

Employment and Earnings

August 1979



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U.S. DEPARTMENT OF LABOR Ray Marshall, Secretary

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Calendar of Features

In addition to the monthly data appearing regularly in *Employment and Earnings* special features appear in most of the issues as shown below:

Household data

Annual averages	Jan.
Revised seasonally adjusted series	Feb.
Quarterly averages: Seasonally adjusted data, persons not in labor force, persons of Hispanic origin, Vietnam-Era veterans and nonveterans, poverty-nonpoverty area data, family relationship data.	Jan., Apr., July, Oct.

Establishment data

National annual averages:	
Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employment detail (final)	Mar.
National data adjusted to new benchmarks	Oct. ¹
Revised seasonally adjusted series	Oct. ²
State and area annual averages	May
Area definitions	May

¹ The issue that introduces new benchmark varies. The October 1978 issue marks the introduction of March 1977 benchmarks and conversion to the 1972 SIC.

² Revised data introduced October 1978.

Employment and Earnings

Vol. 26 No. 8 August 1979

Editors: Chester L. Green, Gloria P. Green

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Employment and Unemployment Developments, July 1979

Total employment rose in July and unemployment was virtually unchanged. The Nation's overall unemployment rate was 5.7 percent, little different from the June rate of 5.6 percent and similar to those which have prevailed since August 1978.

Total employment—as measured by the monthly survey of households—rose by 450,000 to 97.2 million. In contrast, nonfarm payroll employment—as measured by the monthly survey of establishments—was about unchanged over the month at 88.8 million. Over the past year and also since March, however, the two surveys have registered comparable net growth in nonagricultural employment.

Unemployment

Both the unemployment rate, 5.7 percent, and the number of unemployed, 5.8 million, were about the same as in June, and have remained near these levels since last August. An increase in the rate of joblessness for adult men (to 4.1 percent) was about offset by a slight decrease in the rate for adult women (to 5.5 percent). Married women and women who head families both experienced slight declines in their unemployment rate, while the rate for married men increased. The jobless rate for teenagers, which had declined 1½ percentage points in June to 15.3 percent, was unchanged in July. The overall unemployment situation for both blacks and whites was about unchanged from June. (See tables A-33 and A-36.)

Among the unemployed, the number who had lost their last job rose by 175,000 in July, while those seeking their first job declined by over 90,000. The median duration of unemployment edged up above 6 weeks, as increases were registered in the number of persons unemployed between 5 and 14 weeks. (See tables A-37 and A-39.)

Total employment and the labor force

Total employment in July advanced by 450,000 to 97.2 million. This increase, coupled with gains in May and June, raised the number of employed persons 370,000 above the March level. The

employment-population ratio returned to its February-March record level of 59.4 percent.

The entire July increase in employment took place among adult women, as both white and black women posted strong gains. Adult males of both races had about the same employment levels as they had in June; teenage employment was also about unchanged.

The civilian labor force grew by 530,000 over the month to 103.1 million, 2.4 million above its year-earlier level. Most of this labor force growth occurred before March. At 63.8 percent, the civilian labor force participation rate was a half point above a year earlier. Adult women accounted for most of the over-the-year increase in labor force participation; their participation rate in July was a record 50.7 percent. (See table A-33.)

Industry payroll employment

Nonfarm payroll employment was essentially unchanged in July at 88.8 million, following moderate growth over the prior 3 months; this was in marked contrast to the sharp job increases which occurred in the 6-month period around the turn of the year. In July, job gains took place in 51 percent of the 172 industries comprising the BLS diffusion index of nonfarm payroll employment. (See tables B-4 and B-7.)

Employment in the goods-producing sector was unchanged from June, as gains in mining and construction (including nearly 10,000 returning strikers) were offset by a reduction in manufacturing. The largest manufacturing declines occurred in nondurable goods, with reductions of 35,000 in food processing and 20,000 in leather. Within the durable goods industries, decreases of 15,000 each took place in the fabricated metal and miscellaneous manufacturing industries, and there was a 10,000 cutback in primary metals. Total factory employment has dropped by about 130,000 since March.

Employment in the service-producing sector was little changed over the month. Small job gains were evident in the services industry and in finance, insurance, and real estate, while the other service-producing industries remained at about June levels.

Hours

The average workweek of production or non-supervisory workers on private nonagricultural payrolls was 35.7 hours in July, unchanged from both June and May. Manufacturing hours edged up a tenth of an hour over the month, a return to the May level. Factory overtime, at 3.3 hours, was unchanged from June. All three of these indicators were still below March levels. (See table C-7.)

Reflecting the leveling in both employment and weekly hours over the month, the index of aggregate weekly hours was unchanged in July. The index was up 2.9 percent from July 1978, resulting entirely from the strong over-the-year employment growth. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or non-supervisory workers on private nonagricultural payrolls rose 0.7 percent in July and were 8.1 per-

cent above the July 1978 level (seasonally adjusted). Average weekly earnings also rose 0.7 percent in July and were up 7.5 percent over the year.

Before adjustment for seasonality, average hourly earnings rose 4 cents in July to \$6.15, 46 cents above July 1978; average weekly earnings were \$221.40 in July, \$1.44 above June and \$14.85 above July 1978. (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 230.3 (1967 = 100) in July, 0.7 percent higher than in June. The index was 7.6 percent above July a year ago. During the 12-month period ended in June, the Hourly Earnings Index in dollars of constant purchasing power declined 3.0 percent. (See table C-9.)

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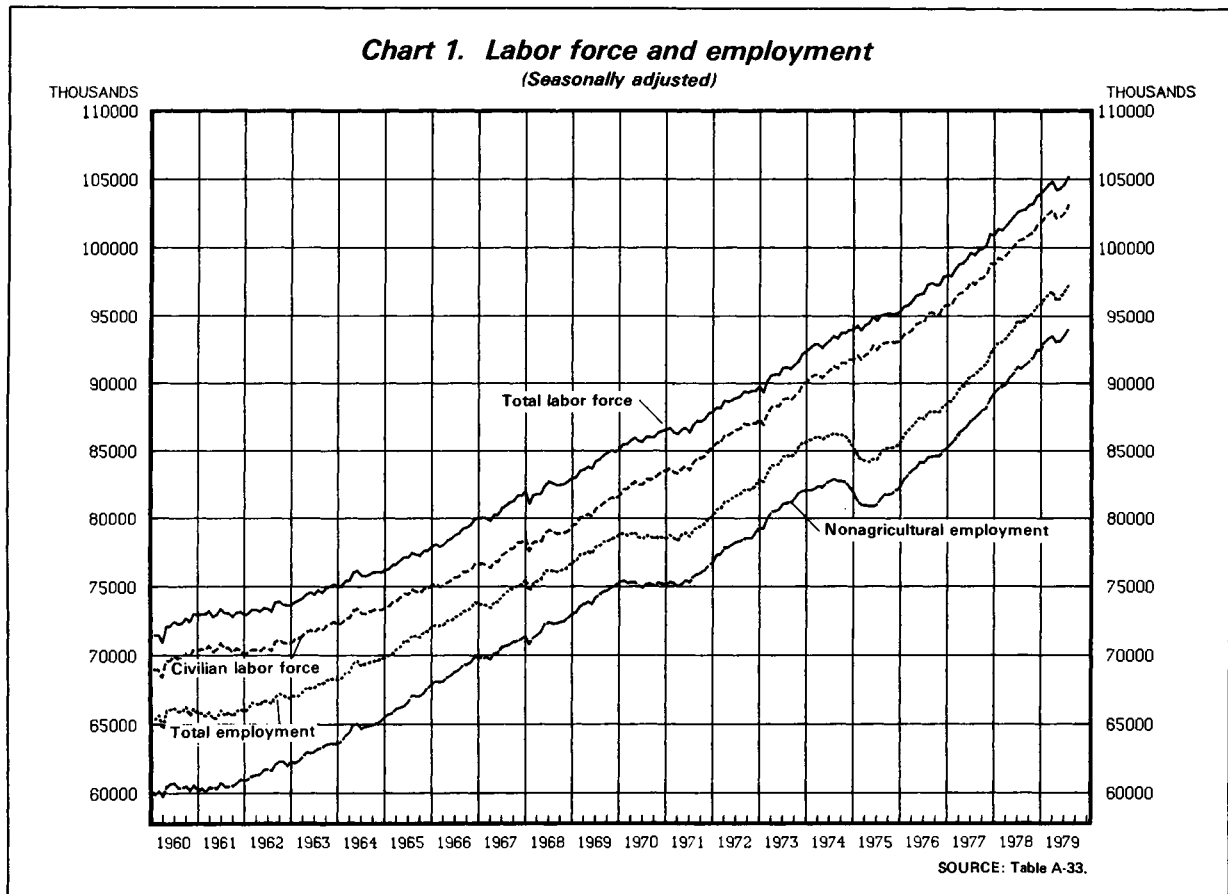


Chart 2. Major unemployment indicators
(Seasonally adjusted)

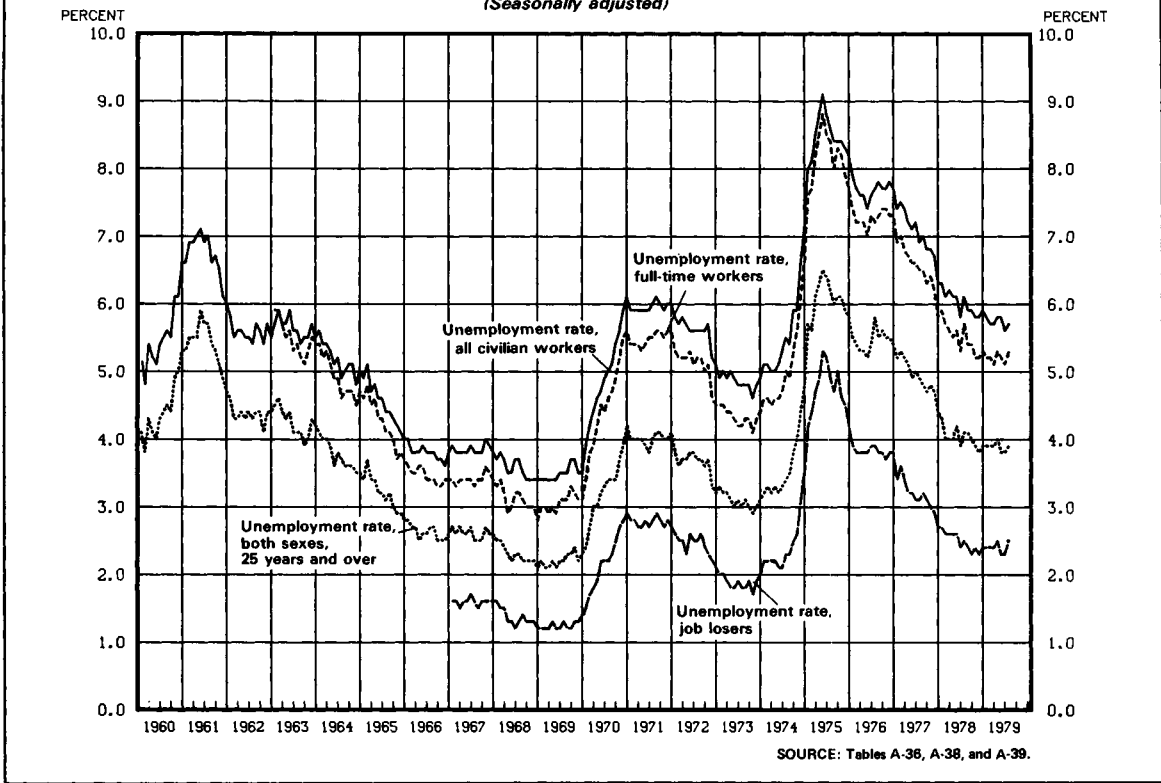


Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)

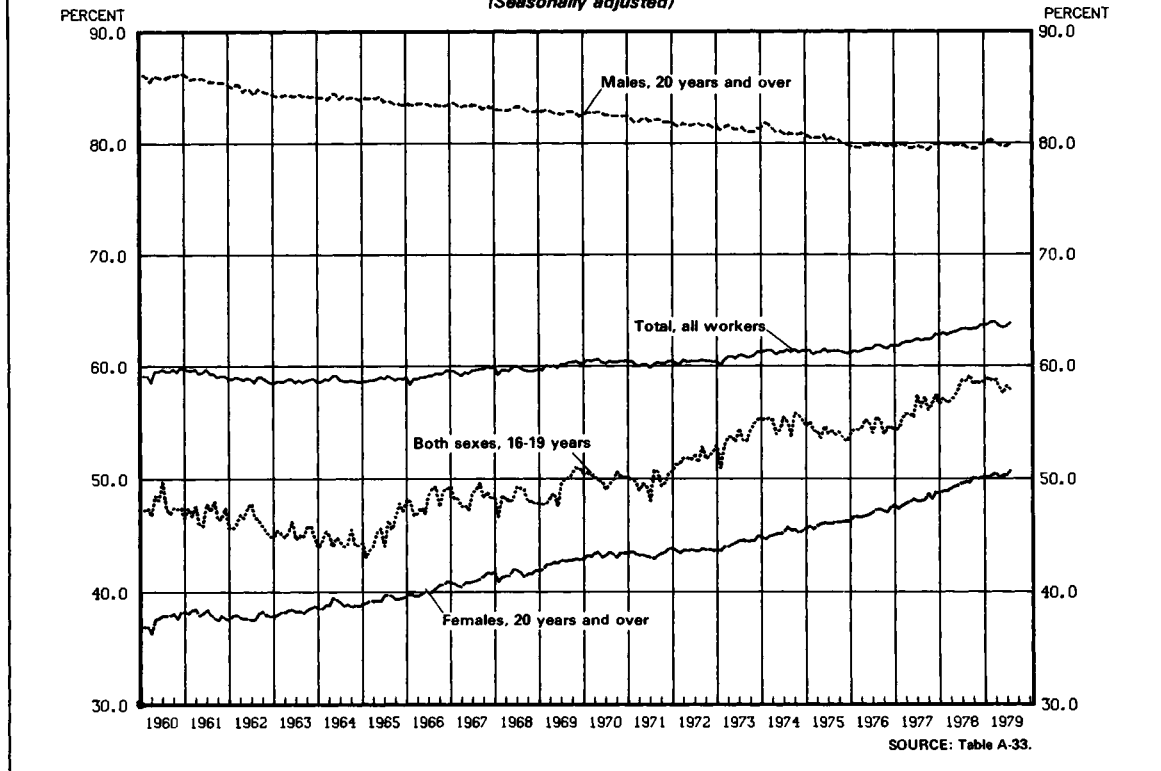
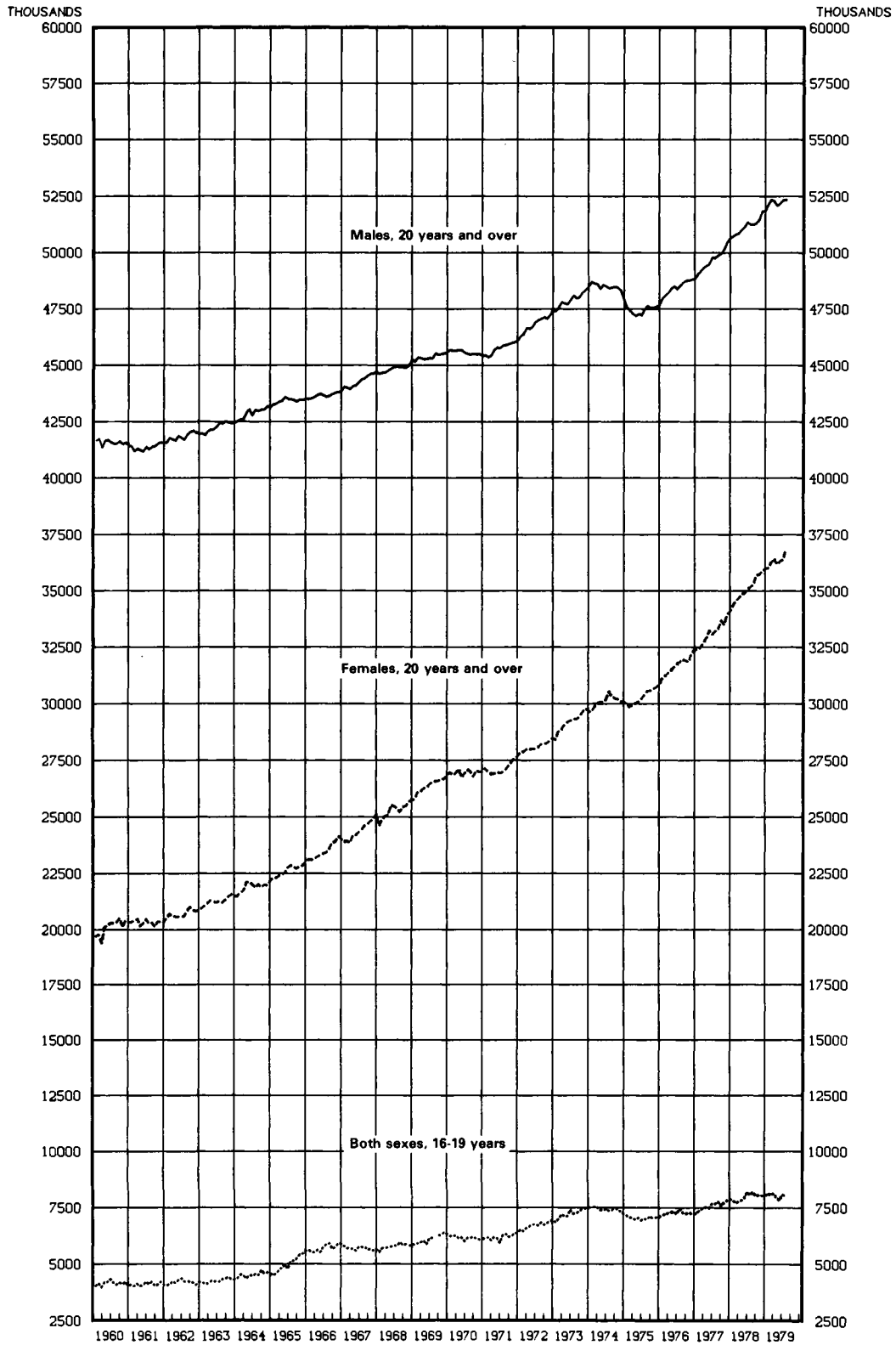


Chart 4. Total employment by sex and age

(Seasonally adjusted)



SOURCE: Table A-33.

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

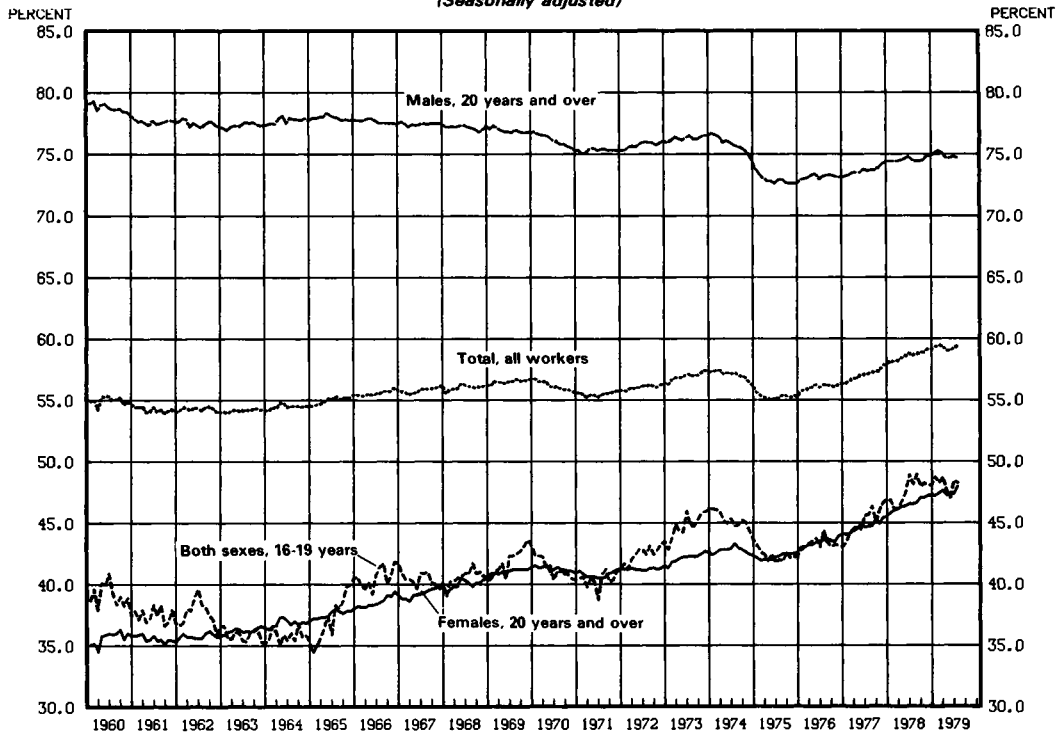


Chart 6. Payroll employment in goods and service-producing industries
(Seasonally adjusted)

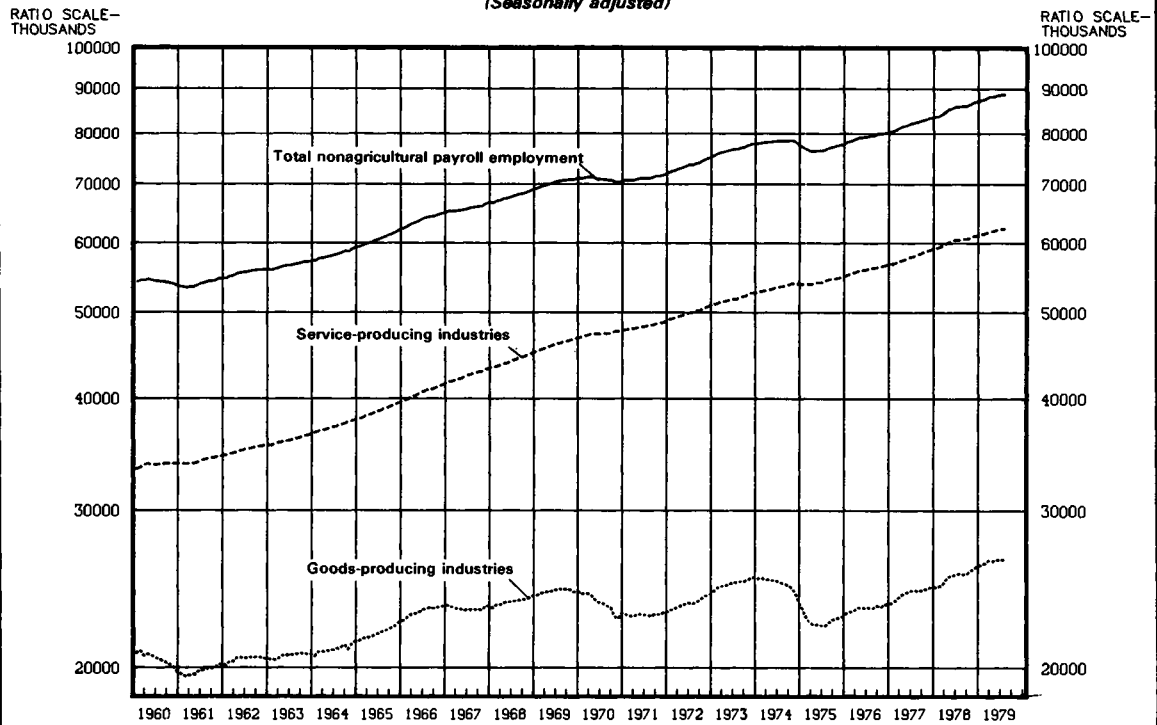
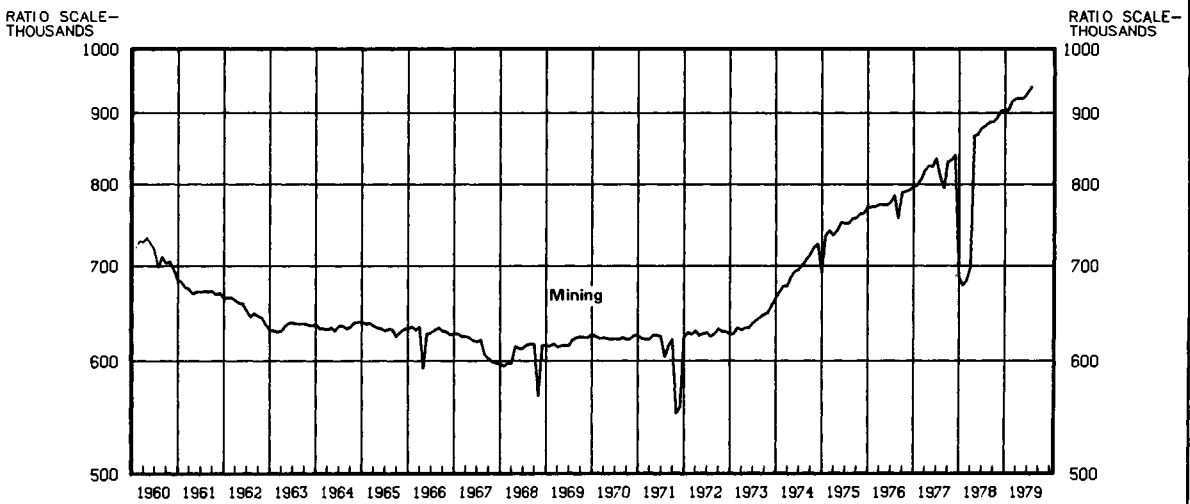
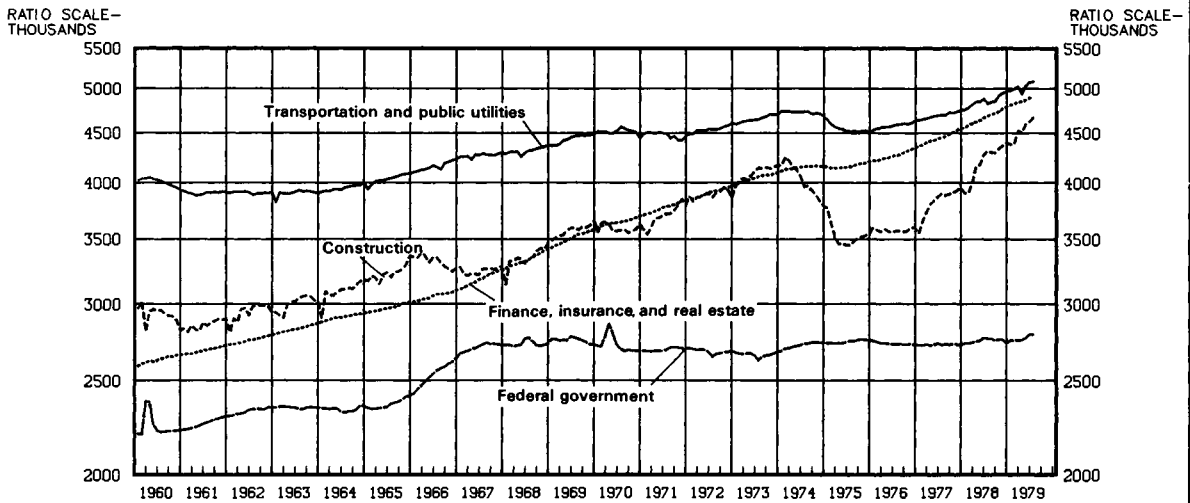
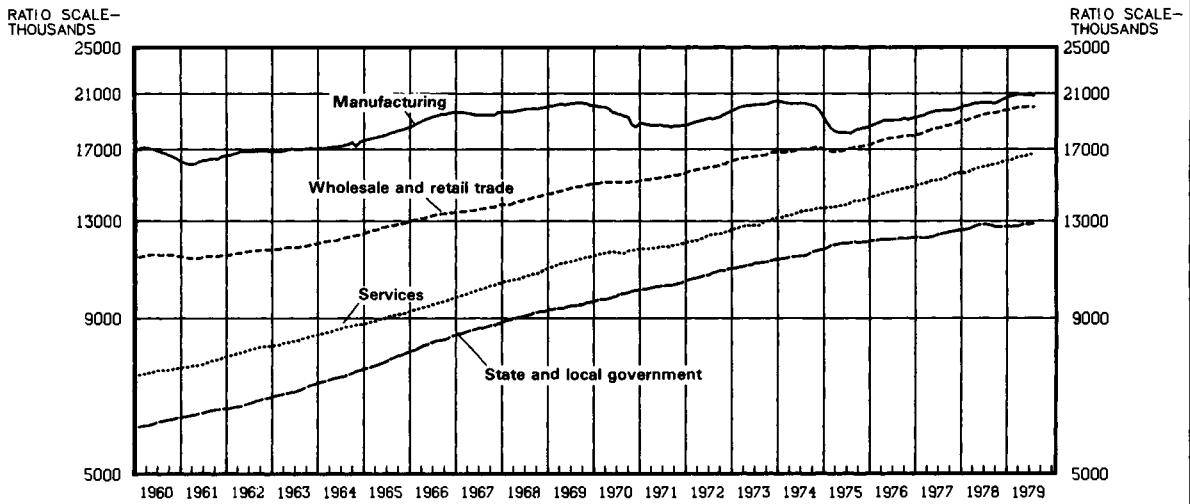


Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

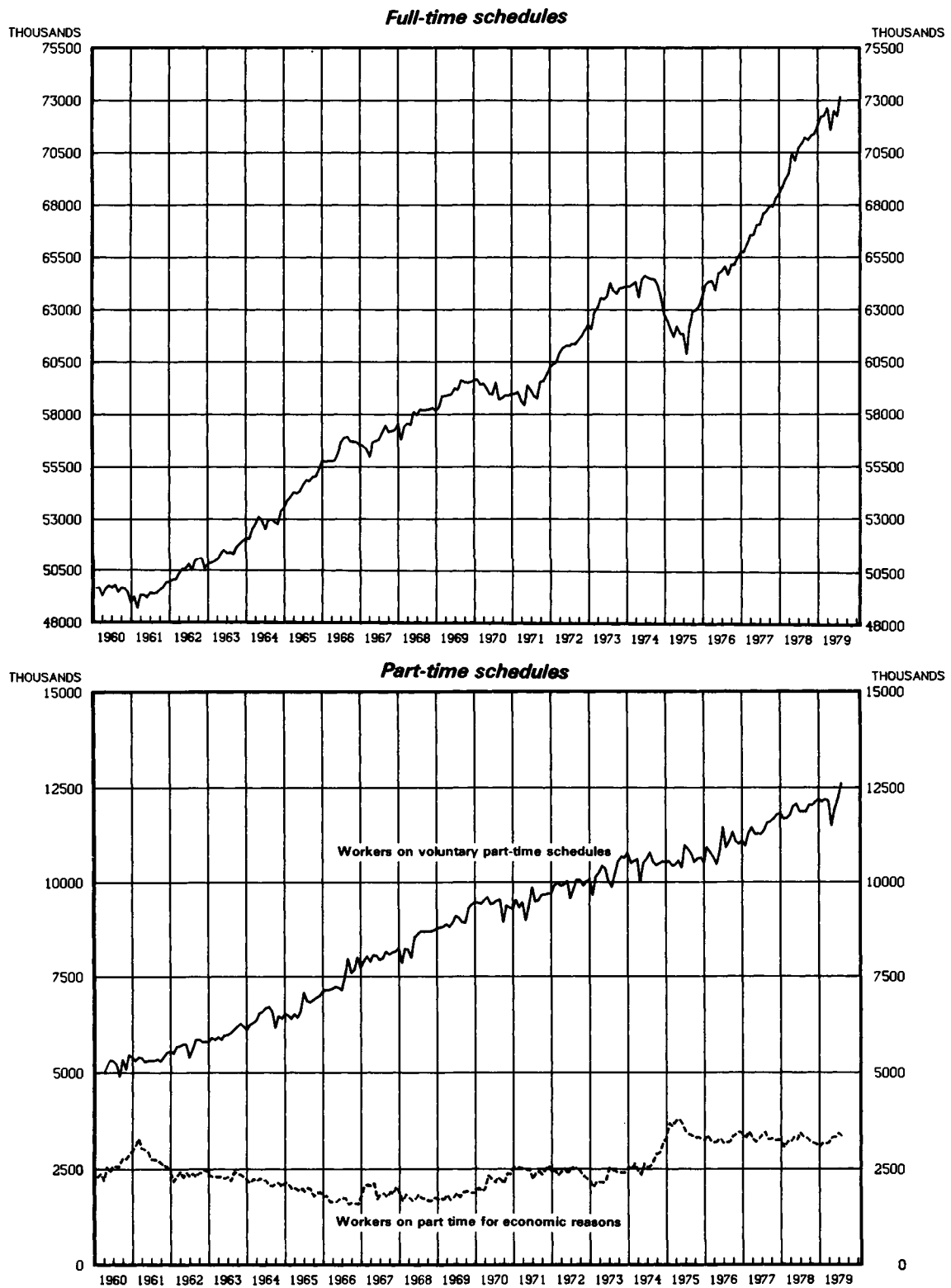


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

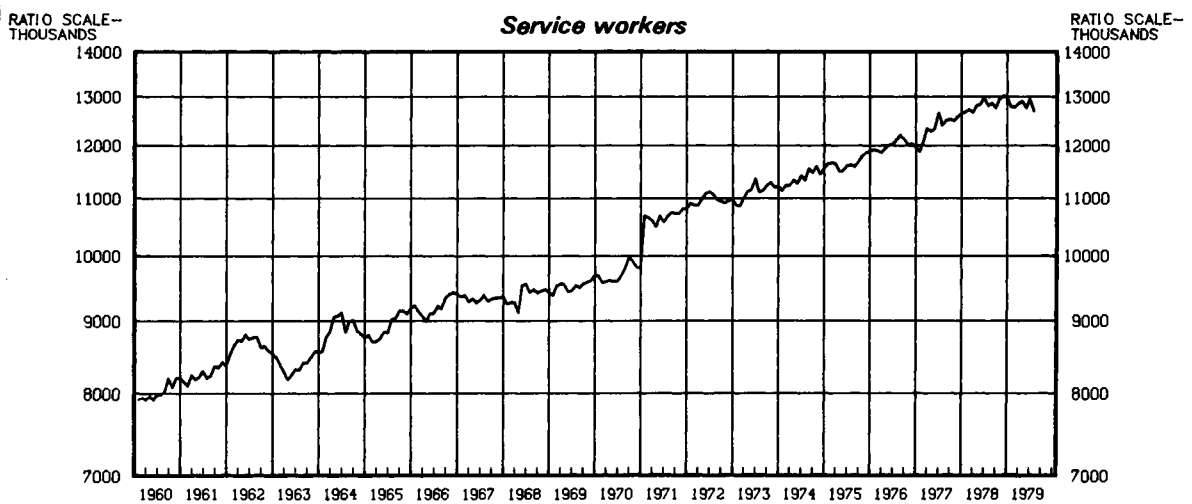
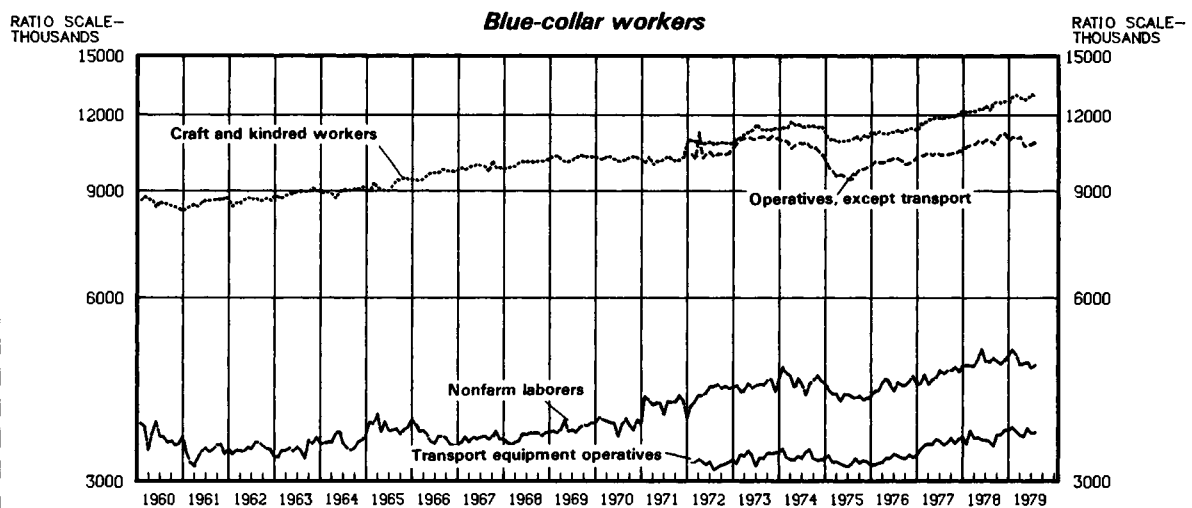
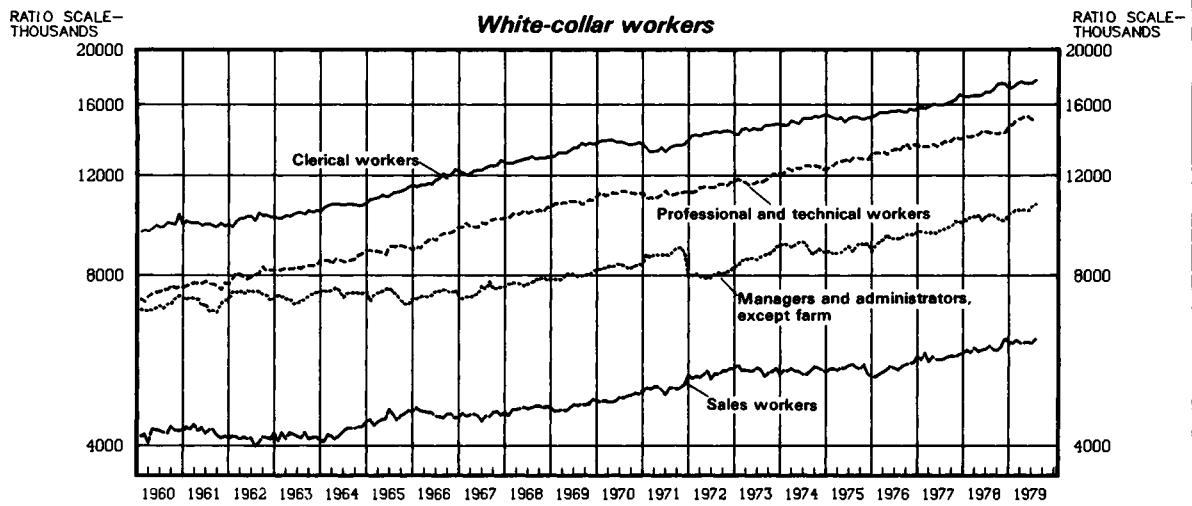
(Seasonally adjusted)



SOURCE: Table A-42.

Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)

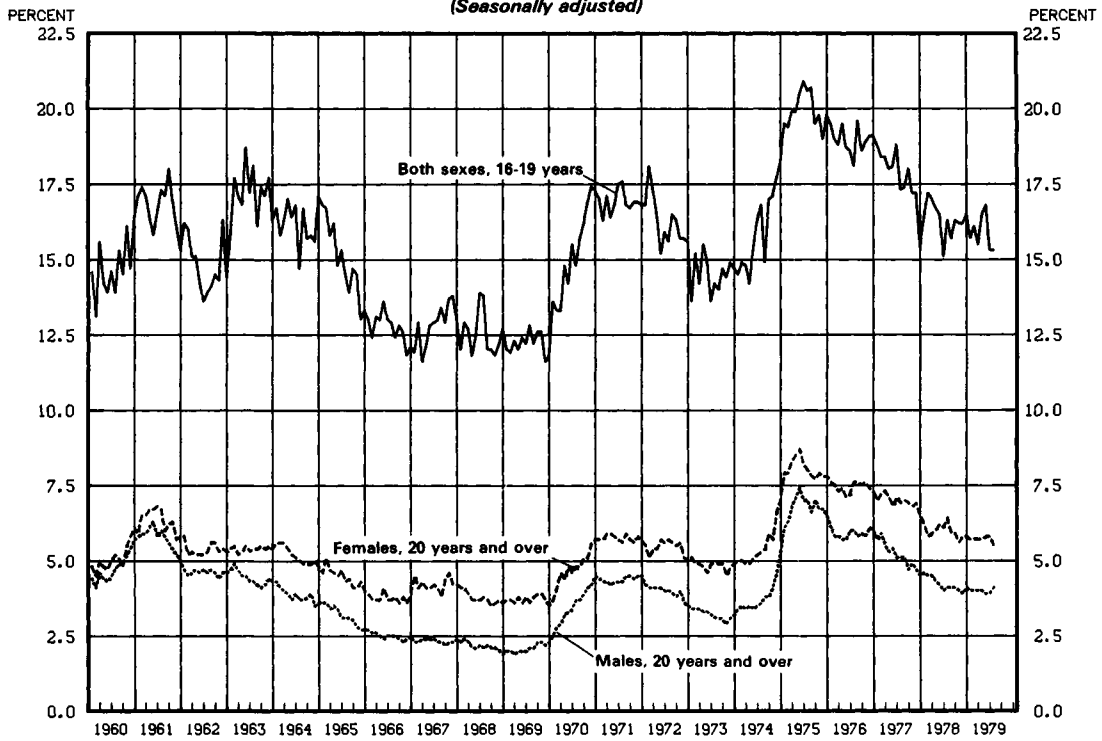


NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

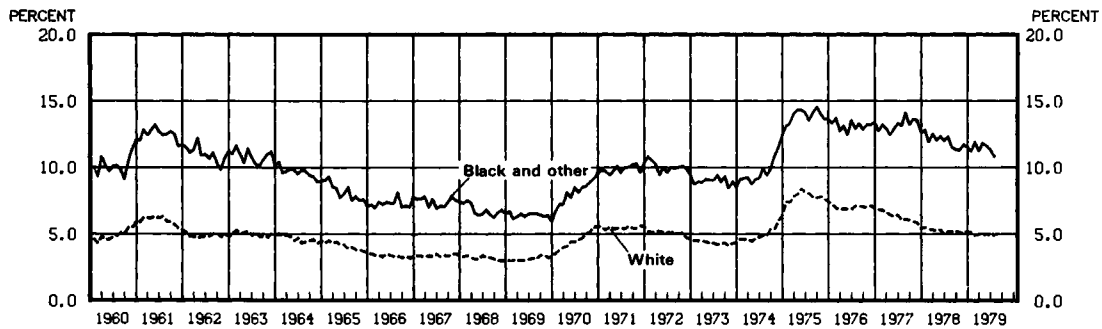
(Seasonally adjusted)



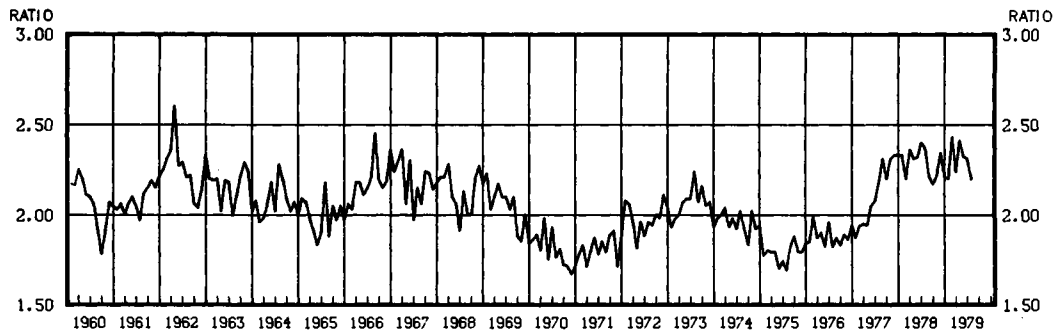
SOURCE: Table A-36.

Chart 11. Unemployment rates by race

(Seasonally adjusted)

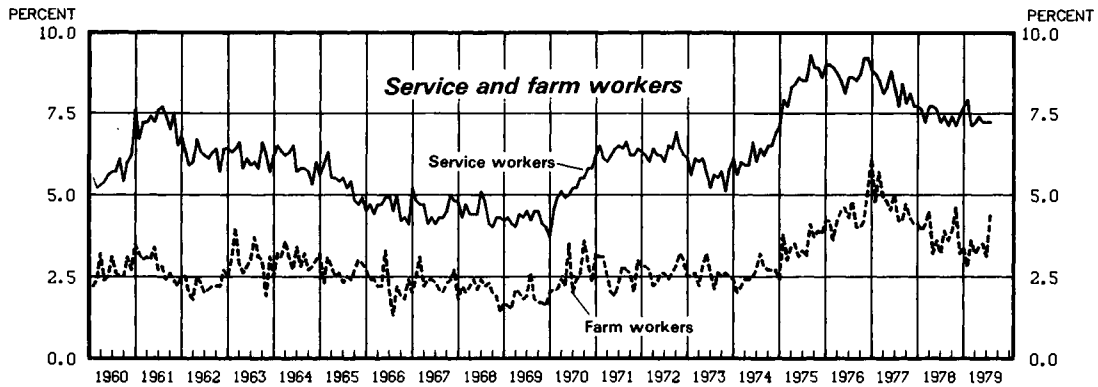
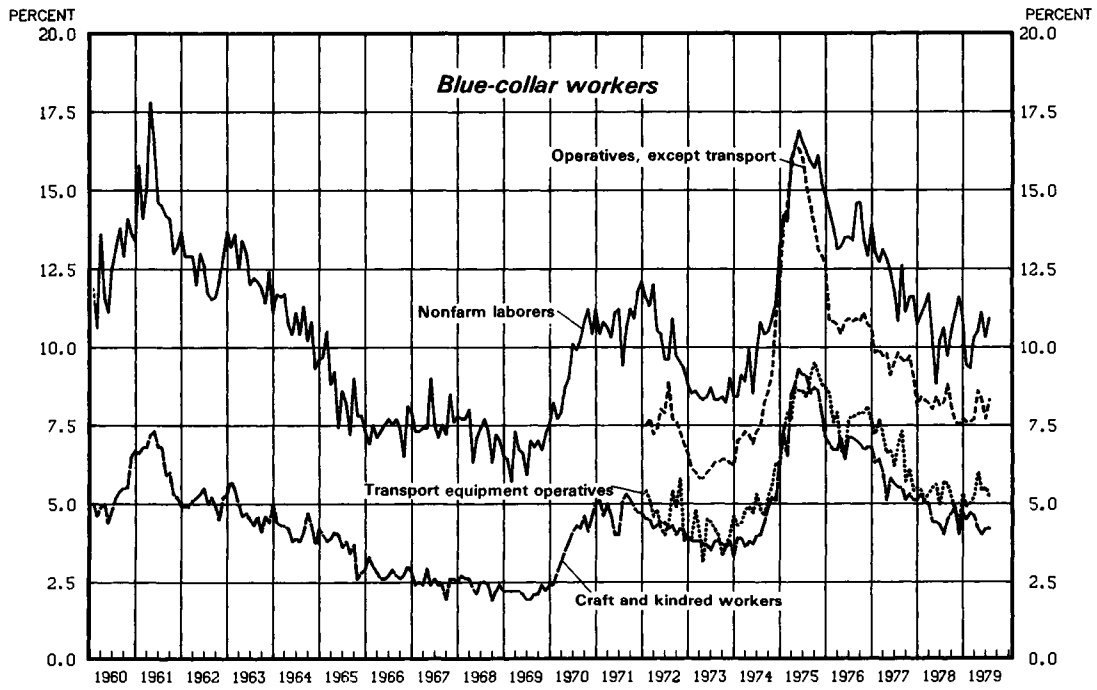
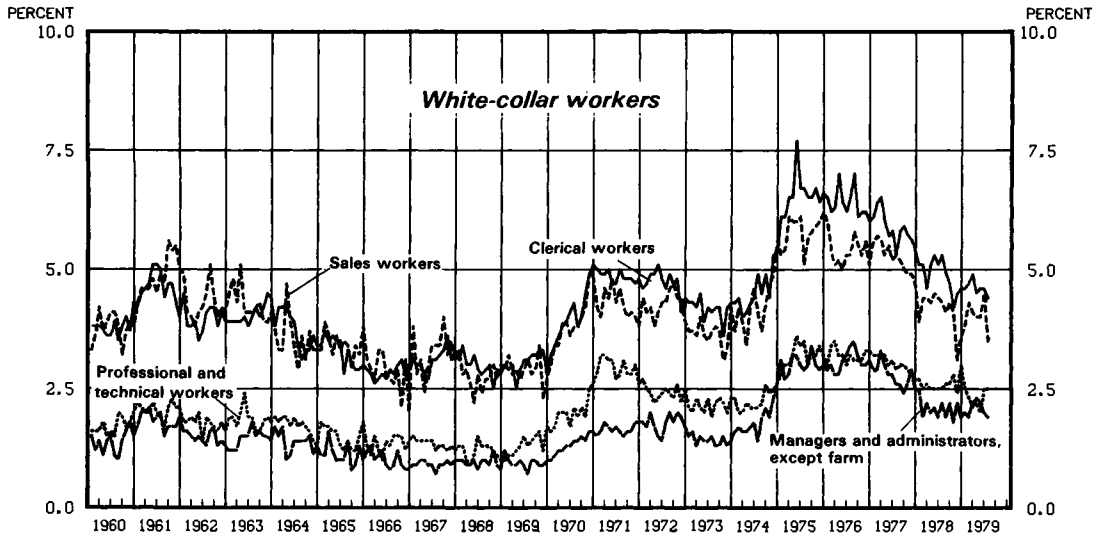


Ratio of black to white unemployment rate



SOURCE: Table A-35.

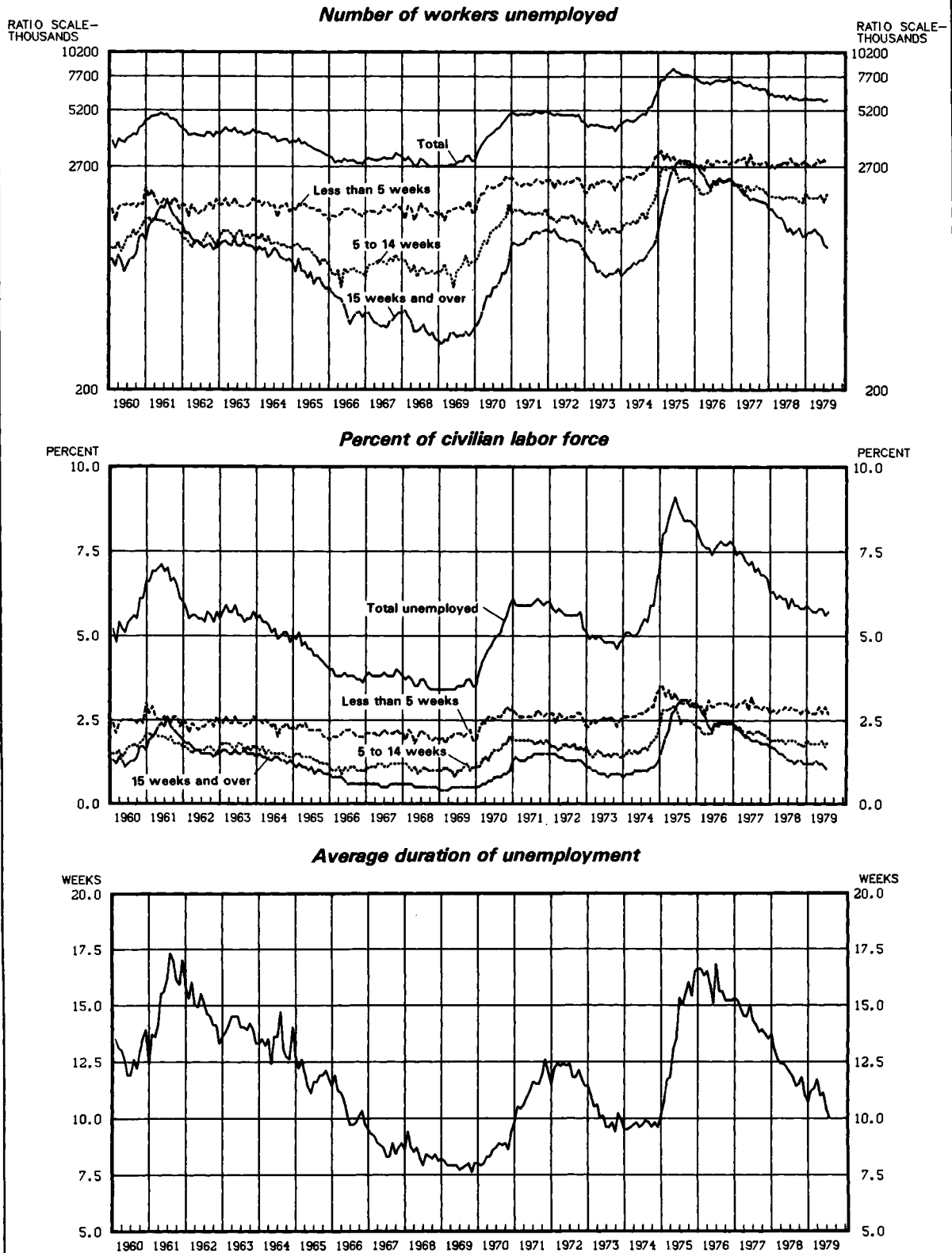
Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

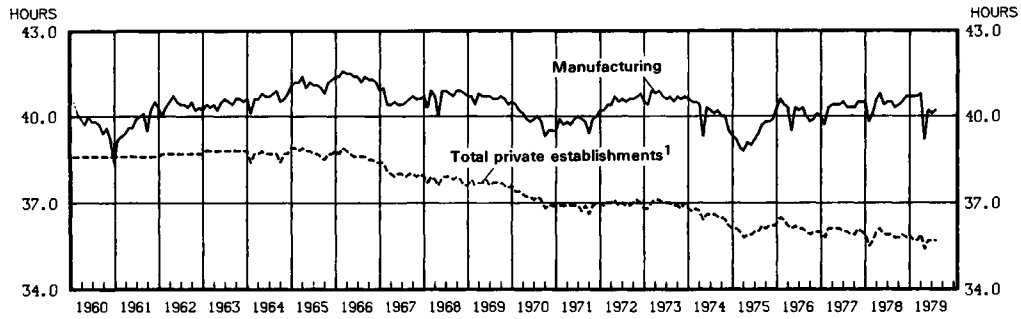
Chart 13. Duration of unemployment

(Seasonally adjusted)

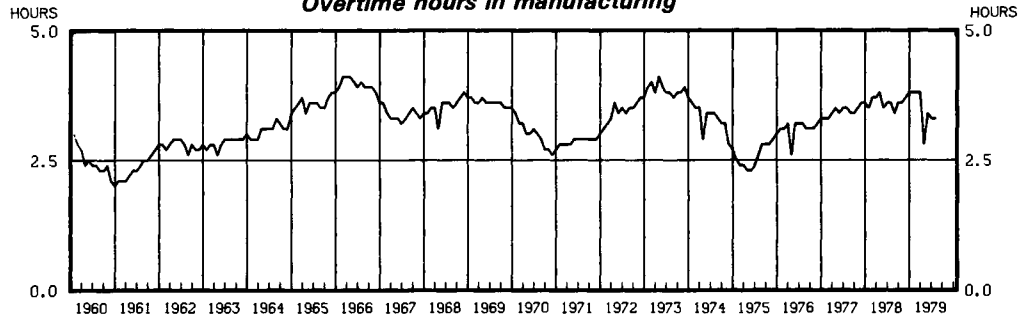


SOURCE: Table A-37.

