.3	299.1
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	246.8	249.5	267.7	258.6	268.9
<b>WHOLESALE AND RETAIL TRADE</b> .....	253.3	257.3	277.5	283.1	285.0
<b>WHOLESALE TRADE</b> .....	249.6	250.6	279.2	281.0	283.9
<b>RETAIL TRADE</b> .....	255.4	261.1	276.5	284.3	285.6
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	255.8	255.7	282.1	288.1	287.0
<b>SERVICES</b> .....	309.7	310.3	337.1	341.5	341.4

<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	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	35.9	35.9	35.9	35.8	35.8	35.9	35.8	35.9	35.7	35.7	35.9	35.4	35.6
<b>MINING</b> .....	43.4	43.4	43.0	43.6	43.0	43.0	43.3	43.7	43.4	43.0	43.2	43.1	43.4
<b>CONSTRUCTION</b> .....	36.6	37.3	37.3	37.1	37.0	36.9	36.8	37.2	35.9	36.4	37.6	35.8	36.7
<b>MANUFACTURING</b> .....	40.4	40.5	40.5	40.3	40.4	40.5	40.7	40.7	40.7	40.7	40.8	39.2	40.2
<i>Overtime hours</i> .....	3.5	3.6	3.6	3.4	3.6	3.6	3.7	3.8	3.8	3.8	3.8	2.8	3.4
<b>DURABLE GOODS</b> .....	41.0	41.2	41.2	41.0	41.1	41.2	41.4	41.5	41.5	41.5	41.6	39.5	40.9
<i>Overtime hours</i> .....	3.7	3.7	3.8	3.6	3.8	3.9	4.0	4.1	4.2	4.2	4.1	2.8	3.6
Lumber and wood products .....	39.5	40.0	39.8	39.3	39.6	40.1	40.1	40.1	40.0	39.5	40.1	39.2	39.6
Furniture and fixtures .....	39.4	39.5	39.3	39.0	38.8	39.0	39.2	39.2	39.2	38.8	39.4	38.2	38.3
Stone, clay, and glass products .....	41.6	41.9	41.7	41.6	41.8	41.8	41.9	42.0	41.4	41.5	42.3	41.2	41.7
Primary metal industries .....	41.7	41.8	41.8	42.0	41.8	42.1	42.3	42.2	42.4	42.3	41.9	41.6	42.4
Fabricated metal products .....	41.1	41.0	41.0	40.9	40.9	40.8	41.1	41.4	41.2	41.4	41.5	39.0	40.2
Machinery, except electrical .....	42.1	42.3	42.2	41.8	41.9	42.0	42.2	42.5	42.2	42.6	42.6	40.4	42.1
Electric and electronic equipment .....	40.2	40.2	40.7	40.4	40.1	40.3	40.4	40.5	40.7	40.9	40.9	38.9	40.1
Transportation equipment .....	41.8	42.0	42.1	41.8	42.5	42.6	42.9	42.9	43.0	42.7	42.4	38.1	41.4
Instruments and related products .....	40.8	40.8	40.7	41.0	40.9	40.9	40.9	40.9	41.1	41.1	41.4	40.2	40.8
Miscellaneous manufacturing ind .....	38.8	38.8	38.8	39.0	39.0	38.8	38.8	38.8	39.1	39.0	39.2	37.7	38.4
<b>NONDURABLE GOODS</b> .....	39.5	39.4	39.4	39.3	39.4	39.3	39.6	39.5	39.6	39.4	39.6	38.7	39.1
<i>Overtime hours</i> .....	3.2	3.1	3.2	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.3	2.7	3.0
Food and kindred products .....	39.8	39.6	39.8	39.5	39.5	39.9	40.0	40.0	40.1	39.7	40.1	39.8	39.6
Tobacco manufactures .....	38.7	39.6	38.6	37.7	37.9	36.7	37.4	38.1	36.7	36.7	38.5	37.9	38.1
Textile mill products .....	40.5	40.3	40.2	40.4	40.4	40.3	40.4	40.4	40.9	40.0	40.6	39.0	39.8
Apparel and other textile products .....	35.9	35.8	35.8	35.6	35.7	35.2	35.7	35.6	35.3	35.5	35.5	34.3	35.1
Paper and allied products .....	42.9	42.9	42.9	42.7	42.7	42.6	43.1	42.7	42.9	42.9	42.9	42.4	42.8
Printing and publishing .....	37.3	37.5	37.6	37.4	37.8	37.7	37.9	37.6	37.7	37.7	37.7	36.9	37.2
Chemicals and allied products .....	41.9	41.9	41.8	41.9	41.8	41.9	42.1	41.8	42.0	41.9	42.0	41.9	42.0
Petroleum and coal products .....	42.9	43.4	43.9	44.3	43.8	43.9	44.2	43.7	43.4	43.4	44.2	44.5	43.3
Rubber and misc. plastics products .....	41.1	41.1	40.9	40.9	41.0	41.0	41.1	41.2	41.5	41.5	41.4	39.8	41.0
Leather and leather products .....	37.6	37.4	37.2	37.1	37.2	37.1	36.8	36.7	37.0	36.3	36.2	35.6	35.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.2	40.1	39.6	39.9	40.1	40.1	40.0	40.0	40.2	40.0	40.2	39.3	39.7
<b>WHOLESALE AND RETAIL TRADE</b> .....	32.9	32.8	32.9	32.8	32.8	32.9	32.8	32.9	32.4	32.5	32.7	32.8	32.6
<b>WHOLESALE TRADE</b> .....	38.7	38.8	38.7	38.8	39.0	38.9	38.8	38.9	38.7	38.7	39.1	38.8	38.8
<b>RETAIL TRADE</b> .....	31.1	31.0	31.1	30.9	30.9	31.0	30.9	31.0	30.5	30.6	30.7	30.9	30.7
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.3	36.5	36.6	36.5	36.5	36.6	36.3	36.3	36.3	36.3	36.3	36.5	36.2
<b>SERVICES</b> .....	32.9	32.8	32.8	32.7	32.8	32.8	32.7	32.5	32.6	32.6	32.8	32.7	32.6

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

<sup>p</sup> preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED**

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

[1967=100]

Industry division and group	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	120.0	120.6	120.6	120.4	120.8	121.6	122.4	122.9	122.6	123.2	124.7	122.5	123.7
<b>GOODS-PRODUCING</b> .....	105.1	106.0	106.1	105.4	105.5	106.5	108.0	109.1	108.7	109.1	111.0	106.3	109.2
<b>MINING</b> .....	143.1	144.0	143.5	145.7	144.4	145.2	148.0	149.1	149.2	149.3	150.0	149.7	149.4
<b>CONSTRUCTION</b> .....	117.1	122.8	124.2	122.8	122.6	123.8	124.3	126.5	120.6	122.4	131.5	124.9	130.4
<b>MANUFACTURING</b> .....	101.6	101.7	101.6	101.0	101.2	102.1	103.7	104.6	105.1	105.4	106.0	101.6	104.0
<b>DURABLE GOODS</b> .....	103.5	103.8	104.0	103.5	103.9	105.5	107.1	108.3	108.8	109.6	110.2	104.3	107.8
Lumber and wood products .....	111.8	113.6	112.3	110.7	111.6	113.9	115.3	116.2	116.6	115.5	116.9	112.9	112.4
Furniture and fixtures .....	110.3	109.5	108.3	106.4	106.2	107.5	108.6	109.4	110.0	108.6	109.7	105.3	105.1
Stone, clay, and glass products .....	111.4	112.4	111.1	109.8	110.1	110.8	112.0	113.3	111.5	112.2	115.1	111.5	112.5
Primary metal industries .....	93.9	94.1	94.4	95.3	95.5	96.9	99.0	99.2	99.7	100.5	99.6	99.0	99.7
Fabricated metal products .....	103.3	102.4	102.0	101.8	102.0	103.1	105.2	106.8	106.6	108.0	107.9	101.1	104.1
Machinery, except electrical .....	109.5	111.3	112.1	110.8	111.5	113.6	114.5	116.9	117.0	119.2	119.8	114.3	119.4
Electric and electronic equipment .....	99.8	99.8	101.8	101.1	100.1	101.4	102.6	103.4	105.1	106.4	107.8	102.6	106.1
Transportation equipment .....	96.6	95.8	96.2	96.1	97.7	100.4	102.8	103.8	104.7	105.0	104.8	92.5	100.7
Instruments and related products .....	120.8	122.4	123.6	123.9	123.9	124.5	125.7	126.9	128.8	130.0	131.3	127.8	130.0
Miscellaneous manufacturing ind .....	101.5	101.4	99.8	100.6	100.3	100.9	101.8	101.5	102.9	102.3	102.8	98.1	98.4
<b>NONDURABLE GOODS</b> .....	98.9	98.7	98.1	97.2	97.2	97.2	98.8	99.1	99.9	99.2	99.8	97.5	98.5
Food and kindred products .....	94.6	94.0	93.6	91.4	91.3	92.2	94.6	96.1	97.0	95.3	97.0	95.8	94.8
Tobacco manufactures .....	81.5	84.1	78.6	71.5	74.5	73.5	73.5	77.6	74.8	73.5	78.4	77.2	80.3
Textile mill products .....	92.6	91.8	91.5	91.2	91.8	91.6	92.4	92.2	93.6	91.3	92.3	88.0	90.3
Apparel and other textile products .....	91.9	91.4	90.1	90.1	90.1	88.7	90.0	89.8	89.6	89.2	88.8	86.0	87.6
Paper and allied products .....	101.9	101.9	101.9	99.2	99.0	98.2	100.5	100.7	101.7	102.5	103.5	102.6	103.2
Printing and publishing .....	98.2	98.6	99.1	98.3	97.8	98.5	100.3	100.1	101.1	101.7	102.6	100.0	101.4
Chemicals and allied products .....	106.9	106.9	106.6	106.0	106.0	106.2	107.2	107.0	107.8	107.6	107.5	107.4	108.2
Petroleum and coal products .....	118.4	120.4	121.2	123.2	122.7	123.0	124.7	124.2	123.3	124.2	127.4	127.4	124.8
Rubber and misc. plastics products .....	146.6	147.0	146.2	145.4	145.0	147.0	149.6	152.3	153.9	154.9	154.5	147.6	151.5
Leather and leather products .....	70.4	70.1	67.1	69.1	69.6	68.8	67.3	66.5	66.7	64.2	63.7	62.0	63.1
<b>SERVICE-PRODUCING</b> .....	130.5	130.7	130.7	130.8	131.4	132.0	132.3	132.5	132.2	132.9	134.2	133.7	133.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	109.0	109.4	106.5	107.7	108.2	109.9	110.2	110.3	111.2	111.2	112.2	107.8	110.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	126.8	126.8	127.4	127.2	127.5	128.2	128.4	128.7	127.6	128.4	129.5	129.8	129.4
<b>WHOLESALE TRADE</b> .....	125.2	126.1	125.7	126.1	127.1	127.4	127.6	128.5	128.4	128.9	130.8	130.0	130.3
<b>RETAIL TRADE</b> .....	127.3	127.0	128.0	127.7	127.7	128.5	128.7	128.8	127.3	128.2	129.0	129.8	129.1
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	136.2	137.9	139.0	139.2	139.6	140.5	140.6	140.9	141.7	142.0	142.4	143.7	142.7
<b>SERVICES</b> .....	143.8	143.9	144.1	144.1	145.1	145.0	145.6	145.4	145.8	146.6	148.4	148.2	147.9

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

preliminary.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED

## C-9. Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, seasonally adjusted

Industry	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr. <sup>P</sup>	May <sup>P</sup>
<b>Hourly Earnings Index<sup>2</sup> (1967=100)</b>													
TOTAL PRIVATE (In current dollars).....	211.0	212.3	214.1	214.6	216.2	218.0	219.0	220.7	222.8	223.9	225.3	226.8	227.1
MINING.....	237.3	239.8	244.3	244.5	247.1	249.7	249.8	249.1	251.7	253.3	256.0	264.1	261.9
CONSTRUCTION.....	206.0	207.6	207.9	209.2	209.9	210.6	211.4	212.5	213.4	216.3	216.5	217.6	219.3
MANUFACTURING.....	213.5	214.7	216.7	217.5	218.9	220.8	222.4	224.1	225.4	227.1	228.8	230.9	231.6
TRANSPORTATION AND PUBLIC UTILITIES.....	229.2	229.6	230.4	231.2	233.3	234.0	234.7	238.3	240.7	241.6	242.7	241.9	244.0
WHOLESALE AND RETAIL TRADE.....	204.0	205.2	207.6	208.3	209.9	211.6	213.0	214.6	217.8	218.1	219.8	220.8	220.7
FINANCE, INSURANCE, AND REAL ESTATE.....	192.4	194.6	196.9	196.0	198.2	199.8	200.8	202.0	202.3	203.9	204.3	207.3	205.7
SERVICES.....	210.4	211.5	213.2	212.9	214.8	217.5	217.8	218.9	221.7	222.2	223.5	225.3	224.4
TOTAL PRIVATE (In 1967 dollars) <sup>3</sup> .....	109.1	108.8	109.1	108.7	108.7	108.7	108.5	108.6	108.6	107.8	107.3	106.9	-
<b>Average hourly earnings</b>													
TOTAL PRIVATE.....	\$ 5.62	\$ 5.66	\$ 5.71	\$ 5.73	\$ 5.77	\$ 5.82	\$ 5.87	\$ 5.91	\$ 5.97	\$ 5.99	\$ 6.04	\$ 6.04	\$ 6.08
MINING.....	7.66	7.71	7.85	7.88	7.88	7.99	8.03	8.03	8.12	8.18	8.25	8.52	8.44
CONSTRUCTION.....	8.59	8.65	8.66	8.72	8.75	8.77	8.82	8.86	8.92	9.05	9.03	9.09	9.14
MANUFACTURING.....	6.08	6.12	6.18	6.20	6.25	6.32	6.38	6.43	6.45	6.52	6.56	6.56	6.63
TRANSPORTATION AND PUBLIC UTILITIES.....	7.50	7.52	7.53	7.58	7.65	7.66	7.68	7.81	7.89	7.92	7.95	7.91	7.98
WHOLESALE AND RETAIL TRADE.....	4.60	4.63	4.67	4.70	4.73	4.77	4.81	4.84	4.93	4.93	4.97	4.99	4.99
FINANCE, INSURANCE, AND REAL ESTATE.....	4.84	4.89	4.95	4.92	4.98	5.03	5.06	5.08	5.09	5.13	5.14	5.22	5.18
SERVICES.....	4.94	4.96	5.01	5.02	5.05	5.10	5.11	5.14	5.21	5.22	5.25	5.29	5.28
<b>Average weekly earnings</b>													
TOTAL PRIVATE:													
Current dollars.....	201.76	203.19	204.99	205.13	206.57	208.94	210.15	212.17	213.13	213.84	216.84	213.82	216.45
1967 dollars <sup>3</sup> .....	104.32	104.20	104.48	103.97	103.86	104.16	104.14	104.41	103.86	102.96	103.31	100.76	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) <sup>3, 4</sup> .....	92.69	92.48	92.60	92.13	91.94	92.04	91.95	92.06	92.37	91.53	91.68	89.58	-

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

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

<sup>3</sup> The CPI-W is used to deflate these series to 1967 dollars.

<sup>4</sup> See footnote 2, table C-5.

N.A.=not available.

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		
	MARCH 1979	APRIL 1979p	MAY 1979p	May 1978 to May 1979	Mar. 1979 to Apr. 1979	April 1979 to May 1979
TOTAL.....	167,888	165,338	166,932	2.7	-1.5	1.0
PRIVATE SECTOR.....	137,140	136,264	136,403	3.5	-0.6	0.1
MINING.....	2,065	2,070	2,074	5.6	0.2	0.2
CONSTRUCTION.....	8,786	8,431	8,745	10.1	-4.0	3.7
MANUFACTURING.....	44,184	43,646	43,522	2.6	-1.2	-0.3
DURABLE GOODS.....	27,158	26,747	26,701	4.3	-1.5	-0.2
NONDURABLE GOODS.....	17,026	16,900	16,820	-0.1	-0.7	-0.5
TRANSPORTATION AND PUBLIC UTILITIES.....	10,481	10,278	10,358	2.1	-1.9	0.8
WHOLESALE AND RETAIL TRADE.....	34,068	34,263	34,187	2.9	0.6	-0.2
FINANCE, INSURANCE, AND REAL ESTATE.....	9,166	9,211	9,207	4.8	0.5	-0.0
SERVICES.....	28,389	28,365	28,310	3.7	-0.1	-0.2
GOVERNMENT.....	30,748	29,074	30,529	-0.5	-5.4	5.0

<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 Surveys and 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										
			1976		1977				1978				1979
	1977	1978	III	IV	I	II	III	IV	I	II	III	IV	I
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons	118.3	118.6	117.2	117.2	118.0	117.5	118.9	119.0	117.7	118.0	119.1	119.6	118.2
Output	133.2	139.0	127.1	127.6	130.5	132.5	134.2	135.5	135.3	138.7	139.7	142.2	142.3
Hours	112.6	117.2	108.4	108.9	110.6	112.8	112.8	113.8	115.0	117.5	117.4	118.9	120.5 r
Compensation per hour	213.1	232.8	199.4	203.7	207.6	210.6	215.4	218.9	225.3	229.7	235.5	240.4	246.8
Real compensation per hour	117.4	119.2	116.2	117.2	117.2	116.6	117.7	118.1	119.3	118.7	119.1	119.0	119.0
Unit labor costs	180.2	196.3	170.1	173.8	176.0	179.3	181.1	183.9	191.4	194.6	197.8	201.1	208.8
Unit nonlabor payments	164.7	171.9	159.0	158.4	160.3	164.0	167.0	167.8	162.1	171.3	174.9	179.1	176.7 r
Implicit price deflator	174.9	187.9	166.3	168.5	170.6	174.0	176.3	178.4	181.3	186.6	189.9	193.5	197.7
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons	115.9	116.4	115.2	115.0	115.6	115.2	116.3	116.4	115.5	116.0	116.7	117.2	116.0
Output	133.6	139.9	127.7	128.1	131.0	133.0	134.6	135.8	136.1	139.8	140.6	143.0	143.4
Hours	115.3	120.2	110.9	111.4	113.3	115.4	115.8	116.6	117.8	120.5	120.5	122.0	123.7 r
Compensation per hour	209.4	228.9	195.9	200.0	204.0	207.2	211.3	215.2	221.5	225.9	231.1	236.2	242.0
Real compensation per hour	115.4	117.1	114.2	115.1	115.1	114.7	115.5	116.1	117.3	116.7	116.9	116.9	116.7
Unit labor costs	180.8	196.6	170.1	174.0	176.4	179.8	181.7	184.8	191.7	194.7	198.1	201.5	208.7 r
Unit nonlabor payments	162.6	168.0	157.4	157.1	157.7	161.6	166.1	165.1	159.2	167.1	171.3	174.4	171.1 r
Implicit price deflator	174.6	186.8	165.7	168.2	170.0	173.6	176.4	178.1	180.6	185.3	188.9	192.2	195.8
<b>MANUFACTURING:</b>													
Output per hour of all persons	126.1	129.2	124.1	123.9	123.7	125.6	127.6	127.5	125.9	128.4	131.7	132.3	131.2 r
Output	126.9	134.8	120.0	120.3	122.6	126.6	128.6	129.8	129.7	134.1	137.2	139.9	141.5 r
Hours	100.6	104.4	96.8	97.1	99.1	100.7	100.8	101.8	103.1	104.5	104.2	105.7	107.8 r
Compensation per hour	212.2	232.5	196.9	200.9	205.6	209.7	214.4	218.9	225.0	229.1	234.9	240.2	245.9 r
Real compensation per hour	116.9	119.0	114.8	115.6	116.1	116.1	117.2	118.1	119.1	118.4	118.9	118.9	118.6 r
Unit labor costs	168.3	179.9	158.7	162.2	166.3	166.9	168.0	171.7	178.8	178.5	178.4	181.6	187.5 r
<b>DURABLE GOODS</b>													
Output per hour of all persons	120.4	123.0	119.5	118.4	117.9	120.4	121.9	121.6	119.4	122.7	125.7	125.5	123.9 r
Output	121.4	130.5	114.8	114.4	116.3	121.0	123.5	124.8	124.4	129.5	133.5	136.3	137.7 r
Hours	100.8	106.1	96.1	96.6	98.7	100.5	101.3	102.7	104.1	105.6	106.2	108.6	111.1 r
Compensation per hour	214.3	234.6	198.5	201.7	207.1	211.8	216.4	221.5	227.0	231.2	237.0	242.5	248.2 r
Real compensation per hour	118.0	120.1	115.7	116.1	116.9	117.2	118.3	119.5	120.2	119.4	119.9	120.0	119.7 r
Unit labor costs	117.9	200.4 r	166.2	170.3	175.7	175.9	177.5	182.2	190.1	188.4	188.5	193.2	200.4 r
<b>NONDURABLE GOODS</b>													
Output per hour of all persons	135.3	139.5	131.5	132.7	133.1	134.1	134.1	136.9	137.3	136.4	141.6	143.4	143.3 r
Output	125.7	141.9	128.5	129.8	132.6	135.5	136.9	138.0	138.3	141.5	143.2	145.6	147.6 r
Hours	100.3	101.7	97.7	97.9	99.6	101.0	100.0	100.5	101.4	102.8	101.1	101.5	103.0
Compensation per hour	208.7	227.7	194.5	199.7	203.4	206.3	210.6	214.0	221.0	224.8	230.1	234.4	239.6
Real compensation per hour	115.0	116.5	113.4	114.9	114.8	114.2	115.1	115.5	117.0	116.2	116.4	116.0	115.5
Unit labor costs	154.2	163.2	147.9	150.5	152.8	153.9	153.8	155.9	162.1	163.3	162.5	163.4	167.2 r
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour	116.7	117.9	115.9	115.2	115.7	116.2	117.5	117.3	116.6	117.9	118.2	118.9	117.9 p
Output	141.0	148.5	134.4	134.2	137.5	140.5	142.3	143.6	143.6	148.8	149.3	152.3	153.0 p
Hours	120.8	125.9	115.9	116.5	118.8	120.9	121.1	122.4	123.1	126.2	126.3	128.1	129.8 p
Compensation per hour	207.6	226.9	194.1	198.4	201.7	205.5	209.7	213.4	219.8	224.2	229.3	234.1	240.1 p
Real compensation per hour	114.4	116.1	113.2	114.2	113.8	113.7	114.6	115.1	116.3	115.8	116.0	115.8	115.8 p
Total unit costs	182.0	194.8	172.8	177.3	178.8	180.8	182.5	185.6	191.5	192.6	196.2	198.6	204.7 p
Unit labor costs	177.9	192.5	167.4	172.2	174.3	176.8	178.5	181.9	188.5	190.2	194.0	196.9	203.7 p
Unit nonlabor costs	194.5	202.2	189.4	193.0	192.6	193.1	195.0	197.1	201.1	200.1	203.2	204.1	207.7 p
Unit profits	120.2	125.1	114.7	105.6	108.8	120.1	128.3	122.9	104.5	127.0	130.0	137.2	125.0 p
Implicit price deflator	172.8	184.5	164.2	166.6	168.4	171.8	174.5	176.3	178.6	183.0	186.4	189.5	192.8 p

p=preliminary,  
r=revised.