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



Overtime hours in manufacturing

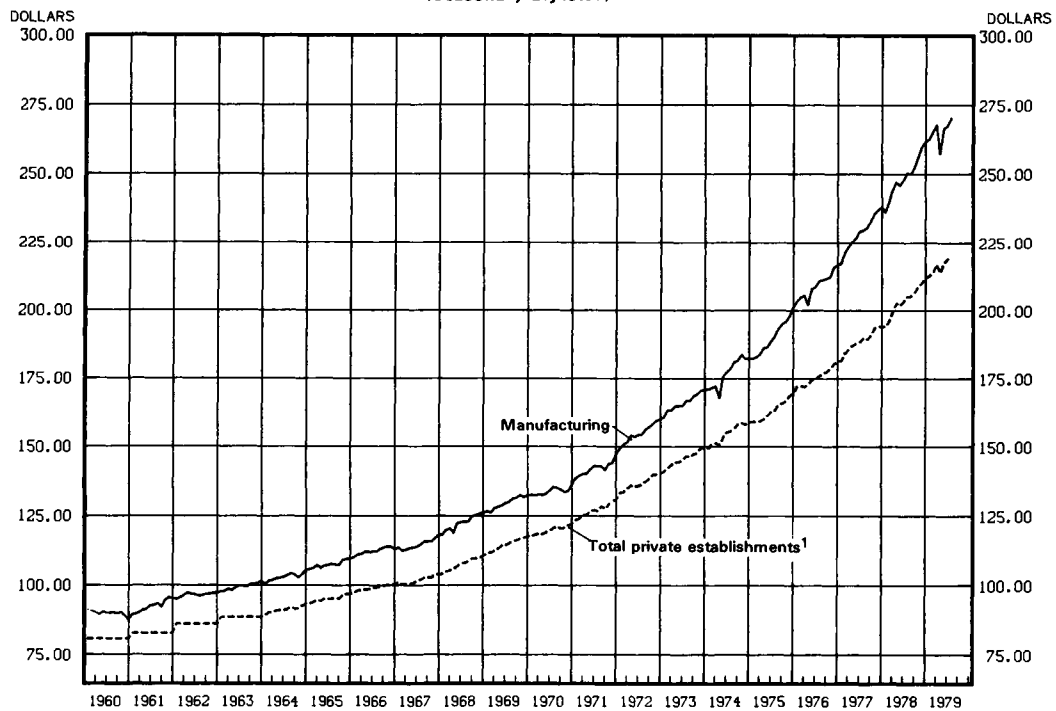


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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



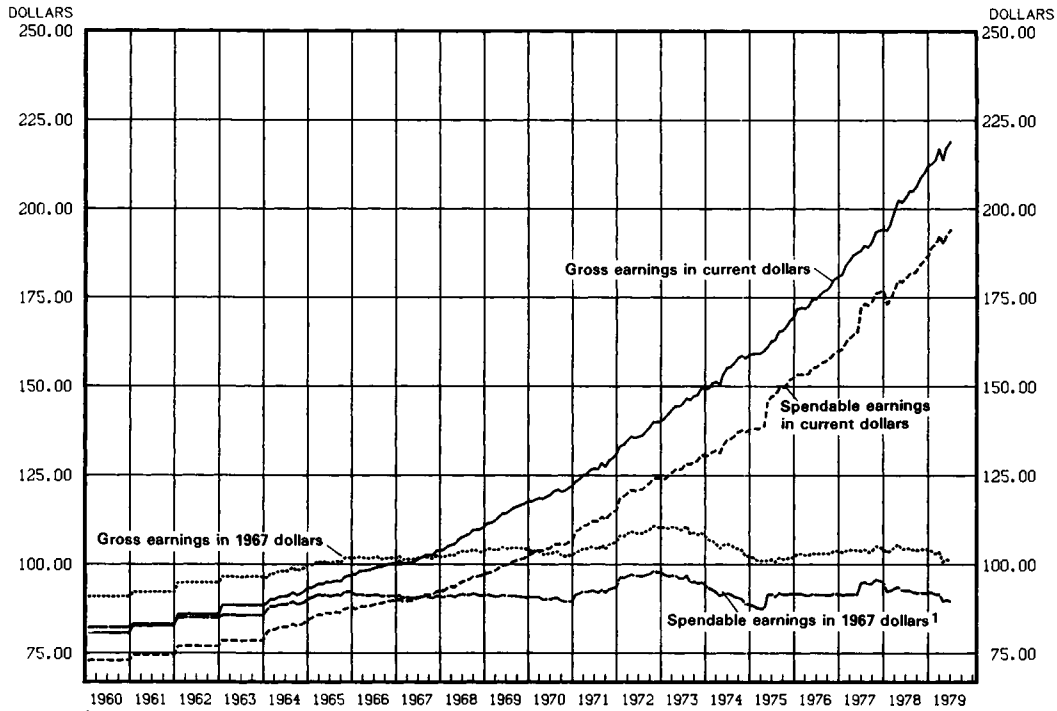
¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

Chart 16. Total private gross and spendable weekly earnings

(Seasonally adjusted)



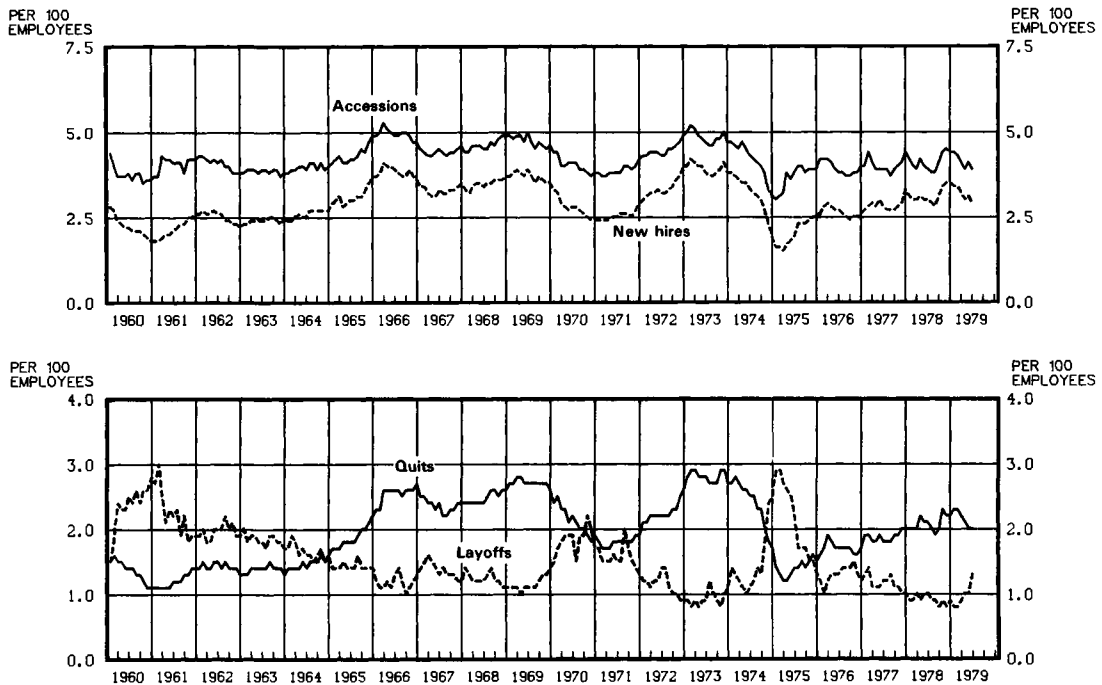
¹ Married worker with three dependents.

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

SOURCE: Table C-9.

Chart 17. Labor turnover rates in manufacturing

(Seasonally adjusted)



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

**HOUSEHOLD DATA
HISTORICAL**

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

[Numbers in thousands]

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
TOTAL										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,521	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	63,543	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	67,539	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 ¹	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 ¹	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	88,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 ¹	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
Monthly data, seasonally adjusted ²										
1978:										
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
1979:										
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
June.....	163,469	104,604	64.0	102,528	96,754	3,260	93,494	5,774	5.6	58,865
July.....	163,685	105,141	64.2	103,059	97,210	3,262	93,949	5,848	5.7	58,545

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

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

**HOUSEHOLD DATA
HISTORICAL**

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

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
MALES										
Annual averages										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	49,114	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	49,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 ¹	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
Monthly data, seasonally adjusted²										
1978:										
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
1979:										
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
June.....	78,323	61,387	78.4	59,446	56,638	2,609	54,029	2,808	4.7	16,936
July.....	78,427	61,535	78.5	59,592	56,595	2,609	53,986	2,997	5.0	16,892
FEMALES										
Annual averages										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 ¹	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978 ¹	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
Monthly data, seasonally adjusted²										
1978:										
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
1979:										
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
June.....	85,145	43,217	50.8	43,082	40,116	651	39,465	2,966	6.9	41,929
July.....	85,259	43,606	51.1	43,467	40,615	653	39,962	2,852	6.6	41,653

¹ See footnote 1, table A-1.

² See footnote 2, table A-1.

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

(Numbers in thousands)

Sex, age, and race	July 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					
MALES											
16 years and over	63,365	80.8	61,422	58,350	3,072	5.0	15,062	352	806	1,719	12,184
16 to 21 years	10,525	82.7	9,885	8,612	1,273	12.9	2,196	22	443	33	1,698
16 to 19 years	6,588	78.1	6,322	5,384	938	14.8	1,843	16	313	14	1,500
16 to 17 years	2,857	68.6	2,844	2,384	460	16.2	1,308	14	202	10	1,082
18 to 19 years	1,731	87.5	3,478	3,000	478	13.8	535	2	111	5	418
20 to 64 years	54,861	90.9	53,185	51,103	2,081	3.9	5,516	139	493	1,270	3,615
20 to 24 years	9,509	92.6	8,753	8,041	722	8.2	756	13	293	50	401
25 to 54 years	33,213	94.8	37,285	36,135	1,150	3.1	2,111	76	194	660	1,182
25 to 29 years	8,656	95.6	8,292	7,932	360	4.3	403	9	131	60	204
30 to 34 years	7,818	96.3	7,571	7,318	253	3.3	299	9	38	93	159
35 to 39 years	6,348	96.5	6,156	5,988	168	2.7	233	12	8	79	135
40 to 44 years	5,296	95.5	5,208	5,090	119	2.3	252	5	7	107	133
45 to 49 years	5,080	93.9	5,050	4,924	126	2.5	332	16	2	127	186
50 to 54 years	5,015	89.4	5,008	4,884	124	2.5	592	25	8	194	365
55 to 64 years	7,139	72.9	7,138	6,927	211	2.9	2,649	51	7	560	2,032
55 to 59 years	4,414	82.3	4,413	4,279	134	3.0	4,950	32	4	283	631
60 to 64 years	2,725	61.6	2,725	2,649	76	2.8	1,699	19	2	277	1,401
65 years and over	1,916	19.9	1,916	1,863	53	2.7	7,702	197	1	435	7,069
65 to 69 years	1,101	29.0	1,101	1,065	36	3.2	2,697	58	1	148	2,490
70 years and over	815	14.0	815	798	17	2.1	5,005	139	--	287	4,580
White											
16 years and over	56,196	81.4	54,661	52,323	2,338	4.3	12,857	302	593	1,389	10,574
16 to 21 years	9,192	85.1	8,701	7,743	958	11.0	1,613	21	307	22	1,262
16 to 19 years	5,763	80.7	5,558	4,859	699	12.6	1,375	15	215	12	1,133
16 to 17 years	2,518	71.8	2,507	2,159	348	13.9	989	15	134	7	833
18 to 19 years	3,245	89.4	3,051	2,699	351	11.5	386	--	82	5	300
20 to 64 years	48,711	91.5	47,382	45,789	1,593	3.4	4,544	115	378	1,015	3,037
20 to 24 years	9,281	93.9	7,711	7,165	545	7.1	542	13	226	33	269
25 to 54 years	33,919	95.3	33,161	32,293	868	2.6	1,666	56	147	522	941
25 to 29 years	14,542	96.5	14,053	13,588	465	3.3	531	15	131	107	277
30 to 34 years	10,355	96.5	10,120	9,915	205	2.0	379	9	6	155	210
35 to 44 years	3,022	92.3	8,989	8,790	199	2.2	755	32	10	260	454
55 to 64 years	6,511	73.6	6,510	6,331	179	2.7	2,337	45	6	460	1,827
55 to 59 years	4,009	82.9	4,008	3,895	113	2.8	825	28	4	233	560
60 to 64 years	2,502	62.3	2,502	2,436	66	2.6	1,512	17	2	227	1,267
65 years and over	1,721	19.9	1,721	1,675	46	2.7	6,938	172	--	362	6,404
Black and other											
16 years and over	7,169	76.5	6,762	6,027	735	10.9	2,204	50	213	331	1,610
16 to 21 years	1,332	69.6	1,184	868	316	26.6	583	1	136	10	436
16 to 19 years	825	63.8	764	525	239	31.3	468	1	97	2	367
16 to 17 years	339	51.5	337	225	112	33.3	319	--	68	2	249
18 to 19 years	486	76.5	427	300	127	29.7	149	2	29	--	118
20 to 64 years	6,149	86.4	5,803	5,314	490	8.4	972	25	115	256	578
20 to 24 years	1,228	85.1	1,052	875	177	16.8	215	--	67	17	132
25 to 54 years	4,293	90.6	4,122	3,842	281	6.8	445	19	46	139	241
25 to 34 years	1,931	91.8	1,810	1,661	149	8.2	172	2	37	46	86
35 to 44 years	1,289	92.4	1,244	1,163	81	6.5	106	8	9	32	57
45 to 54 years	1,073	86.5	1,069	1,018	51	4.8	168	9	--	61	98
55 to 64 years	628	66.8	628	596	32	5.1	312	6	1	100	205
55 to 59 years	406	76.5	406	384	22	5.4	125	4	1	49	71
60 to 64 years	223	54.3	223	213	10	4.5	187	2	--	50	134
65 years and over	195	20.3	195	188	6	3.1	764	24	1	73	665

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	July 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					
FEMALES											
16 years and over	43,712	51.3	43,573	40,541	3,032	7.0	41,547	32,680	1,010	1,077	6,780
16 to 21 years	8,435	67.7	8,381	7,201	1,181	14.1	4,024	1,641	606	24	1,753
16 to 19 years	5,381	65.3	5,358	4,496	863	16.1	2,864	894	432	12	1,526
16 to 17 years	2,333	57.9	2,333	1,890	442	19.0	1,700	344	233	7	1,116
18 to 19 years	3,048	72.4	3,026	2,605	420	13.9	1,164	550	199	6	410
20 to 64 years	37,262	58.9	37,145	35,010	2,135	5.7	26,014	22,171	571	510	2,763
20 to 24 years	7,329	71.5	7,259	6,570	689	9.5	2,921	2,142	282	31	466
25 to 54 years	25,515	60.6	25,469	24,147	1,323	5.2	16,576	14,537	280	268	1,492
25 to 29 years	5,959	64.6	5,926	5,492	434	7.3	3,265	2,863	116	15	272
30 to 34 years	4,990	59.9	4,981	4,683	298	6.0	3,337	2,957	67	41	272
35 to 39 years	4,168	60.2	4,165	3,955	210	5.0	2,752	2,410	48	33	261
40 to 44 years	3,711	63.1	3,710	3,579	131	3.5	2,166	1,882	23	34	228
45 to 49 years	3,333	58.4	3,332	3,222	110	3.3	2,379	2,080	18	58	222
50 to 54 years	3,354	55.6	3,354	3,215	139	4.1	2,677	2,346	9	87	236
55 to 64 years	4,418	40.4	4,418	4,294	124	2.8	6,517	5,492	8	212	805
55 to 59 years	2,781	47.2	2,781	2,706	74	2.7	3,110	2,688	4	95	322
60 to 64 years	1,637	32.5	1,637	1,587	50	3.0	3,407	2,804	4	117	483
65 years and over	1,069	7.8	1,069	1,035	34	3.1	12,669	9,616	7	555	2,491
65 to 69 years	680	14.3	680	656	24	3.5	4,066	3,232	2	97	734
70 years and over	389	4.3	389	379	10	2.5	8,603	6,384	5	458	1,757
White											
16 years and over	37,632	50.7	37,525	35,284	2,241	6.0	36,618	29,259	762	823	5,774
16 to 21 years	7,348	70.0	7,306	6,444	862	11.8	3,144	1,286	439	19	1,401
16 to 19 years	4,695	67.8	4,678	4,038	639	13.7	2,234	685	311	9	1,229
16 to 17 years	2,043	60.5	2,043	1,700	342	16.8	1,334	250	165	5	914
18 to 19 years	2,652	74.7	2,635	2,338	297	11.3	900	435	146	4	315
20 to 64 years	31,985	58.3	31,895	30,324	1,570	4.9	22,887	19,726	444	375	2,343
20 to 24 years	6,305	72.7	6,251	5,765	486	7.8	2,362	1,774	212	24	352
25 to 54 years	21,780	59.8	21,704	20,722	983	4.5	14,642	12,955	225	189	1,273
25 to 29 years	9,179	61.1	9,147	8,622	525	5.7	5,849	5,216	143	44	446
30 to 34 years	6,751	61.0	6,748	6,485	263	3.9	4,315	3,782	55	42	436
35 to 44 years	5,810	56.5	5,809	5,615	194	3.3	4,478	3,957	27	103	391
55 to 64 years	3,940	40.1	3,939	3,836	103	2.6	5,883	4,996	7	162	718
55 to 59 years	2,478	47.0	2,478	2,416	62	2.5	2,794	2,428	3	69	294
60 to 64 years	1,462	32.1	1,462	1,421	41	2.8	3,089	2,568	4	93	424
65 years and over	952	7.6	952	922	31	3.2	11,497	8,848	7	439	2,202
Black and other											
16 years and over	6,079	55.2	6,048	5,257	791	13.1	4,929	3,421	248	254	1,006
16 to 21 years	1,087	55.3	1,075	757	319	29.6	880	355	167	6	352
16 to 19 years	686	52.1	681	457	223	32.8	630	209	121	3	297
16 to 17 years	290	44.3	290	190	100	34.5	365	93	68	2	202
18 to 19 years	396	59.9	391	267	123	31.6	264	115	53	2	94
20 to 64 years	5,278	62.8	5,251	4,687	564	10.7	3,127	2,446	127	134	420
20 to 24 years	1,024	64.7	1,008	805	203	20.1	559	368	70	7	114
25 to 54 years	3,775	66.1	3,764	3,424	340	9.0	1,935	1,582	56	77	218
25 to 29 years	1,770	70.1	1,760	1,553	207	11.7	753	604	40	12	98
30 to 34 years	1,128	65.1	1,127	1,049	78	6.9	604	510	16	24	54
35 to 44 years	877	60.3	877	822	55	6.3	578	469	--	42	67
55 to 64 years	479	43.0	479	457	21	4.5	634	496	1	50	87
55 to 59 years	303	49.0	303	291	12	4.0	315	260	1	27	28
60 to 64 years	176	35.6	176	167	9	5.2	318	235	--	23	60
65 years and over	116	9.0	116	113	3	2.7	1,172	767	--	116	289

HOUSEHOLD DATA

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	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
MALES								
16 years and over	62,364	63,365	80.8	80.8	60,374	61,422	80.3	80.3
16 to 19 years	6,718	6,588	79.2	78.1	6,418	6,322	78.5	77.4
16 to 17 years	2,986	2,857	70.5	68.6	2,968	2,844	70.3	68.5
18 to 19 years	3,732	3,731	88.0	87.5	3,450	3,478	87.2	86.7
20 to 24 years	9,294	9,509	91.7	92.6	8,545	8,763	91.1	92.1
25 to 54 years	37,331	38,213	94.4	94.8	36,392	37,285	94.2	94.6
25 to 34 years	15,933	16,474	95.7	95.9	15,316	15,863	95.6	95.8
35 to 44 years	11,269	11,643	95.6	96.0	10,986	11,364	95.5	95.9
45 to 54 years	10,129	10,095	91.1	91.6	10,090	10,058	91.0	91.6
55 to 64 years	7,098	7,139	73.6	72.9	7,097	7,138	73.6	72.9
55 to 59 years	4,414	4,414	83.3	82.3	4,412	4,413	83.3	82.3
60 to 64 years	2,684	2,725	61.7	61.6	2,684	2,725	61.7	61.6
65 years and over	1,923	1,916	20.5	19.9	1,923	1,916	20.5	19.9
White								
16 years and over	55,390	56,196	81.3	81.4	53,786	54,661	80.9	81.0
16 to 19 years	5,819	5,763	80.9	80.7	5,581	5,558	80.2	80.2
16 to 17 years	2,581	2,518	72.1	71.8	2,566	2,507	72.0	71.7
18 to 19 years	3,238	3,245	89.6	89.4	3,015	3,051	88.9	88.8
20 to 24 years	8,144	8,281	93.2	93.9	7,557	7,711	92.7	93.4
25 to 54 years	33,248	33,919	95.1	95.3	32,470	33,161	95.0	95.2
25 to 34 years	14,102	14,542	96.3	96.5	13,598	14,053	96.2	96.4
35 to 44 years	10,031	10,355	96.2	96.5	9,792	10,120	96.1	96.4
45 to 54 years	9,116	9,022	92.1	92.3	9,081	8,989	92.1	92.2
55 to 64 years	6,459	6,511	74.0	73.6	6,458	6,510	73.9	73.6
55 to 59 years	4,013	4,009	84.0	82.9	4,012	4,008	84.0	82.9
60 to 64 years	2,446	2,502	61.8	62.3	2,446	2,502	61.8	62.3
65 years and over	1,720	1,721	20.3	19.9	1,720	1,721	20.3	19.9
Black and other								
16 years and over	6,973	7,169	76.6	76.5	6,588	6,762	75.6	75.4
16 to 19 years	899	825	70.0	63.8	837	764	68.5	62.0
16 to 17 years	405	339	61.6	51.5	402	337	61.5	51.4
18 to 19 years	494	486	78.9	76.5	435	427	76.7	74.1
20 to 24 years	1,151	1,228	82.3	85.1	988	1,052	80.0	83.1
25 to 54 years	4,082	4,293	89.2	90.6	3,921	4,122	88.8	90.2
25 to 34 years	1,831	1,931	91.7	91.8	1,718	1,810	91.2	91.3
35 to 44 years	1,238	1,289	91.3	92.4	1,194	1,244	91.0	92.1
45 to 54 years	1,013	1,073	82.8	86.5	1,009	1,069	82.7	86.4
55 to 64 years	639	628	69.8	66.8	639	628	69.8	66.8
55 to 59 years	401	406	77.0	76.5	401	406	77.0	76.5
60 to 64 years	238	223	60.3	54.3	238	223	60.3	54.3
65 years and over	203	195	21.8	20.3	203	195	21.8	20.3

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
FEMALES								
16 years and over	42,391	43,712	50.5	51.3	42,265	43,573	50.4	51.2
16 to 19 years	5,467	5,381	65.9	65.3	5,447	5,358	65.8	65.2
16 to 17 years	2,421	2,333	59.0	57.9	2,420	2,333	59.0	57.8
18 to 19 years	3,046	3,048	72.6	72.4	3,026	3,026	72.5	72.2
20 to 24 years	7,183	7,329	71.0	71.5	7,117	7,259	70.8	71.3
25 to 54 years	24,308	25,515	58.8	60.6	24,268	25,469	58.8	60.6
25 to 34 years	10,304	10,949	60.5	62.4	10,269	10,907	60.5	62.3
35 to 44 years	7,384	7,879	59.4	61.6	7,381	7,875	59.4	61.6
45 to 54 years	6,620	6,687	55.7	56.9	6,619	6,686	55.7	56.9
55 to 64 years	4,326	4,418	40.1	40.4	4,326	4,418	40.1	40.4
55 to 59 years	2,762	2,781	47.4	47.2	2,762	2,781	47.4	47.2
60 to 64 years	1,564	1,637	31.5	32.5	1,564	1,637	31.5	32.5
65 years and over	1,107	1,069	8.3	7.8	1,107	1,069	8.3	7.8
White								
16 years and over	36,494	37,632	49.8	50.7	36,394	37,525	49.7	50.6
16 to 19 years	4,747	4,695	67.9	67.8	4,731	4,678	67.8	67.7
16 to 17 years	2,109	2,043	61.2	60.5	2,109	2,043	61.2	60.5
18 to 19 years	2,638	2,652	74.5	74.7	2,622	2,635	74.4	74.5
20 to 24 years	6,187	6,305	72.1	72.7	6,134	6,251	71.9	72.6
25 to 54 years	20,719	21,740	57.8	59.8	20,688	21,704	57.8	59.7
25 to 34 years	8,651	9,179	59.2	61.1	8,624	9,147	59.1	61.0
35 to 44 years	6,294	6,751	58.5	61.0	6,291	6,748	58.5	61.0
45 to 54 years	5,774	5,810	55.3	56.5	5,773	5,809	55.3	56.5
55 to 64 years	3,851	3,940	39.7	40.1	3,851	3,939	39.7	40.1
55 to 59 years	2,458	2,478	47.0	47.0	2,458	2,478	47.0	47.0
60 to 64 years	1,393	1,462	31.1	32.1	1,393	1,462	31.1	32.1
65 years and over	989	952	8.1	7.6	989	952	8.1	7.6
Black and other								
16 years and over	5,897	6,079	55.2	55.2	5,871	6,048	55.1	55.1
16 to 19 years	720	686	55.0	52.1	716	681	54.9	51.9
16 to 17 years	312	290	47.5	44.3	312	290	47.5	44.2
18 to 19 years	408	396	62.5	59.9	404	391	62.3	59.6
20 to 24 years	996	1,024	64.9	64.7	983	1,008	64.6	64.3
25 to 54 years	3,588	3,775	65.1	66.1	3,579	3,764	65.1	66.0
25 to 34 years	1,653	1,770	68.9	70.1	1,645	1,760	68.8	70.0
35 to 44 years	1,090	1,128	64.9	65.1	1,090	1,127	64.9	65.1
45 to 54 years	845	877	59.1	60.3	845	877	59.1	60.3
55 to 64 years	475	479	44.0	43.0	475	479	44.0	43.0
55 to 59 years	305	303	50.5	49.0	305	303	50.5	49.0
60 to 64 years	171	176	35.7	35.6	171	176	35.7	35.6
65 years and over	118	116	9.5	9.0	118	116	9.5	9.0

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

[Numbers in thousands]

Sex and age	July 1979						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL							
16 years and over	10,870	9,447	255	9,192	1,423	13.1	6,162
16 to 19 years	1,251	804	47	757	447	35.7	964
16 to 17 years	548	343	24	319	204	37.3	599
18 to 19 years	703	461	23	438	242	34.5	365
20 to 24 years	1,771	1,418	31	1,387	353	19.9	662
25 to 54 years	6,610	6,046	112	5,933	564	8.5	1,993
25 to 34 years	2,967	2,639	37	2,603	328	11.1	739
35 to 44 years	2,018	1,877	39	1,838	141	7.0	595
45 to 54 years	1,625	1,529	36	1,493	96	5.9	659
55 to 64 years	960	912	34	878	48	5.0	848
55 to 59 years	614	585	12	573	29	4.7	394
60 to 64 years	346	327	22	305	19	5.6	454
65 years and over	278	268	30	238	10	3.7	1,695
Males							
16 years and over	5,715	5,028	200	4,827	687	12.0	1,917
16 to 19 years	662	434	38	395	228	34.4	404
16 to 17 years	295	184	21	164	109	36.9	274
18 to 19 years	367	249	18	231	118	32.2	130
20 to 24 years	898	735	22	713	163	18.2	181
25 to 54 years	3,452	3,192	89	3,102	260	7.5	392
25 to 34 years	1,506	1,363	33	1,331	143	9.5	131
35 to 44 years	1,052	980	27	953	73	6.9	98
45 to 54 years	894	848	29	819	46	5.1	163
55 to 64 years	534	507	27	481	27	5.1	289
55 to 59 years	347	329	12	318	18	5.2	119
60 to 64 years	187	178	15	163	9	4.8	171
65 years and over	169	161	24	137	8	4.7	650
Females							
16 years and over	5,155	4,419	55	4,365	736	14.3	4,245
16 to 19 years	589	370	9	362	219	37.1	560
16 to 17 years	253	159	3	155	95	37.4	325
18 to 19 years	336	212	5	207	124	36.9	235
20 to 24 years	873	683	9	674	190	21.7	481
25 to 54 years	3,158	2,854	23	2,831	304	9.6	1,601
25 to 34 years	1,461	1,276	4	1,272	185	12.7	608
35 to 44 years	966	897	12	885	68	7.1	497
45 to 54 years	731	681	7	674	50	6.8	496
55 to 64 years	426	405	7	397	21	4.9	559
55 to 59 years	267	256	--	255	11	4.1	275
60 to 64 years	159	149	7	142	10	6.2	283
65 years and over	109	107	6	101	2	2.3	1,045

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	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
TOTAL								
Total noninstitutional population	161,148	163,685	69,729	69,995	75,643	77,014	16,776	16,677
Total labor force	104,755	107,077	55,646	56,777	36,924	38,331	12,185	11,969
Percent of population	65.0	65.4	81.0	81.1	48.8	49.8	72.6	71.8
Civilian labor force	102,639	104,995	53,956	55,101	36,818	38,214	11,865	11,680
Employed	96,202	98,891	51,880	52,966	34,384	36,045	9,937	9,879
Agriculture	3,997	3,857	2,599	2,520	759	748	639	589
Nonagricultural industries	92,204	95,034	49,281	50,446	33,625	35,297	9,299	9,290
Unemployed	6,438	6,104	2,076	2,134	2,434	2,169	1,927	1,801
Percent of labor force	6.3	5.8	3.8	3.9	6.6	5.7	16.2	15.4
Not in labor force	56,393	56,609	13,083	13,218	38,719	38,683	4,591	4,707
White								
Total noninstitutional population	141,366	143,303	50,908	61,915	66,274	67,321	14,184	14,068
Total labor force	91,885	93,928	49,571	50,432	31,747	32,937	10,566	10,458
Percent of population	65.0	65.5	81.4	81.5	47.9	48.9	74.5	74.3
Civilian labor force	90,179	92,185	48,205	49,103	31,663	32,847	10,311	10,235
Employed	85,410	87,607	46,607	47,464	29,864	31,246	8,940	8,897
Agriculture	3,637	3,525	2,357	2,303	707	689	573	532
Nonagricultural industries	81,773	84,083	44,249	45,161	29,157	30,556	8,367	8,365
Unemployed	4,769	4,578	1,598	1,639	1,799	1,601	1,372	1,338
Percent of labor force	5.3	5.0	3.3	3.3	5.7	4.9	13.3	13.1
Not in labor force	49,481	49,475	11,337	11,482	34,527	34,384	3,617	3,609
Black and other								
Total noninstitutional population	19,782	20,382	7,821	8,080	9,370	9,693	2,592	2,609
Total labor force	12,870	13,249	6,075	6,344	5,177	5,394	1,618	1,511
Percent of population	65.1	65.0	77.7	78.5	55.3	55.6	62.4	57.9
Civilian labor force	12,460	12,810	5,751	5,998	5,155	5,367	1,553	1,445
Employed	10,791	11,284	5,274	5,502	4,520	4,800	998	982
Agriculture	360	333	242	217	53	59	66	57
Nonagricultural industries	10,431	10,951	5,032	5,285	4,468	4,741	932	925
Unemployed	1,668	1,526	478	496	635	567	556	463
Percent of labor force	13.4	11.9	8.3	8.3	12.3	10.6	35.8	32.0
Not in labor force	6,912	7,133	1,746	1,736	4,192	4,299	973	1,098

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

(Numbers in thousands)

Employment status	July 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	25,180	12,721	12,459	21,297	10,805	10,492	3,883	1,916	1,967
Total labor force	18,960	10,525	8,435	16,540	9,192	7,348	2,420	1,332	1,087
Percent of population	75.3	82.7	67.7	77.7	85.1	70.0	62.3	69.6	55.3
Civilian labor force	18,266	9,885	8,381	16,007	8,701	7,306	2,259	1,184	1,075
Employed	15,812	8,612	7,201	14,187	7,743	6,444	1,625	868	757
Agriculture	812	624	188	736	565	171	76	59	18
Nonagricultural industries	15,000	7,988	7,012	13,452	7,178	6,273	1,549	810	739
Unemployed	2,454	1,273	1,181	1,820	958	862	634	316	319
Looking for full-time work	1,833	984	849	1,348	742	606	486	243	243
Looking for part-time work	620	289	332	472	216	256	149	73	76
Percent of labor force	13.4	12.9	14.1	11.4	11.0	11.8	28.1	26.6	29.6
Not in labor force	6,220	2,196	4,024	4,757	1,613	3,144	1,463	583	880
Major activity: going to school									
Civilian labor force	393	210	184	336	180	156	57	29	28
Employed	303	160	143	268	139	130	34	22	13
Agriculture	10	7	3	9	6	3	1	1	--
Nonagricultural industries	292	153	139	259	132	126	34	21	13
Unemployed	91	50	41	68	42	26	22	8	15
Looking for full-time work	31	15	15	21	14	7	9	1	8
Looking for part-time work	60	34	26	47	28	19	13	6	7
Percent of labor force	23.0	23.7	22.3	20.3	23.2	16.9	(1)	(1)	(1)
Not in labor force	1,048	443	606	746	307	439	302	136	167
Major activity: other									
Civilian labor force	17,873	9,675	8,198	15,671	8,521	7,150	2,203	1,155	1,048
Employed	15,510	8,452	7,058	13,919	7,605	6,314	1,591	847	744
Agriculture	802	617	185	726	559	167	76	58	18
Nonagricultural industries	14,708	7,835	6,873	13,193	7,046	6,147	1,515	789	726
Unemployed	2,363	1,223	1,140	1,751	916	836	612	308	304
Looking for full-time work	1,803	969	834	1,327	727	599	476	241	235
Looking for part-time work	560	255	306	425	188	236	136	66	69
Percent of labor force	13.2	12.6	13.9	11.2	10.7	11.7	27.8	26.7	29.0
Not in labor force	5,171	1,753	3,418	4,011	1,305	2,705	1,161	448	713

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

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

[Numbers in thousands]

Race, sex, and age	July 1979								
	Full-time labor force				Part-time labor force				
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part-time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over.....	91,981	82,784	4,147	5,051	5.5	13,014	11,961	1,053	8.1
16 to 21 years.....	14,418	10,700	1,885	1,833	12.7	3,848	3,228	620	16.1
16 to 19 years.....	8,600	5,864	1,467	1,269	14.8	3,080	2,548	532	17.3
16 to 17 years.....	3,233	1,860	857	520	16.1	1,944	1,562	382	19.7
18 to 19 years.....	5,367	4,004	614	749	14.0	1,136	987	150	13.2
20 years and over.....	83,381	76,919	2,680	3,782	4.5	9,934	9,412	521	5.2
20 to 24 years.....	14,490	12,431	810	1,249	8.6	1,531	1,370	161	10.5
25 years and over.....	68,891	64,489	1,870	2,532	3.7	8,403	8,043	360	4.3
25 to 54 years.....	57,210	53,497	1,494	2,219	3.9	5,543	5,291	252	4.5
55 years and over.....	11,681	10,992	377	314	2.7	2,860	2,752	108	3.8
Males, 16 years and over.....	57,612	52,910	2,029	2,673	4.6	3,810	3,411	400	10.5
16 to 21 years.....	8,248	6,276	988	984	11.9	1,637	1,348	289	17.6
16 to 19 years.....	4,976	3,472	806	697	14.0	1,346	1,106	240	17.9
20 years and over.....	52,636	49,438	1,223	1,975	3.8	2,464	2,305	159	6.5
20 to 24 years.....	8,247	7,250	348	650	7.9	515	443	72	14.0
25 years and over.....	44,390	42,188	876	1,326	3.0	1,949	1,862	87	4.5
25 to 54 years.....	36,572	34,769	692	1,112	3.0	713	675	38	5.3
55 years and over.....	7,818	7,420	184	214	2.7	1,236	1,187	49	4.0
Females, 16 years and over.....	34,369	29,873	2,117	2,378	6.9	9,204	8,550	653	7.1
16 to 21 years.....	6,170	4,425	896	849	13.8	2,211	1,880	332	15.0
16 to 19 years.....	3,624	2,392	661	572	15.8	1,734	1,443	291	16.8
20 years and over.....	30,745	27,482	1,456	1,807	5.9	7,470	7,107	362	4.9
20 to 24 years.....	6,243	5,181	462	600	9.6	1,016	927	89	8.8
25 years and over.....	24,501	22,301	995	1,208	4.9	6,454	6,181	273	4.2
25 to 54 years.....	20,637	19,729	801	1,108	5.4	4,831	4,616	215	4.5
55 years and over.....	3,864	3,572	193	100	2.6	1,623	1,565	59	3.6
White									
Males, 16 years and over.....	51,341	47,627	1,682	2,032	4.0	3,320	3,014	305	9.2
16 to 21 years.....	7,293	5,718	834	742	10.2	1,408	1,192	216	15.4
16 to 19 years.....	4,402	3,206	682	514	11.7	1,155	970	185	16.0
20 years and over.....	46,938	44,420	1,000	1,518	3.2	2,165	2,044	121	5.6
20 to 24 years.....	7,263	6,477	293	493	6.8	447	395	52	11.7
25 years and over.....	39,675	37,943	707	1,025	2.6	1,717	1,649	68	4.0
25 to 54 years.....	32,556	31,157	557	841	2.6	606	578	28	4.6
55 years and over.....	7,120	6,786	150	184	2.6	1,111	1,071	40	3.6
Females, 16 years and over.....	29,238	25,783	1,738	1,717	5.9	8,287	7,763	524	6.3
16 to 21 years.....	5,376	3,987	783	606	11.3	1,929	1,674	256	13.3
16 to 19 years.....	3,181	2,178	586	417	13.1	1,497	1,275	223	14.9
20 years and over.....	26,057	23,605	1,152	1,300	5.0	6,790	6,489	301	4.4
20 to 24 years.....	5,330	4,540	379	411	7.7	921	846	74	8.1
25 years and over.....	20,727	19,065	773	889	4.3	5,870	5,642	227	3.9
25 to 54 years.....	17,255	15,811	636	808	4.7	4,450	4,276	174	3.9
55 years and over.....	3,472	3,254	136	81	2.3	1,420	1,367	53	3.7
Black and other									
Males, 16 years and over.....	6,271	5,283	348	641	10.2	491	396	94	19.2
16 to 21 years.....	955	557	155	243	25.4	229	156	73	31.7
16 to 19 years.....	573	266	124	183	32.0	191	135	56	29.1
20 years and over.....	5,698	5,017	224	457	8.0	300	261	39	12.9
20 to 24 years.....	984	772	55	157	15.9	68	48	20	(2)
25 years and over.....	4,714	4,246	168	300	6.4	232	212	18	7.8
25 to 54 years.....	4,016	3,611	134	270	6.7	107	96	10	9.3
55 years and over.....	698	635	33	30	4.3	125	116	8	6.4
Females, 16 years and over.....	5,131	4,091	379	661	12.9	916	787	130	14.1
16 to 21 years.....	794	438	113	243	30.6	282	206	76	26.9
16 to 19 years.....	444	214	75	155	34.9	237	168	69	29.0
20 years and over.....	4,687	3,977	304	506	10.9	680	619	61	9.0
20 to 24 years.....	913	641	83	186	20.6	95	80	15	15.3
25 years and over.....	3,775	3,236	222	318	8.4	586	538	46	7.8
25 to 54 years.....	3,383	2,918	165	300	9.9	382	341	40	10.5
55 years and over.....	392	317	57	19	4.8	204	197	5	2.5

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

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

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

(Numbers in thousands)

Family relationship	July 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					
Total, 16 years and over	104,995	65.0	98,891	6,104	5.8	56,609	33,032	1,817	2,796	18,964
Husbands ¹	41,080	81.6	40,021	1,059	2.6	9,237	141	126	1,133	7,837
With employed wife	20,009	92.2	19,526	483	2.4	1,685	29	73	373	1,210
With unemployed wife	1,028	92.8	939	88	8.6	81	2	3	23	53
With wife not in labor force	18,420	72.5	18,012	408	2.2	6,982	84	45	668	6,185
Wives	22,803	47.3	21,695	1,108	4.9	25,403	22,720	175	254	2,254
With employed husband	20,466	53.2	19,526	940	4.6	18,011	16,391	150	80	1,390
With unemployed husband	571	58.3	483	88	15.4	408	377	9	6	16
With husband not in labor force	1,766	20.2	1,686	81	4.6	6,983	5,952	16	167	848
Relatives in husband-wife families	16,576	72.4	14,669	1,907	11.5	6,307	1,463	854	379	3,611
16-19 years	8,420	72.6	7,280	1,140	13.5	3,185	359	492	20	2,315
20-24 years	5,524	85.7	4,957	567	10.3	920	183	315	44	379
25 years and over	2,632	54.4	2,432	200	7.6	2,202	921	47	315	917
Women who head families	4,962	59.0	4,555	408	8.2	3,453	2,701	75	155	523
Relatives in female-headed families	4,713	63.4	3,894	818	17.4	2,718	838	307	244	1,329
16-19 years	1,803	65.9	1,341	462	25.6	932	131	192	5	604
20-24 years	1,386	77.9	1,177	209	15.1	393	121	86	13	173
25 years and over	1,524	52.2	1,376	147	9.6	1,393	586	29	226	552
Persons not living in families ²	14,861	61.0	14,057	804	5.4	9,491	5,169	280	631	3,410

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

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

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

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
	Total, 16 years and over	3,050	3,072	5.1	5.0	3,388	3,032	8.0	7.0
Married, spouse present	960	1,026	2.4	2.5	1,291	1,170	5.8	5.0
Widowed, divorced, or separated	279	298	6.2	6.4	642	539	8.2	6.8
Single (never married)	1,811	1,748	11.3	10.7	1,455	1,322	12.0	10.6
White, 16 years and over	2,297	2,338	4.3	4.3	2,472	2,241	6.8	6.0
Married, spouse present	797	841	2.2	2.3	1,072	981	5.4	4.7
Widowed, divorced, or separated	192	214	5.2	5.6	447	381	7.1	6.0
Single (never married)	1,309	1,282	9.4	9.0	953	879	9.4	8.4
Black and other, 16 years and over	753	735	11.4	10.9	915	791	15.6	13.1
Married, spouse present	163	185	4.6	5.0	218	190	9.1	7.7
Widowed, divorced, or separated	87	84	10.2	9.9	195	159	13.0	10.1
Single (never married)	502	466	23.0	20.8	502	443	25.4	21.8
Total, 20 to 64 years of age	1,993	2,091	3.8	3.9	2,393	2,135	6.7	5.7
Married, spouse present	880	963	2.3	2.5	1,193	1,088	5.5	4.9
Widowed, divorced, or separated	262	285	6.1	6.4	617	495	8.6	6.8
Single (never married)	851	834	8.7	8.1	584	552	8.3	7.4
White, 20 to 64 years of age	1,526	1,593	3.3	3.4	1,766	1,570	5.8	4.9
Married, spouse present	722	779	2.1	2.2	989	902	5.2	4.5
Widowed, divorced, or separated	182	207	5.3	5.7	422	345	7.4	6.0
Single (never married)	621	607	7.3	6.9	355	324	6.2	5.3
Black and other, 20 to 64 years of age	467	490	8.4	8.4	627	564	12.4	10.7
Married, spouse present	157	183	4.6	5.2	204	187	8.8	7.9
Widowed, divorced, or separated	80	78	9.9	9.8	195	150	13.7	10.1
Single (never married)	229	227	17.0	15.5	228	228	17.7	16.4

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
Total, 16 years and over	6,438	6,104	6.3	5.8	5.1	5.0	8.0	7.0
White-collar workers	1,899	1,715	3.9	3.4	2.4	2.2	5.2	4.4
Professional and technical	418	440	3.0	2.9	2.0	2.0	4.2	4.3
Managers and administrators, except farm	235	215	2.2	2.0	1.7	1.5	4.0	3.4
Sales workers	269	270	4.2	3.4	3.1	2.6	5.7	4.4
Clerical workers	977	840	5.5	4.5	4.2	4.3	5.8	4.6
Blue-collar workers	2,160	2,221	6.2	6.2	5.3	5.5	9.9	9.4
Craft and kindred workers	460	511	3.5	3.7	3.4	3.6	5.0	4.8
Carpenters and other construction craft	226	218	5.2	4.8	5.1	4.8	9.2	4.5
All other	234	293	2.6	3.1	2.5	3.0	4.5	4.8
Operatives, except transport	956	966	8.0	8.0	6.1	6.8	10.6	9.8
Transport equipment operatives	206	193	5.6	5.1	5.0	4.6	13.8	10.7
Nonfarm laborers	539	552	8.9	9.1	8.9	8.9	8.8	10.9
Construction laborers	163	164	12.0	12.9	12.2	12.1	(1)	(1)
All other	376	388	8.0	8.2	7.8	8.0	8.9	9.3
Service workers	1,064	1,014	7.5	7.2	6.6	7.1	8.0	7.3
Private household	76	59	6.1	5.2	(1)	(1)	6.1	5.3
All other	988	955	7.6	7.4	6.6	7.1	8.3	7.6
Farm workers	101	113	2.9	3.5	2.7	3.2	3.8	4.5
No previous work experience	1,213	1,040	--	--	--	--	--	--
16 to 19 years	982	822	--	--	--	--	--	--
20 to 24 years	181	156	--	--	--	--	--	--
25 years and over	50	62	--	--	--	--	--	--

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

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

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
Total, 16 years and over	100.0	100.0	6.3	5.8	5.1	5.0	8.0	7.0
Nonagricultural private wage and salary workers	65.8	68.3	5.7	5.4	4.7	4.8	7.0	6.2
Mining	.4	.8	3.1	5.3	3.2	4.7	2.2	9.4
Construction	6.3	6.7	7.6	7.5	7.7	7.3	6.0	9.9
Manufacturing	18.3	20.8	5.3	5.5	3.9	4.5	8.4	7.6
Durable goods	9.7	11.8	4.7	5.2	3.8	4.7	7.6	6.5
Lumber and wood products	.9	.6	7.5	5.8	6.3	6.1	15.0	3.4
Furniture and fixtures	.6	.6	6.9	6.6	6.5	6.9	7.6	6.0
Stone, clay, and glass products	.6	.8	5.1	6.9	4.3	5.3	8.9	13.4
Primary metal industries	.6	.9	2.8	4.1	2.6	3.8	4.5	6.2
Fabricated metal products	1.1	1.5	4.7	5.8	4.0	5.0	7.3	8.7
Machinery, except electrical equipment	1.4	1.6	3.5	3.4	3.3	3.2	4.7	4.0
Electrical equipment	1.7	1.6	4.9	3.9	2.0	3.5	8.6	4.3
Transportation equipment	1.6	2.6	4.2	6.6	3.9	6.5	6.3	7.0
Automobiles	.9	1.8	4.4	8.1	4.3	7.9	4.9	8.9
Other transportation equipment	.6	.8	4.0	4.6	3.4	4.7	8.3	4.2
Instruments and related products	.6	.4	6.0	4.1	3.5	2.6	9.0	5.7
Other durable goods industries	.9	1.2	7.2	9.9	6.6	6.7	8.0	13.0
Nondurable goods	8.6	8.9	6.1	5.9	4.0	4.1	9.0	8.7
Food and kindred products	2.2	2.2	6.9	6.7	5.7	5.1	9.8	10.5
Textile mill products	.9	1.0	6.5	6.8	5.9	3.2	7.1	10.9
Apparel and other textile products	1.8	2.0	8.0	8.4	4.5	8.8	9.0	8.3
Paper and allied products	.4	.5	3.3	3.8	2.3	2.6	6.3	8.3
Printing and publishing	1.1	1.2	4.9	5.0	3.9	3.0	6.3	7.9
Chemicals and allied products	.5	.7	2.8	3.5	1.6	3.1	6.5	4.8
Rubber and plastics products	1.1	.6	9.5	5.1	6.5	3.6	14.7	8.1
Other nondurable goods industries	.7	.8	6.7	7.2	.3	5.2	14.7	10.3
Transportation and public utilities	3.2	3.4	3.8	3.7	3.2	3.5	5.7	4.3
Railroads and railway express	.3	.1	3.7	.9	3.1	1.0	(1)	(1)
Other transportation	2.0	2.6	5.2	5.9	4.4	5.8	9.0	6.5
Communication and other public utilities	.8	.7	2.2	1.8	1.5	1.0	3.4	3.1
Wholesale and retail trade	20.2	19.2	6.8	6.2	5.4	5.4	8.4	7.1
Finance, insurance, and real estate	2.2	2.5	2.8	2.8	2.3	2.9	3.2	2.7
Service industries	15.3	15.0	5.8	5.3	5.1	4.4	6.3	5.8
Professional services	6.8	7.3	4.7	4.6	3.8	3.6	5.1	5.0
All other service industries	8.6	7.7	7.3	6.2	6.2	5.2	8.3	7.1
Agricultural wage and salary workers	2.2	2.5	7.5	8.1	7.2	8.0	8.5	8.5
All other classes of workers	13.2	12.1	3.4	2.9	2.3	2.1	4.9	4.1
No previous work experience	18.8	17.0	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands.....	6,438	6,104	2,076	2,134	2,434	2,169	1,927	1,801	4,769	4,578	1,668	1,526
Job losers.....	2,407	2,403	1,212	1,302	903	782	291	320	1,890	1,877	517	527
On layoff.....	639	728	300	382	277	275	62	70	501	596	138	132
Other job losers.....	1,768	1,675	912	920	626	507	229	250	1,389	1,281	379	395
Job leavers.....	907	889	339	319	377	370	191	200	744	751	163	138
Reentrants.....	1,909	1,773	427	425	1,020	888	462	460	1,360	1,245	550	528
New entrants.....	1,215	1,038	97	89	134	129	983	82	775	705	439	333
PERCENT DISTRIBUTION												
Total unemployed.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers.....	37.4	39.3	58.4	61.0	37.1	36.0	15.1	17.7	39.6	41.0	31.0	34.6
On layoff.....	9.9	11.9	14.5	17.9	11.4	12.7	3.2	3.9	10.5	13.0	8.3	8.7
Other job losers.....	27.5	27.4	43.9	43.1	25.7	23.3	11.9	13.8	29.1	28.0	22.7	25.9
Job leavers.....	14.1	14.6	16.3	14.9	15.5	17.1	9.9	11.1	15.6	16.4	9.8	9.0
Reentrants.....	29.7	29.0	20.6	19.9	41.9	40.9	24.0	25.5	28.5	27.2	33.0	34.6
New entrants.....	18.9	17.0	4.7	4.2	5.5	6.0	51.0	45.6	16.3	15.4	26.3	21.8
UNEMPLOYMENT RATE												
Total unemployment rate.....	6.3	5.8	3.8	3.9	6.6	5.7	16.2	15.4	5.3	5.0	13.4	11.9
Job loser rate ¹	2.3	2.3	2.3	2.4	2.5	2.0	2.4	2.7	2.1	2.0	4.1	4.1
Job leaver rate ¹.....	.9	.8	.6	.6	1.0	1.0	1.6	1.7	.8	.8	1.3	1.1
Reentrant rate ¹	1.9	1.7	.8	.8	2.8	2.3	3.9	3.9	1.5	1.4	4.4	4.1
New entrant rate ¹	1.2	1.0	.2	.2	.4	.3	8.3	7.0	.9	.8	3.5	2.6

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

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

[Percent distribution]

Reason, sex, and age	July 1979						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	16 to 26 weeks	27 weeks and over
Total, 16 years and over.....	6,104	100.0	48.8	35.2	16.0	8.3	7.7
Job losers.....	2,403	100.0	44.3	32.0	23.7	12.0	11.7
On layoff.....	728	100.0	63.6	25.4	11.1	6.1	5.0
Other job losers.....	1,675	100.0	35.9	34.9	29.2	14.6	14.6
Job leavers.....	889	100.0	50.7	35.3	14.0	8.5	5.5
Reentrants.....	1,773	100.0	51.6	37.0	11.4	6.4	5.0
New entrants.....	1,038	100.0	52.9	39.3	7.8	3.0	4.8
Males, 20 years and over.....	2,134	100.0	42.4	32.5	25.1	12.4	12.7
Job losers.....	1,302	100.0	40.8	29.7	29.5	14.4	15.1
On layoff.....	382	100.0	66.0	22.0	11.9	5.6	6.3
Other job losers.....	920	100.0	30.3	32.9	36.8	18.0	18.8
Job leavers.....	319	100.0	41.5	39.0	19.5	11.7	7.7
Reentrants.....	425	100.0	46.9	35.3	17.8	8.6	9.1
New entrants.....	89	100.0	47.1	36.7	16.2	4.5	11.7
Females, 20 years and over.....	2,169	100.0	49.3	35.5	15.3	8.6	6.6
Job losers.....	782	100.0	41.5	38.3	20.2	11.6	8.6
On layoff.....	275	100.0	54.9	32.3	12.8	8.6	4.2
Other job losers.....	507	100.0	34.2	41.6	24.2	13.3	10.9
Job leavers.....	170	100.0	52.7	32.1	15.2	9.8	5.5
Reentrants.....	988	100.0	54.2	35.0	10.9	5.8	5.1
New entrants.....	129	100.0	53.5	30.7	15.9	6.9	8.9
Both sexes, 16 to 19 years.....	1,801	100.0	55.9	38.0	6.2	3.2	3.0
Job losers.....	320	100.0	65.3	25.7	9.0	3.6	5.4
On layoff.....	70	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers.....	250	100.0	60.1	28.4	11.5	4.8	6.7
Job leavers.....	200	100.0	61.9	35.1	3.0	1.2	1.9
Reentrants.....	460	100.0	51.0	42.6	6.4	5.5	.9
New entrants.....	821	100.0	53.4	40.9	5.7	2.2	3.5

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

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

Sex, age, and race	July 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,104	5,255	27.1	7.2	71.8	29.2	14.1	6.7	1.56
16 to 19 years	1,801	1,701	22.3	4.3	76.8	23.3	13.7	5.5	1.46
20 to 24 years	1,411	1,202	28.3	7.5	72.9	31.4	12.7	5.2	1.58
25 to 34 years	1,345	1,109	29.9	9.9	72.3	35.1	14.9	6.4	1.69
35 to 44 years	627	507	30.2	11.6	68.2	28.2	15.8	8.7	1.63
45 to 54 years	499	418	33.3	7.4	65.1	30.9	15.1	11.7	1.63
55 to 64 years	335	241	28.2	6.6	51.5	28.2	15.8	10.8	1.41
65 years and over	86	77	18.2	1.3	58.4	35.1	9.1	6.5	1.29
Males, 16 years and over	3,072	2,572	30.0	8.7	71.0	27.9	17.6	8.2	1.63
16 to 19 years	938	870	23.8	5.4	76.4	24.8	16.7	4.8	1.52
20 to 24 years	722	586	30.5	8.0	73.2	31.1	15.4	6.8	1.65
25 to 34 years	613	474	34.0	12.0	72.6	30.8	20.9	9.1	1.79
35 to 44 years	286	225	35.6	17.3	65.8	26.7	20.0	11.1	1.76
45 to 54 years	250	220	40.5	10.9	63.2	26.4	18.6	15.9	1.75
55 to 64 years	211	151	32.5	7.3	51.0	24.5	17.9	13.9	1.47
65 years and over	53	47	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,032	2,683	24.3	5.7	72.5	30.4	10.7	5.3	1.49
16 to 19 years	863	831	20.7	3.0	77.4	21.8	10.5	6.1	1.39
20 to 24 years	689	615	26.2	6.8	72.7	32.0	10.2	3.9	1.52
25 to 34 years	732	635	26.9	8.3	72.1	38.3	10.6	4.6	1.61
35 to 44 years	341	283	25.8	7.1	70.0	29.7	12.4	6.7	1.52
45 to 54 years	249	198	24.7	3.5	67.2	35.4	11.1	7.1	1.49
55 to 64 years	124	90	21.1	5.6	52.2	35.6	12.2	5.6	1.32
65 years and over	34	30	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	4,578	3,873	24.3	7.2	73.8	31.6	14.8	6.2	1.58
Males	2,338	1,922	28.0	8.8	73.2	30.3	18.1	7.9	1.66
Females	2,241	1,951	20.7	5.7	74.5	33.0	11.6	4.5	1.50
Black and other, 16 years and over	1,526	1,382	34.9	7.2	66.1	22.1	11.9	8.1	1.50
Males	735	650	35.8	8.6	64.8	20.8	16.0	9.1	1.55
Females	791	732	34.0	5.9	67.2	23.4	8.3	7.2	1.46

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

waiting to begin a new wage and salary job within 30 days are not actually seeking jobs. It should also be noted that the percent using each method will always total more than 100 because many jobseekers use more than one method.