**PRODUCTIVITY  
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	III 1977 to IV 1977	IV 1977 to I 1978	I 1978 to II 1978	II 1978 to III 1978	III 1978 to IV 1978	IV 1978 to I 1979	IV 1976 to IV 1977	I 1977 to I 1978	II 1977 to II 1978	III 1977 to III 1978	IV 1977 to IV 1978	I 1978 to I 1979
	<b>PRIVATE BUSINESS SECTOR:</b>											
Output per hour of all persons	0.4	-4.5	1.2	3.5	1.7	-4.6r	1.5	-0.2	0.5	0.1	0.4	0.4
Output	4.0	-0.6	10.5	3.0	7.2	0.5r	6.2	3.7	4.6	4.1	4.9	5.2
Hours	3.7	4.0	9.2	-0.4	5.3	5.3r	4.6	3.9	4.1	4.0	4.5	4.8r
Compensation per hour	6.7	12.1	8.1	10.4	8.7	11.1	7.5	8.5	9.1	9.3	9.8	9.5
Real compensation per hour	1.3	4.0	-1.9	1.5	-0.5	0.1	0.8	1.8	1.8	1.2	0.7	-0.2
Unit labor costs	6.3	17.4	6.8	6.7	6.8	16.4r	5.8	8.8	8.5	9.2	9.3	9.1
Unit nonlabor payments	2.0	-13.1	24.8	8.8	9.8	-5.3r	5.9	1.1	4.4	4.8	6.7	9.0
Implicit price deflator	4.9	6.7	12.1	7.3	7.7	9.1r	5.9	6.3	7.2	7.7	8.5	9.1r
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons	0.5	-3.1	1.7	2.3	1.9	-4.3r	1.3	-0.1	0.7	0.3	0.7	0.4
Output	3.5	0.7	11.6	2.1	7.2	1.2r	6.0	3.8	5.2	4.4	5.3	5.4
Hours	3.0	3.9	9.8	-0.2	5.1	5.7r	4.7	3.9	4.5	4.1	4.6	5.0
Compensation per hour	7.6	12.2	8.2	9.6	9.1	10.2	7.6	8.6	9.0	9.4	9.8	9.3
Real compensation per hour	2.2	4.0	-1.8	0.7	-0.1	-0.7	0.9	1.9	1.8	1.3	0.7	-0.5
Unit labor costs	7.1	15.7	6.4	7.1	7.0	15.2r	6.3	8.7	8.3	9.0	9.0	8.9r
Unit nonlabor payments	-2.4	-13.5	21.3	10.5	7.4	-7.3r	5.0	0.9	3.4	3.1	5.6	7.5r
Implicit price deflator	4.0	5.8	10.8	8.1	7.1	7.8r	5.9	6.2	6.7	7.1	7.9	8.4
<b>MANUFACTURING:</b>												
Output per hour of all persons	-0.3	-5.1	8.3	10.8	1.7	-3.2r	2.9	1.8	2.2	3.2	3.7	4.2 r
Output	4.0	-0.5	14.3	9.6	8.0	4.6r	7.9	5.8	6.0	6.7	7.7	9.1 r
Hours	4.3	4.9	5.6	-1.1	6.2	8.1r	4.8	4.0	3.7	3.4	3.9	4.6 r
Compensation per hour	8.8	11.6	7.4	10.6	9.3	9.8r	9.0	9.4	9.2	9.6	9.7	9.3
Real compensation per hour	3.3	3.5	-2.5	1.6	0.1	-1.1r	2.2	2.7	2.0	1.4	0.7	-0.5 r
Unit labor costs	9.1	17.7	-0.8	-0.2	7.5	13.5r	5.9	7.6	6.9	6.2	5.8	4.8 r
<b>DURABLE GOODS</b>												
Output per hour of all persons	-1.1	-6.8	11.3	10.2	-0.5	-5.2r	2.6	1.3	1.9	3.1	3.3	3.7 r
Output	4.5	-1.5	17.7	12.8	8.8	4.0r	9.1	6.9	7.0	8.1	9.2	10.7 r
Hours	5.7	5.7	5.7	2.3	9.4	9.7r	6.3	5.5	5.1	4.8	5.7	6.7 r
Compensation per hour	9.8	10.4	7.5	10.4	9.7	9.8r	9.8	9.6	9.2	9.5	9.5	9.4 r
Real compensation per hour	4.2	2.4	-2.4	1.5	0.4	-1.1r	2.9	2.8	1.9	1.4	0.5	-0.4 r
Unit labor costs	11.0	18.5	-3.4	0.2	10.2	15.8r	7.0	8.2	7.1	6.2	6.0	5.4
<b>NONDURABLE GOODS</b>												
Output per hour of all persons	1.0	-2.6	3.9	11.8	5.2	-0.2r	3.5	2.5	2.6	3.4	4.5	5.1 r
Output	3.2	1.1	9.4	4.9	6.8	5.6r	6.2	4.3	4.4	4.6	5.5	6.7 r
Hours	2.2	3.7	5.3	-6.2	1.5	5.8r	2.7	1.8	1.7	1.2	1.0	1.5 r
Compensation per hour	6.7	13.6	7.2	9.7	7.6	9.3	7.2	8.6	9.0	9.3	9.5	8.5 r
Real compensation per hour	1.2	5.4	-2.7	0.8	-1.5	-1.5	0.5	1.9	1.7	1.1	0.5	-1.2 r
Unit labor costs	5.6	16.6	3.2	-1.9	2.3	9.5r	3.6	6.0	6.1	5.7	4.8	3.2 r
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour	-0.5	-2.5	4.4	1.3	2.2	-3.3p	1.8	0.8	1.4	0.6	1.3	1.1p
Output	3.6	-0.0	15.2	1.5	8.1	2.0p	7.0	4.5	5.9	4.9	6.0	6.6p
Hours	4.2	2.5	10.4	0.2	5.8	5.5p	5.0	3.7	4.4	4.3	4.7	5.4p
Compensation per hour	7.2	12.5	8.3	9.5	8.5	10.7p	7.5	8.9	9.1	9.4	9.7	9.3p
Real compensation per hour	1.7	4.3	-1.7	0.6	-0.7	-0.2p	0.8	2.2	1.8	1.2	0.6	-0.5p
Total unit costs	6.8	13.6	2.3	7.7	5.0	12.7p	4.7	7.1	6.6	7.5	7.1	6.9p
Unit labor costs	7.7	15.3	3.8	8.1	6.1	14.5p	5.6	8.1	7.6	8.7	8.3	8.1p
Unit nonlabor costs	4.3	8.5	-2.0	6.3	1.7	7.4p	2.1	4.4	3.6	4.2	3.6	3.3p
Unit profits	-15.8	-47.8	123.6	7.3	23.8	-31.1p	16.4	-4.0	6.4	1.3	11.6	19.6p
Implicit price deflator	4.2	5.5	10.2	7.8	6.8	7.2p	5.8	6.1	6.5	6.8	7.5	8.0p

p=preliminary.  
r=revised.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>ALABAMA</b> .....	\$210.37	\$236.64	\$235.42	40.3	40.8	39.5	\$5.22	\$5.80	\$5.96
Birmingham .....	247.42	278.24	281.71	40.1	40.5	39.4	6.17	6.87	7.15
Mobile .....	262.50	305.41	(*)	42.0	42.3	(*)	6.25	7.22	(*)
<b>ALASKA</b> .....	464.07	(*)	(*)	46.5	(*)	(*)	9.98	(*)	(*)
<b>ARIZONA</b> .....	233.63	257.58	252.31	39.8	40.5	39.3	5.87	6.36	6.42
Phoenix .....	235.41	260.53	255.52	39.9	40.9	39.8	5.90	6.37	6.42
Tucson .....	220.25	238.55	231.65	39.4	39.3	38.1	5.59	6.07	6.08
<b>ARKANSAS</b> .....	182.22	199.87	193.55	39.7	39.5	38.1	4.59	5.06	5.08
Fayetteville-Springdale .....	165.53	175.50	178.69	39.6	39.0	39.1	4.18	4.50	4.57
Fort Smith .....	192.85	206.68	200.85	39.6	39.9	39.0	4.87	5.18	5.15
Little Rock-North Little Rock .....	208.68	231.09	225.40	39.9	40.4	39.2	5.23	5.72	5.75
Pine Bluff .....	233.24	268.81	260.34	41.8	42.2	40.3	5.58	6.37	6.46
<b>CALIFORNIA</b> .....	253.49	272.28	261.97	40.3	40.1	38.3	6.29	6.79	6.84
Anaheim-Santa Ana-Garden Grove .....	238.27	254.18	243.66	40.8	40.8	38.8	5.84	6.23	6.28
Bakersfield .....	274.19	279.03	294.62	40.5	38.7	39.6	6.77	7.21	7.44
Fresno .....	221.57	248.06	238.99	38.4	40.4	38.3	5.77	6.14	6.24
Los Angeles-Long Beach .....	237.69	256.77	245.76	40.7	40.5	38.4	5.84	6.34	6.40
Modesto .....	248.61	256.69	253.55	39.4	38.6	38.3	6.31	6.65	6.62
Oxnard-Simi Valley-Ventura .....	211.80	238.79	237.68	38.3	39.6	38.9	5.53	6.03	6.11
Riverside-San Bernardino-Ontario .....	259.94	278.80	273.15	40.3	40.0	38.8	6.45	6.97	7.04
Sacramento .....	262.36	287.98	283.08	38.3	38.5	38.1	6.85	7.48	7.43
Salinas-Seaside-Monterey .....	239.40	266.51	236.12	37.7	39.6	35.4	6.35	6.73	6.67
San Diego .....	239.85	254.37	248.07	39.0	38.6	37.7	6.15	6.59	6.58
San Francisco-Oakland .....	306.03	325.84	320.71	39.9	39.4	38.5	7.67	8.27	8.33
San Jose .....	272.00	290.60	284.49	40.0	40.7	39.9	6.80	7.14	7.13
Santa Barbara-Santa Maria-Lompoc .....	222.72	234.12	221.86	38.6	37.7	35.9	5.77	6.21	6.18
Santa Rosa .....	232.54	240.59	243.38	38.5	37.3	37.5	6.04	6.45	6.49
Stockton .....	274.22	291.00	284.93	39.4	38.8	38.4	6.96	7.50	7.42
Vallejo-Fairfield-Napa .....	258.23	288.79	294.52	38.2	38.2	38.6	6.76	7.56	7.63
<b>COLORADO</b> .....	239.85	255.15	250.70	39.0	38.6	38.1	6.15	6.61	6.58
Denver-Boulder .....	236.73	255.64	251.66	39.0	38.5	37.9	6.07	6.64	6.64
<b>CONNECTICUT</b> .....	246.87	267.95	(*)	42.2	42.6	(*)	5.85	6.29	(*)
Bridgeport .....	265.20	282.74	265.55	44.2	43.7	41.3	6.00	6.47	6.43
Hartford .....	274.52	297.98	283.31	43.3	43.5	41.0	6.34	6.85	6.91
New Britain .....	257.14	282.83	253.58	43.0	44.4	41.3	5.98	6.37	6.14
New Haven-West Haven .....	246.92	263.04	255.36	41.5	41.1	39.9	5.95	6.40	6.40
Stamford .....	242.67	276.07	279.02	41.2	44.1	44.5	5.89	6.26	6.27
Waterbury .....	211.42	236.68	216.37	42.2	42.8	39.7	5.01	5.53	5.45
<b>DELAWARE</b> .....	271.21	292.82	247.57	40.6	41.3	36.3	6.68	7.09	6.82
Wilmington .....	305.29	322.75	281.22	41.2	40.7	36.1	7.41	7.93	7.79
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA .....	258.18	262.75	(*)	39.0	39.1	(*)	6.62	6.72	(*)
<b>FLORIDA</b> .....	201.87	217.95	212.53	40.7	41.2	39.8	4.96	5.29	5.34
Fort Lauderdale-Hollywood .....	197.41	209.07	207.36	41.3	41.4	40.5	4.78	5.05	5.12
Jacksonville .....	248.46	253.79	245.83	42.4	41.2	40.7	5.86	6.16	6.04
Miami .....	171.14	190.13	179.83	39.8	40.8	37.7	4.30	4.66	4.77
Orlando .....	216.94	224.68	213.98	41.4	41.0	39.7	5.24	5.48	5.39
Pensacola .....	259.62	290.18	294.81	42.7	44.1	44.2	6.08	6.58	6.67
Tampa-St. Petersburg .....	210.01	220.04	213.64	40.7	40.9	39.2	5.16	5.38	5.45
West Palm Beach-Boca Raton .....	227.42	265.32	243.49	41.5	44.0	42.2	5.48	6.03	5.77
<b>GEORGIA</b> .....	191.04	210.60	199.56	39.8	40.5	38.6	4.80	5.20	5.17
Atlanta .....	225.94	250.67	236.16	39.5	40.3	38.4	5.72	6.22	6.15
Savannah .....	257.74	283.53	283.34	43.1	42.7	42.8	5.98	6.64	6.62
<b>HAWAII</b> .....	235.82	250.39	243.92	39.5	38.7	37.7	5.97	6.47	6.47
Honolulu .....	233.58	247.54	243.65	38.8	38.2	37.6	6.02	6.48	6.48
<b>IDAHO</b> .....	236.56	241.66	259.35	39.1	37.7	39.0	6.05	6.41	6.65
Boise City .....	232.88	217.93	(*)	40.5	37.9	(*)	5.75	5.75	(*)

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>ILLINOIS</b>	\$267.57	\$291.14	\$281.13	40.3	40.9	39.4	\$6.63	\$7.12	\$7.13
Bloomington—Normal	216.33	269.11	258.51	38.2	42.0	40.6	5.67	6.41	6.36
Champaign—Urbana—Rantoul	254.28	255.16	248.17	39.3	38.6	37.7	6.48	6.62	6.58
Chicago SMSA	266.93	282.92	269.84	41.3	40.8	39.0	6.46	6.94	6.92
Davenport—Rock Island—Moline	270.32	323.67	328.99	38.2	38.1	38.6	7.08	8.49	8.53
Decatur	290.22	328.45	318.37	41.8	42.5	41.0	6.95	7.74	7.76
Peoria	296.93	328.25	330.75	37.0	37.7	37.8	8.04	8.72	8.76
Rockford	275.92	297.49	283.70	41.8	42.4	40.5	6.60	7.01	7.00
Springfield	294.96	336.28	333.50	42.1	43.6	43.3	7.01	7.72	7.70
<b>INDIANA</b>	288.93	313.65	299.07	41.1	41.0	39.3	7.03	7.65	7.61
Gary—Hammond—East Chicago	388.44	419.84	(*)	41.5	41.9	(*)	9.36	10.02	(*)
Indianapolis	286.34	314.84	(*)	41.2	41.7	(*)	6.95	7.55	(*)
<b>IOWA</b>	272.28	301.50	297.04	40.1	40.2	39.5	6.79	7.50	7.52
Cedar Rapids	291.38	303.46	309.26	42.6	41.4	41.4	6.84	7.33	7.47
Des Moines	271.49	314.81	292.47	38.4	39.9	37.4	7.07	7.89	7.82
Dubuque	323.60	352.48	341.11	40.4	40.1	38.5	8.01	8.79	8.86
Sioux City	240.86	257.79	253.16	39.1	39.0	38.3	6.16	6.61	6.61
Waterloo—Cedar Falls	343.15	394.17	371.73	40.9	41.8	39.8	8.39	9.43	9.34
<b>KANSAS</b>	(*)	272.74	260.95	(*)	41.2	39.3	(*)	6.62	6.64
Topaka	(*)	308.22	302.91	(*)	44.8	43.9	(*)	6.88	6.90
Wichita	(*)	289.38	279.97	(*)	42.0	40.4	(*)	6.89	6.93
<b>KENTUCKY</b>	242.70	260.57	255.07	39.4	39.6	37.9	6.16	6.58	6.73
Louisville	267.53	302.06	283.80	39.4	40.6	38.3	6.79	7.44	7.41
<b>LOUISIANA</b>	260.38	280.54	280.19	41.2	41.5	40.2	6.32	6.76	6.97
Baton Rouge	345.49	347.71	360.91	43.9	42.3	41.2	7.87	8.22	8.76
New Orleans	248.92	270.95	267.33	39.7	40.5	39.9	6.27	6.69	6.70
Shreveport	224.80	246.25	247.94	40.0	39.4	38.5	5.62	6.25	6.44
<b>MAINE</b>	191.83	208.92	209.32	40.3	40.1	40.1	4.76	5.21	5.22
Lewiston—Auburn	157.03	170.33	167.16	38.3	37.6	36.9	4.10	4.53	4.53
Portland	191.72	202.47	203.97	39.9	39.7	39.3	4.79	5.10	5.19
<b>MARYLAND</b> <sup>2</sup>	253.60	278.18	278.80	40.0	40.2	40.0	6.34	6.92	6.97
Baltimore	271.89	295.57	299.47	40.4	40.6	40.8	6.73	7.28	7.34
<b>MASSACHUSETTS</b>	220.05	241.26	(*)	40.6	41.1	(*)	5.42	5.87	(*)
Boston	243.60	263.68	(*)	40.6	41.2	(*)	6.00	6.40	(*)
Brockton	168.66	184.40	(*)	37.9	38.1	(*)	4.45	4.84	(*)
Fall River	163.44	174.06	(*)	37.4	36.8	(*)	4.37	4.73	(*)
Lawrence—Haverhill	213.33	234.00	(*)	39.8	40.0	(*)	5.36	5.85	(*)
Lowell	192.06	207.36	(*)	39.6	40.5	(*)	4.85	5.12	(*)
New Bedford	182.31	209.08	(*)	38.3	39.9	(*)	4.76	5.24	(*)
Springfield—Chicopee—Holyoke	228.11	242.18	(*)	41.4	41.9	(*)	5.51	5.78	(*)
Worcester	226.87	250.08	(*)	41.1	41.2	(*)	5.52	6.07	(*)
<b>MICHIGAN</b>	340.52	(*)	(*)	42.8	(*)	(*)	7.96	(*)	(*)
Ann Arbor	375.17	407.56	(*)	43.9	44.3	(*)	8.55	9.20	(*)
Battle Creek	334.99	333.78	(*)	42.5	40.9	(*)	7.88	8.16	(*)
Bay City	326.19	331.47	(*)	42.7	43.2	(*)	7.64	7.67	(*)
Detroit	364.66	(*)	(*)	42.8	(*)	(*)	8.52	(*)	(*)
Flint	403.06	432.10	(*)	45.6	44.8	(*)	8.84	9.65	(*)
Grand Rapids	271.80	296.58	(*)	41.7	40.7	(*)	6.52	7.29	(*)
Jackson	289.48	332.92	(*)	42.1	43.8	(*)	6.88	7.60	(*)
Kalamazoo—Portage	296.98	325.81	(*)	41.6	41.2	(*)	7.14	7.91	(*)
Lansing—East Lansing	353.90	382.85	(*)	42.5	41.7	(*)	8.33	9.18	(*)
Muskegon—Norton Shores—Muskegon Heights	285.92	308.14	(*)	41.3	41.5	(*)	6.92	7.43	(*)
Saginaw	415.46	446.59	(*)	45.6	46.5	(*)	9.11	9.60	(*)
<b>MINNESOTA</b>	254.47	274.04	269.96	40.2	40.3	39.7	6.33	6.80	6.80
Duluth—Superior	228.54	262.00	255.92	39.0	40.0	38.6	5.86	6.55	6.63
Minneapolis—St. Paul	272.83	294.89	288.32	40.6	40.9	40.1	6.72	7.21	7.19
<b>MISSISSIPPI</b>	178.94	194.80	187.01	39.5	40.0	38.4	4.53	4.87	4.87
Jackson	200.57	218.82	201.76	41.1	41.6	39.1	4.88	5.26	5.16