NOTE: The jobseekers total is less than the total unemployed because persons on layoff or

A-16. Unemployed jobseekers by the jobsearch methods used, sex, and reason for unemployment

Sex and reason	July 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	6,104	5,255	27.1	7.2	71.8	29.2	14.1	6.7	1.56
Job losers	2,403	1,665	34.5	7.3	72.4	31.1	16.2	7.2	1.69
Job leavers	889	877	26.9	9.0	72.7	35.3	13.8	4.8	1.63
Reentrants	1,773	1,680	24.9	7.9	67.1	27.5	12.4	7.9	1.48
New entrants	1,038	1,033	19.0	4.4	77.6	23.5	13.6	5.6	1.44
Males, 16 years and over	3,072	2,572	30.0	8.7	71.0	27.9	17.6	8.2	1.63
Job losers	1,529	1,086	33.7	8.4	72.0	28.7	18.2	8.8	1.70
Job leavers	416	405	31.4	9.1	72.6	32.3	20.5	4.4	1.70
Reentrants	654	610	27.5	11.0	65.6	27.7	15.2	10.5	1.58
New entrants	472	471	23.8	6.4	78.5	22.3	16.6	7.0	1.51
Females, 16 years and over	3,032	2,683	24.3	5.7	72.5	30.4	10.7	5.3	1.49
Job losers	874	578	36.2	5.2	73.2	35.5	12.5	4.2	1.67
Job leavers	473	472	23.1	8.9	72.9	37.9	8.1	5.1	1.56
Reentrants	1,119	1,071	23.4	6.2	67.9	27.4	10.8	6.4	1.42
New entrants	566	562	14.8	2.7	80.2	24.6	10.9	4.4	1.38

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	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
Total, 16 years and over	6,438	6,104	100.0	100.0	5,327	5,051	100.0	100.0
Less than 5 weeks	3,176	2,979	49.3	48.8	2,484	2,385	46.6	47.2
5 to 14 weeks	2,041	2,147	31.7	35.2	1,711	1,742	32.1	34.5
5 to 10 weeks	1,636	1,764	25.4	28.9	1,358	1,401	25.5	27.7
11 to 14 weeks	405	383	6.3	6.3	353	341	6.6	6.8
15 weeks and over	1,221	977	19.0	16.0	1,133	924	21.3	18.3
15 to 20 weeks	551	510	8.6	8.3	512	483	9.6	9.6
27 weeks and over	670	468	10.4	7.7	621	441	11.7	8.7
27 to 51 weeks	300	246	4.7	4.0	282	229	5.3	4.5
52 weeks and over	369	222	5.7	3.6	339	212	6.4	4.2
Average (mean) duration, in weeks	11.3	9.6	--	--	12.2	10.3	--	--
Median duration, in weeks	5.1	5.2	--	--	5.5	5.4	--	--

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			July 1978	July 1979	July 1978	July 1979
	JULY 1979								July 1978	July 1979	July 1978	July 1979
Total, 16 years and over	6,104	2,979	2,147	510	468	9.6	5.2	49.3	48.8	19.0	16.0
16 to 21 years	2,454	1,328	940	105	82	6.9	4.6	52.8	54.1	10.0	7.6
16 to 19 years	1,801	1,006	684	57	54	6.5	4.5	54.0	55.9	7.4	6.2
20 to 24 years	1,411	725	494	129	73	8.5	4.9	49.6	51.4	18.2	14.3
25 to 34 years	1,345	597	490	146	112	9.9	5.8	51.3	44.4	21.9	19.2
35 to 44 years	627	275	192	62	99	13.4	6.2	49.2	43.9	26.1	25.6
45 to 54 years	499	207	174	69	49	11.5	6.8	34.6	41.5	30.7	23.6
55 to 64 years	335	140	91	33	71	17.9	7.0	34.0	41.8	41.6	31.0
65 years and over	86	29	33	13	11	15.5	7.2	52.8	33.8	32.7	28.5
Males, 16 years and over	3,072	1,426	1,049	292	305	10.9	5.5	46.0	46.4	22.7	19.4
16 to 21 years	1,273	681	482	62	49	7.3	4.7	52.8	53.5	11.0	8.7
16 to 19 years	938	522	355	27	34	6.8	4.5	54.3	55.6	7.9	6.5
20 to 24 years	722	354	247	77	44	9.1	5.2	47.0	49.0	20.0	16.8
25 to 34 years	613	266	205	77	64	11.0	6.0	43.6	43.4	29.7	23.1
35 to 44 years	286	109	77	35	65	16.4	7.6	42.1	38.2	39.3	35.0
45 to 54 years	250	84	85	44	37	14.8	9.8	28.5	33.5	36.7	32.4
55 to 64 years	211	76	62	21	51	20.5	8.4	33.5	36.1	40.4	34.3
65 years and over	53	16	18	11	8	19.4	8.8	48.8	(1)	37.9	(1)
Females, 16 years and over	3,032	1,553	1,098	218	163	8.3	4.9	52.3	51.2	15.6	12.6
16 to 21 years	1,181	647	458	43	32	6.5	4.6	52.8	54.8	9.0	6.4
16 to 19 years	863	484	329	30	19	6.2	4.5	53.6	56.1	7.0	5.8
20 to 24 years	689	371	237	52	29	7.9	4.6	52.0	53.8	16.6	11.7
25 to 34 years	732	331	284	69	48	9.1	5.7	57.1	45.2	16.0	15.9
35 to 44 years	341	166	115	27	33	10.9	5.3	54.1	48.7	17.0	17.6
45 to 54 years	249	124	99	25	11	8.1	5.1	39.6	49.6	25.7	14.7
55 to 64 years	124	64	29	12	19	13.4	4.9	38.9	51.4	43.4	25.4
65 years and over	34	13	15	2	3	9.4	6.0	(1)	(1)	(1)	(1)
White, 16 years and over	4,578	2,270	1,574	397	337	9.5	5.1	51.6	49.6	18.3	16.0
Males	2,338	1,096	787	243	225	10.9	5.5	47.6	46.4	22.9	19.9
Females	2,241	1,185	787	157	112	8.0	4.7	55.4	52.9	14.1	12.0
Black and other, 16 years and over	1,526	709	573	113	131	9.9	5.5	42.8	46.5	20.7	16.0
Males	735	341	262	52	80	10.8	5.6	41.3	46.4	22.2	17.9
Females	791	368	311	60	51	9.2	5.4	44.0	46.6	19.5	14.1
Males, 16 years and over:											
Married, spouse present	1,026	437	324	126	140	12.8	6.2	41.6	42.6	32.0	25.9
Widowed, divorced, or separated	298	120	92	38	47	14.9	7.3	43.4	40.4	32.9	28.7
Single (never married)	1,748	969	633	128	118	9.0	5.0	48.8	49.7	16.2	14.1
Females, 16 years and over:											
Married, spouse present	1,170	601	424	91	55	7.9	4.9	54.8	51.3	16.4	12.5
Widowed, divorced, or separated	539	255	174	57	54	11.2	5.6	53.2	47.3	20.2	20.5
Single (never married)	1,322	697	500	70	54	7.4	4.7	49.8	52.8	12.8	9.4

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 28 weeks	27 weeks and over			July 1978	July 1979	July 1978	July 1979
	JULY 1979										
OCCUPATION											
White-collar workers	1,715	776	643	148	149	10.2	5.7	48.9	45.2	22.2	17.3
Professional and managerial	655	264	258	65	68	11.5	6.6	45.2	40.3	22.7	20.5
Sales workers	220	109	76	21	13	8.8	5.1	50.6	49.5	28.3	15.7
Clerical workers	840	403	309	61	68	9.5	5.3	50.9	48.0	20.3	15.3
Blue-collar workers	2,221	1,051	716	250	205	10.5	5.4	47.6	47.3	23.4	20.5
Craft and kindred workers	511	225	181	51	55	11.2	5.8	47.5	44.0	24.4	20.7
Operatives, except transport	966	478	294	110	83	10.4	5.1	45.9	49.5	25.5	20.0
Transport equipment operatives	193	92	59	25	19	10.3	5.3	41.1	47.6	23.8	22.5
Nonfarm laborers	552	256	183	63	49	10.3	5.5	53.3	46.4	18.8	20.3
Service workers	1,014	532	342	77	63	8.6	4.8	52.9	52.5	15.6	13.8
INDUSTRY¹											
Agriculture	154	93	54	4	3	6.2	4.2	65.3	60.1	8.4	4.7
Construction	426	203	123	55	45	10.7	5.5	52.0	47.6	23.6	23.6
Manufacturing	1,271	613	379	153	126	11.1	5.4	43.4	48.2	26.5	21.9
Durable goods	722	349	197	90	87	12.1	5.4	39.8	48.3	28.6	24.5
Non-durable goods	549	265	182	63	39	9.8	5.4	47.5	48.2	24.0	18.6
Transportation and public utilities	238	97	89	22	31	11.9	6.3	49.4	40.6	22.7	22.0
Wholesale and retail trade	1,183	563	455	92	72	8.9	5.3	51.7	47.6	20.3	13.9
Finance and service industries	1,499	732	546	120	100	9.0	5.3	51.1	48.8	18.6	14.7
Public administration	157	74	52	9	22	11.7	5.6	40.3	47.0	24.1	19.9
No previous work experience	1,040	551	408	31	50	8.0	4.7	48.7	53.0	9.8	7.8

¹ Includes wage and salary workers only.

A-20. Employed persons by sex and age

[In thousands]

Age and type of industry	Total		Males		Females	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
	All industries	96,202	98,891	57,324	58,350	38,877	40,541
16 to 19 years	9,937	9,879	5,444	5,384	4,493	4,496
16 to 17 years	4,328	4,275	2,415	2,384	1,913	1,890
18 to 19 years	5,609	5,605	3,029	3,000	2,580	2,605
20 to 24 years	14,146	14,611	7,834	8,041	6,312	6,570
25 to 54 years	58,080	60,282	35,287	36,135	22,793	24,147
25 to 34 years	24,214	25,424	14,730	15,249	9,484	10,175
35 to 44 years	17,696	18,612	10,711	11,078	6,985	7,534
45 to 54 years	16,170	16,245	9,846	9,808	6,324	6,437
55 to 64 years	11,132	11,221	6,919	6,927	4,212	4,294
55 to 59 years	6,981	6,985	4,286	4,279	2,695	2,706
60 to 64 years	4,151	4,236	2,634	2,649	1,517	1,587
65 years and over	2,906	2,898	1,839	1,863	1,066	1,035
Nonagricultural industries	92,204	95,034	54,222	55,382	37,982	39,651
16 to 19 years	9,299	9,290	4,941	4,936	4,357	4,354
16 to 17 years	3,946	3,933	2,115	2,127	1,831	1,806
18 to 19 years	5,353	5,357	2,827	2,809	2,527	2,548
20 to 24 years	13,670	14,113	7,440	7,652	6,231	6,461
25 to 54 years	56,145	58,386	33,876	34,741	22,270	23,645
25 to 34 years	23,496	24,697	14,204	14,684	9,291	10,013
35 to 44 years	17,135	18,081	10,308	10,706	6,827	7,374
45 to 54 years	15,515	15,608	9,363	9,351	6,152	6,258
55 to 64 years	10,565	10,699	6,461	6,496	4,104	4,204
55 to 59 years	6,694	6,730	4,062	4,070	2,632	2,660
60 to 64 years	3,871	3,969	2,398	2,425	1,473	1,544
65 years and over	2,525	2,546	1,505	1,558	1,020	988
Agriculture	3,997	3,857	3,102	2,968	895	890
16 to 19 years	639	589	503	447	136	142
16 to 17 years	383	341	300	257	83	84
18 to 19 years	256	248	202	190	53	58
20 to 24 years	476	498	394	389	82	109
25 to 54 years	1,935	1,896	1,411	1,395	523	502
25 to 34 years	718	728	526	566	192	162
35 to 44 years	561	532	403	371	158	160
45 to 54 years	655	637	483	457	173	180
55 to 64 years	567	522	459	432	108	90
55 to 59 years	287	255	224	208	63	46
60 to 64 years	280	267	235	223	45	44
65 years and over	381	353	335	305	47	47

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	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
	TOTAL	96,202	98,891	51,880	52,966	34,384	36,045	5,444	5,384	4,493	4,496
White-collar workers	46,896	49,155	21,946	22,539	22,070	23,594	744	822	2,125	2,200
Professional and technical	13,712	14,491	7,896	8,280	5,540	5,956	135	117	142	138
Health workers	2,640	2,840	947	958	1,670	1,865	5	1	18	16
Teachers, except college	2,286	2,436	627	697	1,640	1,715	5	8	14	16
Other professional and technical	8,786	9,215	6,322	6,625	2,230	2,376	125	108	110	106
Managers and administrators, except farm	10,233	10,696	7,754	7,979	2,378	2,589	59	74	43	55
Salaried workers	8,331	8,739	6,310	6,491	1,928	2,126	53	67	42	54
Self-employed workers in retail trade	906	893	611	600	292	291	2	2	1	--
Self-employed workers, except retail trade	995	1,065	833	888	158	172	4	4	--	1
Sales workers	6,053	6,223	3,148	3,123	2,202	2,344	238	286	464	470
Retail trade	3,282	3,228	1,054	984	1,612	1,595	190	221	427	429
Other industries	2,771	2,995	2,095	2,139	591	749	48	66	37	41
Clerical workers	16,888	17,744	3,148	3,157	11,950	12,705	312	345	1,477	1,537
Stenographers, typists, and secretaries	4,803	4,846	90	49	4,273	4,393	4	17	436	387
Other clerical workers	12,085	12,898	3,058	3,108	7,677	8,312	308	328	1,041	1,150
Blue-collar workers	32,843	33,534	23,905	24,405	5,234	5,422	3,147	3,172	557	535
Craft and kindred workers	12,755	13,397	11,467	11,877	629	683	607	779	53	58
Carpenters	1,375	1,427	1,269	1,270	10	15	96	137	1	4
Construction craft, except carpenters	2,752	2,917	2,501	2,620	42	49	192	231	17	17
Mechanics and repairers	3,326	3,554	3,122	3,252	37	40	166	258	1	4
Metal craft	1,168	1,274	1,087	1,196	35	32	43	46	2	--
Blue-collar worker supervisors, not elsewhere classified	1,673	1,725	1,503	1,544	163	156	6	16	--	8
All other	2,460	2,501	1,984	1,998	341	392	104	91	31	24
Operatives, except transport	11,058	11,038	5,874	5,892	4,014	4,086	840	725	330	335
Durable goods manufacturing	4,911	4,987	3,020	3,006	1,490	1,641	288	226	112	114
Nondurable goods manufacturing	3,487	3,492	1,333	1,350	1,886	1,867	133	135	134	141
Other industries	2,660	2,559	1,520	1,536	638	578	419	364	83	81
Transport equipment operatives	3,490	3,614	3,086	3,146	187	225	205	222	12	21
Drivers, motor vehicles	2,956	3,085	2,593	2,690	176	202	177	176	11	18
All other	534	529	493	456	11	23	29	46	2	4
Nonfarm laborers	5,540	5,485	3,478	3,491	404	429	1,495	1,445	162	120
Construction	1,197	1,113	813	781	20	15	350	312	13	5
Manufacturing	1,168	1,123	829	822	151	130	170	156	19	16
Other industries	3,175	3,249	1,836	1,888	234	285	975	977	130	99
Service workers	13,133	13,032	3,848	3,901	6,449	6,445	1,135	1,038	1,701	1,649
Private household workers	1,163	1,071	11	10	835	786	10	14	307	262
Service workers, except private household	11,970	11,961	3,839	3,891	5,614	5,659	1,125	1,025	1,394	1,387
Food service workers	4,432	4,327	781	758	2,089	2,129	625	586	937	853
Protective service workers	1,366	1,399	1,225	1,262	104	107	31	23	6	7
All other	6,172	6,235	1,832	1,871	3,421	3,423	469	416	451	527
Farm workers	3,339	3,170	2,181	2,122	630	584	417	352	110	112
Farmers and farm managers	1,612	1,547	1,430	1,365	168	160	13	21	1	2
Farm laborers and supervisors	1,727	1,622	752	757	462	424	404	331	109	110
Paid workers	1,262	1,218	706	710	166	161	321	252	68	94
Unpaid family workers	466	404	45	47	296	263	84	79	41	16

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979
TOTAL						
Total, 16 years and over (thousands)	96,202	98,891	57,324	58,350	38,877	40,541
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	48.7	49.7	39.6	40.0	62.2	63.6
Professional and technical	14.3	14.7	14.0	14.4	14.6	15.0
Managers and administrators, except farm	10.6	10.8	13.6	13.8	6.2	6.5
Sales workers	6.3	6.3	5.9	5.8	6.9	6.9
Clerical workers	17.6	17.9	6.0	6.0	34.5	35.1
Blue-collar workers	34.1	33.9	47.2	47.3	14.9	14.7
Craft and kindred workers	13.3	13.5	21.1	21.7	1.8	1.8
Operatives, except transport	11.5	11.2	11.7	11.3	11.2	10.9
Transport equipment operatives	3.6	3.7	5.7	5.8	.5	.6
Nonfarm laborers	5.8	5.5	8.7	8.5	1.5	1.4
Service workers	13.7	13.2	8.7	8.5	21.0	20.0
Private household workers	1.2	1.1	(1)	(1)	2.9	2.6
Other service workers	12.4	12.1	8.7	8.4	18.0	17.4
Farm workers	3.5	3.2	4.5	4.2	1.9	1.7
Farmers and farm managers	1.7	1.6	2.5	2.4	.4	.4
Farm laborers and supervisors	1.8	1.6	2.0	1.9	1.5	1.3
White						
Total, 16 years and over (thousands)	95,410	87,607	51,489	52,323	33,921	35,284
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.5	51.2	41.1	41.6	64.7	65.6
Professional and technical	14.7	15.0	14.5	14.9	14.9	15.2
Managers and administrators, except farm	11.4	11.6	14.5	14.7	6.7	7.0
Sales workers	6.7	6.8	6.2	6.2	7.4	7.6
Clerical workers	17.7	17.9	5.8	5.8	35.8	35.8
Blue-collar workers	33.7	33.5	46.4	46.5	14.3	14.2
Craft and kindred workers	13.8	14.1	21.7	22.2	1.8	1.9
Operatives, except transport	11.0	10.7	11.3	10.9	10.6	10.4
Transport equipment operatives	3.4	3.5	5.4	5.4	.5	.6
Nonfarm laborers	5.4	5.2	8.0	7.8	1.4	1.3
Service workers	12.3	12.0	7.9	7.6	19.0	18.4
Private household workers	.9	.8	(1)	(1)	2.3	2.0
Other service workers	11.4	11.1	7.9	7.6	16.7	16.4
Farm workers	3.6	3.3	4.6	4.3	2.0	1.8
Farmers and farm managers	1.8	1.7	2.7	2.6	.5	.4
Farm laborers and supervisors	1.7	1.6	1.9	1.7	1.5	1.3
Black and other						
Total, 16 years and over (thousands)	10,791	11,284	5,835	6,027	4,956	5,257
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	35.1	37.7	26.3	26.5	45.5	50.7
Professional and technical	11.1	11.7	9.5	9.9	13.0	13.7
Managers and administrators, except farm	4.6	5.0	5.9	6.3	3.1	3.5
Sales workers	3.2	2.6	3.1	2.5	3.3	2.7
Clerical workers	16.2	18.4	7.8	7.8	26.1	30.6
Blue-collar workers	37.9	37.3	54.3	54.2	18.7	17.8
Craft and kindred workers	9.0	9.5	15.6	16.9	1.2	1.1
Operatives, except transport	15.3	14.7	15.2	14.7	15.4	14.6
Transport equipment operatives	5.1	4.9	9.0	8.8	.5	.5
Nonfarm laborers	8.6	8.1	14.5	13.9	1.6	1.5
Service workers	24.2	22.5	15.5	15.7	34.4	30.3
Private household workers	3.5	3.0	(1)	.1	7.5	6.5
Other service workers	20.7	19.4	15.5	15.6	26.9	23.9
Farm workers	2.7	2.5	3.9	3.6	1.4	1.2
Farmers and farm managers	.5	.4	.8	.7	.1	.1
Farm laborers and supervisors	2.3	2.1	3.1	2.9	1.3	1.2

¹ Less than 0.05 percent.

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

[In thousands]

Age and sex	July 1979								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	37,563	1,278	14,844	71,441	6,935	536	1,752	1,686	420
16 to 19 years	9,121	381	900	7,840	113	56	454	38	96
16 to 17 years	3,844	296	416	3,132	51	19	253	20	67
18 to 19 years	5,278	85	484	4,709	62	17	201	18	29
20 to 24 years	13,665	109	1,500	12,055	418	31	343	103	52
25 to 34 years	23,034	120	4,141	18,773	1,564	99	378	298	51
35 to 44 years	16,310	128	3,223	12,959	1,614	156	200	260	71
45 to 54 years	13,909	190	2,812	10,906	1,608	91	181	375	80
55 to 64 years	9,530	190	1,961	7,379	1,083	87	121	355	46
65 to 69 years	6,005	95	1,229	4,682	667	58	62	167	25
70 to 74 years	3,524	95	732	2,697	416	29	58	188	21
75 years and over	1,994	160	306	1,528	535	16	74	256	23
Males, 16 years and over	50,369	209	7,623	42,536	4,946	68	1,342	1,500	125
16 to 19 years	4,824	113	429	4,282	71	41	332	37	79
16 to 17 years	2,071	86	209	1,776	28	29	184	20	53
18 to 19 years	2,754	27	221	2,506	43	12	148	17	26
20 to 24 years	7,352	27	670	6,655	288	12	265	94	30
25 to 34 years	13,567	16	2,123	11,428	1,108	8	304	258	4
35 to 44 years	9,572	9	1,671	7,892	1,134	--	141	225	5
45 to 54 years	8,188	11	1,511	6,666	1,163	--	137	316	4
55 to 64 years	5,694	9	1,036	4,649	797	4	99	332	1
65 to 69 years	3,593	7	640	2,946	476	1	54	154	--
70 to 74 years	2,101	2	396	1,703	321	3	45	178	1
75 years and over	1,171	23	183	966	384	3	64	238	4
Females, 16 years and over	37,194	1,069	7,221	28,904	1,989	468	409	186	295
16 to 19 years	4,297	268	471	3,559	42	15	123	1	18
16 to 17 years	1,773	210	208	1,356	23	10	70	--	14
18 to 19 years	2,524	58	263	2,203	19	5	53	1	4
20 to 24 years	6,313	82	830	5,400	129	19	77	9	22
25 to 34 years	9,467	104	2,018	7,345	455	91	74	41	47
35 to 44 years	6,739	119	1,553	5,067	480	156	59	35	66
45 to 54 years	5,721	179	1,301	4,241	446	91	44	59	77
55 to 64 years	3,835	180	925	2,733	286	83	22	23	46
65 to 69 years	2,412	87	588	1,736	191	57	8	13	25
70 to 74 years	1,423	93	336	994	95	26	14	10	20
75 years and over	823	137	123	563	151	13	10	18	13

A-24. Employed persons by industry and occupation

[In thousands]

Industry	July 1979											
	Total employed	White-collar workers				Blue-collar workers			Service workers		Farm workers	
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers		Other service workers
Total, 16 years and over:												
Agriculture	3,357	104	28	6	100	55	16	48	319	--	12	3,170
Mining	852	100	69	7	107	222	248	64	27	--	7	--
Construction	6,889	182	754	24	442	3,820	290	232	1,113	--	32	--
Manufacturing	22,389	2,349	1,602	533	2,648	4,373	8,479	820	1,123	--	462	--
Durable goods	13,596	1,635	968	174	1,607	2,895	4,987	402	694	--	235	--
Nondurable goods	8,793	714	634	360	1,041	1,478	3,492	418	429	--	227	--
Transportation and public utilities	6,539	590	622	66	1,498	1,363	177	1,460	582	--	190	--
Wholesale and retail trade	19,987	387	3,893	4,122	3,437	1,554	1,058	692	1,177	--	3,661	--
Wholesale trade	3,943	143	780	893	815	388	225	365	299	--	36	--
Retail trade	16,044	244	3,118	3,228	2,623	1,166	833	328	878	--	3,625	--
Finance, insurance, and real estate	5,905	311	1,099	1,282	2,657	137	4	14	129	--	272	--
Services	27,139	9,423	1,981	179	5,016	1,540	736	231	790	1,071	6,173	--
Private households	1,327	9	--	--	8	8	1	6	193	1,071	32	--
Other service industries	25,812	9,414	1,981	179	5,008	1,532	735	225	597	--	6,141	--
Public administration	5,333	1,044	643	5	1,849	334	30	51	224	--	1,154	--

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

[In thousands]

Reason not working	All industries		Nonegricultural industries					
			Total		Wage and salary workers ¹			
	July 1978				July 1979		Paid absences ²		Unpaid absences^{2}
			July 1978	July 1979			July 1978	July 1979	July 1978	July 1979
Total, 16 years and over	11,474	11,621	11,319	11,475	6,837	6,872	3,829	3,957
Vacation	9,236	9,305	9,163	9,233	6,131	6,156	2,641	2,700
Illness	1,388	1,356	1,351	1,326	540	549	692	677
Bad weather	34	52	19	37	--	--	--	--
Industrial disputes	86	110	86	109	--	--	--	--
All other reasons	731	799	700	770	166	167	496	580
Males, 16 years and over	5,619	5,740	5,484	5,625	3,798	3,852	1,345	1,415
Vacation	4,363	4,442	4,299	4,387	3,370	3,425	726	756
Illness	826	815	793	790	335	335	390	390
All other reasons ³	429	483	392	448	93	93	228	269
Females, 16 years and over	5,854	5,881	5,834	5,850	3,038	3,019	2,482	2,542
Vacation	4,872	4,863	4,865	4,845	2,760	2,731	1,914	1,944
Illness	561	541	557	537	205	214	302	287
All other reasons ³	420	478	412	469	72	74	267	311

¹ Excludes private household.

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

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

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

Hours of work	July 1979					
	Thousands of persons			Percent distribution		
	All industries	Nonegricultural industries	Agriculture	All industries	Nonegricultural industries	Agriculture
Total, 16 years and over	87,270	83,558	3,712	100.0	100.0	100.0
1-34 hours	19,307	18,373	934	22.1	22.0	25.2
1-4 hours	618	573	45	.7	.7	1.2
5-14 hours	3,113	2,909	204	3.6	3.5	5.5
15-29 hours	9,700	9,229	471	11.1	11.0	12.7
30-34 hours	5,876	5,662	214	6.7	6.8	5.8
36 hours and over	67,964	65,185	2,777	77.9	78.0	74.8
36-39 hours	6,242	6,111	131	7.2	7.3	3.5
40 hours	37,161	36,593	568	42.6	43.8	15.3
41 hours and over	24,561	22,481	2,078	28.1	26.9	56.0
41 to 48 hours	9,328	9,044	283	10.7	10.8	7.6
49 to 59 hours	8,198	7,691	506	9.4	9.2	13.6
60 hours and over	7,035	5,746	1,289	8.1	6.9	34.7
Average hours, total at work	39.8	39.3	48.6	--	--	--
Average hours, workers on full-time schedules	43.5	43.0	55.9	--	--	--

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	July 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	19,307	6,444	12,862	18,373	6,177	12,196
Economic reasons	4,147	1,369	2,778	3,931	1,296	2,635
Slack work	1,541	913	628	1,432	858	574
Material shortages or repairs to plant and equipment	96	96	--	91	91	--
New job started during week	263	263	--	250	250	--
Job terminated during week	97	97	--	97	97	--
Could find only part-time work	2,150	--	2,150	2,061	--	2,061
Other reasons	15,162	5,077	10,085	14,444	4,883	9,561
Does not want, or unavailable for, full-time work	7,591	--	7,591	7,245	--	7,245
Vacation	1,593	1,593	--	1,569	1,569	--
Illness	1,391	1,242	149	1,350	1,217	133
Bad weather	481	481	--	407	407	--
Industrial dispute	40	40	--	40	40	--
Legal or religious holiday	120	120	--	119	119	--
Full time for this job	1,718	--	1,718	1,622	--	1,622
All other reasons	2,227	1,600	627	2,090	1,529	561
Average hours:						
Economic reasons	21.3	23.6	20.2	21.5	23.6	20.4
Other reasons	21.9	25.8	20.0	22.0	25.9	20.0
Worked 30 to 34 hours:						
Economic reasons	1,124	546	578	1,085	524	561
Other reasons	4,752	2,588	2,164	4,577	2,511	2,066

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

[Numbers in thousands]

Industry	July 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 ¹	83,558	3,931	9,561	70,066	47,585	9,044	13,437	39.3	43.0	
Wage and salary workers	76,664	3,551	8,346	64,767	45,330	8,495	10,942	39.1	42.5	
Construction	5,318	317	248	4,753	3,368	551	834	39.7	41.9	
Manufacturing	18,827	421	513	17,893	12,398	2,713	2,782	41.4	42.8	
Durable goods	11,445	146	197	11,102	7,660	1,770	1,672	41.8	42.4	
Nondurable goods	7,383	275	316	6,792	4,739	943	1,110	40.8	42.4	
Transportation and public utilities	5,591	149	240	5,202	3,366	684	1,152	42.5	44.1	
Wholesale and retail trade	16,462	1,339	3,023	12,100	7,641	2,034	2,425	37.6	43.3	
Finance, insurance, and real estate	5,016	133	442	4,441	3,365	483	593	38.9	41.3	
Service industries	19,977	1,085	3,630	15,162	11,342	1,494	2,326	36.6	41.9	
Private households	1,208	199	622	387	275	31	81	23.6	43.6	
All other industries	18,669	886	3,008	14,775	11,067	1,463	2,245	37.4	41.9	
Public administration	4,920	93	242	4,585	3,500	449	636	40.5	42.0	
Self-employed workers	6,359	360	1,011	4,988	2,111	507	2,370	42.2	48.9	
Unpaid family workers	536	20	204	312	144	43	125	37.7	48.5	

¹ Includes mining, not shown separately.