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>MISSOURI</b> .....	\$245.81	\$260.69	\$247.65	40.1	39.8	38.1	\$6.13	\$6.55	\$6.50
Kansas City .....	274.59	301.73	281.20	40.5	40.5	38.0	6.78	7.45	7.40
St. Joseph .....	220.18	239.16	230.28	39.6	39.4	38.0	5.56	6.07	6.06
St. Louis .....	285.07	303.64	287.04	40.9	41.2	39.0	6.97	7.37	7.36
Springfield .....	197.25	229.68	221.92	38.6	39.6	38.0	5.11	5.80	5.84
<b>MONTANA</b> .....	323.04	339.08	341.51	42.9	41.2	41.8	7.53	8.23	8.17
<b>NEBRASKA</b> .....	236.57	257.67	255.44	41.0	40.9	40.1	5.77	6.30	6.37
Lincoln .....	227.18	270.19	254.15	38.9	41.0	39.1	5.84	6.59	6.50
Omaha .....	250.40	267.07	265.20	40.6	40.1	39.0	6.16	6.66	6.80
<b>NEVADA</b> .....	244.86	262.68	256.36	38.5	38.8	37.1	6.36	6.77	6.91
Las Vegas .....	313.58	339.04	(*)	40.1	39.7	(*)	7.82	8.54	(*)
<b>NEW HAMPSHIRE</b> .....	196.02	214.20	211.17	40.5	40.8	40.3	4.84	5.25	5.24
Manchester .....	174.20	190.16	187.77	39.5	39.7	39.2	4.41	4.79	4.79
Nashua .....	221.01	233.35	229.55	41.7	41.3	40.7	5.30	5.65	5.64
<b>NEW JERSEY</b> .....	254.59	274.91	263.33	41.6	42.1	40.7	6.12	6.53	6.47
Atlantic City .....	181.42	202.93	190.88	39.1	39.1	37.5	4.64	5.19	5.09
Camden <sup>3</sup> .....	249.48	259.49	252.73	40.5	40.8	39.8	6.16	6.36	6.35
Hackensack <sup>4</sup> .....	243.24	258.55	244.95	42.9	43.6	41.8	5.67	5.93	5.86
Jersey City <sup>4</sup> .....	245.02	272.90	259.10	40.3	41.6	39.8	6.08	6.56	6.51
New Brunswick—Perth Amboy—Sayreville <sup>4</sup> .....	265.28	298.57	290.80	40.5	41.7	40.9	6.55	7.16	7.11
Newark <sup>4</sup> .....	257.46	277.33	263.57	42.0	42.6	40.8	6.13	6.51	6.46
Paterson—Clifton—Passaic <sup>4</sup> .....	247.71	256.89	248.06	42.2	41.5	40.4	5.87	6.19	6.14
Trenton .....	256.14	282.57	264.13	40.4	41.8	39.6	6.34	6.76	6.67
<b>NEW MEXICO</b> .....	185.65	207.36	206.42	39.5	40.5	37.6	4.70	5.12	5.49
Albuquerque .....	193.58	210.25	209.08	41.1	40.2	39.3	4.71	5.23	5.32
<b>NEW YORK</b> .....	239.60	259.20	(*)	40.0	40.0	(*)	5.99	6.48	(*)
Albany—Schenectady—Troy .....	256.88	273.48	(*)	40.2	40.1	(*)	6.39	6.82	(*)
Binghamton .....	226.30	238.55	(*)	41.6	41.2	(*)	5.44	5.79	(*)
Buffalo .....	315.95	348.61	(*)	41.3	41.7	(*)	7.65	8.36	(*)
Elmira .....	239.76	257.26	(*)	40.5	40.9	(*)	5.92	6.29	(*)
Monroe County <sup>5</sup> .....	314.91	349.78	(*)	42.1	42.5	(*)	7.48	8.23	(*)
Nassau—Suffolk <sup>6</sup> .....	223.11	242.59	(*)	39.7	39.9	(*)	5.62	6.08	(*)
New York—Northeastern New Jersey .....	230.00	246.83	(*)	40.0	40.2	(*)	5.75	6.14	(*)
New York and Nassau—Suffolk <sup>4</sup> .....	210.60	224.64	(*)	38.5	38.4	(*)	5.47	5.85	(*)
New York SMSA <sup>6</sup> .....	207.81	220.02	(*)	38.2	38.0	(*)	5.44	5.79	(*)
New York City <sup>7</sup> .....	203.58	217.15	(*)	37.7	37.7	(*)	5.40	5.76	(*)
Poughkeepsie .....	243.80	256.62	(*)	42.4	42.0	(*)	5.75	6.11	(*)
Rochester .....	297.32	329.64	(*)	41.7	42.1	(*)	7.13	7.83	(*)
Rockland County <sup>7</sup> .....	241.50	243.19	(*)	42.0	40.6	(*)	5.75	5.99	(*)
Syracuse .....	268.51	289.53	(*)	41.5	41.9	(*)	6.47	6.91	(*)
Utica—Rome .....	231.96	246.24	(*)	41.2	40.5	(*)	5.63	6.08	(*)
Westchester County <sup>7</sup> .....	246.65	240.40	(*)	42.6	40.2	(*)	5.79	5.98	(*)
<b>NORTH CAROLINA</b> .....	173.49	188.65	182.58	39.7	39.8	38.6	4.37	4.74	4.73
Asheville .....	167.84	183.20	174.64	39.4	40.0	37.8	4.26	4.58	4.62
Charlotte—Gastonia .....	179.93	193.99	185.40	40.8	41.1	39.7	4.41	4.72	4.67
Greensboro—Winston-Salem—High Point .....	186.44	206.11	198.40	39.5	40.1	38.6	4.72	5.14	5.14
Raleigh—Durham .....	193.95	210.14	207.34	39.5	39.5	38.9	4.91	5.32	5.33
<b>NORTH DAKOTA</b> .....	205.98	225.40	221.13	38.5	39.2	37.8	5.35	5.75	5.85
Fargo—Moorhead .....	231.67	246.33	231.13	39.4	39.1	37.1	5.88	6.30	6.23
<b>OHIO</b> .....	299.46	325.85	303.67	42.0	42.1	39.8	7.13	7.74	7.63
Akron .....	300.04	326.47	291.95	42.2	42.9	39.4	7.11	7.61	7.41
Canton .....	292.87	323.21	307.33	39.9	40.2	39.2	7.34	8.04	7.84
Cincinnati .....	281.47	300.54	284.00	42.2	41.8	40.0	6.67	7.19	7.10
Cleveland .....	312.99	343.01	321.47	42.7	43.2	40.9	7.33	7.94	7.86
Columbus .....	257.52	279.45	266.06	40.3	40.5	39.3	6.39	6.90	6.77
Dayton .....	304.98	333.49	301.75	42.3	42.7	39.6	7.21	7.81	7.62
Toledo .....	309.12	337.71	313.63	42.0	41.9	39.5	7.36	8.06	7.94
Youngstown—Warren .....	350.70	363.10	354.09	42.0	40.3	39.3	8.35	9.01	9.01

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>OKLAHOMA</b> .....	\$224.72	\$253.71	\$254.40	40.2	40.4	40.0	\$5.59	\$6.28	\$6.36
Oklahoma City .....	223.11	250.45	245.69	40.2	40.2	39.5	5.55	6.23	6.22
Tulsa .....	237.21	273.77	272.12	39.8	40.8	39.9	5.96	6.71	6.82
<b>OREGON</b> .....	275.73	296.79	297.98	39.0	39.0	38.8	7.07	7.61	7.68
Eugene—Springfield .....	303.69	328.86	(*)	40.6	40.5	(*)	7.48	8.12	(*)
Jackson County .....	276.05	305.34	(*)	39.1	39.5	(*)	7.06	7.73	(*)
Portland .....	264.27	(*)	(*)	38.3	(*)	(*)	6.90	(*)	(*)
<b>PENNSYLVANIA</b> .....	248.40	274.44	265.98	40.0	40.3	39.0	6.21	6.81	6.82
Allentown—Bethlehem—Easton .....	237.50	260.44	259.33	38.0	37.8	37.1	6.25	6.89	6.99
Altoona .....	209.21	234.04	230.49	38.6	39.6	39.0	5.42	5.91	5.91
Delaware Valley <sup>8</sup> .....	258.40	281.88	266.47	40.0	40.5	38.9	6.46	6.96	6.85
Erie .....	255.44	285.86	269.47	41.2	42.1	40.4	6.20	6.79	6.67
Harrisburg .....	223.28	260.07	255.60	39.8	40.7	40.0	5.61	6.39	6.39
Johnstown .....	263.74	281.58	293.93	39.6	39.0	40.1	6.66	7.22	7.33
Lancaster .....	222.60	243.17	232.06	40.4	40.8	39.2	5.51	5.96	5.92
Northeast Pennsylvania .....	180.31	192.55	183.89	37.1	37.1	35.5	4.86	5.19	5.18
Philadelphia SMSA .....	256.80	278.24	264.03	40.0	40.5	39.0	6.42	6.87	6.77
Pittsburgh .....	303.46	343.21	342.72	40.3	41.5	40.8	7.53	8.27	8.40
Reading .....	219.26	242.74	220.83	38.4	38.9	36.5	5.71	6.24	6.05
Scranton <sup>9</sup> .....	189.70	202.27	195.45	38.4	39.2	37.3	4.94	5.16	5.24
Wilkes-Barre—Hazleton <sup>10</sup> .....	172.80	183.91	173.23	36.0	35.3	33.9	4.80	5.21	5.11
Williamsport .....	218.10	248.27	227.84	39.8	40.5	38.1	5.48	6.13	5.98
York .....	235.06	251.90	240.57	41.9	41.9	40.5	5.61	6.00	5.94
<b>RHODE ISLAND</b> .....	182.42	198.70	191.62	39.4	39.9	38.4	4.63	4.98	4.99
Providence—Warwick—Pawtucket .....	184.61	198.50	191.35	39.7	40.1	38.5	4.65	4.95	4.97
<b>SOUTH CAROLINA</b> .....	185.23	201.14	194.04	40.8	40.8	39.2	4.54	4.93	4.95
Charleston—North Charleston .....	212.18	236.59	227.36	41.2	42.4	40.6	5.15	5.58	5.60
Columbia .....	178.42	198.40	189.47	39.3	40.0	38.2	4.54	4.96	4.96
Greenville—Spartanburg .....	183.11	198.04	189.83	40.6	40.5	38.9	4.51	4.89	4.88
<b>SOUTH DAKOTA</b> .....	209.30	223.04	224.52	41.2	39.9	40.6	5.08	5.59	5.53
Rapid City .....	169.40	193.69	189.46	35.0	31.7	34.7	4.84	6.11	5.46
Sioux Falls .....	263.95	289.91	306.16	43.2	42.2	43.8	6.11	6.87	6.99
<b>TENNESSEE</b> .....	198.90	212.90	208.51	39.7	39.5	38.4	5.01	5.39	5.43
Chattanooga .....	201.50	221.13	216.61	39.9	40.5	39.1	5.05	5.46	5.54
Knoxville .....	235.35	254.29	255.52	40.3	40.3	39.8	5.84	6.31	6.42
Memphis .....	228.34	255.82	251.03	40.2	40.8	40.1	5.68	6.27	6.26
Nashville—Davidson .....	216.28	232.24	226.18	40.2	39.7	38.4	5.38	5.85	5.89
<b>TEXAS</b> .....	238.30	254.40	249.08	41.3	40.9	39.6	5.77	6.22	6.29
Amarillo .....	235.15	261.81	252.84	42.6	44.3	43.0	5.52	5.91	5.88
Austin .....	193.58	196.73	196.17	43.5	40.9	40.7	4.45	4.81	4.82
Beaumont—Port Arthur—Orange .....	335.70	373.05	388.10	40.3	42.2	41.2	8.33	8.84	9.42
Corpus Christi .....	262.94	306.81	321.02	39.9	41.8	41.8	6.59	7.34	7.68
Dallas—Fprt Worth .....	216.40	238.36	229.13	40.6	40.4	39.1	5.33	5.90	5.86
El Paso .....	177.70	185.60	182.60	38.8	40.0	38.2	4.58	4.64	4.78
Galveston—Texas City .....	382.81	412.38	403.88	43.7	43.5	43.9	8.76	9.48	9.20
Houston .....	296.96	328.06	323.04	43.1	43.8	42.9	6.89	7.49	7.53
Lubbock .....	176.95	197.89	197.60	40.4	41.4	41.6	4.38	4.78	4.75
San Antonio .....	175.12	185.72	181.89	39.8	40.2	39.2	4.40	4.62	4.64
Waco .....	194.43	216.78	208.90	39.2	39.2	38.4	4.96	5.53	5.44
Wichita Falls .....	214.37	219.45	220.30	40.6	39.9	39.2	5.28	5.50	5.62
<b>UTAH</b> .....	216.54	236.16	238.01	39.3	39.1	38.7	5.51	6.04	6.15
Salt Lake City—Ogden .....	205.37	224.43	224.06	39.8	39.1	38.3	5.16	5.74	5.85
<b>VERMONT</b> .....	204.35	224.39	221.80	41.2	41.4	40.4	4.96	5.42	5.49
Burlington .....	236.43	241.78	244.91	42.6	41.4	41.3	5.55	5.84	5.93
Springfield .....	234.50	267.22	261.88	42.1	43.1	41.9	5.57	6.20	6.25
<b>VIRGINIA</b> .....	198.20	217.20	209.28	39.8	40.0	38.4	4.98	5.43	5.45
Bristol .....	182.60	198.51	192.62	38.2	39.0	36.9	4.78	5.09	5.22
Lynchburg .....	194.64	225.23	206.42	39.4	41.1	38.8	4.94	5.48	5.32
Norfolk—Virginia Beach—Portsmouth .....	235.61	243.17	234.00	42.3	40.8	39.0	5.57	5.96	6.00
Northern Virginia <sup>11</sup> .....	241.59	250.30	244.16	40.4	41.1	39.7	5.98	6.09	6.15
Petersburg-Colonial Heights-Hopewell .....	237.78	249.74	259.18	38.6	38.9	38.8	6.16	6.42	6.68

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>VIRGINIA—Continued</b>									
Richmond .....	\$238.39	\$267.30	\$264.00	39.6	40.5	40.0	\$6.02	\$6.60	\$6.60
Roanoke .....	182.11	199.40	194.00	40.2	39.8	38.8	4.53	5.01	5.00
<b>WASHINGTON</b>	291.95	(*)	(*)	39.4	(*)	(*)	7.41	(*)	(*)
Seattle—Everett .....	293.28	(*)	(*)	39.0	(*)	(*)	7.52	(*)	(*)
Spokane .....	248.32	(*)	(*)	38.8	(*)	(*)	6.40	(*)	(*)
Tacoma .....	294.08	(*)	(*)	38.9	(*)	(*)	7.56	(*)	(*)
<b>WEST VIRGINIA</b>	259.05	291.13	(*)	40.1	40.1	(*)	6.46	7.26	(*)
Charleston .....	298.07	320.46	(*)	42.1	42.0	(*)	7.08	7.63	(*)
Huntington—Ashland .....	291.77	310.80	(*)	40.3	40.0	(*)	7.24	7.77	(*)
Parkersburg—Marietta .....	266.67	301.02	(*)	40.9	42.1	(*)	6.52	7.15	(*)
Wheeling .....	273.06	305.52	(*)	41.0	40.2	(*)	6.66	7.60	(*)
<b>WISCONSIN</b>	267.81	296.77	283.40	40.8	41.5	39.9	6.56	7.14	7.11
Appleton—Oshkosh .....	264.49	293.41	278.54	42.0	42.6	41.2	6.29	6.88	6.77
Eau Claire .....	261.07	291.64	282.62	40.8	41.9	39.8	6.41	6.96	7.11
Green Bay .....	272.60	297.25	292.04	41.5	41.7	41.4	6.57	7.13	7.05
Kenosha .....	292.67	326.94	309.23	39.0	40.3	38.5	7.50	8.12	8.02
La Crosse .....	213.61	235.39	237.11	40.3	40.5	39.9	5.30	5.81	5.95
Madison .....	267.96	285.25	255.70	39.5	39.9	35.9	6.79	7.14	7.12
Milwaukee .....	294.03	326.14	306.50	41.0	41.6	39.3	7.17	7.84	7.80
Racine .....	297.96	321.17	301.18	42.0	43.0	40.5	7.10	7.48	7.43
<b>WYOMING</b>	239.51	238.24	234.19	38.2	37.4	35.7	6.27	6.37	6.56
Casper .....	274.17	307.65	313.18	39.0	39.8	40.1	7.03	7.73	7.81
Cheyenne .....	245.15	(*)	(*)	37.2	(*)	(*)	6.59	(*)	(*)

<sup>1</sup> Data for 1979 are not strictly comparable with earlier years.  
<sup>2</sup> Revised to 1978 benchmark; not strictly comparable with previously published data.  
<sup>3</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.  
<sup>4</sup> Subarea of New York-Northeastern New Jersey.  
<sup>5</sup> Subarea of Rochester Standard Metropolitan Statistical Area.  
<sup>6</sup> Area included in New York and Nassau-Suffolk combined SMSA's.  
<sup>7</sup> Subarea of New York Standard Metropolitan Statistical Area.  
<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	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.2	4.6	3.9	3.1	2.3
1978	4.1	3.8	3.2	3.7	4.0	4.7	4.8	4.3	5.3	4.8	4.3	3.3	2.3
1979	-	4.0	3.4	3.8	P3.9								
<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	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	2.9	2.2	1.6
1978	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.1	3.9	3.5	2.6	1.7
1979	-	2.8	2.5	2.8	P2.8								
<b>Recalls</b>													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.9	1.1	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	.9	.9	.8	.6	.6	.5
1978	.7	1.0	.7	.8	P.8	.8	.7	.8	.9	.8	.5	.5	.5
1979	-	.9	.6	.7	P.8								
<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	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.2	5.1	4.8	3.8	3.4	3.3
1978	3.8	3.6	3.1	3.5	3.6	3.6	3.8	4.1	5.2	4.8	4.0	3.5	3.4
1979	-	3.8	3.2	3.6	P3.7								
<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	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.4	3.0	2.3	1.7	1.3
1979	-	1.8	1.6	1.9	P2.0								
<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	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	1.1	1.7	1.4	1.0	.9	.8	.8	1.4	1.0	1.1	1.1	1.1	1.4
1978	.9	1.2	.9	.9	.7	.7	.7	1.0	.7	.8	.9	1.0	1.3
1979	-	1.1	.8	.8	P.9								

p=preliminary.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2. Labor turnover rates by industry**