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

[Numbers in thousands]

Sex, age, race, and marital status	July 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		
TOTAL								
Both sexes, 16 years and over	83,558	3,931	9,561	70,066	47,585	22,481	39.3	43.0
16 to 21 years	14,155	1,789	2,816	9,550	7,259	2,291	34.5	41.1
16 to 19 years	8,792	1,385	2,212	5,195	4,066	1,129	32.4	40.6
16 to 17 years	3,730	808	1,349	1,573	1,274	299	28.2	40.0
18 to 19 years	5,063	577	863	3,623	2,793	830	35.5	40.9
20 years and over	74,766	2,546	7,349	64,871	43,519	21,352	40.1	43.2
20 to 24 years	13,129	773	1,709	11,147	8,026	3,121	38.8	41.8
25 years and over	61,637	1,773	6,140	53,724	35,492	18,232	40.4	43.4
25 to 44 years	37,151	1,102	2,911	33,138	21,546	11,592	41.0	43.5
45 to 64 years	22,294	583	2,155	19,556	13,236	6,320	40.6	43.4
65 years and over	2,191	88	1,074	1,029	708	321	29.0	42.9
Males, 16 years and over	49,758	1,869	2,755	45,134	27,388	17,746	42.2	44.4
16 to 21 years	7,566	915	1,144	5,507	3,837	1,670	36.2	42.1
16 to 19 years	4,699	744	938	3,017	2,191	826	34.0	41.6
16 to 17 years	2,028	470	598	960	741	219	29.4	40.3
18 to 19 years	2,672	274	340	2,058	1,450	608	37.5	42.2
20 years and over	45,058	1,125	1,817	42,116	25,197	16,919	43.0	44.6
20 to 24 years	7,148	317	385	6,446	4,167	2,279	40.9	43.1
25 years and over	37,911	807	1,432	35,672	21,032	14,640	43.4	44.9
25 to 44 years	22,746	498	421	21,827	12,529	9,298	44.1	45.1
45 to 64 years	13,786	259	390	13,137	8,027	5,110	43.6	44.7
65 years and over	1,379	50	622	707	477	230	30.1	42.9
Females, 16 years and over	33,801	2,062	6,806	24,933	20,197	4,736	35.1	40.4
16 to 21 years	6,589	874	1,671	4,044	3,423	621	32.4	39.6
16 to 19 years	4,093	641	1,274	2,178	1,874	304	30.6	39.3
16 to 17 years	1,702	337	751	614	534	80	26.7	39.4
18 to 19 years	2,391	304	523	1,564	1,340	224	33.4	39.2
20 years and over	29,708	1,422	5,532	22,754	18,321	4,433	35.8	40.5
20 to 24 years	5,982	456	824	4,702	3,861	841	36.2	40.1
25 years and over	23,725	965	4,708	18,052	14,461	3,591	35.7	40.5
25 to 44 years	14,405	605	2,490	11,310	9,020	2,290	36.1	40.4
45 to 64 years	8,509	323	1,765	6,421	5,211	1,210	35.7	40.7
65 years and over	812	38	452	322	232	90	27.0	42.9
RACE								
White	73,955	3,260	8,598	62,097	41,164	20,933	39.6	43.2
Males	44,572	1,563	2,433	40,576	23,959	16,617	42.5	44.6
Females	29,383	1,698	6,165	21,520	17,204	4,316	35.1	40.5
Black and other	9,603	671	963	7,969	6,420	1,549	37.6	41.2
Males	5,186	307	322	4,557	3,428	1,129	39.6	42.4
Females	4,418	364	641	3,413	2,992	421	35.3	39.6
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	33,137	600	1,095	31,442	18,127	13,315	43.8	45.1
Widowed, divorced, or separated	3,791	167	193	3,431	2,096	1,335	42.2	44.4
Single (never married)	12,829	1,102	1,467	10,260	7,165	3,095	38.1	42.5
Females, 16 years and over:								
Married, spouse present	17,442	739	4,041	12,662	10,209	2,453	34.9	40.4
Widowed, divorced, or separated	6,352	323	901	5,128	4,048	1,080	36.9	40.9
Single (never married)	10,007	1,001	1,865	7,141	5,940	1,201	34.5	39.9

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

[Numbers in thousands]

Occupational group and sex	July 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
Total, 16 years and over	84,203	3,973	9,653	70,577	47,826	9,133	13,618	39.3	40.0
White-collar workers	42,951	1,317	5,088	36,546	24,550	4,270	7,726	39.8	43.2
Professional and technical	11,494	225	1,212	10,057	6,827	1,134	2,096	40.2	43.2
Managers and administrators, except farm	9,772	129	398	9,245	4,352	1,261	3,632	46.0	47.4
Sales workers	5,706	351	1,124	4,231	2,576	564	1,091	37.4	43.6
Clerical workers	15,979	512	2,353	13,014	10,795	1,311	908	36.6	40.1
Blue-collar workers	29,567	1,530	1,615	26,422	17,581	4,040	4,801	40.6	42.9
Craft and kindred workers	12,044	193	426	11,225	7,044	1,870	2,311	41.8	43.3
Operatives, except transport	9,262	474	393	8,395	6,124	1,206	1,065	40.1	41.9
Transport equipment operatives	3,169	150	147	2,872	1,474	459	939	44.1	46.6
Nonfarm laborers	5,092	512	649	3,931	2,941	505	485	36.4	41.3
Service workers	11,685	1,126	2,950	7,609	5,695	823	1,091	34.5	42.2
Private household	1,008	131	519	358	243	32	83	25.5	44.4
Other service workers	10,677	995	2,431	7,251	5,453	790	1,008	35.3	42.1
Males, 16 years and over	50,228	1,906	2,808	45,514	27,561	6,491	11,462	42.2	41.8
White-collar workers	21,082	410	1,060	19,612	10,870	2,522	6,220	43.9	45.7
Professional and technical	7,245	121	383	6,741	4,223	766	1,752	42.8	44.6
Managers and administrators, except farm	7,424	92	166	7,166	3,074	960	3,132	47.4	48.4
Sales workers	3,187	106	256	2,825	1,508	405	912	42.1	44.9
Clerical workers	3,226	91	254	2,881	2,065	392	424	39.9	42.2
Blue-collar workers	24,643	1,189	1,131	22,323	14,211	3,551	4,561	41.3	43.5
Craft and kindred workers	11,386	371	326	10,689	6,625	1,796	2,268	42.1	43.5
Operatives, except transport	5,659	220	141	5,296	3,514	858	924	41.9	43.2
Transport equipment operatives	3,004	137	107	2,760	1,402	439	919	44.6	46.8
Nonfarm laborers	4,594	462	555	3,577	2,668	459	450	36.6	41.4
Service workers	4,503	307	617	3,579	2,480	418	681	38.8	43.7
Private household	23	3	12	8	5	1	2	23.2	49.2
Other service workers	4,480	303	605	3,572	2,476	417	679	38.9	43.6
Females, 16 years and over	33,974	2,068	6,845	25,061	20,265	2,641	2,155	35.2	36.9
White-collar workers	21,869	907	4,028	16,934	13,681	1,747	1,506	35.9	40.4
Professional and technical	4,249	105	829	3,315	2,603	368	344	35.7	40.4
Managers and administrators, except farm	2,349	36	232	2,081	1,281	301	499	41.3	44.2
Sales workers	2,519	245	868	1,406	1,068	159	179	31.5	40.9
Clerical workers	12,753	521	2,099	10,133	8,729	920	484	35.8	39.5
Blue-collar workers	4,923	341	484	4,098	3,370	489	239	36.9	39.9
Craft and kindred workers	658	23	100	535	417	74	44	36.9	40.8
Operatives, except transport	3,603	254	250	3,099	2,610	348	141	37.3	39.6
Transport equipment operatives	165	14	39	112	72	20	20	34.8	42.5
Nonfarm laborers	498	50	95	353	271	46	36	34.4	40.6
Service workers	7,182	820	2,333	4,029	3,214	405	410	31.8	40.9
Private household	985	128	507	350	239	31	80	25.5	44.3
Other service workers	6,197	692	1,826	3,679	2,977	373	329	32.8	40.6

HOUSEHOLD DATA

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

[Numbers in thousands]

Employment status	July 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,930	4,035	3,895	6,621	3,377	3,244	1,309	658	651
Civilian labor force	2,648	1,505	1,143	2,285	1,299	986	363	206	157
Employed	2,203	1,253	950	1,983	1,118	865	220	135	85
Agriculture	313	254	59	290	237	53	23	17	6
Nonagricultural industries	1,890	999	890	1,692	881	812	197	118	79
Unemployed	445	252	193	303	181	121	14	70	72
Unemployment rate	16.8	16.7	16.9	13.3	13.9	12.3	39.4	34.0	45.9
Not in labor force	5,282	2,530	2,752	4,336	2,078	2,258	946	452	494
Keeping house	344	28	316	274	22	252	70	6	65
Going to school	424	217	208	330	166	164	94	51	43
Unable to work	14	6	8	14	6	8	--	--	--
All other reasons	4,499	2,279	2,220	3,717	1,883	1,834	782	396	386

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

Characteristics	July 1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	2,203	1,253	950	100.0	100.0	100.0
Nonagricultural industries	1,890	999	890	85.8	79.7	93.9
Wage and salary workers	1,758	921	837	79.8	73.5	88.3
Private household workers	605	205	400	27.5	16.4	42.2
Government workers	236	140	96	10.7	11.2	10.1
Other wage and salary workers	916	576	340	41.6	46.0	35.9
Self-employed workers	103	62	41	4.7	4.9	4.3
Unpaid family workers	29	16	12	1.3	1.3	1.3
Agriculture	313	254	59	14.2	20.3	6.2
Wage and salary workers	183	146	36	8.3	11.7	3.8
Self-employed workers	50	45	5	2.3	3.6	.5
Unpaid family workers	81	63	18	3.7	5.0	1.9
OCCUPATION						
Total	2,203	1,253	950	100.0	100.0	100.0
White-collar workers	410	241	170	18.6	19.2	17.9
Professional and technical	34	12	23	1.5	1.0	2.4
Managers and administrators, except farm	--	--	--	--	--	--
Sales workers	259	204	55	11.8	16.3	5.8
Clerical workers	117	25	92	5.3	2.0	9.7
Blue-collar workers	647	573	74	29.4	45.7	7.8
Craft and kindred workers	52	49	2	2.4	3.9	.2
Operatives, except transport	64	39	25	2.9	3.1	2.6
Transport equipment operatives	17	15	2	.8	1.2	.2
Nonfarm laborers	514	470	44	23.3	37.5	4.6
Service workers	893	243	651	40.5	19.4	68.6
Private household workers	434	28	405	19.7	2.2	42.7
Other service workers	460	215	245	20.9	17.1	25.8
Farm workers	252	197	56	11.4	15.7	5.9
Farmers and farm managers	12	8	4	.5	.6	.4
Farm laborers and supervisors	240	189	52	10.9	15.1	5.5

**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						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
TOTAL													
Total noninstitutional population ¹	161,140	161,348	161,570	161,829	162,033	162,250	162,448	162,633	162,909	163,008	163,260	163,469	163,685
Armed Forces ¹	2,116	2,122	2,123	2,122	2,117	2,108	2,094	2,094	2,090	2,082	2,078	2,076	2,082
Civilian noninstitutional population ¹	159,022	159,226	159,447	159,707	159,916	160,142	160,353	160,539	160,819	160,926	161,182	161,393	161,604
Civilian labor force	100,622	100,663	100,974	101,077	101,628	101,867	102,183	102,527	102,714	102,111	102,247	102,528	103,059
Percent of civilian population	63.3	63.2	63.3	63.3	63.6	63.6	63.7	63.9	63.9	63.5	63.4	63.5	63.8
Employed	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210
Percent of total population	58.6	58.7	58.8	58.9	59.1	59.1	59.3	59.4	59.4	59.0	59.0	59.2	59.4
Agriculture	3,377	3,351	3,406	3,374	3,275	3,397	3,232	3,311	3,343	3,186	3,184	3,260	3,262
Nonagricultural industries	91,069	91,372	91,604	91,867	92,476	92,468	93,068	93,335	93,499	92,987	93,134	93,494	93,949
Unemployed	6,176	5,940	5,964	5,836	5,777	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848
Unemployment rate	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7
Not in labor force	58,410	58,563	58,473	58,630	58,288	58,275	58,170	58,012	58,105	58,815	58,935	58,865	58,545
Males, 20 years and over													
Total noninstitutional population ¹	68,729	68,827	68,937	69,081	69,182	69,288	69,385	69,476	69,612	69,663	69,787	69,889	69,995
Civilian noninstitutional population ¹	67,039	67,127	67,236	67,382	67,486	67,600	67,726	67,816	67,939	67,997	68,123	68,227	68,319
Civilian labor force	53,401	53,396	53,459	53,593	53,938	54,033	54,333	54,485	54,444	54,243	54,261	54,395	54,567
Percent of civilian population	79.7	79.5	79.5	79.5	79.9	79.9	80.2	80.3	80.1	79.8	79.7	79.7	79.9
Employed	51,214	51,287	51,287	51,448	51,825	51,838	52,133	52,331	52,264	52,056	52,157	52,299	52,319
Percent of total population	74.5	74.4	74.4	74.5	74.9	74.9	75.1	75.3	75.1	74.7	74.7	74.8	74.7
Agriculture	2,396	2,357	2,409	2,363	2,337	2,403	2,293	2,324	2,355	2,271	2,274	2,306	2,323
Nonagricultural industries	48,818	48,858	48,878	49,085	49,488	49,435	49,841	50,007	49,909	49,785	49,883	49,993	49,996
Unemployed	2,187	2,181	2,172	2,145	2,113	2,195	2,200	2,154	2,180	2,187	2,105	2,096	2,249
Unemployment rate	4.1	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1
Not in labor force	13,638	13,731	13,777	13,789	13,548	13,567	13,393	13,331	13,495	13,754	13,862	13,832	13,752
Females, 20 years and over													
Total noninstitutional population ¹	75,643	75,753	75,473	75,998	76,110	76,227	76,337	76,440	76,589	76,645	76,782	76,896	77,014
Civilian noninstitutional population ¹	75,537	75,645	75,764	75,889	76,001	76,119	76,228	76,332	76,476	76,532	76,670	76,784	76,897
Civilian labor force	37,573	37,543	37,921	37,860	38,095	38,217	38,185	38,429	38,642	38,345	38,560	38,596	39,010
Percent of civilian population	49.7	49.6	50.1	49.9	50.1	50.2	50.1	50.3	50.5	50.1	50.3	50.3	50.7
Employed	35,160	35,312	35,691	35,726	35,887	35,990	36,019	36,252	36,440	36,165	36,323	36,373	36,861
Percent of total population	46.5	46.6	47.0	47.0	47.2	47.2	47.2	47.4	47.6	47.2	47.3	47.3	47.9
Agriculture	593	581	597	587	571	591	586	608	613	580	543	592	584
Nonagricultural industries	34,567	34,731	35,094	35,139	35,316	35,399	35,433	35,644	35,827	35,584	35,780	35,781	36,276
Unemployed	2,413	2,231	2,230	2,134	2,208	2,227	2,166	2,177	2,201	2,180	2,237	2,223	2,150
Unemployment rate	6.4	5.9	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5
Not in labor force	37,964	38,102	37,843	38,029	37,906	37,902	38,043	37,903	37,834	38,187	38,110	38,188	37,887
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,776	16,768	16,760	16,750	16,741	16,734	16,725	16,717	16,709	16,700	16,692	16,684	16,677
Civilian noninstitutional population ¹	16,455	16,455	16,446	16,436	16,429	16,422	16,400	16,391	16,404	16,397	16,389	16,381	16,387
Civilian labor force	9,648	9,724	9,594	9,624	9,595	9,617	9,665	9,613	9,628	9,523	9,426	9,537	9,481
Percent of civilian population	58.6	59.1	58.3	58.6	58.4	58.6	58.9	58.6	58.7	58.1	57.5	58.2	57.9
Employed	8,072	8,196	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031
Percent of total population	48.1	48.9	47.9	48.2	48.0	48.0	48.7	48.2	48.7	47.6	47.0	48.4	48.2
Agriculture	389	413	400	424	367	393	354	380	375	335	368	362	355
Nonagricultural industries	7,684	7,783	7,632	7,643	7,672	7,634	7,794	7,684	7,763	7,618	7,471	7,720	7,676
Unemployed	1,576	1,528	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450
Unemployment rate	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3
Not in labor force	6,807	6,731	6,852	6,812	6,834	6,805	6,735	6,778	6,776	6,874	6,963	6,844	6,906

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Full- and part-time employment status	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
FULL TIME													
Total, 16 years and over:													
Civilian labor force	85,894	86,030	85,899	85,185	86,391	86,631	87,025	87,373	87,567	87,430	87,300	87,637	87,700
Employed	81,004	81,389	81,247	81,680	81,900	82,034	82,525	82,789	83,067	82,774	82,792	83,180	83,077
Unemployed	4,890	4,641	4,652	4,505	4,491	4,597	4,500	4,584	4,499	4,655	4,508	4,458	4,624
Unemployment rate	5.7	5.4	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,749	14,720	14,952	14,996	15,150	15,205	15,196	15,213	15,097	14,701	14,954	14,865	15,384
Employed	13,431	13,436	13,635	13,642	13,800	13,802	13,810	13,907	13,706	13,410	13,517	13,586	14,128
Unemployed	1,318	1,284	1,317	1,354	1,350	1,403	1,385	1,306	1,391	1,291	1,437	1,278	1,256
Unemployment rate	8.9	8.7	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2

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						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
WHITE													
Total, 16 years and over:													
Civilian labor force	88,503	88,655	88,862	89,067	89,468	89,747	90,093	90,395	90,415	89,923	90,018	90,279	90,554
Employed	83,857	84,060	84,250	84,565	85,013	85,125	85,543	85,941	85,938	85,479	85,515	85,871	86,093
Unemployed	4,646	4,595	4,612	4,502	4,455	4,622	4,550	4,453	4,478	4,444	4,503	4,409	4,460
Unemployment rate	5.2	5.2	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9
Males, 20 years and over:													
Civilian labor force	47,710	47,707	47,684	47,791	48,103	48,202	48,466	48,639	48,527	48,411	48,401	48,535	48,617
Employed	45,992	45,996	45,968	46,098	46,477	46,492	46,737	47,006	46,877	46,755	46,792	46,883	46,855
Unemployed	1,718	1,711	1,716	1,693	1,626	1,710	1,729	1,633	1,650	1,657	1,609	1,652	1,762
Unemployment rate	3.6	3.6	3.6	3.5	3.4	3.5	3.6	3.4	3.4	3.4	3.3	3.4	3.6
Females, 20 years and over:													
Civilian labor force	32,343	32,265	32,602	32,677	32,809	32,981	32,978	33,225	33,302	33,080	33,275	33,239	33,564
Employed	30,565	30,574	30,912	31,074	31,161	31,287	31,340	31,567	31,638	31,460	31,572	31,589	31,982
Unemployed	1,778	1,691	1,690	1,603	1,648	1,694	1,638	1,658	1,664	1,619	1,703	1,650	1,582
Unemployment rate	5.5	5.2	5.2	4.9	5.0	5.1	5.0	5.0	5.0	4.9	5.1	5.0	4.7
Both sexes, 16 to 19 years:													
Civilian labor force	8,450	8,683	8,576	8,599	8,556	8,564	8,649	8,531	8,586	8,432	8,342	8,505	8,373
Employed	7,300	7,490	7,370	7,393	7,375	7,346	7,466	7,368	7,422	7,264	7,151	7,398	7,257
Unemployed	1,150	1,193	1,206	1,206	1,181	1,218	1,183	1,163	1,164	1,168	1,191	1,107	1,116
Unemployment rate	13.6	13.7	14.1	14.0	13.8	14.2	13.7	13.6	13.6	13.9	14.3	13.0	13.3
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	12,010	11,994	12,084	12,122	12,163	12,153	12,077	12,228	12,251	12,175	12,176	12,272	12,364
Employed	10,533	10,616	10,721	10,749	10,746	10,758	10,725	10,775	10,878	10,734	10,767	10,883	11,025
Unemployed	1,477	1,378	1,363	1,373	1,417	1,395	1,352	1,452	1,374	1,442	1,409	1,389	1,338
Unemployment rate	12.3	11.5	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8
Males, 20 years and over:													
Civilian labor force	5,703	5,692	5,759	5,808	5,829	5,867	5,810	5,841	5,874	5,813	5,826	5,902	5,946
Employed	5,228	5,195	5,286	5,327	5,345	5,376	5,356	5,339	5,357	5,315	5,335	5,435	5,453
Unemployed	475	497	473	481	484	491	455	502	517	498	491	467	493
Unemployment rate	8.3	8.7	8.2	8.3	8.3	8.4	7.8	8.6	8.8	8.6	8.4	7.9	8.3
Females, 20 years and over:													
Civilian labor force	5,172	5,266	5,287	5,277	5,266	5,224	5,223	5,279	5,316	5,276	5,290	5,359	5,392
Employed	4,580	4,722	4,759	4,743	4,723	4,691	4,667	4,722	4,793	4,708	4,764	4,782	4,863
Unemployed	592	544	528	534	543	533	556	557	523	568	526	577	528
Unemployment rate	11.4	10.3	10.0	10.1	10.3	10.2	10.6	10.6	9.8	10.8	9.9	10.8	9.8
Both sexes, 16 to 19 years:													
Civilian labor force	1,135	1,036	1,038	1,037	1,068	1,062	1,044	1,107	1,061	1,086	1,059	1,011	1,026
Employed	725	699	676	679	678	691	703	714	727	711	668	667	709
Unemployed	410	337	362	358	390	371	341	393	334	375	391	344	317
Unemployment rate	36.1	32.5	34.9	34.5	36.5	34.9	32.7	35.5	31.5	34.5	36.9	34.0	30.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTICS													
Total (all civilian workers)	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7
Males, 20 years and over	4.1	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1
Females, 20 years and over	6.4	5.9	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5
Both sexes, 16-19 years	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3
White	5.2	5.2	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9
Black and other	12.3	11.5	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8
Married men, spouse present	2.7	2.8	2.6	2.6	2.4	2.5	2.6	2.6	2.6	2.7	2.5	2.6	2.9
Married women, spouse present	5.5	5.6	5.5	5.3	5.5	5.6	5.3	5.1	5.1	5.2	5.2	5.2	4.8
Women who head families	9.8	8.0	8.0	7.5	7.7	7.7	7.8	8.3	8.3	8.4	8.9	9.1	8.1
Full-time workers	5.7	5.4	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3
Part-time workers	9.9	8.7	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2
Unemployed 15 weeks and over ¹	1.3	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.1	1.0
Labor force time lost ²	6.8	6.5	6.4	6.2	6.2	6.2	6.2	6.2	6.1	6.5	6.3	6.3	6.4
OCCUPATION													
White-collar workers	3.7	3.5	3.5	3.3	3.2	3.5	3.3	3.4	3.4	3.3	3.2	3.4	3.2
Professional and technical	2.5	2.6	2.6	2.8	2.4	3.0	2.5	2.3	2.1	2.2	2.0	2.5	2.5
Managers and administrators, except farm	2.2	1.9	2.2	1.8	2.2	1.9	2.0	1.9	2.2	2.3	2.2	2.0	1.9
Sales workers	4.3	4.1	4.3	4.1	3.1	3.6	3.8	4.3	4.1	4.0	4.0	4.5	3.5
Clerical workers	5.3	4.9	4.7	4.2	4.5	4.6	4.6	4.7	4.9	4.5	4.6	4.6	4.4
Blue-collar workers	6.7	6.9	6.8	6.8	6.4	6.8	6.4	6.4	6.6	6.9	6.7	6.5	6.8
Craft and kindred workers	4.0	4.5	4.7	4.9	4.0	4.7	4.5	4.7	4.6	4.2	4.0	4.2	4.2
Operatives, except transport	8.2	8.8	8.1	7.6	7.5	7.7	7.6	7.6	7.7	8.6	8.3	7.7	8.3
Transport equipment operatives	5.7	5.6	5.2	4.8	4.2	5.3	4.9	5.0	5.2	6.0	5.4	5.5	5.2
Nonfarm laborers	10.6	9.7	10.5	11.0	11.6	11.0	9.4	9.3	10.3	10.5	11.1	10.3	10.9
Service workers	7.4	7.1	7.4	7.1	7.4	7.7	7.9	7.1	7.2	7.4	7.2	7.2	7.2
Farm workers	3.9	3.6	3.9	4.6	3.2	3.4	2.8	3.6	3.2	3.4	3.5	3.1	4.5
INDUSTRY													
Nonagricultural private wage and salary workers ³	6.0	5.8	5.8	5.6	5.6	5.8	5.7	5.6	5.5	5.7	5.7	5.6	5.7
Construction	9.6	9.4	10.6	11.2	10.8	12.1	10.6	11.5	10.2	10.3	9.6	9.6	9.5
Manufacturing	5.5	5.6	5.3	5.1	5.1	5.0	5.0	4.8	5.2	5.4	5.4	5.3	5.8
Durable goods	5.0	5.4	4.8	4.6	4.6	4.4	4.4	4.1	4.3	4.6	4.4	4.8	5.5
Nondurable goods	6.3	5.8	6.1	6.0	5.8	6.0	5.9	5.8	6.4	6.5	7.0	6.2	6.2
Transportation	4.1	3.8	3.6	3.4	3.3	3.3	3.5	3.0	4.0	2.9	3.5	3.0	3.9
Wholesale and retail trade	6.8	6.5	6.7	6.7	6.5	6.8	6.5	6.6	6.2	6.6	6.4	6.8	6.2
Finance and service industries	5.4	5.2	5.1	4.6	5.0	5.1	5.1	4.8	4.7	4.8	5.0	4.7	4.9
Government workers	4.1	3.6	3.9	3.9	3.9	4.0	4.0	3.7	4.1	3.6	3.5	3.6	3.5
Agricultural wage and salary workers	9.6	8.7	8.7	9.5	7.9	7.7	7.2	8.9	7.7	8.6	9.3	7.7	10.4

¹ Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

[Numbers in thousands]