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>
	<b>MANUFACTURING</b> .....	3.8	3.9	2.8	2.8	0.7	0.8	3.6	3.7	1.9	2.0	0.8	0.9
24, 25, 32-39	<b>DURABLE GOODS</b> .....	3.6	3.6	2.7	2.7	.6	.7	3.3	3.3	1.7	1.7	.7	.7
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	4.0	4.3	2.9	3.1	.9	.9	4.1	4.3	2.3	2.4	1.0	1.1
	<b>DURABLE GOODS</b>												
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	5.8	6.4	4.4	4.9	1.3	1.3	6.1	5.5	3.4	3.5	1.6	.9
242	Sawmills and planing mills .....	4.4	-	3.6	-	.7	-	4.7	-	2.9	-	.8	-
2421	Sawmills and planing mills, general .....	4.3	-	3.5	-	.7	-	4.3	-	2.6	-	.9	-
243	Millwork, plywood, and structural members .....	5.7	-	4.6	-	1.0	-	4.8	-	3.1	-	.6	-
2431	Millwork .....	4.8	-	3.8	-	1.0	-	5.1	-	3.2	-	1.1	-
244	Wooden containers .....	8.0	-	6.9	-	.9	-	7.9	-	5.8	-	1.0	-
245	Wood buildings and mobile homes .....	10.8	-	7.3	-	3.3	-	10.1	-	6.4	-	1.9	-
2451	Mobile homes .....	10.9	-	8.7	-	2.1	-	11.4	-	7.7	-	1.7	-
249	Miscellaneous wood products .....	4.9	-	4.2	-	.5	-	4.9	-	3.1	-	.6	-
25	<b>FURNITURE AND FIXTURES</b> .....	4.9	4.9	4.3	4.0	.5	.7	5.5	5.2	3.4	3.3	.9	.8
251	Household furniture .....	5.3	-	4.7	-	.4	-	5.9	-	3.8	-	.7	-
2511	Wood household furniture .....	5.2	-	4.8	-	.3	-	5.4	-	4.1	-	.1	-
2512	Upholstered household furniture .....	4.7	-	4.2	-	.3	-	5.5	-	3.7	-	.6	-
2515	Mattresses and bedspings .....	6.4	-	5.8	-	.3	-	6.3	-	4.0	-	.8	-
252	Office furniture .....	3.1	-	2.8	-	.1	-	4.2	-	2.3	-	1.0	-
254	Partitions and fixtures .....	5.8	-	4.5	-	1.2	-	5.7	-	3.1	-	1.4	-
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	4.9	5.5	2.9	3.4	1.8	1.9	3.7	3.8	1.8	2.0	1.0	.9
322	Glass and glassware, pressed or blown .....	3.0	-	1.5	-	1.2	-	3.5	-	1.1	-	1.4	-
3221	Glass containers .....	3.1	-	1.6	-	1.4	-	2.8	-	1.2	-	.7	-
3229	Pressed and blown glass, nec .....	3.0	-	1.4	-	.9	-	4.3	-	.9	-	2.3	-
323	Products of purchased glass .....	3.7	-	2.6	-	.9	-	4.5	-	2.0	-	1.3	-
324	Cement, hydraulic .....	1.4	-	.9	-	.5	-	1.3	-	.3	-	.6	-
325	Structural clay products .....	6.3	-	4.6	-	1.5	-	5.0	-	3.5	-	.5	-
326	Pottery and related products .....	3.0	-	2.2	-	.5	-	3.4	-	1.6	-	.9	-
327	Concrete, gypsum, and plaster products .....	8.5	-	4.5	-	3.9	-	4.4	-	2.5	-	1.1	-
329	Misc. nonmetallic mineral products .....	3.1	-	2.5	-	.4	-	2.9	-	1.5	-	.6	-
33	<b>PRIMARY METAL INDUSTRIES</b> .....	2.6	2.6	1.8	1.8	.5	.6	2.2	2.3	.9	.9	.4	.5
331	Blast furnace and basic steel products .....	2.1	-	1.2	-	.5	-	1.8	-	.3	-	.5	-
3312	Blast furnaces and steel mills .....	2.0	-	1.0	-	.6	-	1.7	-	.2	-	.5	-
332	Iron and steel foundries .....	3.1	-	2.5	-	.5	-	2.9	-	1.6	-	.4	-
3321	Gray iron foundries .....	3.3	-	2.6	-	.6	-	2.9	-	1.7	-	.3	-
3325	Steel foundries, nec .....	2.9	-	2.3	-	.4	-	2.8	-	1.4	-	.3	-
333	Primary nonferrous metals .....	2.0	-	1.4	-	.3	-	1.4	-	.4	-	.2	-
335	Nonferrous rolling and drawing .....	2.2	-	1.7	-	.4	-	1.6	-	.7	-	.2	-
3351	Copper rolling and drawing .....	2.3	-	2.1	-	.1	-	2.2	-	1.0	-	.4	-
3353	Aluminum sheet, plate, and foil .....	2.1	-	1.2	-	.7	-	.9	-	.3	-	.1	-
3357	Nonferrous wire drawing and insulating .....	1.8	-	1.3	-	.2	-	1.5	-	.6	-	.2	-
336	Nonferrous foundries .....	3.9	-	3.3	-	.4	-	4.2	-	2.2	-	.6	-
3361	Aluminum foundries .....	3.3	-	3.0	-	.2	-	3.7	-	2.1	-	.4	-
34	<b>FABRICATED METAL PRODUCTS</b> .....	3.7	3.9	3.0	3.0	.6	.8	3.8	3.9	2.0	2.0	.9	1.0
341	Metal cans and shipping containers .....	4.2	-	1.8	-	2.1	-	3.0	-	.9	-	1.3	-
3411	Metal cans .....	3.8	-	1.2	-	2.4	-	2.7	-	.6	-	1.4	-
342	Cutlery, hand tools, and hardware .....	3.1	-	2.7	-	.2	-	3.2	-	1.8	-	.5	-
3423, 5	Hand and edge tools, and hand saws and blades .....	2.7	-	2.3	-	.3	-	2.9	-	1.7	-	.5	-
3429	Hardware, nec .....	3.4	-	2.9	-	.2	-	3.4	-	1.9	-	.6	-
343	Plumbing and heating, except electric .....	4.2	-	3.1	-	.9	-	4.3	-	2.0	-	1.2	-
344	Fabricated structural metal products .....	4.1	-	3.2	-	.8	-	4.5	-	2.4	-	1.2	-
3441	Fabricated structural metal .....	5.0	-	4.0	-	.9	-	4.8	-	2.7	-	.9	-
3442	Metal doors, sash, and trim .....	5.3	-	3.7	-	1.4	-	6.3	-	3.4	-	1.9	-
3443	Fabricated plate work (boiler shops) .....	2.5	-	2.1	-	.3	-	3.3	-	1.5	-	1.0	-
3444	Sheet metal work .....	4.2	-	3.6	-	.6	-	4.6	-	2.5	-	1.2	-
345	Screw machine products, bolts, etc. ....	3.8	-	3.6	-	.1	-	3.5	-	2.3	-	.1	-
3451	Screw machine products .....	4.5	-	4.3	-	.1	-	3.9	-	3.0	-	.1	-
3452	Bolts, nuts, rivets, and washers .....	3.1	-	2.9	-	.1	-	3.0	-	1.7	-	.2	-
346	Metal forgings and stampings .....	3.2	-	2.5	-	.4	-	3.2	-	1.4	-	.9	-
3462	Iron and steel forgings .....	2.6	-	2.2	-	.2	-	1.9	-	.9	-	.3	-
3466	Automotive stampings .....	2.5	-	1.5	-	.5	-	2.9	-	.8	-	1.5	-
3469	Metal stampings, nec .....	4.0	-	3.5	-	.4	-	4.1	-	2.3	-	.8	-
347	Metal services, nec .....	5.3	-	4.2	-	1.0	-	5.4	-	3.0	-	1.0	-
348	Ordnance and accessories, nec .....	1.9	-	1.6	-	.2	-	2.1	-	1.0	-	.4	-
349	Misc. fabricated metal products .....	3.7	-	3.2	-	.3	-	3.9	-	2.2	-	.8	-
3494	Valves and pipe fittings .....	2.6	-	2.2	-	.3	-	2.4	-	1.4	-	.2	-
3496	Misc. fabricated wire products .....	6.4	-	5.8	-	.4	-	5.4	-	3.9	-	.3	-

See footnotes at end of table.