Weeks of unemployment	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
DURATION													
Both sexes, 16 years and over:													
Less than 5 weeks	2,967	2,795	2,783	2,719	2,833	2,876	2,713	2,743	2,751	2,939	2,787	2,927	2,784
5 to 14 weeks	1,873	1,895	1,861	1,789	1,774	1,979	1,877	1,870	1,857	1,874	1,935	1,782	1,970
15 weeks and over	1,314	1,234	1,268	1,317	1,196	1,208	1,251	1,260	1,305	1,235	1,213	1,086	1,052
15 to 26 weeks	668	625	663	732	685	726	728	712	729	692	705	616	600
27 weeks and over	646	609	605	585	511	482	523	548	576	543	508	470	451
Average (mean) duration, in weeks	11.8	11.4	11.5	11.8	11.0	10.7	11.2	11.3	11.7	11.0	11.1	10.4	10.0
Median duration, in weeks	6.0	6.0	5.9	5.9	5.4	5.6	5.9	6.3	5.8	5.2	5.2	5.6	6.1
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	48.2	47.2	47.1	46.7	48.8	47.4	46.4	46.7	46.5	48.6	47.0	50.5	48.0
5 to 14 weeks	30.4	32.0	31.5	30.7	30.6	32.6	32.1	31.8	31.4	31.0	32.6	30.8	33.9
15 weeks and over	21.4	20.8	21.4	22.6	20.6	19.9	21.4	21.4	22.1	20.4	20.4	18.7	18.1
15 to 26 weeks	10.9	10.6	11.2	12.6	11.8	12.0	12.5	12.1	12.3	11.4	11.9	10.6	10.3
27 weeks and over	10.5	10.3	10.2	10.0	8.8	7.9	9.0	9.3	9.7	9.0	8.6	8.1	7.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	6.1	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7
16 to 19 years.....	16.3	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3
16 to 17 years.....	20.0	18.6	19.2	19.2	19.3	20.2	18.4	18.4	18.9	19.1	19.2	16.7	17.1
18 to 19 years.....	13.9	13.5	14.0	14.0	14.0	13.8	13.6	14.6	13.1	14.3	15.2	14.1	14.4
20 to 24 years.....	9.9	9.0	9.3	8.6	9.0	9.3	8.6	8.6	8.8	8.5	8.9	8.9	9.0
25 years and over.....	4.1	4.1	4.0	3.9	3.8	3.9	3.9	3.9	3.9	4.0	3.8	3.8	3.9
25 to 54 years.....	4.3	4.3	4.1	4.2	4.0	4.2	4.2	4.1	4.1	4.2	4.0	4.0	4.0
55 years and over.....	3.2	3.0	3.3	3.0	2.9	2.9	2.9	3.0	3.1	3.1	3.2	2.9	3.2
Males, 16 years and over	5.1	5.0	5.1	5.1	5.0	5.1	5.1	5.0	5.0	5.1	4.9	4.7	5.0
16 to 19 years.....	15.4	14.8	15.5	16.1	15.9	16.7	16.1	16.5	16.0	16.2	16.1	14.1	14.9
16 to 17 years.....	18.6	17.7	19.1	19.9	20.1	20.7	19.1	19.2	19.9	18.0	19.0	15.8	15.2
18 to 19 years.....	13.0	12.5	12.6	13.2	12.7	13.6	13.5	14.7	13.2	14.2	14.1	13.5	14.9
20 to 24 years.....	8.9	8.8	8.6	8.5	8.5	8.9	8.4	8.2	8.4	7.8	8.0	8.0	8.8
25 years and over.....	3.3	3.3	3.3	3.3	3.1	3.2	3.2	3.2	3.2	3.3	3.1	3.1	3.3
25 to 54 years.....	3.3	3.5	3.4	3.4	3.2	3.4	3.3	3.2	3.3	3.4	3.1	3.1	3.3
55 years and over.....	3.4	2.9	3.0	2.8	2.5	2.6	2.8	2.8	2.8	3.0	2.9	3.1	3.4
Females, 16 years and over	7.6	7.1	7.1	6.8	6.9	6.9	6.7	6.7	6.7	6.9	7.0	6.9	6.6
16 to 19 years.....	17.4	16.8	17.1	16.3	16.5	16.3	15.3	15.7	14.8	16.8	17.7	16.6	15.8
16 to 17 years.....	21.6	19.7	19.4	18.4	18.3	19.6	17.5	17.4	17.8	20.2	19.3	17.7	19.2
18 to 19 years.....	14.8	14.6	15.6	14.8	15.5	14.1	13.6	14.4	13.0	14.4	16.4	14.8	13.8
20 to 24 years.....	11.0	9.2	10.1	8.7	9.6	9.7	8.9	9.1	9.4	9.4	9.9	9.9	9.3
25 years and over.....	5.4	5.2	4.9	4.9	4.9	5.0	5.0	4.9	4.8	4.9	5.0	4.8	4.7
25 to 54 years.....	5.8	5.6	5.2	5.2	5.2	5.3	5.4	5.3	5.2	5.2	5.2	5.3	5.0
55 years and over.....	2.9	3.2	3.8	3.3	3.5	3.1	3.1	3.3	3.6	3.1	3.7	2.7	2.9

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

[Numbers in thousands]

Reason for unemployment	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers.....	2,536	2,459	2,362	2,456	2,372	2,442	2,454	2,481	2,440	2,521	2,361	2,358	2,532
On layoff.....	696	700	683	644	746	715	753	792	789	846	710	796	793
Other job losers.....	1,840	1,759	1,679	1,812	1,626	1,727	1,701	1,689	1,652	1,675	1,652	1,562	1,739
Job leavers.....	855	840	849	812	825	871	927	829	863	847	951	867	838
Reentrants.....	1,870	1,743	1,930	1,721	1,754	1,937	1,692	1,756	1,788	1,790	1,762	1,738	1,737
New entrants.....	871	875	816	825	872	826	823	874	822	811	841	787	694
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers.....	41.4	41.6	39.7	42.2	40.7	40.2	41.6	41.8	41.3	42.2	39.9	41.0	43.7
On layoff.....	11.4	11.8	11.5	11.1	12.8	11.8	12.8	13.3	13.3	14.2	12.0	13.8	13.7
Other job losers.....	30.0	29.7	28.2	31.2	27.9	28.4	28.9	28.4	27.9	28.1	27.9	27.2	30.0
Job leavers.....	13.9	14.2	14.3	14.0	14.2	14.3	15.7	14.0	14.6	14.2	16.1	15.1	14.4
Reentrants.....	30.5	29.5	32.4	29.6	30.1	31.9	28.7	29.6	30.2	30.0	29.8	30.2	29.9
New entrants.....	14.2	14.8	13.7	14.2	15.0	13.6	14.0	14.7	13.9	13.6	14.2	13.7	12.0
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers.....	2.5	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.5	2.3	2.3	2.5
Job leavers.....	.8	.8	.8	.8	.8	.9	.9	.8	.8	.8	.9	.8	.8
Reentrants.....	1.9	1.7	1.9	1.7	1.7	1.9	1.7	1.7	1.7	1.8	1.7	1.7	1.7
New entrants.....	.9	.9	.8	.8	.9	.8	.8	.9	.8	.8	.8	.8	.7

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210
16 to 19 years	8,072	8,196	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031
16 to 17 years	3,287	3,370	3,293	3,308	3,276	3,300	3,354	3,372	3,323	3,280	3,177	3,269	3,233
18 to 19 years	4,736	4,814	4,749	4,773	4,783	4,730	4,835	4,771	4,803	4,711	4,661	4,738	4,732
20 to 24 years	13,483	13,626	13,666	13,773	13,701	13,760	13,859	13,992	13,959	13,975	13,803	13,829	13,922
25 years and over	72,922	72,761	73,332	73,530	73,976	74,070	74,299	74,641	74,703	74,284	74,666	74,832	75,298
25 to 54 years	58,789	58,750	59,191	59,329	59,630	59,781	59,903	60,193	60,329	60,069	60,298	60,502	61,039
55 years and over	14,144	14,114	14,124	14,137	14,340	14,327	14,394	14,452	14,382	14,220	14,295	14,297	14,229
Males, 16 years and over	55,531	55,580	55,594	55,754	56,096	56,072	56,449	56,549	56,559	56,267	56,352	56,638	56,595
16 to 19 years	4,317	4,365	4,307	4,306	4,271	4,234	4,316	4,218	4,295	4,211	4,195	4,339	4,276
16 to 17 years	1,766	1,810	1,775	1,751	1,734	1,744	1,795	1,779	1,788	1,783	1,739	1,765	1,735
18 to 19 years	2,520	2,562	2,549	2,558	2,559	2,494	2,541	2,455	2,519	2,458	2,436	2,518	2,491
20 to 24 years	7,304	7,178	7,378	7,432	7,478	7,443	7,541	7,585	7,516	7,641	7,474	7,543	7,498
25 years and over	43,894	43,807	43,950	44,026	44,340	44,411	44,589	44,772	44,711	44,442	44,684	44,725	44,791
25 to 54 years	35,193	35,087	35,237	35,261	35,481	35,560	35,709	35,845	35,880	35,716	35,863	35,927	36,030
55 years and over	8,721	8,719	8,711	8,760	8,867	8,872	8,896	8,901	8,841	8,713	8,789	8,755	8,751
Females, 16 years and over	38,915	39,143	39,416	39,487	39,655	39,783	39,851	40,098	40,283	39,907	39,966	40,116	40,615
16 to 19 years	3,755	3,831	3,725	3,761	3,768	3,793	3,832	3,846	3,843	3,742	3,643	3,743	3,755
16 to 17 years	1,521	1,560	1,518	1,557	1,542	1,556	1,559	1,593	1,535	1,497	1,438	1,504	1,498
18 to 19 years	2,216	2,252	2,200	2,215	2,224	2,236	2,294	2,276	2,284	2,253	2,225	2,220	2,241
20 to 24 years	6,179	6,248	6,288	6,341	6,223	6,317	6,318	6,407	6,444	6,334	6,329	6,286	6,423
25 years and over	29,078	28,954	29,382	29,504	29,636	29,659	29,710	29,869	29,993	29,841	29,982	30,107	30,507
25 to 54 years	23,606	23,663	23,954	24,068	24,149	24,221	24,194	24,348	24,449	24,353	24,435	24,576	25,009
55 years and over	5,427	5,395	5,413	5,377	5,473	5,455	5,498	5,551	5,541	5,507	5,506	5,542	5,478

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

(In thousands)

Sex and age	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	6,176	5,940	5,964	5,836	5,877	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848
16 to 19 years	1,576	1,528	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450
16 to 17 years	824	772	783	786	781	834	755	758	775	772	753	655	666
18 to 19 years	763	751	773	775	778	759	758	807	724	788	835	779	794
20 to 24 years	1,479	1,343	1,399	1,298	1,361	1,406	1,310	1,316	1,355	1,305	1,348	1,344	1,379
25 years and over	3,152	3,088	3,025	3,015	2,951	3,015	3,049	2,998	3,008	3,063	2,978	2,963	3,050
25 to 54 years	2,648	2,660	2,553	2,569	2,514	2,615	2,607	2,566	2,574	2,602	2,509	2,546	2,540
55 years and over	465	436	478	438	428	424	435	449	462	448	471	432	472
Males, 16 years and over	2,971	2,937	2,965	2,971	2,923	3,044	3,026	2,989	3,001	3,001	2,910	2,808	2,997
16 to 19 years	784	756	793	826	810	849	826	835	821	814	805	712	748
16 to 17 years	404	389	418	436	436	455	424	423	443	392	408	331	311
18 to 19 years	378	367	367	390	371	391	397	424	383	408	399	394	435
20 to 24 years	712	708	696	693	699	730	693	674	687	647	653	655	723
25 years and over	1,487	1,506	1,495	1,505	1,413	1,469	1,493	1,459	1,481	1,538	1,406	1,436	1,538
25 to 54 years	1,185	1,256	1,228	1,237	1,188	1,249	1,231	1,202	1,235	1,254	1,156	1,164	1,231
55 years and over	305	257	265	253	230	235	258	257	253	270	259	277	310
Females, 16 years and over	3,205	3,003	2,999	2,865	2,954	2,968	2,857	2,891	2,870	2,936	3,019	2,966	2,852
16 to 19 years	792	772	769	731	746	741	691	714	669	756	782	743	702
16 to 17 years	420	393	365	350	345	379	331	335	332	380	345	324	355
18 to 19 years	385	384	406	385	407	368	361	383	341	380	436	385	359
20 to 24 years	767	635	703	605	662	676	618	642	668	658	695	688	656
25 years and over	1,665	1,582	1,530	1,510	1,538	1,546	1,555	1,539	1,527	1,526	1,572	1,527	1,512
25 to 54 years	1,463	1,404	1,325	1,332	1,326	1,366	1,376	1,368	1,340	1,349	1,352	1,382	1,309
55 years and over	160	179	213	185	198	189	177	192	208	179	211	155	163

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Selected categories	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTICS													
Total, 16 years and over	94,446	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210
Married men, spouse present	38,635	38,534	38,782	38,806	38,944	39,039	39,202	39,374	39,291	38,917	38,988	39,055	39,163
Married women, spouse present	21,837	21,737	22,133	22,194	22,274	22,297	22,410	22,632	22,700	22,355	22,490	22,580	22,890
OCCUPATION													
White-collar workers	47,276	47,325	47,550	47,713	47,888	48,040	48,275	49,001	49,133	49,160	49,104	49,165	49,573
Professional and technical Managers and administrators, except farm	14,249	14,246	14,182	14,307	14,297	14,629	14,743	15,034	15,083	15,226	15,220	15,053	15,063
Sales workers	5,992	5,892	5,898	5,986	6,192	6,092	6,055	6,141	6,067	6,079	6,091	6,065	6,161
Clerical workers	16,823	17,007	17,408	17,452	17,369	17,102	17,154	17,412	17,577	17,446	17,418	17,481	17,673
Blue-collar workers	31,282	31,506	31,891	31,986	32,202	31,962	32,491	32,331	32,085	31,582	31,826	31,958	31,949
Craft and kindred workers	12,220	12,557	12,628	12,556	12,646	12,610	12,842	12,932	12,808	12,697	12,790	13,003	12,832
Operatives, except transport Transport equipment operatives	10,877	10,741	10,981	11,178	11,177	10,887	11,047	10,953	11,060	10,651	10,664	10,759	10,853
Nonfarm laborers	3,487	3,429	3,573	3,581	3,640	3,640	3,678	3,618	3,565	3,550	3,667	3,596	3,610
Service workers	4,698	4,779	4,709	4,671	4,739	4,825	4,924	4,829	4,652	4,684	4,706	4,600	4,652
Farm workers	12,803	12,866	12,754	12,951	13,009	13,007	12,777	12,770	12,856	12,909	12,754	12,946	12,697
Unpaid family workers	2,797	2,794	2,855	2,821	2,739	2,826	2,759	2,742	2,803	2,624	2,600	2,683	2,657
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,386	1,423	1,442	1,423	1,424	1,478	1,365	1,429	1,419	1,362	1,439	1,445	1,403
Self-employed workers	1,641	1,611	1,648	1,638	1,563	1,625	1,547	1,550	1,595	1,531	1,490	1,525	1,552
Unpaid family workers	340	319	307	323	293	318	293	348	324	282	270	293	294
Nonagricultural industries:													
Wage and salary workers	84,064	84,508	84,786	85,363	85,578	85,579	86,169	86,346	86,592	86,195	86,129	86,309	86,277
Government	15,184	15,275	15,336	15,387	15,373	15,360	15,217	15,293	15,224	15,356	15,635	15,257	15,382
Private industries	68,880	69,233	69,450	69,976	70,205	70,219	70,952	71,053	71,368	70,839	70,494	71,051	70,895
Private households	1,371	1,368	1,361	1,315	1,335	1,316	1,245	1,334	1,255	1,160	1,177	1,236	1,217
Other industries	67,509	67,865	68,089	68,661	68,870	68,903	69,707	69,719	70,112	69,679	69,317	69,816	69,678
Self-employed workers	6,216	6,219	6,224	6,314	6,370	6,515	6,529	6,632	6,585	6,468	6,625	6,600	6,753
Unpaid family workers	485	449	470	453	455	460	478	456	443	471	466	482	529
PERSONS AT WORK¹													
Nonegricultural industries	86,102	86,350	86,329	86,511	86,653	87,046	87,490	87,592	87,955	86,345	87,727	87,843	89,074
Full-time schedules	70,929	71,205	71,085	71,318	71,394	71,787	72,209	72,250	72,623	71,554	72,476	72,230	73,138
Part-time for economic reasons	3,316	3,298	3,203	3,164	3,131	3,058	3,159	3,147	3,179	3,312	3,307	3,416	3,340
Usually work full-time	1,347	1,350	1,283	1,167	1,279	1,209	1,208	1,205	1,235	1,265	1,246	1,416	1,394
Usually work part-time	1,969	1,948	1,920	1,997	1,852	1,849	1,951	1,942	1,944	2,048	2,061	2,000	1,946
Part-time for noneconomic reasons	11,857	11,847	12,041	12,029	12,128	12,201	12,122	12,195	12,154	11,479	11,943	12,198	12,597

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

HOUSEHOLD DATA

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

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed		Percent of labor force	
							Number			
July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	July 1978	July 1979	
VETERANS¹										
Total, 20 years and over	8,334	8,541	7,874	8,163	7,530	7,849	344	314	4.4	3.8
20 to 24 years	751	548	697	509	629	450	68	59	9.8	11.6
25 to 39 years	6,866	7,140	6,575	6,923	6,317	6,683	258	240	3.9	3.5
25 to 29 years	2,337	1,945	2,197	1,869	2,057	1,773	140	96	6.4	5.1
30 to 34 years	3,394	3,613	3,283	3,505	3,197	3,399	86	106	2.6	3.0
35 to 39 years	1,135	1,582	1,095	1,549	1,063	1,511	32	38	2.9	2.5
40 years and over	717	853	602	731	584	716	18	15	3.0	2.1
NONVETERANS²										
Total, 25 to 39 years	13,728	14,609	13,132	13,924	12,682	13,406	450	518	3.4	3.7
25 to 29 years	6,116	6,683	5,848	6,360	5,612	6,098	236	262	4.0	4.1
30 to 34 years	3,989	4,188	3,810	4,000	3,692	3,855	118	145	3.1	3.6
35 to 39 years	3,623	3,738	3,474	3,564	3,378	3,453	96	111	2.8	3.1

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

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

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	Total	Goods-producing				Service-producing								Government		
		Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Total	Federal	State and local	
								Total	Wholesale trade	Retail trade						
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	3,206	
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	19,741	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	
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	19,971	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	14,533	4,810	16,436	15,799	2,740	13,059	
Apr.	87,942	25,998	913	4,345	20,740	61,944	4,896	19,810	5,032	14,778	4,838	16,575	15,825	2,750	13,075	
May	88,777	26,346	924	4,603	20,819	62,431	5,026	19,970	5,065	14,905	4,872	16,705	15,858	2,773	13,085	
June ^P	89,549	26,837	948	4,821	21,068	62,712	5,116	20,059	5,128	14,931	4,933	16,872	15,732	2,824	12,908	
July ^P	88,645	26,643	958	4,946	20,739	62,002	5,116	19,951	5,125	14,826	4,963	16,956	15,016	2,842	12,174	

¹ 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.

p = preliminary.