# ESTABLISHMENT DATA LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2.8	2.8	2.4	2.3	0.2	0.2	2.6	2.5	1.4	1.3	0.3	0.3
351	Engines and turbines	1.7	—	.9	—	( <sup>1</sup> )	—	2.0	—	.4	—	.4	—
3511	Turbines and turbine generator sets	1.1	—	.6	—	( <sup>1</sup> )	—	1.9	—	.2	—	.6	—
3519	Internal combustion engines, nec	2.0	—	1.1	—	( <sup>1</sup> )	—	2.1	—	.5	—	.3	—
352	Farm and garden machinery	3.8	—	3.1	—	.5	—	3.7	—	2.0	—	.8	—
3523	Farm machinery and equipment	3.7	—	3.0	—	.5	—	3.5	—	2.0	—	.8	—
353	Construction and related machinery	2.5	—	2.2	—	.2	—	2.4	—	1.4	—	.3	—
3531	Construction machinery	2.0	—	1.6	—	.2	—	1.8	—	.8	—	.4	—
3533	Oil field machinery	3.4	—	3.2	—	( <sup>1</sup> )	—	3.0	—	1.9	—	( <sup>1</sup> )	—
354	Metalworking machinery	2.8	—	2.4	—	.3	—	2.6	—	1.5	—	.3	—
3541	Machine tools, metal cutting types	2.5	—	2.1	—	.3	—	1.9	—	1.0	—	.2	—
3544	Special dies, tools, jigs, and fixtures	3.3	—	2.7	—	.3	—	3.1	—	1.8	—	.2	—
3545	Machine tool accessories	2.7	—	2.5	—	.1	—	2.4	—	1.5	—	.1	—
355	Special industry machinery	2.2	—	1.9	—	.1	—	2.2	—	1.2	—	.3	—
3551	Food products machinery	2.3	—	2.1	—	.1	—	2.0	—	1.3	—	.1	—
3552	Textile machinery	2.9	—	2.2	—	.4	—	3.1	—	1.7	—	.5	—
356	General industrial machinery	2.5	—	2.0	—	.3	—	2.4	—	1.2	—	.3	—
3561	Pumps and pumping equipment	2.3	—	2.0	—	.2	—	2.2	—	1.3	—	.4	—
3562	Ball and roller bearings	1.9	—	1.4	—	.1	—	2.0	—	.8	—	.4	—
3564	Blowers and fans	3.3	—	2.6	—	.5	—	2.7	—	1.8	—	.1	—
357	Office and computing machines	2.9	—	2.5	—	.1	—	2.1	—	1.3	—	.1	—
3573	Electronic computing equipment	3.0	—	2.7	—	.1	—	1.9	—	1.2	—	( <sup>1</sup> )	—
358	Refrigeration and service machinery	3.1	—	2.3	—	.3	—	3.1	—	1.6	—	.4	—
3585	Refrigeration and heating equipment	3.2	—	2.3	—	.3	—	3.3	—	1.5	—	.4	—
359	Misc. machinery, except electrical	3.7	—	3.3	—	.2	—	3.2	—	2.1	—	.3	—
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	3.4	3.2	2.5	2.4	.5	.4	3.1	3.1	1.7	1.5	.5	.6
361	Electric distributing equipment	3.1	—	2.3	—	.2	—	2.8	—	1.4	—	.2	—
3612	Transformers	3.0	—	1.9	—	.3	—	2.9	—	1.3	—	.2	—
3613	Switchgear and switchboard apparatus	3.2	—	2.7	—	.2	—	2.7	—	1.6	—	.2	—
362	Electrical industrial apparatus	3.0	—	2.1	—	.4	—	2.7	—	1.3	—	.4	—
3621	Motors and generators	2.8	—	2.0	—	.4	—	2.5	—	1.3	—	.2	—
3622	Industrial controls	3.3	—	2.1	—	.6	—	3.2	—	1.2	—	.8	—
363	Household appliances	4.8	—	2.2	—	1.9	—	3.9	—	1.5	—	1.1	—
3632	Household refrigerators and freezers	5.8	—	1.0	—	3.6	—	3.7	—	.9	—	1.2	—
3633	Household laundry equipment	2.1	—	.9	—	.8	—	1.4	—	.4	—	.1	—
3634	Electric housewares and fans	5.9	—	3.6	—	2.0	—	5.4	—	2.5	—	1.8	—
364	Electric lighting and wiring equipment	3.6	—	3.0	—	.2	—	3.0	—	1.7	—	.3	—
3641	Electric lamps	2.3	—	1.6	—	.1	—	1.8	—	.7	—	.2	—
3643	Current-carrying wiring devices	3.0	—	2.6	—	.1	—	2.4	—	1.4	—	.2	—
365	Radio and TV receiving equipment	4.9	—	2.0	—	1.1	—	5.7	—	1.9	—	1.9	—
3651	Radio and TV receiving sets	5.0	—	2.2	—	.7	—	6.2	—	2.0	—	2.0	—
366	Communication equipment	2.4	—	1.8	—	.2	—	2.0	—	1.2	—	.2	—
3661	Telephone and telegraph apparatus	2.0	—	1.4	—	.4	—	1.2	—	.6	—	( <sup>1</sup> )	—
3662	Radio and TV communication equipment	2.6	—	2.1	—	.1	—	2.4	—	1.4	—	.2	—
367	Electronic components and accessories	4.3	—	3.6	—	.3	—	3.8	—	2.4	—	.4	—
3671-3	Electronic tubes	2.3	—	1.3	—	.6	—	1.7	—	.8	—	.3	—
3674	Semiconductors and related devices	3.3	—	2.8	—	.3	—	2.9	—	1.6	—	.3	—
3679	Electronic components, nec	5.2	—	4.6	—	.3	—	4.8	—	3.4	—	.4	—
369	Misc. electrical equipment and supplies	2.6	—	1.9	—	.4	—	3.1	—	1.5	—	.7	—
3694	Engine electrical equipment	1.9	—	1.3	—	.4	—	2.3	—	1.1	—	.4	—
37	<b>TRANSPORTATION EQUIPMENT</b>	3.4	—	2.3	—	.7	—	2.7	—	1.1	—	.8	—
371	Motor vehicles and equipment	2.6	—	1.8	—	.4	—	2.0	—	.8	—	.4	—
3711	Motor vehicles and car bodies	2.4	—	1.6	—	.5	—	1.4	—	.6	—	.2	—
3713	Truck and bus bodies	4.5	—	3.6	—	.8	—	3.4	—	1.9	—	.7	—
3714	Motor vehicle parts and accessories	2.4	—	1.6	—	.4	—	2.2	—	.7	—	.6	—
3715	Truck trailers	4.4	—	4.5	—	.2	—	4.3	—	2.4	—	.1	—
372	Aircraft and parts	2.8	—	2.4	—	.1	—	1.8	—	.9	—	.3	—
3721	Aircraft	2.7	—	2.1	—	.2	—	1.7	—	.8	—	.4	—
3724	Aircraft engines and engine parts	2.3	—	1.8	—	.1	—	1.3	—	.6	—	.1	—
3728	Aircraft equipment, nec	4.2	—	3.9	—	.1	—	3.0	—	1.8	—	.2	—
373	Ship and boat building and repairing	7.8	—	4.6	—	3.1	—	6.2	—	1.9	—	3.0	—
3731	Ship building and repairing	7.9	—	3.8	—	3.9	—	6.9	—	2.1	—	3.7	—
3732	Boat building and repairing	7.7	—	7.0	—	.5	—	3.9	—	1.4	—	.8	—
374	Railroad equipment	3.1	—	1.3	—	1.1	—	2.8	—	.5	—	.8	—
376	Guided missiles, space vehicles, parts	2.7	—	1.8	—	.5	—	1.6	—	.8	—	.3	—
3761	Guided missiles and space vehicles	2.7	—	1.8	—	.5	—	1.3	—	.8	—	.2	—
379	Miscellaneous transportation equipment	7.1	—	4.1	—	2.8	—	11.2	—	5.0	—	4.8	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	2.7	2.9	2.3	2.5	.2	.3	2.5	2.6	1.5	1.5	.4	.4
381	Engineering and scientific instruments	2.7	—	2.5	—	.1	—	1.8	—	1.3	—	( <sup>1</sup> )	—
382	Measuring and controlling devices	2.8	—	2.3	—	.2	—	2.5	—	1.4	—	.4	—
3822	Environmental controls	2.9	—	2.0	—	.5	—	3.3	—	1.3	—	1.1	—
3823	Process control instruments	2.5	—	2.2	—	.1	—	2.4	—	1.5	—	.2	—
3825	Instruments to measure electricity	2.8	—	2.3	—	( <sup>1</sup> )	—	1.9	—	1.3	—	.1	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>	Mar. 1979	Apr. 1979 <sup>P</sup>
<b>INSTRUMENTS AND RELATED PRODUCTS—Cont'd</b>													
383	Optical instruments and lenses .....	2.7	-	2.5	-	0.1	-	2.3	-	1.6	-	0.3	-
384	Medical instruments and supplies .....	3.3	-	2.7	-	.3	-	3.1	-	2.0	-	.3	-
3841	Surgical and medical instruments .....	4.4	-	3.7	-	.2	-	3.8	-	2.7	-	( <sup>1</sup> )	-
3842	Surgical appliances and supplies .....	2.5	-	2.0	-	.4	-	2.9	-	1.7	-	.6	-
385	Ophthalmic goods .....	3.4	-	2.8	-	.5	-	3.4	-	2.2	-	.4	-
386	Photographic equipment and supplies .....	1.7	-	1.6	-	( <sup>1</sup> )	-	1.4	-	.7	-	.2	-
387	Watches, clocks, and watchcases .....	3.6	-	2.7	-	.5	-	5.4	-	2.2	-	2.1	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	5.2	5.2	3.8	4.0	1.2	1.1	5.1	4.6	2.5	2.4	1.5	1.3
391	Jewelry, silverware, and plated ware .....	3.4	-	2.5	-	.8	-	5.0	-	2.6	-	1.4	-
393	Musical instruments .....	3.7	-	2.7	-	.7	-	4.1	-	2.4	-	.9	-
394	Toys and sporting goods .....	7.6	-	4.7	-	2.5	-	6.2	-	2.8	-	1.7	-
3942,4	Dolls, games, toys, and children's vehicles .....	9.6	-	5.3	-	3.9	-	7.2	-	3.2	-	2.1	-
3949	Sporting and athletic goods, nec .....	6.0	-	4.3	-	1.4	-	5.4	-	2.4	-	1.4	-
395	Pens, pencils, office and art supplies .....	4.0	-	3.4	-	.5	-	4.3	-	2.4	-	.9	-
396	Costume jewelry and notions .....	7.1	-	5.4	-	1.4	-	5.2	-	2.8	-	1.5	-
399	Miscellaneous manufactures .....	3.8	-	3.1	-	.6	-	4.6	-	2.1	-	1.6	-
<b>NONDURABLE GOODS</b>													
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	5.2	5.7	3.5	3.9	1.6	1.6	5.3	5.7	2.7	2.8	1.9	2.1
201	Meat products .....	7.1	-	5.0	-	1.7	-	6.8	-	4.4	-	1.5	-
2011	Meat packing plants .....	5.1	-	2.6	-	2.1	-	4.7	-	2.0	-	2.0	-
2013	Sausages and other prepared meats .....	4.0	-	2.2	-	1.6	-	4.0	-	1.9	-	1.6	-
2016	Poultry dressing plants .....	12.4	-	10.4	-	1.4	-	11.8	-	9.8	-	.8	-
202	Dairy products .....	3.7	-	3.0	-	.6	-	3.6	-	2.2	-	.8	-
203	Preserved fruits and vegetables .....	8.0	-	4.0	-	3.9	-	9.0	-	3.1	-	4.9	-
204	Grain mill products .....	3.2	-	2.3	-	.7	-	3.8	-	2.1	-	.9	-
205	Bakery products .....	3.1	-	2.5	-	.4	-	3.1	-	1.8	-	.7	-
2051	Bread, cake, and related products .....	3.0	-	2.6	-	.3	-	2.8	-	1.8	-	.4	-
2062	Cookies and crackers .....	3.1	-	2.1	-	.8	-	4.2	-	1.6	-	2.0	-
206	Sugar and confectionery products .....	4.6	-	2.0	-	2.5	-	7.2	-	1.8	-	4.6	-
207	Fats and oils .....	3.1	-	2.5	-	.5	-	3.6	-	1.9	-	1.0	-
208	Beverages .....	5.0	-	3.3	-	1.7	-	4.4	-	2.0	-	1.5	-
2082	Malt beverages .....	5.5	-	1.5	-	3.9	-	4.5	-	1.0	-	3.1	-
2086	Bottled and canned soft drinks .....	4.9	-	4.3	-	.5	-	4.1	-	2.7	-	.4	-
209	Misc. foods and kindred products .....	5.4	-	3.8	-	1.6	-	5.0	-	2.6	-	1.7	-
21	<b>TOBACCO MANUFACTURES</b> .....	2.0	-	.9	-	.7	-	4.1	-	.7	-	2.5	-
211	Cigarettes .....	1.2	-	.5	-	.3	-	1.2	-	.2	-	.1	-
22	<b>TEXTILE MILL PRODUCTS</b> .....	4.5	4.9	3.5	3.9	.6	.6	4.8	4.9	3.1	3.2	.6	.6
221	Weaving mills, cotton .....	4.7	-	3.9	-	.2	-	4.4	-	3.0	-	.2	-
222	Weaving mills, synthetics .....	4.0	-	3.8	-	.3	-	4.6	-	3.2	-	.3	-
223	Weaving and finishing mills, wool .....	4.7	-	3.9	-	.6	-	5.0	-	3.3	-	.6	-
224	Narrow fabric mills .....	4.0	-	3.5	-	.4	-	4.4	-	2.8	-	.8	-
225	Knitting mills .....	4.9	-	3.5	-	1.2	-	5.0	-	3.1	-	1.0	-
2251	Women's hosiery, except socks .....	5.3	-	4.5	-	.3	-	5.6	-	4.2	-	.4	-
2252	Hosiery, nec .....	4.7	-	4.2	-	.3	-	4.7	-	3.5	-	.4	-
2253	Knit outerwear mills .....	4.9	-	2.7	-	2.1	-	4.5	-	2.7	-	1.2	-
2254	Knit underwear mills .....	3.8	-	3.2	-	.4	-	3.8	-	3.0	-	.3	-
2257	Circular knit fabric mills .....	5.6	-	4.5	-	.9	-	6.9	-	3.4	-	1.1	-
226	Textile finishing, except wool .....	3.2	-	2.3	-	.5	-	4.1	-	2.1	-	.9	-
227	Floor covering mills .....	3.9	-	3.2	-	.4	-	4.1	-	2.6	-	.5	-
228	Yarn and thread mills .....	5.6	-	4.7	-	.5	-	6.3	-	4.7	-	.4	-
229	Miscellaneous textile goods .....	3.7	-	2.9	-	.5	-	4.1	-	2.2	-	.8	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b> .....	5.2	5.2	3.6	3.4	1.4	1.6	5.7	5.7	3.2	3.1	1.7	1.8
231	Men's and boys' suits and coats .....	2.6	-	1.0	-	1.4	-	3.3	-	1.0	-	1.8	-
232	Men's and boys' furnishings .....	5.2	-	4.1	-	.9	-	5.9	-	3.9	-	1.3	-
2321	Men's and boys' shirts and nightwear .....	4.8	-	3.6	-	.8	-	5.7	-	3.5	-	1.5	-
2327	Men's and boys' separate trousers .....	4.3	-	3.8	-	.4	-	5.1	-	3.8	-	.9	-
2328	Men's and boys' work clothing .....	6.0	-	5.3	-	.6	-	5.9	-	5.0	-	.3	-
233	Women's and misses' outerwear .....	5.3	-	3.1	-	2.0	-	6.0	-	2.8	-	2.3	-
234	Women's and children's undergarments .....	4.8	-	3.9	-	.8	-	5.4	-	3.5	-	1.2	-
2341	Women's and children's underwear .....	5.0	-	4.0	-	.9	-	5.4	-	3.8	-	.9	-
2342	Brassieres and allied garments .....	4.0	-	3.5	-	.1	-	5.5	-	2.2	-	2.3	-
236	Children's outerwear .....	5.3	-	3.6	-	1.6	-	5.9	-	3.3	-	1.9	-
238	Misc. apparel and accessories .....	6.9	-	4.7	-	1.9	-	5.4	-	3.3	-	1.2	-
239	Misc. fabricated textile products .....	5.8	-	4.5	-	1.0	-	5.7	-	3.4	-	1.0	-
26	<b>PAPER AND ALLIED PRODUCTS</b> .....	2.6	2.8	1.8	2.1	.7	.7	2.7	2.6	1.3	1.3	.7	.5
261,2,6	Paper and pulp mills .....	1.4	-	.9	-	.4	-	1.3	-	.5	-	.4	-
262	Paper mills, except building paper .....	1.3	-	.8	-	.4	-	1.1	-	.4	-	.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Mar. 1979	Apr. 1979 <sup>p</sup>	Mar. 1979	Apr. 1979 <sup>p</sup>	Mar. 1979	Apr. 1979 <sup>p</sup>	Mar. 1979	Apr. 1979 <sup>p</sup>	Mar. 1979	Apr. 1979 <sup>p</sup>	Mar. 1979	Apr. 1979 <sup>p</sup>
	<b>PAPER AND ALLIED PRODUCTS—Continued</b>												
263	Paperboard mills .....	1.8	-	1.3	-	0.2	-	1.8	-	0.8	-	0.4	-
264	Misc. converted paper products .....	3.4	-	2.5	-	.8	-	3.1	-	1.7	-	.6	-
265	Paperboard containers and boxes .....	3.2	-	2.2	-	.9	-	3.8	-	1.7	-	1.2	-
2651	Folding paperboard boxes .....	2.9	-	2.0	-	.9	-	2.9	-	1.5	-	.5	-
2653	Corrugated and solid fiber boxes .....	2.7	-	2.0	-	.6	-	3.0	-	1.6	-	.6	-
	<b>PRINTING AND PUBLISHING</b>	3.3	3.3	2.7	2.8	.5	0.4	3.1	3.3	2.0	2.1	.5	0.6
271	Newspapers .....	3.2	-	2.9	-	.1	-	3.5	-	2.6	-	.2	-
272	Periodicals .....	2.6	-	2.5	-	.1	-	2.0	-	1.5	-	( <sup>1</sup> )	-
273	Books .....	3.5	-	2.7	-	.7	-	3.4	-	1.9	-	.6	-
274	Miscellaneous publishing .....	2.5	-	1.8	-	.5	-	3.3	-	1.7	-	.9	-
275	Commercial printing .....	3.4	-	2.4	-	.9	-	2.9	-	1.6	-	.7	-
2751	Commercial printing, letterpress .....	3.6	-	2.3	-	1.3	-	3.1	-	1.6	-	.9	-
2752	Commercial printing, lithographic .....	3.3	-	2.6	-	.6	-	2.9	-	1.6	-	.7	-
278	Blankbooks and bookbinding .....	4.9	-	4.2	-	.6	-	4.7	-	2.6	-	1.3	-
	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1.8	1.8	1.4	1.4	.3	.3	1.5	1.5	.7	.7	.3	.2
281	Industrial inorganic chemicals .....	1.3	-	1.0	-	.2	-	1.0	-	.5	-	.1	-
2819	Industrial inorganic chemicals, nec .....	1.3	-	1.1	-	.1	-	1.0	-	.5	-	.1	-
282	Plastics materials and synthetics .....	1.1	-	.8	-	.1	-	1.0	-	.5	-	.1	-
2821	Plastics materials and resins .....	1.3	-	1.1	-	.1	-	1.1	-	.6	-	( <sup>1</sup> )	-
2824	Organic fibers, noncellulosic .....	.6	-	.5	-	( <sup>1</sup> )	-	.7	-	.3	-	.1	-
283	Drugs .....	1.5	-	1.3	-	.2	-	1.3	-	.6	-	.3	-
2834	Pharmaceutical preparations .....	1.6	-	1.4	-	.2	-	1.4	-	.7	-	.4	-
284	Soap, cleaners, and toilet goods .....	2.2	-	1.4	-	.6	-	2.5	-	1.0	-	.9	-
2841	Soap and other detergents .....	1.5	-	.9	-	.5	-	2.5	-	.6	-	1.8	-
2844	Toilet preparations .....	2.4	-	1.3	-	.7	-	2.7	-	1.1	-	.9	-
285	Paints and allied products .....	2.7	-	2.2	-	.4	-	2.0	-	1.1	-	.2	-
286	Industrial organic chemicals .....	1.2	-	1.0	-	.1	-	1.1	-	.5	-	.1	-
287	Agricultural chemicals .....	5.3	-	4.5	-	.8	-	2.8	-	1.8	-	.2	-
289	Miscellaneous chemical products .....	1.9	-	1.5	-	.3	-	1.8	-	1.0	-	.2	-
	<b>PETROLEUM AND COAL PRODUCTS</b>	2.3	2.6	1.7	2.0	.5	.5	1.8	2.0	.7	.8	.5	.6
291	Petroleum refining .....	1.4	-	1.2	-	.1	-	1.3	-	.4	-	.5	-
296	Paving and roofing materials .....	6.7	-	4.1	-	2.4	-	3.9	-	2.0	-	.9	-
	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	4.6	5.1	3.8	4.1	.5	.8	4.7	4.8	2.8	2.8	.8	1.0
301	Tires and inner tubes .....	1.6	-	1.1	-	.1	-	1.3	-	.6	-	.1	-
302	Rubber and plastics footwear .....	6.5	-	5.4	-	.3	-	11.4	-	5.4	-	4.2	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting .....	3.0	-	2.6	-	.1	-	3.2	-	1.9	-	.3	-
306	Fabricated rubber products, nec .....	3.8	-	2.9	-	.4	-	4.1	-	2.1	-	.7	-
307	Miscellaneous plastics products .....	5.5	-	4.6	-	.7	-	5.6	-	3.5	-	.9	-
	<b>LEATHER AND LEATHER PRODUCTS</b>	6.3	6.9	4.2	5.0	1.7	1.6	6.7	7.1	4.1	4.2	1.6	1.9
311	Leather tanning and finishing .....	5.8	-	2.6	-	3.2	-	5.1	-	2.4	-	1.8	-
314	Footwear, except rubber .....	6.5	-	4.4	-	1.5	-	6.9	-	4.5	-	1.3	-
3143	Men's footwear, except athletic .....	5.4	-	4.4	-	.7	-	6.0	-	4.6	-	.4	-
3144	Women's footwear, except athletic .....	7.5	-	4.1	-	2.5	-	7.4	-	4.4	-	1.8	-
	<b>NONMANUFACTURING:</b>												
-	<b>MINING</b>	5.0	4.7	3.6	3.3	1.0	1.0	3.9	3.6	2.3	2.3	.6	.5
	<b>METAL MINING</b>	2.5	3.0	2.0	2.3	.2	.4	2.4	2.1	1.3	1.3	.4	.2
101	Iron ores .....	1.8	-	.7	-	.4	-	2.2	-	.3	-	.8	-
102	Copper ores .....	1.7	-	1.4	-	( <sup>1</sup> )	-	1.2	-	.4	-	.3	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b>	1.7	1.9	1.1	1.1	.3	.6	1.9	1.6	.6	.6	.8	.4
	<b>OIL AND GAS EXTRACTION</b>	7.0	6.4	5.4	4.8	1.0	1.0	5.8	5.3	3.7	3.6	.5	.7
131,2	Crude petroleum, natural gas, and natural gas liquids .....	2.3	-	1.5	-	.5	-	1.6	-	.8	-	.2	-
138	Oil and gas field services .....	10.4	-	8.3	-	1.3	-	8.8	-	5.8	-	.7	-
	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b>	6.6	5.5	3.4	3.2	3.0	2.1	2.6	2.9	1.8	2.0	.2	.1
142	Crushed and broken stone .....	8.3	-	3.9	-	4.2	-	2.8	-	2.0	-	.4	-
144	Sand and gravel .....	8.9	-	4.0	-	4.7	-	2.6	-	1.9	-	.1	-
	<b>COMMUNICATION:</b>												
481	Telephone communication .....	1.2	-	1.0	-	( <sup>1</sup> )	-	.9	-	.4	-	.1	-

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

p-preliminary.

**ESTABLISHMENT DATA**  
**SEASONALLY ADJUSTED LABOR TURNOVER**

**D-3. Labor turnover rates in manufacturing, 1969 to date, seasonally adjusted**

(Per 100 employees)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>												
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	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974	4.7	4.6	4.5	4.7	4.5	4.3	4.2	4.1	4.0	3.8	3.3	3.1
1975	3.0	3.1	3.2	3.8	3.6	3.8	4.0	4.0	3.8	3.9	3.9	3.9
1976	4.2	4.2	4.2	4.1	3.9	3.8	3.8	3.7	3.7	3.8	3.8	4.0
1977	4.0	4.4	4.1	3.9	3.9	3.9	3.9	3.7	3.9	4.0	4.1	4.4
1978	4.2	4.0	3.9	4.2	4.0	3.9	3.8	3.8	4.1	4.4	4.5	4.5
1979	4.4	4.3	4.1	P4.0								
<b>New hires</b>												
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.7	3.5	3.7	3.6	3.5	3.5
1970	3.3	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974	3.8	3.7	3.6	3.5	3.5	3.3	3.2	3.1	3.0	2.7	2.3	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.3	2.4	2.5	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.5	2.5	2.6
1977	2.7	2.8	2.9	2.8	3.0	2.8	2.7	2.7	2.7	2.8	2.9	3.3
1978	3.1	3.0	3.0	3.1	3.0	3.0	2.9	2.8	3.1	3.4	3.5	3.5
1979	3.4	3.4	3.2	P2.9								
<b>Total separations</b>												
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	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974	5.1	5.0	4.9	4.7	4.5	4.5	4.6	4.7	4.5	4.8	5.1	4.9
1975	5.2	5.0	4.6	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.8	3.5
1976	3.6	3.6	3.9	3.9	3.8	3.9	3.9	3.9	3.9	3.9	3.7	3.7
1977	4.0	4.1	3.7	3.7	3.8	3.8	3.9	3.9	3.8	3.7	3.9	3.9
1978	3.8	3.8	3.8	4.0	3.9	4.0	3.9	3.7	3.7	3.9	3.9	4.1
1979	4.0	4.0	4.0	P4.1								
<b>Quits</b>												
1969	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6
1970	2.4	2.5	2.3	2.3	2.1	2.2	2.1	2.0	2.0	1.9	1.8	1.9
1971	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.6
1973	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.3	2.3	2.0	1.8	1.7
1975	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976	1.6	1.7	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7
1977	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.0
1978	2.0	2.0	2.0	2.2	2.1	2.1	2.0	1.9	2.0	2.3	2.2	2.2
1979	2.3	2.3	2.2	P2.2								
<b>Layoffs</b>												
1969	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.5	1.9	1.9	2.2	2.0	1.7
1971	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974	1.4	1.3	1.2	1.1	1.0	1.1	1.2	1.4	1.3	1.8	2.4	2.5
1975	2.9	2.9	2.7	2.6	2.5	2.2	1.7	1.7	1.7	1.5	1.5	1.3
1976	1.2	1.0	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.3	1.2
1977	1.3	1.4	1.1	1.1	1.1	1.2	1.2	1.3	1.1	1.1	1.0	1.0
1978	.9	.9	1.0	.9	1.0	1.0	.9	.9	.8	.9	.8	.9
1979	.8	.8	.9	P1.1								

p-preliminary.

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

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>
<b>ALABAMA:</b>												
Birmingham .....	2.5	2.9	1.7	1.6	0.6	1.0	2.7	2.4	1.1	0.9	0.6	0.7
Mobile .....	7.7	5.6	1.6	2.8	6.0	2.8	4.5	6.0	1.3	1.3	2.3	3.7
<b>ALASKA</b> .....	23.1	18.2	10.8	13.4	7.9	2.8	4.8	11.1	2.4	8.0	1.5	.4
<b>ARIZONA</b> .....	4.5	5.2	3.9	4.6	.4	.5	4.0	4.9	2.4	3.0	.6	.6
Phoenix .....	4.7	5.5	4.1	4.8	.4	.6	4.0	5.0	2.5	3.1	.4	.5
<b>ARKANSAS</b> .....	4.8	6.5	3.8	5.0	.7	1.2	4.4	6.1	2.9	4.2	.6	.9
Fort Smith .....	5.3	7.8	3.8	3.7	1.0	3.3	3.9	6.1	2.7	3.7	.4	1.1
Little Rock—North Little Rock .....	3.5	4.4	3.0	3.6	.4	.5	3.6	4.9	2.3	3.0	.5	.6
Pine Bluff .....	2.9	3.5	1.9	2.4	.7	.5	2.5	3.7	1.8	1.8	.3	1.5
<b>COLORADO</b> .....	4.4	4.4	3.9	4.0	.3	.2	4.0	4.2	2.6	2.9	.5	.3
Denver—Boulder .....	4.5	4.1	4.1	3.7	.2	.2	4.1	4.1	2.7	2.8	.4	.3
<b>CONNECTICUT</b> .....	2.6	2.6	2.0	2.1	.4	.4	2.3	2.7	1.2	1.4	.4	.6
Hartford .....												
<b>DELAWARE</b> .....	1.6	2.1	.7	1.0	.5	.6	1.6	1.7	.6	.7	.6	.6
Wilmington .....	1.4	1.7	.6	.9	.4	.3	1.4	1.6	.4	.6	.5	.5
<b>FLORIDA</b> .....	5.2	5.3	4.5	4.6	.5	.5	4.8	6.0	3.1	3.4	.7	1.4
Fort Lauderdale—Hollywood .....	6.4	6.6	5.9	5.5	.4	.2	5.5	4.5	3.6	2.9	.5	.4
Jacksonville .....	4.2	3.9	2.8	3.4	1.3	.4	5.4	5.2	1.8	2.8	2.6	1.1
Miami .....	5.4	5.6	5.0	5.2	.4	.4	4.6	5.3	3.1	3.3	.6	.8
Orlando .....	8.1	6.9	7.7	6.2	.3	.6	6.3	6.5	4.0	4.3	.7	1.1
Pensacola .....	1.5	1.8	1.5	1.6	(1)	(1)	1.9	1.6	.9	.8	.5	.5
Tampa—St. Petersburg .....	6.1	6.9	5.0	5.4	.9	1.4	5.3	7.6	3.8	4.6	.5	1.9
West Palm Beach—Boca Raton .....	4.1	3.8	3.7	3.6	.3	.1	3.1	5.0	2.3	2.3	.1	1.8
<b>GEORGIA</b> .....	3.2	(*)	2.7	(*)	.3	(*)	3.4	(*)	2.0	(*)	.6	(*)
Atlanta <sup>2</sup> .....	2.6	(*)	2.2	(*)	.2	(*)	2.8	(*)	1.4	(*)	.6	(*)
<b>HAWAII</b> <sup>3</sup> .....	2.7	3.2	1.5	2.0	.9	.6	2.9	3.3	1.0	1.1	1.5	1.2
<b>IDAHO</b> <sup>4</sup> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>ILLINOIS:</b>												
Chicago SMSA .....	3.4	(*)	2.9	(*)	.2	(*)	3.1	(*)	1.6	(*)	.5	(*)
<b>INDIANA</b> .....	2.7	2.8	1.8	1.8	.5	.5	2.8	3.1	1.1	1.3	.8	.9
Indianapolis <sup>5</sup> .....	2.8	2.9	2.0	1.8	.4	.4	2.3	3.1	1.0	1.3	.5	.7
<b>IOWA</b> .....	3.1	(*)	2.1	(*)	.7	(*)	2.9	(*)	1.1	(*)	.7	(*)
Cedar Rapids .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Des Moines .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>KANSAS</b> .....	4.9	4.8	4.2	4.2	.5	.4	4.2	4.3	2.5	3.0	.6	.4
Topeka .....	4.4	4.3	3.5	3.8	.8	.5	2.8	3.5	1.2	2.0	.3	.3
Wichita .....	5.1	4.9	4.4	4.3	.4	.4	4.1	4.1	2.4	2.6	.5	.4
<b>KENTUCKY</b> .....	2.7	3.1	1.6	2.0	.7	.8	2.8	3.3	1.0	1.5	1.0	1.0
Louisville .....	2.6	2.3	1.3	1.1	.5	.5	2.4	2.1	.6	.7	.6	.4
<b>LOUISIANA</b>												
New Orleans .....	4.4	4.5	3.5	3.8	.2	.6	4.2	4.2	2.3	2.6	.8	.6
<b>MAINE</b> .....	3.9	4.8	3.0	3.6	.7	1.0	4.4	5.2	2.3	2.9	1.2	1.4
Portland .....	3.0	4.3	2.5	3.5	.3	.4	3.3	3.5	1.8	2.2	.6	.5
<b>MARYLAND</b> .....	2.3	2.9	1.4	1.8	.7	.9	2.4	2.6	.8	1.1	1.0	.9
Baltimore .....	2.2	2.7	1.3	1.5	.8	.9	2.3	2.5	.7	.9	.9	.9
<b>MASSACHUSETTS</b> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Boston .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>MICHIGAN</b> .....	2.4	(*)	1.7	(*)	.4	(*)	2.2	(*)	.8	(*)	.7	(*)
Detroit .....	2.2	(*)	1.5	(*)	.4	(*)	2.1	(*)	.8	(*)	.6	(*)
Flint .....	1.8	(*)	1.5	(*)	(1)	(*)	1.7	(*)	.4	(*)	.2	(*)
Grand Rapids .....	3.2	(*)	2.1	(*)	.8	(*)	2.4	(*)	1.3	(*)	.5	(*)
Lansing—East Lansing .....	1.2	(*)	.9	(*)	.1	(*)	.9	(*)	.2	(*)	.3	(*)

See footnotes at end of table.

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

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>	Feb. 1979	Mar. 1979 <sup>p</sup>
MINNESOTA .....	3.6	3.8	2.7	3.1	0.6	0.5	2.9	3.3	1.7	2.2	0.5	0.5
Minneapolis—St. Paul .....	3.5	3.5	2.7	3.0	.6	.3	2.5	2.8	1.6	2.0	.3	.2
MISSISSIPPI:												
Jackson .....	4.0	3.8	2.9	3.1	.9	.5	3.4	3.1	2.5	2.4	.1	.3
MISSOURI .....	3.0	3.2	2.1	2.4	.7	.7	2.9	3.3	1.4	1.8	.7	.7
Kansas City .....	3.0	3.2	2.4	2.6	.5	.6	2.9	3.0	1.5	1.7	.7	.5
St. Louis .....	2.4	2.4	1.5	1.7	.7	.6	2.4	2.5	.9	1.1	.7	.7
MONTANA .....	2.2	(*)	1.6	(*)	.5	(*)	1.8	(*)	1.0	(*)	.5	(*)
NEBRASKA .....	3.8	4.4	3.4	3.8	.4	.5	3.5	4.0	2.2	2.8	.6	.5
NEVADA .....	7.6	10.3	6.7	9.1	.3	.7	7.3	8.6	5.2	5.8	( <sup>1</sup> )	.4
NEW HAMPSHIRE .....	5.0	5.8	4.3	4.6	.5	.9	5.1	5.7	3.1	3.9	1.1	.9
NEW JERSEY:												
Camden <sup>5</sup> .....	3.2	3.1	1.7	2.0	1.1	.8	2.5	3.7	.8	1.1	.9	1.4
Hackensack .....	3.1	3.9	2.5	3.1	.5	.6	3.4	3.4	1.5	1.7	1.1	.8
Jersey City .....	2.8	3.8	1.9	1.9	.9	1.8	3.1	2.8	.9	1.0	1.4	1.1
Newark .....	2.7	3.0	2.1	2.3	.4	.5	2.6	3.0	1.2	1.3	.6	.7
New Brunswick—Perth Amboy—Sayreville .....	2.7	3.9	2.1	3.1	.5	.6	2.7	4.0	1.2	1.7	.6	1.1
Paterson—Clifton—Passaic .....	3.7	3.2	2.6	2.3	.9	.7	4.0	3.4	1.4	1.5	1.4	1.2
Trenton .....	2.1	2.7	1.6	1.7	.3	.9	2.5	1.9	1.1	1.0	.6	.2
NEW YORK .....	3.6	3.8	2.0	2.4	1.5	1.2	3.0	3.5	1.0	1.3	1.2	1.4
Albany—Schenectady—Troy .....	1.8	2.3	1.0	1.1	.3	.8	2.6	2.9	.6	.8	1.0	1.3
Binghamton .....	2.1	3.3	1.6	2.7	.3	.4	2.4	3.0	1.2	1.5	.3	.5
Buffalo .....	2.5	2.8	1.5	1.8	.7	.7	2.1	2.1	.6	.7	.8	.6
Elmira .....	2.4	2.4	1.8	1.8	.3	.3	2.0	2.6	.6	1.0	.3	.4
Monroe County <sup>7</sup> .....	1.8	2.2	1.4	1.8	.2	.3	1.7	1.6	.7	.9	.2	.1
Nassau—Suffolk <sup>8</sup> .....	3.8	5.0	3.2	3.8	.5	1.1	4.0	4.0	1.9	2.4	1.2	.7
New York and Nassau—Suffolk .....	4.9	4.7	2.5	3.0	2.2	1.5	3.6	4.1	1.2	1.5	1.6	1.8
New York SMSA <sup>8</sup> .....	5.1	4.6	2.3	2.8	2.7	1.7	3.5	4.1	1.0	1.2	1.7	2.0
New York City <sup>9</sup> .....	5.0	4.8	2.4	2.8	2.4	1.9	3.6	4.3	1.0	1.2	1.7	2.3
Rochester .....	2.1	2.5	1.5	1.9	.5	.4	2.5	2.2	.8	1.0	.8	.5
Syracuse .....	1.8	2.6	1.4	1.5	.3	.9	2.7	3.1	.8	1.1	1.3	1.2
Utica—Roma .....	2.4	2.5	1.6	1.6	.6	.8	2.2	2.4	.8	1.0	.7	.8
Westchester County <sup>9</sup> .....	7.1	3.0	1.8	2.3	5.0	.4	2.7	2.6	1.1	1.1	.9	.7
NORTH CAROLINA .....	3.5	4.1	2.9	3.5	.3	.3	3.6	4.4	2.4	3.1	.5	.5
Charlotte—Gastonia .....	4.6	5.4	4.0	4.7	.3	.4	4.5	5.4	3.4	4.2	.1	.2
Greensboro—Winston-Salem—High Point .....	3.1	3.4	2.7	3.1	.2	.1	3.1	3.7	2.0	2.6	.4	.3
NORTH DAKOTA .....	5.1	6.4	4.0	5.4	.6	1.1	4.3	5.1	1.6	3.9	1.3	.3
Fargo—Moorhead .....	3.8	4.9	3.3	4.3	.3	.5	4.7	3.3	1.0	2.1	2.3	.2
OHIO .....	2.5	2.5	1.5	1.6	(*)	(*)	2.3	2.4	.8	1.0	.7	.6
Akron .....	1.3	1.6	.9	1.0	(*)	(*)	1.4	1.5	.5	.7	.4	.3
Canton .....	2.5	3.1	1.5	1.8	(*)	(*)	2.1	2.7	.6	.9	.3	.3
Cincinnati .....	2.6	2.1	1.5	1.5	(*)	(*)	2.1	2.1	.9	.9	.6	.4
Cleveland .....	2.6	2.7	2.0	1.9	(*)	(*)	2.7	2.4	1.1	1.2	.6	.4
Columbus .....	2.1	2.5	1.5	1.6	(*)	(*)	2.3	2.6	.9	1.2	.6	.8
Dayton .....	1.9	2.0	1.3	1.6	(*)	(*)	1.7	1.9	.6	1.0	.4	.2
Toledo .....	2.1	2.2	1.2	1.2	(*)	(*)	2.5	2.6	.7	.7	.5	.8
Youngstown—Warren .....	3.1	2.0	.7	1.0	(*)	(*)	2.2	2.4	.4	.5	.8	1.1
OKLAHOMA .....	5.8	6.5	5.2	5.8	.4	.5	5.1	6.5	3.7	4.8	.4	.6
Oklahoma City .....	5.3	7.0	4.8	6.2	.5	.7	5.2	7.1	3.7	5.0	.5	.8
Tulsa <sup>10</sup> .....	6.5	6.2	6.1	5.7	.2	.3	5.2	6.1	3.4	4.1	.4	.5
OREGON <sup>11</sup> .....	3.8	4.5	2.9	3.5	.8	1.0	3.8	4.0	1.8	2.4	1.2	.8
Portland <sup>11</sup> .....	4.4	5.2	3.3	4.2	.9	.9	3.9	4.7	2.0	2.9	1.1	.8
PENNSYLVANIA .....	2.6	3.0	1.6	1.8	.9	1.0	2.5	2.8	.9	1.1	.9	.9
Allentown—Bethlehem—Easton .....	2.3	2.4	1.4	1.5	.7	.6	2.1	2.7	.9	1.0	.5	1.0
Altoona .....	1.1	1.9	.5	.3	.5	1.5	2.1	1.7	.6	.5	1.3	.9
Erie .....	2.0	2.6	1.2	1.8	.6	.4	2.8	2.9	1.0	.9	.6	1.0
Harrisburg .....	2.6	3.2	2.0	2.3	.4	.6	2.4	2.4	1.3	1.4	.4	.2
Johnstown .....	2.6	1.7	.9	.7	1.7	1.0	2.6	1.7	1.0	.6	1.1	.7
Lancaster .....	2.7	3.5	2.1	2.4	.5	1.0	2.6	3.2	1.5	1.8	.6	.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	
	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>	Feb. 1979	Mar. 1979 <sup>P</sup>
<b>PENNSYLVANIA—Continued</b>												
Northeast Pennsylvania .....	3.8	3.9	2.1	2.3	1.4	1.5	3.4	4.0	1.1	1.3	1.7	2.1
Philadelphia SMSA .....	2.6	2.8	1.7	1.9	.7	.7	2.2	2.5	.9	1.1	.7	.7
Pittsburgh .....	2.3	2.3	1.3	1.1	.8	.8	2.0	2.1	.4	.5	.7	.8
Reading <sup>12</sup> .....	2.7	3.1	1.9	2.2	.7	.8	2.9	3.6	1.2	1.6	1.0	1.3
Scranton .....	3.7	3.4	2.3	2.3	1.3	1.1	3.5	3.2	1.3	1.5	1.6	1.3
Wilkes-Barre—Hazleton <sup>12</sup> .....	3.5	3.6	1.8	2.0	1.3	1.3	3.1	3.8	.9	1.0	1.5	2.2
Williamsport .....	2.4	3.2	1.6	1.9	.7	.8	2.4	2.8	.7	1.1	1.2	1.1
York .....	3.2	3.5	2.3	2.8	.7	.6	2.9	3.3	1.7	2.1	.6	.5
<b>RHODE ISLAND</b>												
Providence—Warwick—Pawtucket .....	4.2	4.9	3.3	3.8	.7	.8	4.3	5.3	2.3	2.9	1.1	1.4
.....	3.8	4.7	2.9	3.6	.7	.8	4.3	5.1	2.4	2.9	1.0	1.3
<b>SOUTH CAROLINA</b>												
Charleston—North Charleston .....	3.2	3.8	2.6	3.2	.4	.3	3.2	4.2	2.0	2.5	.4	.7
Columbia .....	3.4	5.1	3.1	3.9	.3	1.0	3.1	5.3	1.8	2.3	.2	1.5
Greenville—Spartanburg .....	5.4	3.5	3.3	3.1	2.0	.2	2.8	3.2	2.1	2.2	( <sup>1</sup> )	.2
.....	3.3	4.3	2.9	3.9	.2	.2	3.6	4.9	2.2	3.0	.5	.7
<b>SOUTH DAKOTA</b>												
Sioux Falls .....	3.3	7.2	2.7	5.2	.5	.7	4.1	3.7	2.0	2.6	1.3	.5
.....	2.6	3.6	2.0	2.3	.6	1.3	3.6	3.7	1.6	1.9	1.5	1.4
<b>TENNESSEE:</b>												
Memphis .....	2.8	3.0	1.8	2.4	.7	.5	2.7	2.9	1.2	1.6	.7	.6
<b>TEXAS:</b>												
Dallas—Fort Worth .....	5.1	5.5	4.7	5.0	.3	.3	4.5	5.3	3.3	3.9	.2	.2
Houston .....	4.0	4.3	3.8	4.1	.1	.2	3.7	4.2	2.6	2.9	.1	.2
San Antonio .....	4.1	4.7	3.7	4.2	.2	.4	4.4	4.5	3.1	3.1	.3	.4
<b>UTAH<sup>4</sup></b>												
Salt Lake City—Ogden <sup>4</sup> .....	4.9	(*)	4.1	(*)	.6	(*)	4.8	(*)	3.1	(*)	.8	(*)
.....	4.6	(*)	3.9	(*)	.5	(*)	4.7	(*)	3.1	(*)	.7	(*)
<b>VERMONT</b>												
Burlington .....	3.0	3.6	2.2	2.8	.5	.6	3.0	3.6	1.4	2.0	.8	1.0
Springfield .....	1.7	2.1	1.4	1.3	( <sup>1</sup> )	.6	1.6	1.5	.6	.4	.6	.7
.....	3.4	3.5	2.3	2.4	1.1	1.0	3.5	3.2	1.2	1.5	1.4	1.2
<b>VIRGINIA</b>												
Richmond .....	3.1	3.2	2.3	2.4	.5	.6	3.0	3.3	1.6	1.7	.5	.7
.....	2.2	2.2	1.8	1.7	.1	( <sup>1</sup> )	1.8	2.1	.8	.9	.1	.2
<b>WASHINGTON:</b>												
Seattle—Everett <sup>13</sup> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>WISCONSIN</b>												
Milwaukee .....	2.7	2.9	1.9	1.9	.5	.6	2.6	2.9	1.0	1.2	.7	.8
.....	2.9	2.8	2.0	1.9	.5	.5	2.7	2.7	1.0	1.1	.5	.4
<b>WYOMING</b>												
.....	5.9	6.3	5.3	5.6	.5	.7	18.2	6.5	5.0	4.9	11.5	.4

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

<sup>2</sup> Excludes agricultural chemicals, and miscellaneous manufacturing.

<sup>3</sup> Excludes canned fruits, vegetables, preserves, jams, and jellies.

<sup>4</sup> Excludes canning and preserving, and sugar.

<sup>5</sup> Excludes canning and preserving, and newspapers.

<sup>6</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

<sup>7</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>8</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>9</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>10</sup> Excludes new-hire rate for transportation equipment.

<sup>11</sup> Excludes canning and preserving.

<sup>12</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

<sup>13</sup> Excludes canning and preserving, printing and publishing.

<sup>P</sup> preliminary.

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

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>ALABAMA</b> .....	1,579.1	1,592.8	1,599.3	92.9	116.9	106.6	5.9	7.3	6.7
Birmingham .....	365.6	371.8	372.8	18.5	24.1	21.8	5.1	6.5	5.8
Huntsville .....	131.1	134.6	134.0	7.1	11.1	8.5	5.4	8.2	6.4
Mobile .....	178.1	180.1	180.3	12.1	13.8	12.7	6.8	7.7	7.1
Montgomery .....	112.6	115.5	116.6	6.2	6.5	6.4	5.5	5.6	5.5
Tuscaloosa .....	52.0	51.2	51.5	3.4	3.4	3.1	6.5	6.6	6.1
<b>ALASKA</b> .....	177.4	179.2	182.3	21.5	19.9	18.2	12.1	11.1	10.0
<b>ARIZONA</b> .....	982.9	1,050.7	1,043.1	58.8	60.6	53.2	6.0	5.8	5.1
Phoenix .....	591.7	636.4	633.5	30.4	30.7	28.0	5.1	4.8	4.4
Tucson .....	178.0	189.8	187.5	10.4	9.1	7.7	5.8	4.8	4.1
<b>ARKANSAS</b> .....	924.5	947.6	957.0	52.6	58.9	53.0	5.7	6.2	5.5
Fayetteville-Springdale .....	71.4	73.6	73.3	2.9	3.6	2.8	4.1	4.9	3.9
Fort Smith <sup>1</sup> .....	82.9	85.6	86.3	4.6	7.1	6.8	5.6	8.3	7.9
Little Rock-North Little Rock .....	174.6	179.4	180.7	7.3	7.0	6.5	4.2	3.9	3.6
Pine Bluff .....	37.1	37.3	37.3	2.3	2.5	2.3	6.2	6.7	6.0
<b>CALIFORNIA</b> <sup>2</sup> .....	10,589.3	10,768.4	10,661.8	763.9	720.7	655.7	7.2	6.7	6.2
Anaheim-Santa Ana-Garden Grove .....	997.1	1,039.8	1,039.3	44.4	43.2	39.2	4.4	4.2	3.8
Bakersfield .....	172.4	171.4	171.2	16.5	18.4	15.7	9.6	10.7	9.2
Fresno .....	250.2	246.4	246.7	25.0	25.0	21.2	10.0	10.1	8.6
Los Angeles-Long Beach <sup>2</sup> .....	3,391.0	3,515.0	3,430.0	259.0	199.0	195.0	7.7	5.7	5.7
Modesto .....	129.6	129.7	128.9	17.7	18.9	16.6	13.7	14.6	12.9
Oxnard-Simi Valley-Ventura .....	215.9	212.8	214.8	14.1	16.4	14.2	6.6	7.7	6.6
Riverside-San Bernardino-Ontario .....	553.8	562.6	558.6	33.3	35.2	32.2	6.0	6.3	5.8
Sacramento .....	446.9	449.9	450.1	33.3	36.7	32.3	7.5	8.1	7.2
Salinas-Seaside-Monterey .....	128.2	125.0	125.9	12.3	12.2	10.5	9.6	9.7	8.3
San Diego .....	686.6	706.2	702.3	40.5	43.2	38.7	5.9	6.1	5.5
San Francisco-Oakland .....	1,577.7	1,580.5	1,573.8	88.4	87.5	81.8	5.6	5.5	5.2
San Jose .....	660.6	670.4	668.6	37.7	37.0	31.9	5.7	5.5	4.8
San Jose .....	142.5	140.6	139.1	9.4	9.5	8.1	6.6	6.7	5.8
Santa Barbara-Santa Maria-Lompoc .....	119.9	120.3	119.6	8.7	9.5	8.1	7.2	7.9	6.8
Santa Rosa .....	160.1	155.4	155.9	19.3	20.0	16.7	12.0	12.8	10.7
Stockton .....	121.5	120.3	120.6	7.7	8.0	7.2	6.3	6.6	6.0
<b>COLORADO</b> .....	1,272.3	1,307.0	1,309.6	71.1	67.5	66.6	5.6	5.2	5.1
Denver-Boulder .....	749.5	772.1	772.3	38.0	35.6	36.7	5.1	4.6	4.7
<b>CONNECTICUT</b> .....	1,502.6	1,560.0	1,579.1	84.0	86.9	81.1	5.6	5.6	5.1
Bridgeport .....	184.7	188.9	189.8	10.5	11.4	10.5	5.7	6.0	5.6
Hartford .....	359.4	376.4	378.6	17.8	19.6	17.6	5.0	5.2	4.6
New Britain .....	70.6	74.2	74.8	4.2	4.2	4.0	6.0	5.7	5.3
New Haven-West Haven .....	189.8	201.7	205.5	9.2	10.9	10.2	4.9	5.4	5.0
Stamford .....	115.9	119.0	120.6	5.2	4.6	4.8	4.5	3.9	3.9
Waterbury .....	107.5	108.8	109.8	7.6	7.2	6.9	7.1	6.6	6.3
<b>DELAWARE</b> .....	267.2	268.3	269.4	19.2	21.5	19.7	7.2	8.0	7.3
Wilmington <sup>1</sup> .....	233.2	237.4	237.6	15.3	17.1	15.8	6.6	7.2	6.7
<b>DISTRICT OF COLUMBIA</b> .....	329.0	328.6	323.7	28.0	25.8	25.7	8.5	7.8	7.9
Washington SMSA <sup>1</sup> .....	1,538.0	1,566.1	1,568.2	71.8	74.9	69.0	4.7	4.8	4.4
<b>FLORIDA</b> <sup>2</sup> .....	3,647.9	3,850.1	3,831.5	221.7	223.1	202.2	6.1	5.8	5.3
Fort Lauderdale-Hollywood .....	378.6	399.4	393.1	24.2	22.2	20.3	6.4	5.6	5.2
Jacksonville .....	295.7	306.2	306.8	16.9	17.9	16.3	5.7	5.9	5.3
Miami .....	680.8	710.2	709.0	46.6	41.3	38.1	6.8	5.8	5.4
Orlando .....	285.3	306.8	312.8	15.8	16.5	16.4	5.5	5.4	5.2
Pensacola .....	106.4	111.3	111.7	5.2	6.4	5.6	4.9	5.7	5.0
Tampa-St. Petersburg .....	558.4	583.5	581.6	31.6	32.2	29.4	5.7	5.5	4.9
West Palm Beach-Boca Raton .....	202.7	227.4	211.1	12.5	12.4	11.7	6.2	5.5	5.5
<b>GEORGIA</b> .....	2,306.0	2,329.6	2,328.5	122.3	121.7	116.1	5.3	5.2	5.0
Albany .....	46.4	50.2	50.3	3.1	2.7	2.6	6.6	5.3	5.3
Atlanta .....	908.3	913.6	909.6	44.3	43.7	41.6	4.9	4.8	4.6
Augusta .....	120.0	124.6	125.6	7.1	6.9	6.7	5.9	5.6	5.4
Columbus <sup>1</sup> .....	83.5	86.9	86.4	5.2	6.2	5.6	6.3	7.2	6.5
Macon .....	102.5	100.3	99.1	7.0	6.2	5.5	6.8	6.2	5.5
Savannah .....	90.1	89.8	89.5	5.2	5.1	4.8	5.7	5.7	5.4

See footnotes at end of table.



# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>HAWAII</b> .....	396.9	398.4	397.1	29.9	25.4	27.0	7.5	6.4	6.8
Honolulu .....	314.0	314.4	312.5	22.9	19.6	20.1	7.3	6.2	6.4
<b>IDAHO</b> .....	392.5	407.1	412.0	23.5	29.3	25.9	6.0	7.2	6.3
Boise City .....	83.7	89.5	90.1	2.7	4.4	4.0	3.3	4.9	4.5
<b>ILLINOIS</b> <sup>2</sup> .....	5,229.4	5,249.1	5,218.8	286.1	315.2	272.7	5.5	6.0	5.2
Bloomington—Normal .....	59.1	58.5	58.3	2.4	3.0	2.4	4.1	5.2	4.0
Champaign—Urbana—Rantoul .....	78.1	79.6	79.1	3.4	3.8	3.1	4.3	4.7	3.9
Chicago .....	3,327.4	3,354.7	3,334.2	175.7	184.5	165.3	5.3	5.5	5.0
Davenport—Rock Island—Moline <sup>1</sup> .....	178.8	179.7	179.7	9.2	7.9	6.8	5.1	4.4	3.8
Decatur .....	58.8	58.9	58.3	3.7	4.1	3.4	6.3	7.0	5.8
Peoria .....	171.6	173.1	171.7	7.9	10.1	8.4	4.6	5.9	4.9
Rockford .....	133.4	135.1	133.9	6.4	7.4	6.4	4.8	5.5	4.8
Springfield .....	94.9	93.8	92.7	5.2	6.4	5.0	5.4	6.9	5.4
<b>INDIANA</b> .....	2,542.0	2,607.6	2,609.8	141.0	152.2	149.9	5.5	5.8	5.7
Anderson .....	60.5	60.9	60.3	3.6	4.0	3.9	6.0	6.5	6.5
Evansville <sup>1</sup> .....	139.7	139.3	139.5	5.7	6.9	7.1	4.1	5.0	5.1
Fort Wayne .....	183.7	189.8	189.3	8.4	8.8	7.8	4.6	4.7	4.1
Gary—Hammond—East Chicago .....	282.9	290.8	290.7	16.5	16.0	14.7	5.8	5.5	5.1
Indianapolis .....	571.7	582.9	583.8	29.2	29.2	30.0	5.1	5.0	5.1
Lafayette—West Lafayette .....	61.6	64.7	64.6	2.4	3.0	2.8	3.9	4.6	4.3
Muncie .....	56.9	57.5	57.7	4.9	3.9	3.9	8.6	6.7	6.8
South Bend .....	139.9	144.9	143.4	7.1	8.3	8.1	5.1	5.7	5.6
Terre Haute .....	80.5	82.0	82.3	4.8	5.4	4.8	5.9	6.6	5.8
<b>IOWA</b> .....	1,421.9	1,397.9	1,427.9	57.3	61.1	54.6	4.0	4.4	3.8
Cedar Rapids .....	84.2	86.3	86.7	2.9	3.4	2.9	3.4	3.9	3.4
Des Moines .....	180.2	179.9	180.4	7.2	7.3	6.7	4.0	4.1	3.7
Dubuque .....	44.6	44.8	45.3	2.5	2.7	2.5	5.5	5.9	5.4
Sioux City <sup>1</sup> .....	58.1	55.5	56.2	3.0	4.0	3.6	5.2	7.1	6.3
Waterloo—Cedar Falls .....	66.8	69.2	69.8	3.3	3.4	3.2	4.9	5.0	4.6
<b>KANSAS</b> .....	1,148.2	1,183.5	1,185.6	30.7	34.0	34.4	2.7	2.9	2.9
Topeka .....	94.7	97.5	97.3	2.7	3.6	3.5	2.9	3.7	3.6
Wichita .....	212.0	226.0	226.2	6.2	6.5	6.6	2.9	2.9	2.9
<b>KENTUCKY</b> .....	1,528.5	1,502.4	1,502.6	71.7	82.7	70.0	4.7	5.5	4.7
Lexington—Fayette .....	158.0	155.1	159.7	5.3	4.7	4.7	3.4	3.0	2.9
Louisville <sup>1</sup> .....	406.2	403.4	406.5	18.4	20.2	17.3	4.5	5.0	4.2
Owensboro .....	37.1	37.3	37.1	1.6	1.9	1.9	4.4	5.2	5.2
<b>LOUISIANA</b> .....	1,619.4	1,632.4	1,638.1	114.0	92.3	89.2	7.0	5.7	5.4
Alexandria .....	67.1	67.7	67.0	5.8	4.8	4.4	8.7	7.0	6.5
Baton Rouge .....	202.8	202.2	201.5	13.2	10.7	10.6	6.5	5.3	5.3
Lafayette .....	63.4	66.3	67.1	3.1	2.4	2.5	4.8	3.7	3.7
Lake Charles .....	65.9	65.4	66.4	5.3	3.7	3.7	8.1	5.6	5.5
Monroe .....	52.0	53.0	53.0	3.5	3.4	3.2	6.8	6.5	5.9
New Orleans .....	465.6	464.6	465.7	31.7	23.3	23.9	6.8	5.0	5.1
Shreveport .....	147.3	148.8	148.5	9.5	7.9	7.2	6.5	5.3	4.8
<b>MAINE</b> .....	461.8	476.2	477.4	29.7	35.7	32.7	6.4	7.5	6.9
Lewiston—Auburn .....	36.2	37.8	37.9	1.8	2.5	2.4	5.0	6.7	6.4
Portland .....	81.6	85.8	84.9	4.0	4.7	4.2	4.9	5.4	5.0
<b>MARYLAND</b> .....	2,015.8	2,055.8	2,068.7	113.2	125.0	111.5	5.6	6.1	5.4
Baltimore .....	1,026.6	1,042.3	1,045.9	62.6	66.4	60.3	6.1	6.4	5.8
<b>MASSACHUSETTS</b> <sup>2</sup> .....	2,789.3	2,913.8	2,883.1	159.4	194.1	152.3	5.7	6.7	5.3
Boston .....	1,346.4	1,408.3	1,390.2	75.2	86.4	69.3	5.6	6.1	5.0
Brockton .....	79.3	85.4	85.6	4.7	5.7	4.7	5.9	6.7	5.5
Fall River <sup>1</sup> .....	77.5	82.8	82.0	5.4	7.1	5.1	6.9	8.6	6.2
Lawrence—Haverhill <sup>1</sup> .....	138.1	143.9	140.9	7.9	10.7	7.7	5.7	7.4	5.5
Lowell .....	109.9	116.2	115.3	6.5	7.4	6.1	5.9	6.4	5.3
New Bedford .....	81.4	85.6	83.8	6.2	8.2	6.5	7.6	9.5	7.7
Springfield—Chicopee—Holyoke .....	270.7	281.3	280.5	13.4	17.2	12.5	5.0	6.1	4.4
Worcester .....	195.6	202.0	201.8	9.1	10.5	9.2	4.7	5.2	4.6
<b>MICHIGAN</b> <sup>2</sup> .....	4,166.8	4,289.9	4,253.7	274.8	341.2	365.7	6.6	8.0	8.6
Ann Arbor .....	134.7	142.8	142.6	6.6	7.9	8.1	4.9	5.5	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					
	APR. 1978	MAR. 1979	APR. 1979P	Number			Percent of labor force		
				APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>MICHIGAN—Continued</b>									
Battle Creek .....	81.7	83.5	81.1	5.2	5.8	5.8	6.4	6.9	7.1
Bay City .....	53.0	54.9	52.3	3.2	4.2	4.1	6.0	7.6	7.9
Detroit .....	1,989.9	2,037.8	2,025.8	122.3	157.2	176.8	6.1	7.7	8.7
Flint .....	221.7	232.0	222.9	15.4	17.4	18.9	6.9	7.5	8.5
Grand Rapids .....	285.9	294.3	295.0	13.4	16.3	17.5	4.7	5.5	5.9
Jackson .....	64.2	68.3	68.3	3.5	4.9	5.6	5.5	7.2	8.3
Kalamazoo—Portage .....	131.1	134.3	130.1	6.7	8.2	8.3	5.1	6.1	6.4
Lansing—East Lansing .....	226.5	233.8	231.7	13.5	14.9	15.1	6.0	6.4	6.5
Muskegon—Norton Shores—Muskegon Heights .....	75.5	78.1	76.1	6.1	7.4	7.6	8.0	9.5	10.0
Saginaw .....	102.8	108.4	103.0	5.4	7.3	7.2	5.3	6.7	7.0
<b>MINNESOTA</b> .....	1,948.0	N.A.	N.A.	75.4	N.A.	N.A.	3.9	N.A.	N.A.
Duluth—Superior <sup>1</sup> .....	113.5	N.A.	N.A.	6.8	N.A.	N.A.	6.0	N.A.	N.A.
Minneapolis—St. Paul .....	1,029.7	N.A.	N.A.	29.8	N.A.	N.A.	2.9	N.A.	N.A.
<b>MISSISSIPPI</b> .....	950.7	980.9	975.6	62.0	60.9	53.7	6.5	6.2	5.5
Jackson .....	137.3	144.5	144.3	6.9	5.5	4.7	5.0	3.8	3.2
<b>MISSOURI</b> .....	2,245.8	2,284.8	2,300.1	105.6	96.8	86.6	4.7	4.2	3.8
Kansas City <sup>1</sup> .....	683.5	693.3	691.8	26.1	24.6	24.7	3.8	3.6	3.6
St. Joseph .....	45.3	44.3	43.8	2.3	2.1	2.0	5.1	4.7	4.6
St. Louis <sup>1</sup> .....	1,078.5	1,093.7	1,081.4	55.3	52.8	47.4	5.1	4.8	4.4
Springfield .....	101.0	104.1	103.4	4.0	3.5	3.1	3.9	3.4	3.0
<b>MONTANA</b> .....	365.9	366.1	376.1	21.4	19.8	18.9	5.9	5.4	5.0
Billings .....	53.8	53.3	53.1	2.3	2.1	1.9	4.3	3.9	3.6
Great Falls .....	34.5	34.9	35.2	2.0	2.1	2.0	5.8	6.1	5.7
<b>NEBRASKA</b> .....	767.5	752.8	760.6	19.0	19.9	18.6	2.5	2.6	2.4
Lincoln .....	107.1	111.5	109.9	2.3	2.3	2.2	2.1	2.0	2.0
Omaha <sup>1</sup> .....	276.3	273.7	272.7	9.4	9.8	9.7	3.4	3.6	3.5
<b>NEVADA</b> .....	321.9	336.4	339.5	14.3	17.7	17.5	4.4	5.3	5.1
Las Vegas .....	173.4	180.4	181.3	8.8	10.0	10.0	5.1	5.5	5.5
Reno .....	92.6	99.3	100.5	2.9	3.7	3.8	3.2	3.7	3.7
<b>NEW HAMPSHIRE</b> .....	414.5	424.8	434.0	13.6	14.1	15.4	3.3	3.3	3.6
Manchester .....	79.8	78.6	80.9	2.6	2.8	2.8	3.3	3.6	3.4
Nashua .....	55.5	56.2	58.2	1.7	1.6	1.8	3.1	2.8	3.1
<b>NEW JERSEY</b> .....	3,297.7	3,500.1	3,425.3	237.3	250.8	193.9	7.2	7.2	5.7
Atlantic City .....	78.5	84.9	84.3	8.6	9.8	6.8	10.9	11.5	8.1
Jersey City .....	246.3	251.0	242.2	27.8	25.6	20.8	11.3	10.2	8.6
Long Branch—Asbury Park .....	213.3	218.8	215.2	14.8	16.9	12.9	6.9	7.7	6.0
Newark .....	922.6	965.6	940.8	60.7	63.2	48.9	6.6	6.5	5.2
New Brunswick—Perth Amboy—Sayreville .....	301.3	322.3	315.5	19.7	18.5	14.5	6.5	5.7	4.6
Paterson—Clifton—Passaic .....	206.7	219.4	213.8	17.9	20.4	15.9	8.7	9.3	7.4
Trenton .....	153.8	161.8	159.4	7.8	8.8	7.4	5.1	5.4	4.6
Vineland—Millville—Bridgeton .....	58.8	60.4	59.6	5.5	5.3	4.6	9.3	8.7	7.8
<b>NEW MEXICO</b> .....	515.6	521.6	522.1	28.0	32.1	30.0	5.4	6.2	5.8
Albuquerque .....	194.6	196.3	196.1	10.0	11.3	10.8	5.2	5.7	5.5
<b>NEW YORK</b> <sup>2</sup> .....	7,794.2	8,010.7	7,942.8	582.2	617.8	533.2	7.5	7.7	6.7
Albany—Schenectady—Troy .....	365.8	377.5	371.1	21.8	23.6	19.7	5.9	6.2	5.3
Binghamton <sup>1</sup> .....	134.4	142.9	140.4	8.5	8.8	6.7	6.4	6.1	4.8
Buffalo .....	557.7	582.5	573.1	44.3	44.4	37.9	7.9	7.6	6.6
Elmira .....	38.9	41.0	40.0	2.7	2.7	2.2	7.0	6.7	5.5
Nassau—Suffolk .....	1,221.0	1,276.1	1,264.3	79.0	80.4	70.1	6.5	6.3	5.5
New York .....	3,646.8	3,678.6	3,665.0	299.7	313.9	278.3	7.9	8.5	7.6
New York City <sup>2</sup> .....	3,076.0	3,083.0	3,079.0	257.0	282.0	252.0	8.4	9.1	8.2
Poughkeepsie .....	100.4	106.0	104.8	5.1	5.1	4.2	5.0	4.9	4.0
Rochester .....	448.6	470.8	465.4	27.4	26.7	21.8	6.1	5.7	4.7
Syracuse .....	293.0	304.1	301.7	19.7	20.7	17.1	6.7	6.8	5.7
Utica—Rome .....	133.3	139.0	136.9	9.9	10.1	8.4	7.4	7.3	6.2
<b>NORTH CAROLINA</b> .....	2,659.1	2,685.3	2,697.0	118.4	129.1	124.5	4.5	4.8	4.6
Asheville .....	81.0	81.9	81.9	3.2	4.2	4.6	3.9	5.1	5.6
Charlotte—Gastonia .....	330.3	334.4	332.6	9.5	10.6	10.0	2.9	3.2	3.0

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>NORTH CAROLINA—Continued</b>									
Greensboro—Winston-Salem—High Point .....	414.5	417.8	418.1	15.0	15.8	16.1	3.6	3.8	3.8
Raleigh—Durham .....	272.0	277.8	278.4	7.6	8.1	7.4	2.8	2.9	2.7
<b>NORTH DAKOTA</b> .....	290.5	294.9	299.3	14.2	14.8	13.8	4.9	5.0	4.6
Fargo—Moorehead <sup>1</sup> .....	69.3	N.A.	N.A.	2.5	N.A.	N.A.	3.6	N.A.	N.A.
<b>OHIO<sup>2</sup></b> .....	4,801.9	5,005.6	4,962.8	270.4	301.6	275.3	5.6	6.0	5.5
Akron .....	291.0	300.7	298.0	17.7	19.7	18.0	6.1	6.6	6.1
Canton .....	172.4	180.3	179.0	10.0	11.2	9.3	5.8	6.2	5.2
Cincinnati <sup>1</sup> .....	627.8	652.8	651.1	29.7	34.6	30.1	4.7	5.3	4.6
Cleveland .....	898.1	932.1	926.2	44.8	47.2	44.7	5.0	5.1	4.8
Columbus .....	515.4	539.1	535.8	25.0	28.5	25.5	4.8	5.3	4.8
Dayton .....	368.8	388.3	384.8	17.8	21.4	24.0	4.8	5.5	6.2
Toledo <sup>1</sup> .....	354.1	370.6	364.6	23.5	27.2	24.8	6.6	7.3	6.8
Youngstown—Warren .....	230.9	234.9	233.9	20.4	16.2	14.9	8.8	6.9	6.4
<b>OKLAHOMA</b> .....	1,248.6	1,271.9	1,278.5	46.2	45.4	45.2	3.7	3.6	3.5
Oklahoma City .....	373.0	390.0	393.6	11.6	12.1	12.5	3.1	3.1	3.2
Tulsa .....	297.2	300.7	300.7	10.8	10.1	10.2	3.6	3.4	3.4
<b>OREGON</b> .....	1,179.2	1,196.7	1,185.8	73.9	89.2	84.3	6.3	7.5	7.1
Eugene—Springfield .....	123.7	127.0	125.6	8.7	10.9	10.6	7.0	8.6	8.5
Portland <sup>1</sup> .....	569.0	N.A.	N.A.	30.4	N.A.	N.A.	5.3	N.A.	N.A.
Salem .....	110.5	112.1	111.1	7.0	8.3	8.0	6.3	7.4	7.2
<b>PENNSYLVANIA<sup>2</sup></b> .....	5,197.8	5,276.7	5,185.5	357.9	411.6	319.9	6.9	7.8	6.2
Allentown—Bethlehem—Easton <sup>1</sup> .....	288.3	297.7	290.8	16.9	21.1	15.6	5.9	7.1	5.4
Altoona .....	55.4	57.7	56.2	4.2	6.0	4.6	7.6	10.4	8.1
Erie .....	121.2	126.0	124.1	8.4	10.6	8.3	7.0	8.4	6.6
Harrisburg .....	211.3	215.2	211.7	10.2	12.1	9.0	4.8	5.6	4.2
Johnstown .....	105.4	107.6	105.5	11.2	11.0	8.2	10.6	10.2	7.8
Lancaster .....	169.2	173.9	172.7	7.8	8.6	6.9	4.6	4.9	4.0
Northeast Pennsylvania .....	275.1	283.1	276.1	22.8	27.3	20.9	8.3	9.7	7.6
Philadelphia <sup>1</sup> .....	2,056.8	2,108.7	2,074.6	148.5	163.8	131.6	7.2	7.8	6.3
Pittsburgh .....	978.8	998.8	980.7	58.8	66.6	52.6	6.0	6.7	5.4
Reading .....	144.3	152.0	149.8	8.6	8.9	6.9	5.9	5.9	4.6
Williamsport .....	51.5	54.8	53.7	4.2	5.7	4.1	8.1	10.5	7.6
York .....	163.1	168.5	165.8	8.2	8.9	6.5	5.0	5.3	3.9
<b>RHODE ISLAND</b> .....	430.7	436.7	441.8	28.7	32.4	31.1	6.7	7.4	7.0
Providence—Warwick—Pawtucket <sup>1</sup> .....	435.3	442.3	444.5	28.3	32.4	30.9	6.5	7.3	6.9
<b>SOUTH CAROLINA</b> .....	1,293.0	1,286.3	1,294.1	71.2	69.1	67.2	5.5	5.4	5.2
Charleston—North Charleston .....	149.2	152.4	152.7	8.6	8.4	8.2	5.8	5.5	5.4
Columbia .....	178.4	171.6	172.4	7.2	6.4	6.5	4.2	3.7	3.8
Greenville—Spartanburg .....	255.3	256.2	257.3	12.2	11.0	10.7	4.8	4.3	4.2
<b>SOUTH DAKOTA</b> .....	321.5	332.8	340.0	8.7	12.5	12.6	2.7	3.7	3.7
Sioux Falls .....	59.0	63.3	63.2	1.3	2.1	2.1	2.3	3.4	3.4
<b>TENNESSEE</b> .....	1,913.0	1,925.7	1,931.7	100.5	100.8	89.7	5.3	5.2	4.6
Chattanooga <sup>1</sup> .....	184.7	186.5	186.5	9.3	9.5	10.1	5.0	5.1	5.4
Knoxville .....	198.4	206.5	212.3	8.2	8.3	7.1	4.2	4.0	3.3
Memphis <sup>1</sup> .....	372.0	372.0	371.9	18.9	16.7	15.5	5.1	4.5	4.2
Nashville—Davidson .....	394.4	399.3	399.0	16.9	14.0	13.8	4.3	3.5	3.5
<b>TEXAS<sup>2</sup></b> .....	5,904.0	6,119.0	6,083.3	229.5	230.5	238.6	3.9	3.8	3.9
Amarillo .....	83.3	86.8	86.1	2.3	2.5	2.7	2.7	2.9	3.1
Austin .....	232.0	246.4	243.5	5.9	6.1	6.2	2.6	2.5	2.5
Beaumont—Port Arthur—Orange .....	165.4	164.2	162.8	10.6	9.6	9.9	6.4	5.8	6.1
Corpus Christi .....	130.6	132.0	131.4	6.1	5.5	5.6	4.7	4.2	4.3
Dallas—Fort Worth .....	1,367.9	1,444.9	1,440.6	45.3	43.5	46.7	3.3	3.0	3.2
El Paso .....	161.8	170.0	167.6	12.6	12.6	12.7	7.8	7.4	7.6
Galveston—Texas City .....	79.7	82.8	81.6	4.4	4.0	4.0	5.5	4.8	4.9
Houston .....	1,318.9	1,381.6	1,372.6	41.2	39.5	42.3	3.1	2.9	3.1
Lubbock .....	99.9	103.5	102.2	2.8	3.2	3.2	2.8	3.1	3.2
San Antonio .....	396.1	405.9	403.6	19.9	20.5	21.1	5.0	5.0	5.2
Waco .....	74.7	77.2	77.1	3.0	2.6	3.0	4.0	3.4	3.8
Wichita Falls .....	58.4	59.5	59.0	1.8	1.7	1.9	3.0	2.9	3.2

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P	APR. 1978	MAR. 1979	APR. 1979P
<b>UTAH</b> .....	527.4	559.7	565.2	19.2	21.4	19.0	3.6	3.8	3.4
Salt Lake City—Ogden .....	348.3	367.4	373.1	12.6	13.5	12.5	3.6	3.7	3.3
<b>VERMONT</b> .....	232.6	239.7	238.2	15.6	15.2	15.3	6.7	6.3	6.4
<b>VIRGINIA</b> .....	2,375.8	2,426.6	2,432.8	118.8	133.4	110.3	5.0	5.5	4.5
Lynchburg .....	70.9	73.5	73.6	3.3	3.4	2.4	4.6	4.6	3.3
Newport News—Hampton .....	151.9	156.8	157.7	8.6	9.6	8.0	5.7	6.1	5.1
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	310.0	314.1	314.9	17.5	19.4	16.9	5.6	6.2	5.4
Petersburg—Colonial Heights—Hopewell .....	58.8	60.0	60.4	3.2	3.5	3.0	5.5	5.9	5.0
Richmond .....	308.1	316.9	317.1	10.6	12.1	9.9	3.5	3.8	3.1
Roanoke .....	109.3	108.5	108.1	6.2	5.9	4.5	5.7	5.4	4.2
<b>WASHINGTON</b> .....	1,723.2	1,774.3	1,795.2	122.0	137.8	132.4	7.1	7.8	7.4
Seattle—Everett .....	736.8	N.A.	N.A.	43.0	N.A.	N.A.	5.8	N.A.	N.A.
Spokane .....	140.0	N.A.	N.A.	8.5	N.A.	N.A.	6.1	N.A.	N.A.
Tacoma .....	163.6	N.A.	N.A.	12.9	N.A.	N.A.	7.9	N.A.	N.A.
<b>WEST VIRGINIA</b> .....	714.0	728.4	723.5	36.9	52.1	47.8	5.2	7.1	6.6
Charleston .....	115.5	118.7	117.0	4.0	5.1	4.5	3.5	4.3	3.8
Huntington—Ashland <sup>1</sup> .....	115.9	116.8	115.5	5.7	6.6	5.4	4.9	5.6	4.7
Parkersburg—Marietta <sup>1</sup> .....	64.7	68.9	67.9	2.8	3.9	3.4	4.3	5.7	5.0
Wheeling <sup>1</sup> .....	76.0	78.9	77.7	4.1	4.8	4.2	5.4	6.1	5.4
<b>WISCONSIN</b> .....	2,257.9	2,318.9	2,333.2	117.6	107.4	100.7	5.2	4.6	4.3
Appleton—Oshkosh .....	140.3	N.A.	147.1	7.1	N.A.	5.5	5.0	N.A.	3.8
Eau Claire .....	50.9	N.A.	55.1	3.4	N.A.	2.9	6.6	N.A.	5.3
Green Bay .....	85.6	N.A.	86.9	5.7	N.A.	4.9	6.6	N.A.	5.6
Kenosha .....	57.3	N.A.	58.2	4.8	N.A.	2.6	8.4	N.A.	4.4
La Crosse .....	44.3	N.A.	45.7	2.2	N.A.	2.3	5.0	N.A.	4.9
Madison .....	171.8	N.A.	176.1	6.9	N.A.	6.2	4.0	N.A.	3.5
Milwaukee .....	693.4	N.A.	721.2	30.2	N.A.	26.3	4.4	N.A.	3.6
Racine .....	87.3	N.A.	88.7	4.4	N.A.	3.6	5.1	N.A.	4.1
<b>WYOMING</b> .....	190.2	204.1	210.2	6.3	6.2	5.9	3.3	3.0	2.8

<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.)

NOTE: Estimates for 1978 have been benchmarked to 1978 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1979 are pro-

visional and will be revised when new benchmark information becomes available. Data refer to place of residence.

p=preliminary.

N.A.=not available.

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

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the National Technical Information Service. When ordering, please specify "CETA Area Employment and Unemployment," "State, County, and Selected City Employment and Unemployment," and "Unemployment Rates for State and Local Governments." A complete set of price schedules and publications is available from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield Virginia, 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 patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in 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 AND COVERAGE

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

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

Inmates of institutions, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumerations and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are included as part of the categories "total noninstitutional population" and "total labor force," are 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 identified themselves in the enumeration process to be other than white. At the time of the 1970 Census of Population, 89 percent of the black and other population group were black; the remainder were American Indians, Alaskan Natives, Asian and Pacific Islanders, and all other "non-white" 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*.

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than determined by the interviewer as before. The purpose of this change is to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households has race determined by the household respondent and seven-eighths of the sample households has race determined by interviewer observation. The corresponding numbers are 2/8 and 6/8 in November 1978, 3/8 and 5/8 in December 1978, 4/8 and 4/8 from January 1979 through September 1979, 5/8 and 3/8 in October 1979, and so on, until the entire sample has race determined by the household respondent in January 1980. Although the impact of this change is presently unknown, it is possible that it will cause a break in the time series given for some racial statistics.

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

#### Changes in 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. A 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

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.

average estimates for States, was incorporated with the existing design. A coverage improvement sample was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. This sample is composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units. These new construction units are composed of those units where building permits were issued prior to January 1970 and construction was not completed by the time of the 1970 Census (i.e., April 1970). The extent of other sources of housing undercoverage is unknown but believed to be small. The inclusion of this coverage improvement sample in the CPS does not have a significant effect on the estimates.

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.

#### 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, 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 portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South and West), and secondly, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by

metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

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

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

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

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

#### Rounding of estimates

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals

and components to the nearest thousand. Differences, however, are insignificant.

#### Reliability of the estimates

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

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

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

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

Additional information on nonsampling error in the CPS appear in An Error Profile: *Employment as Measured by the Current Population Survey*, by Camilla Brooks and Barbara Bailar, Statistical Policy Working Paper 3, U.S. Department of Commerce, Office of Federal Statistical Policy and Standards; in the paper "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, 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.** The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The sample estimate and its estimated standard error enables one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from each sample, then:

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

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in this report reflect the sample design and estimation 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 for nonconsecutive months are subject to higher standard errors. Table I contains factors for use with tables C, E, G and H to compute approximate standard errors, as described below, for levels, labor force participation rates and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note, that standard errors for changes in quarterly end yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

Table A. Standard errors of major employment status categories

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
(In thousands)		
Total, 16 years and over:		
Civilian labor force . . . . .	223	171
Employed . . . . .	236	180
Unemployed . . . . .	107	111
Males, 20 years and over:		
Civilian labor force . . . . .	124	107
Employed . . . . .	135	118
Unemployed . . . . .	68	71
Females, 20 years and over:		
Civilian labor force . . . . .	168	129
Employed . . . . .	167	131
Unemployed . . . . .	64	67
Both sexes, 16-19 years:		
Civilian labor force . . . . .	80	85
Employed . . . . .	84	94
Unemployed . . . . .	56	69
Black and other, 16 years and over:		
Civilian labor force . . . . .	78	60
Employed . . . . .	85	65
Unemployed . . . . .	54	57
Males, 20 years and over:		
Civilian labor force . . . . .	44	38
Employed . . . . .	49	43
Unemployed . . . . .	33	35
Females, 20 years and over:		
Civilian labor force . . . . .	62	48
Employed . . . . .	62	49
Unemployed . . . . .	34	36
Both sexes, 16-19 years:		
Civilian labor force . . . . .	33	37
Employed . . . . .	30	35
Unemployed . . . . .	29	32

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

**Illustration.** Assume that the tables showed that the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate of 12,000,000 is about 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 58 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

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

Tables E and F 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.

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

**Illustration.** For an example, suppose that one is interested in the year-to-year change of a monthly unemployment rate. Let us assume that the tables show that for a certain month the unemployment rate is 6.9 percent based on a total of 95,876,000 in the civilian labor force, and that a year prior to this the unemployment rate was 6.1 percent based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table E (0.11 percent). The appropriate factor then from table I is 1.40. The approximate standard error on the change of 0.8 percent is then given by  $0.11 \times 1.40 = 0.15$  percent.

**Table B. Standard errors of unemployment rates for major characteristics**

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

**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	1.08
Males only .....	.93	.84	Both sexes, 16-19 years .....	.97	1.21
Females only .....	.86	.75	Black and other:		
Both sexes, 16-19 years .....	1.00	1.18	Total .....	1.04	1.13
Part-time labor force .....	1.00	1.18	Both sexes, 16-19 years .....	1.04	1.24



**Table 1. Factors to be used with Tables C, E, G, H to compute the approximate standard errors of level, rates and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages and change in yearly averages**

Type of characteristic	Factors				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
<b>Agricultural employment:</b>					
Total or male .....	1.30	.89	.80	.72	.70
Female or teenagers (16-19 years) .....	1.30	.83	.80	.58	.70
Part time .....	1.40	.74	.80	.46	.70
<b>Labor force data other than agricultural employment data and unemployment data:</b>					
Total or white .....	1.30	.88	.88	.67	.70
Black and other or teenagers (16-19 years) .....	1.30	.82	.88	.57	.70
Part time .....	1.40	.74	.88	.46	.60
<b>Unemployment:</b>					
Total .....	1.40	.76	.88	.50	.65
Part time .....	1.40	.69	.88	.39	.54

# Establishment data

## (B, C, and D tables)

### COLLECTION

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

#### Federal-State cooperation

Under cooperative arrangements 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 (Washington Office) for use in preparing the national series.

#### Shuttle schedules

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

Form BLS 790 provides for entry of data on the 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 principal product or activity.

All data on employment, hours, earnings, and labor turnover for the Nation and for most States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget.

#### Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

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

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday or paid vacation, or who work during a part of the pay period even though they are unemployed or on strike during the rest of the period are counted as employed. Not counted as employed are persons who are 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 construction, and nonsupervisory employees in the remaining private nonagricultural 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 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 other employees at similar occupational levels whose services are closely associated with those of the employees listed.

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

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

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

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

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

Averages of hourly earnings differ from wage rates. Earnings are the actual return to the worker for a stated period of time; rates are the amount stipulated for a given unit of work or time. The earnings series 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 reasons, labor turnover during the survey period, and absenteeism for which employees are not paid may cause the average workweek to fluctuate.

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

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

**Average overtime hours.** The overtime hours represent that portion of the gross average weekly hours which exceeded regular hours and for which overtime premiums were paid. If an employee were to work on a paid holiday at regular rates, receiving as total compensation his 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 services 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.

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

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

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

Since part-time as well as full-time workers are included, and since the proportion of part-time workers has been rising, the series understates the increase in earnings for full-time workers. As noted, "fringe benefits" are not included in the earnings. For a more complete discussion of the uses and limitations of these series, see the article by Paul M. Schwab, "Two 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 are deflated by the unrevised CPI-W, whereas those for January 1978 forward are deflated by the revised CPI-W. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in the purchasing power of the dollar since the base period (1967).

**Average hourly earnings excluding overtime.** Average hourly earnings excluding overtime premium pay are computed by dividing the total production-worker payroll for the industry group by the sum of total production-worker hours and one-half of total overtime hours. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-540). 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 (if counted as new hires previously), and unauthorized absences, if on the last day of the month the person has been absent more than 7 consecutive calendar days.

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

*Other separations*, which are not published separately but are included in total separations, are terminations of employment because of discharge, permanent disability, death, retirement, 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 J. Summary of methods for

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

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
<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. <sup>1</sup>	Sum of all-employee estimates for component cells.
Production or nonsupervisory workers, women employees .....	All-employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) estimated ratio of women to all employees. <sup>2</sup>	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. <sup>2</sup>	Average, weighted by production- or nonsupervisory-worker employment, of the average weekly hours for component cells.
Average weekly overtime hours .....	Production-worker overtime hours divided by number of production workers. <sup>2</sup>	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. <sup>2</sup>	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, women employees, and production or nonsupervisory workers .....	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Gross average weekly hours .....	Annual total of aggregate hours (production- or nonsupervisory-worker employment multiplied by average weekly hours) divided by annual sum of employment.	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours .....	Annual total of aggregate overtime hours (production-worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers.

See footnotes at end of table.

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

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

<sup>1</sup> The estimates result from multiplying the product shown by business birth adjustment factors to compensate for the under representation of newly formed enterprises in the sample.

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

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

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 1977 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 for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted at levels between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1977 benchmark adjustment is shown in table K.

**Table K. Comparison of nonagricultural employment benchmarks based on 1972 SIC and estimates based on 1967 SIC for 1977**

Industry division	Benchmark (1972 SIC) March 1977	Estimate (1967 SIC) March 1977	Percent difference
Total . . . . .	80,493	80,547	-0.1
Mining . . . . .	805	827	-2.7
Construction . . . . .	3,430	3,451	-.6
Manufacturing . . . . .	19,253	19,183	.4
Transportation and public utilities . . . . .	4,603	4,522	1.8
Wholesale and retail trade . . . . .	17,891	17,799	.5
Finance, insurance, and real estate . . . . .	4,377	4,422	-1.0
Services . . . . .	14,935	15,028	-.6
Government . . . . .	15,199	15,315	-.8

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. To provide users of the data with a convenient reference source for the revised data, 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. 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 design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuations from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

In the context of the BLS employment and labor turnover statistics programs, with their emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after 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 L shows the approximate proportion of total employment in each industry division covered by the group of establishments furnishing monthly employment data. The coverage for individual industries within the division may vary from the proportions shown. Table M shows the approximate coverage, in terms of employment, of the labor turnover sample.

#### Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a "link relative" technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table N presents the average percent revisions (based on the 1967 SIC) of the

**Table L. Approximate size and coverage of BLS employment and payrolls sample, March 1977<sup>1</sup>**

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total .....	164,300	32,152,000	40
Mining .....	2,100	313,000	39
Construction .....	16,300	686,000	20
Manufacturing .....	47,100	11,166,000	58
Transportation and public utilities:			
Railroad transportation (ICC) .....	77	508,000	95
Other transportation and public utilities ..	7,400	2,208,000	53
Wholesale and retail trade .....	40,600	3,242,000	18
Finance, insurance, and real estate .....	10,600	1,583,000	36
Services .....	24,300	2,896,000	19
Government:			
Federal (Civil Service Commission) <sup>2</sup> .....	3,700	2,714,000	100
State and local .....	12,100	6,836,000	55

<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 3,700 reports covering about 55 percent of employment in Federal establishments.

**Table M. Approximate size and coverage of BLS labor turnover sample, March 1977**

Industry	Employees	
	Number reported	Percent of total
Total .....	10,070,140	49
Manufacturing .....	9,233,370	48
Mining .....	136,810	41
Telephone communication....	699,960	72

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 (based on the 1967 SIC) for major industries are presented in table N and for individual industries with the specified number of employees in table O. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error

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

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

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

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

Approximations of the root-mean-square errors (based on the experience of the last 6 years and the 1967 SIC) of differences between final estimates and benchmarks are presented in table O.

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table P presents root-mean-square errors of the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are

**Table N. Average benchmark percent revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry division<sup>1</sup>**

[In percent]

Industry division	Average benchmark revision in estimates of employment <sup>2</sup>	Relative errors <sup>3</sup> (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>4</sup>	.6	—	—

<sup>1</sup> Based on 1967 SIC.

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

<sup>3</sup> Relative errors relate to March 1971 data.

<sup>4</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.

normally not greater than .1 of an hour for weekly hours and 1 cent for hourly earnings.

**Table O. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings<sup>1</sup>**

Size of employment estimate	Root-mean-square error of employment estimates <sup>2</sup>	Relative errors <sup>3</sup> (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> Based on 1967 SIC.

<sup>2</sup> Assuming 12-month intervals between benchmark revisions.

<sup>3</sup> Relative errors relate to March 1971 data.

**Table P. Errors of preliminary employment estimates<sup>1</sup>**

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

<sup>1</sup> Based on 1967 SIC.

## STATISTICS FOR STATES AND AREAS

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



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

#### PRODUCTIVITY DATA

Tables C-10, C-11, and C-12 are compiled by the Bureau of Labor Statistics from establishment data and from estimates of 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* include corporate profits and inventory valuation adjustments per unit of output.

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

#### Notes on the data

For the private business sector and the nonfarm business sector, these indexes relate to the Gross Domestic Product less 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.

## State and area unemployment data

(E table)

#### FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which are derived from standardized procedures developed by BLS are the basis for determining eligibility of an area for benefits under Federal programs such as the Comprehensive Employment and Training Act, the Public 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 experienced labor force. For each month, the estimate of entrants into the labor force is a function of: (a) the month of the year; (b) the level of the experienced unemployed; (c) the level of the experienced labor force; and (d) proportion of the working age population that is considered "youth." The composite estimate of total entrants is defined as:

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

U=total entrant unemployment

E=total employment

X=total experienced unemployment

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

**3. Correction factors for employment and unemployment** are then applied at the State level to the UI-based estimates obtained above for each of the 40 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for the 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 programs used for these series are an adaptation of the standard ratio-to-moving average method. They provide for "moving" adjustment factors to take account of changing seasonal patterns. A detailed description of the methods is given in the two publications, *BLS Seasonal Factor Method (1966)* and *X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

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. In January 1978, modifications were introduced in the procedure for seasonally adjusting teenage nonagricultural employment, a number of other teenage employment series, and adult male unemployment.

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 1978, 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 1979 *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, women 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 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 goods-producing, total private service-producing, trade, manufacturing, and durable and nondurable goods industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1967 base.

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

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

The revised seasonally adjusted series for the establishment data reflect experience through May 1978. Seasonal factors to be used for current adjustment appear in the October 1978 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.

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