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
-	TOTAL	86,800	85,923	88,777	89,549	88,645	-	-	-	-	-
-	PRIVATE SECTOR	71,109	70,994	72,919	73,817	73,629	58,289	58,119	59,625	60,371	60,126
-	MINING	895	900	924	948	958	678	682	695	712	711
10	METAL MINING	98.0	97.4	100.5	104.0	-	75.7	75.1	77.1	79.8	-
101	Iron ores	25.2	25.1	25.0	25.5	-	20.5	20.2	20.1	20.5	-
102	Copper ores	35.1	34.7	36.8	38.4	-	26.7	26.3	28.3	29.5	-
11, 12	COAL MINING	246.3	246.0	247.6	249.6	-	204.6	205.1	206.2	207.6	-
12	BITUMINOUS COAL AND LIGNITE MINING	243.1	242.9	244.5	246.5	-	201.9	202.4	203.5	204.9	-
13	OIL AND GAS EXTRACTION	423.9	428.4	446.3	461.4	-	296.5	298.3	307.6	318.3	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	181.4	183.4	187.7	195.0	-	91.1	91.0	89.4	93.3	-
138	Oil and gas field services	242.5	245.0	258.6	266.4	-	205.4	207.3	218.2	225.0	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	126.9	128.2	129.6	133.4	-	101.6	103.0	103.7	106.5	-
142	Crushed and broken stone	44.7	45.3	46.3	47.3	-	37.7	38.3	39.2	40.0	-
144	Sand and gravel	38.8	39.3	39.2	41.4	-	-	-	-	-	-
147	Chemical and fertilizer minerals	23.4	23.5	23.7	24.0	-	-	-	-	-	-
-	CONSTRUCTION	4,462	4,572	4,603	4,821	4,946	3,564	3,673	3,680	3,875	3,992
15	GENERAL BUILDING CONTRACTORS	1,259.2	1,300.6	1,275.8	1,339.8	-	981.9	1,022.8	991.2	1,045.7	-
152	Residential building construction	669.7	696.9	680.3	712.5	-	511.5	538.1	519.0	543.0	-
153	Operative builders	85.8	85.8	83.7	88.9	-	57.9	57.7	54.9	58.8	-
154	Nonresidential building construction	503.7	517.9	511.8	538.4	-	412.5	427.0	417.3	443.9	-
16	HEAVY CONSTRUCTION CONTRACTORS	974.7	991.4	965.0	1,035.0	-	798.4	816.9	806.2	872.4	-
161	Highway and street construction	341.5	350.1	335.4	374.5	-	297.8	306.0	291.2	328.0	-
162	Heavy construction, except highway	633.2	641.3	629.6	660.5	-	500.6	510.9	515.0	544.4	-
17	SPECIAL TRADE CONTRACTORS	2,228.1	2,279.5	2,361.9	2,446.3	-	1,784.1	1,833.5	1,882.6	1,957.0	-
171	Plumbing, heating, air conditioning	523.9	537.7	531.7	545.4	-	399.4	411.7	402.1	413.8	-
172	Painting, paper hanging, decorating	151.8	158.4	158.4	169.7	-	128.7	135.2	130.1	142.8	-
173	Electrical work	368.6	376.2	387.4	400.3	-	286.9	294.0	303.5	313.8	-
174	Masonry, stonework, and plastering	361.3	362.7	414.1	426.5	-	313.4	314.6	351.4	364.0	-
175	Carpentering and flooring	136.9	140.4	137.6	140.0	-	107.7	111.3	106.8	108.6	-
176	Roofing and sheet metal work	163.8	169.6	175.4	183.8	-	134.9	140.3	142.0	149.6	-
-	MANUFACTURING	20,482	20,240	20,819	21,068	20,739	14,737	14,476	14,937	15,124	14,797
24, 25, 32-39	DURABLE GOODS	12,230	12,111	12,636	12,777	12,574	8,786	8,648	9,058	9,156	8,938
20-23, 26-31	NONDURABLE GOODS	8,252	8,129	8,183	8,291	8,165	5,951	5,828	5,879	5,968	5,859
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	774.3	769.1	761.8	782.8	777.7	666.8	661.0	650.8	671.4	667.0
241	Logging camps and logging contractors	92.2	94.1	90.4	100.0	-	75.7	77.4	74.3	83.8	-
242	Sawmills and planing mills	244.7	241.6	241.1	247.5	-	219.6	216.6	215.7	221.6	-
2421	Sawmills and planing mills, general	204.1	202.4	200.2	205.6	-	183.7	182.2	179.6	184.7	-
2426	Hardwood dimension and flooring	34.0	32.7	33.6	34.0	-	30.1	28.8	29.5	29.8	-
243	Millwork, plywood, and structural members	219.9	219.2	216.5	217.6	-	187.0	186.1	182.4	183.8	-
2431	Millwork	79.6	79.6	76.3	75.5	-	66.1	66.0	62.3	61.7	-
2434	Wood kitchen cabinets	49.2	49.1	50.1	51.0	-	41.3	41.1	42.3	43.0	-
2435	Hardwood veneer and plywood	26.7	25.7	26.3	26.3	-	23.9	23.0	23.5	23.5	-
2436	Softwood veneer and plywood	48.6	48.4	48.2	48.9	-	42.9	42.7	42.1	43.0	-
244	Wooden containers	44.6	44.0	44.5	44.4	-	39.5	38.8	39.4	39.3	-
245	Wood buildings and mobile homes	87.9	86.7	80.9	83.8	-	73.3	71.8	64.6	67.4	-
2451	Mobile homes	59.1	58.4	55.6	57.5	-	51.1	50.2	46.2	48.0	-
249	Miscellaneous wood products	85.0	83.5	88.4	89.5	-	71.7	70.3	74.4	75.5	-
25	FURNITURE AND FIXTURES	486.9	473.8	479.4	480.7	468.7	400.6	387.0	390.4	392.7	382.3
251	Household furniture	329.4	317.0	321.0	320.8	-	280.4	267.8	270.7	271.5	-
2511	Wood household furniture	148.3	141.6	143.4	143.4	-	131.2	124.6	126.5	126.8	-
2512	Upholstered household furniture	102.9	99.2	100.8	101.4	-	85.4	81.6	82.7	83.5	-
2514	Metal household furniture	29.3	27.9	29.7	28.6	-	23.6	22.2	23.7	22.9	-
2515	Mattresses and bedsprings	32.5	32.4	31.9	32.0	-	25.5	25.3	24.6	24.9	-
252	Office furniture	44.6	44.2	44.3	44.2	-	36.4	35.8	35.3	35.3	-
253	Public building and related furniture	24.5	24.8	24.4	24.1	-	18.5	18.8	18.5	18.3	-
254	Partitions and fixtures	61.8	61.8	64.3	66.6	-	46.9	46.7	48.5	50.4	-
259	Miscellaneous furniture and fixtures	26.6	26.0	25.4	25.0	-	18.4	17.9	17.4	17.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	716.0	713.1	714.0	728.0	723.9	571.9	568.6	565.7	578.3	573.0
321	Flat glass	22.1	22.1	20.7	20.6	-	17.7	17.6	16.3	16.1	-
322	Glass and glassware, pressed or blown	139.7	138.5	136.0	137.3	-	120.3	119.1	116.7	117.8	-
3221	Glass containers	79.7	79.3	76.5	77.0	-	70.6	70.2	67.4	67.9	-
3229	Pressed and blown glass, nec	60.0	59.2	59.5	60.3	-	49.7	48.9	49.3	49.9	-
323	Products of purchased glass	47.8	47.2	48.3	50.0	-	35.1	34.2	35.9	37.1	-
324	Cement, hydraulic	32.7	32.4	32.6	33.4	-	26.1	26.1	26.1	26.9	-
325	Structural clay products	53.1	52.6	52.0	53.2	-	42.2	41.5	40.6	41.7	-
326	Pottery and related products	47.9	47.2	48.0	48.4	-	40.2	39.5	40.6	40.8	-
327	Concrete, gypsum, and plaster products	218.1	217.7	215.5	222.0	-	172.4	171.9	168.4	174.8	-
3271	Concrete block and brick	24.9	25.1	25.7	26.1	-	17.5	17.8	18.4	18.7	-
3272	Concrete products, nec	74.3	73.3	71.1	73.2	-	58.5	57.5	53.9	56.5	-
3273	Ready-mixed concrete	97.3	97.5	97.4	101.0	-	78.8	78.9	78.6	81.8	-
329	Misc. nonmetallic mineral products	142.2	143.0	147.9	150.0	-	107.9	108.7	110.6	112.4	-
3291	Abrasive products	27.9	28.4	30.3	30.7	-	19.0	19.5	20.6	21.1	-
3292	Asbestos products	22.6	23.0	23.0	23.3	-	17.5	17.8	17.8	18.2	-
3296	Mineral wool	31.8	31.8	31.1	31.9	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,213.9	1,205.0	1,250.7	1,267.4	1,245.0	954.5	944.6	988.2	1,001.8	981.2
331	Blast furnace and basic steel products	561.9	564.8	567.7	577.7	-	443.5	445.8	450.9	459.0	-
3312	Blast furnaces and steel mills	477.3	481.4	481.0	489.7	-	378.2	381.8	383.3	390.3	-
3317	Steel pipe and tubes	29.9	29.1	31.1	31.2	-	23.2	22.6	24.6	24.6	-
332	Iron and steel foundries	237.1	234.8	247.1	249.4	-	193.8	191.0	202.0	204.5	-
3321	Gray iron foundries	151.8	149.1	153.2	155.1	-	126.2	123.4	127.4	129.2	-
3322	Malleable iron foundries	22.7	22.3	23.4	23.1	-	18.4	18.1	19.0	18.6	-
3325	Steel foundries, nec	53.8	53.4	57.9	58.5	-	43.0	42.5	46.2	46.9	-
333	Primary nonferrous metals	67.7	68.1	69.3	70.8	-	52.8	53.0	53.9	55.1	-
3334	Primary aluminum	34.3	34.8	35.4	36.2	-	28.0	28.3	28.6	29.2	-
335	Nonferrous rolling and drawing	208.3	201.1	215.8	218.3	-	152.7	145.8	159.3	160.9	-
3351	Copper rolling and drawing	33.9	32.5	34.2	34.9	-	26.6	25.2	27.0	27.6	-
3353	Aluminum sheet, plate, and foil	36.8	33.7	38.3	38.8	-	27.5	24.6	29.4	29.8	-
3357	Nonferrous wire drawing and insulating	81.7	79.7	86.4	86.9	-	60.4	58.5	64.4	64.5	-
336	Nonferrous foundries	93.2	90.6	101.2	100.8	-	77.0	74.6	84.0	83.5	-
3361	Aluminum foundries	51.7	50.0	56.1	55.9	-	43.5	41.8	47.2	47.2	-
34	FABRICATED METAL PRODUCTS	1,658.0	1,634.5	1,703.7	1,722.2	1,684.8	1,260.9	1,235.0	1,291.2	1,306.8	1,269.8
341	Metal cans and shipping containers	79.5	80.0	78.7	79.3	-	67.2	67.6	67.1	67.6	-
3411	Metal cans	65.3	66.3	64.0	64.3	-	55.7	56.5	54.9	55.1	-
342	Cutlery, hand tools, and hardware	188.2	185.1	190.7	191.6	-	147.2	143.8	149.0	149.3	-
3423.5	Hand and edge tools, and hand saws and blades	64.0	63.2	64.9	65.7	-	50.4	49.5	51.2	51.7	-
3429	Hardware, nec	108.1	105.9	109.9	109.8	-	84.9	82.5	86.2	85.9	-
343	Plumbing and heating, except electric	70.8	67.8	70.5	71.4	-	52.2	49.4	52.0	52.8	-
3432	Plumbing fittings and brass goods	26.3	25.8	27.1	27.3	-	21.4	20.8	22.1	22.4	-
3433	Heating equipment, except electric	33.2	32.5	32.0	32.7	-	23.0	22.1	21.8	22.3	-
344	Fabricated structural metal products	500.8	502.5	509.8	519.0	-	355.5	356.2	358.4	367.3	-
3441	Fabricated structural metal	99.7	100.3	105.0	107.2	-	70.8	71.6	75.8	77.2	-
3442	Metal doors, sash, and trim	85.1	84.8	82.9	85.7	-	64.8	64.3	61.5	64.3	-
3443	Fabricated plate work (boiler shops)	146.0	145.7	149.0	149.3	-	95.6	94.8	96.4	97.1	-
3444	Sheet metal work	101.6	102.4	104.4	106.6	-	75.9	76.4	76.9	79.3	-
3446	Architectural metal work	32.9	33.1	33.5	34.2	-	23.6	23.9	24.3	24.8	-
345	Screw machine products, bolts, etc.	107.5	105.9	117.3	118.7	-	84.6	83.0	92.5	93.9	-
3451	Screw machine products	51.6	50.7	56.7	57.4	-	42.7	41.9	47.1	47.7	-
3452	Bolts, nuts, rivets, and washers	55.9	55.2	60.6	61.3	-	41.9	41.1	45.4	46.2	-
346	Metal forgings and stampings	295.7	284.6	305.8	306.7	-	239.4	228.1	247.7	247.9	-
3462	Iron and steel forgings	48.5	48.2	58.3	58.3	-	38.3	38.4	46.4	46.3	-
3465	Automotive stampings	114.8	107.6	113.0	111.7	-	96.7	89.5	95.3	94.0	-
3469	Metal stampings, nec	121.1	117.7	122.9	125.1	-	95.2	91.6	96.8	98.6	-
347	Metal services, nec	98.1	95.9	100.2	100.9	-	81.3	78.9	82.0	82.7	-
3471	Plating and polishing	70.0	68.2	71.5	71.5	-	58.7	56.8	59.2	59.3	-
3479	Metal coating and allied services	28.1	27.7	28.7	29.4	-	22.6	22.1	22.8	23.4	-
348	Ordnance and accessories, nec	59.3	59.6	59.7	60.1	-	41.4	41.7	41.5	41.6	-
3483	Ammunition, exc. for small arms, nec	24.6	25.0	24.7	24.8	-	17.4	17.6	17.1	17.2	-
349	Misc. fabricated metal products	258.1	253.1	271.0	274.5	-	192.1	186.3	201.0	203.7	-
3494	Valves and pipe fittings	101.2	100.0	104.7	105.8	-	69.6	68.2	71.9	72.6	-
3496	Misc. fabricated wire products	51.6	49.8	54.9	56.1	-	39.9	38.0	42.4	43.5	-
35	MACHINERY, EXCEPT ELECTRICAL	2,338.9	2,331.4	2,492.0	2,521.8	2,500.8	1,536.0	1,524.0	1,642.9	1,657.2	1,630.9
351	Engines and turbines	133.3	134.0	135.8	142.1	-	86.0	86.6	88.4	93.0	-
3511	Turbines and turbine generator sets	44.6	45.3	43.3	43.3	-	23.4	24.1	22.4	22.3	-
3519	Internal combustion engines, nec	88.7	88.7	92.5	98.8	-	62.6	62.5	66.0	70.7	-
352	Farm and garden machinery	160.2	155.6	178.7	180.3	-	110.4	105.6	127.9	127.7	-
3523	Farm machinery and equipment	143.1	140.2	159.9	161.5	-	98.5	95.3	114.4	114.4	-
353	Construction and related machinery	387.3	387.6	417.6	422.7	-	259.2	259.1	279.1	281.5	-
3531	Construction machinery	172.1	171.5	184.4	185.6	-	117.7	117.3	126.3	126.5	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1978	July 1978	May 1979	June 1979 ^D	July 1979 ^D	June 1978	July 1978	May 1979	June 1979 ^D	July 1979 ^D
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery.....	34.7	34.9	37.7	38.3	-	22.2	22.3	24.0	24.3	-
3533	Oil field machinery.....	76.3	77.2	82.7	83.6	-	53.1	53.8	57.4	58.0	-
3535	Conveyers and conveying equipment.....	31.9	32.0	34.9	35.4	-	19.0	18.8	20.4	20.3	-
3537	Industrial trucks and tractors.....	38.7	39.0	42.1	43.3	-	26.9	27.2	29.4	30.0	-
354	Metalworking machinery.....	343.9	341.7	361.6	366.0	-	250.1	248.5	263.8	265.8	-
3541	Machine tools, metal cutting types.....	69.1	70.2	75.8	77.0	-	44.5	45.4	49.2	49.2	-
3542	Machine tools, metal forming types.....	24.2	24.0	25.5	25.9	-	16.0	15.8	16.8	17.0	-
3544	Special dies, tools, jigs, and fixtures.....	129.6	127.2	134.9	135.4	-	103.3	101.8	108.2	108.1	-
3545	Machine tool accessories.....	64.1	63.8	67.3	68.7	-	45.8	45.6	47.4	48.5	-
3546	Power driven hand tools.....	32.9	32.8	33.4	34.2	-	24.1	23.9	25.3	26.2	-
355	Special industry machinery.....	200.3	197.0	207.9	210.0	-	125.8	123.2	130.8	132.7	-
3551	Food products machinery.....	45.7	45.5	47.7	48.0	-	28.6	28.2	29.8	30.1	-
3552	Textile machinery.....	31.5	29.6	31.2	31.6	-	22.4	20.7	21.8	22.2	-
3555	Printing trades machinery.....	36.3	36.1	39.3	39.9	-	21.4	21.5	23.3	24.0	-
356	General industrial machinery.....	310.6	308.1	322.9	326.0	-	208.1	205.2	213.9	215.4	-
3561	Pumps and pumping equipment.....	62.1	60.9	63.0	63.0	-	38.6	37.7	38.5	38.2	-
3562	Ball and roller bearings.....	57.5	57.3	59.0	60.2	-	44.2	43.9	45.1	46.2	-
3563	Air and gas compressors.....	29.6	29.6	29.9	30.1	-	17.3	17.0	17.5	17.6	-
3564	Blowers and fans.....	37.4	36.4	39.4	39.3	-	24.3	23.4	24.5	24.1	-
3566	Speed changers, drives, and gears.....	25.9	25.6	27.5	28.0	-	17.8	17.5	18.8	19.3	-
3568	Power transmission equipment, nec.....	22.2	22.2	22.9	23.0	-	16.0	16.0	16.8	16.8	-
357	Office and computing machines.....	350.9	355.6	382.9	389.7	-	160.2	161.3	176.2	179.1	-
3573	Electronic computing equipment.....	274.4	278.2	302.8	308.8	-	113.9	114.9	129.8	132.1	-
358	Refrigeration and service machinery.....	187.8	187.1	195.3	192.2	-	133.0	131.6	138.9	135.1	-
3585	Refrigeration and heating equipment.....	131.0	130.6	137.0	133.4	-	93.2	92.5	98.6	94.5	-
359	Misc. machinery, except electrical.....	264.6	264.7	289.3	292.8	-	203.2	202.9	223.9	226.9	-
3592	Carburetors, pistons, rings, valves.....	37.7	37.1	43.5	43.9	-	29.5	29.2	34.7	35.1	-
3599	Machinery, except electrical, nec.....	226.9	227.6	245.8	248.9	-	173.7	173.7	189.2	191.8	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	1,967.5	1,957.4	2,054.1	2,086.4	2,068.2	1,287.6	1,273.2	1,347.4	1,370.5	1,343.0
361	Electric distributing equipment.....	121.2	119.4	121.9	122.8	-	86.8	85.3	87.3	88.1	-
3612	Transformers.....	56.9	55.7	57.8	58.6	-	40.3	39.2	41.6	42.3	-
3613	Switchgear and switchboard apparatus.....	64.3	63.7	64.1	64.2	-	46.5	46.1	45.7	45.8	-
362	Electrical industrial apparatus.....	241.9	241.9	254.3	259.0	-	173.0	172.3	183.9	188.1	-
3621	Motors and generators.....	130.3	130.0	133.7	134.8	-	97.4	97.0	102.0	103.1	-
3622	Industrial controls.....	67.6	67.6	72.7	75.0	-	44.0	43.9	47.1	49.1	-
363	Household appliances.....	191.0	186.7	174.5	176.5	-	151.5	147.6	138.1	140.1	-
3632	Household refrigerators and freezers.....	51.7	49.6	41.2	41.3	-	41.5	39.9	33.5	33.7	-
3633	Household laundry equipment.....	23.5	24.0	22.3	23.0	-	13.5	19.0	17.5	18.2	-
3634	Electric housewares and fans.....	51.6	50.4	48.9	48.9	-	41.3	40.0	38.8	38.9	-
364	Electric lighting and wiring equipment.....	213.5	209.7	225.3	228.6	-	161.5	157.4	171.5	174.1	-
3641	Electric lamps.....	37.7	37.5	39.2	39.5	-	33.1	32.7	34.8	35.0	-
3643	Current-carrying wiring devices.....	88.5	87.6	95.6	97.3	-	62.5	61.4	67.6	69.1	-
3644	Noncurrent-carrying wiring devices.....	22.7	22.6	23.9	24.2	-	15.3	16.2	17.6	17.8	-
3645	Residential lighting fixtures.....	24.5	24.0	25.7	26.4	-	13.8	18.4	19.9	20.4	-
365	Radio and TV receiving equipment.....	121.0	119.5	115.9	118.2	-	89.0	88.0	84.9	86.9	-
3651	Radio and TV receiving sets.....	96.9	95.4	94.9	95.9	-	70.3	69.2	68.5	69.1	-
366	Communication equipment.....	488.7	491.1	520.0	526.3	-	236.7	236.6	259.4	262.2	-
3661	Telephone and telegraph apparatus.....	151.5	150.7	157.4	159.2	-	103.3	103.5	110.4	111.9	-
3662	Radio and TV communication equipment.....	337.2	340.4	362.6	367.1	-	133.4	133.1	149.0	150.3	-
367	Electronic components and accessories.....	436.2	436.2	482.5	494.5	-	272.3	271.4	302.9	311.0	-
3671-3	Electronic tubes.....	42.8	43.1	45.1	45.5	-	23.5	28.5	29.1	29.2	-
3674	Semiconductors and related devices.....	162.8	164.5	184.7	190.1	-	75.2	75.7	87.1	89.7	-
3679	Electronic components, nec.....	169.4	168.2	186.7	190.9	-	119.1	118.5	133.5	136.8	-
369	Misc. electrical equipment and supplies.....	154.0	153.0	159.7	160.5	-	116.8	114.6	119.4	120.0	-
3691	Storage batteries.....	27.7	27.0	29.7	29.2	-	22.0	20.8	23.7	23.5	-
3694	Engine electrical equipment.....	76.9	76.7	78.2	78.7	-	60.8	60.3	60.8	61.1	-
37	TRANSPORTATION EQUIPMENT	1,953.7	1,927.3	2,043.3	2,030.6	1,973.0	1,347.8	1,316.3	1,418.0	1,399.2	1,338.6
371	Motor vehicles and equipment.....	968.0	947.0	1,004.7	988.7	-	751.1	727.7	788.8	770.6	-
3711	Motor vehicles and car bodies.....	445.2	432.1	460.5	443.0	-	329.1	314.1	347.7	329.1	-
3713	Truck and bus bodies.....	50.7	50.7	55.4	56.6	-	40.5	40.6	44.5	45.4	-
3714	Motor vehicle parts and accessories.....	440.6	434.2	455.4	455.2	-	356.5	349.2	370.2	369.3	-
3715	Truck trailers.....	31.5	30.0	33.4	33.9	-	25.0	23.8	26.4	26.8	-
372	Aircraft and parts.....	528.0	531.9	601.4	607.2	-	273.6	274.8	326.5	328.8	-
3721	Aircraft.....	304.3	307.6	350.7	353.9	-	141.0	143.0	174.1	175.4	-
3724	Aircraft engines and engine parts.....	130.8	131.2	144.0	145.7	-	73.9	73.0	83.1	83.8	-
3728	Aircraft equipment, nec.....	92.9	93.1	106.7	107.6	-	58.7	58.8	69.3	69.6	-
373	Ship and boat building and repairing.....	219.8	214.0	(*)	(*)	-	176.6	171.9	(*)	(*)	-
3731	Ship building and repairing.....	170.4	166.7	(*)	(*)	-	136.1	133.2	(*)	(*)	-
3732	Boat building and repairing.....	49.4	47.3	48.2	45.4	-	40.5	38.7	39.6	37.1	-
374	Railroad equipment.....	58.1	57.1	51.6	63.1	-	43.6	42.6	48.3	48.3	-
376	Guided missiles, space vehicles, parts.....	82.1	82.8	86.8	87.6	-	26.0	25.7	28.4	28.8	-
3761	Guided missiles and space vehicles.....	62.5	63.1	65.2	65.8	-	17.6	17.4	19.2	19.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	79.4	76.6	59.1	54.2	—	61.9	59.2	43.0	38.2	—
3792	Travel trailers and campers	53.8	52.1	34.8	30.2	—	43.8	42.1	26.8	22.2	—
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	659.0	658.4	690.1	702.0	704.7	405.3	403.0	423.0	430.0	430.9
381	Measuring and controlling devices	68.7	68.0	73.8	75.0	—	33.4	33.0	37.3	37.6	—
382	Environmental controls	217.1	217.7	228.5	231.5	—	138.8	138.6	147.0	148.9	—
3823	Process control instruments	50.3	49.7	48.0	48.6	—	35.2	34.6	33.4	34.0	—
3823	Instruments to measure electricity	47.9	48.1	51.1	51.1	—	25.2	25.3	27.7	27.2	—
3825	Optical instruments and lenses	82.7	84.2	91.0	92.8	—	52.8	53.7	58.3	59.4	—
383	Medical instruments and supplies	27.7	27.9	30.5	31.2	—	15.8	15.8	17.1	17.6	—
384	Surgical and medical instruments	141.5	140.8	152.2	154.8	—	95.1	93.7	101.2	102.7	—
3841	Surgical appliances and supplies	56.7	56.7	63.5	64.2	—	37.9	37.7	41.9	42.1	—
3842	Ophthalmic goods	66.7	65.7	69.8	71.4	—	45.1	44.0	46.8	47.9	—
385	Photographic equipment and supplies	41.9	41.3	41.9	42.1	—	30.7	30.1	30.8	31.0	—
386	Watches, clocks, and watchcases	132.6	133.9	135.4	139.4	—	68.8	69.7	68.2	70.6	—
387	Watches, clocks, and watchcases	29.5	28.8	27.8	28.0	—	22.7	22.1	21.4	21.6	—
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	461.7	441.2	447.1	455.0	426.9	354.2	335.1	340.6	348.4	321.6
391	Jewelry, precious metal	63.2	57.1	57.3	56.9	—	46.9	41.2	41.9	41.9	—
3911	Musical instruments	40.7	37.0	35.5	35.4	—	29.6	26.3	25.4	25.6	—
393	Toys and sporting goods	25.6	24.1	24.6	24.5	—	21.1	19.6	20.3	20.0	—
394	Dolls, games, toys, and children's vehicles	119.8	118.1	112.3	116.1	—	92.7	91.3	86.1	89.8	—
3942, 4	Sporting and athletic goods, nec	56.6	55.4	52.3	55.6	—	42.7	41.7	38.5	41.7	—
3949	Pens, pencils, office and art supplies	63.2	62.7	60.0	60.5	—	50.0	49.6	47.6	48.1	—
395	Costume jewelry and notions	35.1	34.7	36.2	36.2	—	25.3	24.8	26.1	26.0	—
396	Costume jewelry	68.5	59.9	68.7	71.0	—	55.4	47.6	55.2	57.5	—
3961	Miscellaneous manufactures	38.5	31.6	38.2	40.4	—	31.4	25.3	30.9	32.9	—
399	Signs and advertising displays	149.5	147.3	148.0	150.3	—	112.8	110.6	111.0	113.2	—
3993	Signs and advertising displays	53.3	52.9	54.6	55.5	—	38.7	38.3	39.4	40.2	—
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	1,695.1	1,720.5	1,646.0	1,694.3	1,699.0	1,142.0	1,165.8	1,108.7	1,152.2	1,158.6
201	Meat packing plants	358.0	359.8	357.2	367.7	—	295.9	297.1	296.3	306.9	—
2011	Sausages and other prepared meats	168.8	170.1	165.2	165.2	—	135.9	136.7	133.2	133.8	—
2013	Poultry dressing plants	69.1	69.5	66.6	67.5	—	50.7	50.9	48.8	49.8	—
2016	Dairy products	105.8	106.2	110.9	119.7	—	96.6	97.1	101.7	110.0	—
202	Cheese, natural and processed	195.5	194.7	190.4	195.5	—	103.7	103.5	100.0	104.2	—
2022	Fluid milk	32.6	32.5	31.3	32.8	—	25.4	25.4	24.4	25.7	—
2026	Preserved fruits and vegetables	123.7	123.2	121.4	123.0	—	54.1	53.9	52.2	53.3	—
203	Canned specialties	213.3	236.1	192.9	207.7	—	169.5	193.0	153.7	167.6	—
2032	Canned fruits and vegetables	27.4	27.0	26.3	25.9	—	19.0	18.8	18.0	17.8	—
2033	Frozen fruits and vegetables	75.8	98.0	62.4	69.6	—	59.2	81.8	49.2	55.9	—
2037	Grain mill products	40.7	37.2	38.9	41.6	—	35.2	31.9	34.0	36.5	—
204	Flour and other grain mill products	145.2	143.5	143.1	145.2	—	97.5	96.1	97.1	98.9	—
2041	Prepared feeds, nec	25.0	24.6	24.9	25.1	—	15.7	15.4	15.6	15.8	—
2048	Bakery products	62.7	62.1	61.1	62.6	—	39.6	39.1	39.0	40.3	—
205	Bread, cake, and related products	229.7	229.3	227.6	229.0	—	133.8	133.7	132.9	134.2	—
2051	Cookies and crackers	190.3	189.7	187.7	189.1	—	102.6	102.4	101.7	103.0	—
2052	Sugar and confectionery products	39.4	39.6	39.9	39.9	—	31.2	31.3	31.2	31.2	—
206	Cane and beet sugar	100.2	98.6	98.3	99.5	—	75.3	73.7	73.2	74.2	—
2061-3	Confectionery products	28.8	27.5	26.9	26.7	—	20.5	19.1	18.6	18.4	—
2065	Fats and oils	52.7	51.9	52.3	52.6	—	41.5	40.9	41.2	41.4	—
207	Beverages	41.1	40.6	39.1	38.4	—	29.4	29.1	28.0	27.5	—
208	Malt beverages	237.5	240.4	227.0	234.7	—	111.5	111.6	104.5	109.3	—
2082	Bottled and canned soft drinks	51.4	52.3	48.4	49.9	—	34.8	35.6	33.5	34.9	—
2086	Misc. foods and kindred products	143.0	146.0	140.0	145.1	—	52.5	52.7	49.1	51.4	—
209	Misc. foods and kindred products	174.6	177.5	170.4	176.6	—	125.4	128.0	123.0	129.4	—
TOBACCO MANUFACTURES											
21	Cigarettes	67.7	67.4	65.9	66.5	66.3	52.9	52.5	51.9	52.4	52.2
211	Cigarettes	49.1	49.6	48.7	49.5	—	37.9	38.4	37.9	38.7	—
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	918.5	893.3	903.0	910.5	882.6	801.0	775.7	786.4	793.8	769.0
221	Weaving mills, synthetics	152.6	149.0	155.0	155.1	—	137.2	133.5	139.9	140.1	—
222	Weaving and finishing mills, wool	120.8	119.6	120.3	121.1	—	107.7	106.7	107.6	108.5	—
223	Narrow fabric mills	21.2	20.0	21.2	21.3	—	17.7	16.6	17.7	17.8	—
224	Knitting mills	26.8	25.5	26.6	26.7	—	23.5	22.3	23.3	23.4	—
225	Women's hosiery, except socks	246.8	239.6	234.3	238.1	—	214.6	207.0	202.5	206.2	—
2251	Hosiery, nec	29.2	28.5	31.0	31.5	—	26.1	25.3	27.8	28.2	—
2252	Knit outerwear mills	36.4	35.6	35.2	35.8	—	33.1	32.4	32.1	32.6	—
2253	Knit underwear mills	79.0	76.2	70.1	71.9	—	67.7	65.0	60.1	61.8	—
2254	Knit underwear mills	38.0	37.5	36.8	37.4	—	33.0	32.3	31.5	32.4	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

1972 SIC Code		Industry	All employees					Production workers ¹				
			June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
TEXTILE MILL PRODUCTS—Continued												
2257		Circular knit fabric mills	37.2	35.9	35.5	35.8	—	31.6	30.0	29.3	29.6	—
226		Textile finishing, except wool	81.6	78.7	78.6	78.7	—	69.4	66.5	66.0	66.1	—
2261		Finishing plants, cotton	33.5	32.7	33.0	33.0	—	28.1	27.2	27.5	27.5	—
2262		Finishing plants, synthetics	30.9	29.7	29.1	29.3	—	26.6	25.5	24.5	24.7	—
227		Floor covering mills	61.6	60.7	63.1	64.5	—	50.0	48.9	51.4	52.8	—
228		Yarn and thread mills	135.5	130.4	133.8	134.7	—	123.4	118.3	121.7	122.4	—
2281		Yarn mills, except wool	90.4	88.2	89.6	90.5	—	83.7	81.5	82.9	83.7	—
2282		Throwing and winding mills	21.8	21.2	21.6	21.7	—	19.4	18.8	19.2	19.3	—
229		Miscellaneous textile goods	71.6	69.8	70.1	70.3	—	57.5	55.9	56.3	56.5	—
APPAREL AND OTHER TEXTILE PRODUCTS												
23		Men's and boys' suits and coats	1,341.8	1,263.6	1,305.2	1,312.2	1,260.4	1,155.5	1,082.0	1,116.6	1,123.5	1,075.3
231		Men's and boys' suits and coats	90.5	86.2	87.5	88.5	—	79.8	75.5	74.9	76.0	—
232		Men's and boys' furnishings	378.1	352.0	370.7	373.5	—	328.6	304.2	319.5	322.0	—
2321		Men's and boys' shirts and nightwear	106.3	100.7	103.3	105.3	—	92.9	87.8	89.8	91.9	—
2327		Men's and boys' separate trousers	87.9	82.6	84.2	85.2	—	77.3	72.1	73.4	74.3	—
2328		Men's and boys' work clothing	95.9	84.5	99.0	99.0	—	81.7	71.7	83.7	83.2	—
233		Women's and misses' outerwear	430.0	406.2	420.7	420.6	—	371.7	349.7	361.0	361.7	—
2331		Women's and misses' blouses and waists	59.0	55.8	59.4	59.9	—	51.8	48.8	51.9	52.5	—
2335		Women's and misses' dresses	160.0	150.8	156.7	154.9	—	141.0	132.3	137.3	136.2	—
2337		Women's and misses' suits and coats	67.3	62.8	65.2	68.6	—	57.8	53.6	56.1	59.5	—
2339		Women's and misses' outerwear, nec.	143.7	136.8	139.4	137.2	—	121.1	115.0	115.7	113.5	—
234		Women's and children's undergarments	95.1	90.2	91.0	91.7	—	81.4	76.9	77.6	78.2	—
2341		Women's and children's underwear	75.4	71.1	72.5	73.0	—	65.7	61.8	62.8	63.2	—
2342		Brassieres and allied garments	19.7	19.1	18.5	18.7	—	15.7	15.1	14.8	15.0	—
236		Children's outerwear	72.2	68.3	66.4	68.0	—	61.6	58.1	57.4	58.7	—
2361		Children's dresses and blouses	26.2	25.6	24.7	25.0	—	23.6	23.1	22.3	22.5	—
238		Misc. apparel and accessories	63.6	58.5	59.1	59.6	—	55.0	49.7	51.0	51.6	—
239		Misc. fabricated textile products	191.5	182.1	189.8	190.1	—	159.3	150.6	158.1	158.1	—
2391		Curtains and draperies	31.0	27.7	28.9	30.0	—	27.1	23.9	25.2	25.9	—
2392		House furnishings, nec.	50.8	49.9	51.1	51.9	—	42.0	41.5	42.5	43.2	—
2396		Automotive and apparel trimmings	35.9	32.2	37.7	35.2	—	29.9	26.1	31.5	29.2	—
PAPER AND ALLIED PRODUCTS												
26		Paper and pulp mills	717.1	710.9	714.2	725.9	718.2	542.1	535.0	541.0	551.9	545.7
261, 2, 6		Paper and pulp mills	211.1	210.8	207.5	211.4	—	161.3	160.7	156.1	159.4	—
262		Paper mills, except building paper	182.7	182.4	180.2	183.6	—	138.7	138.0	134.2	137.0	—
263		Paperboard mills	67.7	68.2	69.1	70.6	—	53.4	53.4	55.3	56.3	—
264		Misc. converted paper products	218.7	216.4	219.2	222.3	—	157.0	154.0	160.5	164.2	—
2641		Paper coating and glazing	57.3	57.2	59.4	60.8	—	30.8	30.4	37.0	38.7	—
2642		Envelopes	24.6	23.6	24.3	24.7	—	19.4	18.5	19.0	19.6	—
2643		Bags, except textile bags	48.8	48.2	51.0	51.3	—	38.6	38.0	39.8	40.2	—
265		Paperboard containers and boxes	219.6	215.5	218.4	221.6	—	170.4	166.5	169.1	172.0	—
2651		Folding paperboard boxes	42.7	42.2	42.7	43.1	—	33.9	33.3	34.1	34.4	—
2653		Corrugated and solid fiber boxes	109.9	108.6	109.4	110.9	—	81.8	80.6	81.0	82.4	—
2654		Sanitary food containers	34.0	33.2	34.0	34.2	—	28.2	27.5	28.3	28.5	—
PRINTING AND PUBLISHING												
27		Newspapers	1,185.8	1,183.2	1,219.7	1,227.3	1,227.4	666.8	664.0	690.0	690.4	694.8
271		Newspapers	409.9	409.7	415.9	420.8	—	167.6	166.6	169.0	169.5	—
272		Periodicals	78.0	78.7	80.1	81.0	—	15.2	14.6	13.7	13.7	—
273		Books	103.1	102.7	106.4	105.4	—	52.2	51.6	56.8	54.8	—
2731		Book publishing	72.0	72.5	74.7	74.0	—	26.0	26.1	30.0	28.3	—
2732		Book printing	31.1	30.2	31.7	31.4	—	26.2	25.5	26.8	26.5	—
274		Miscellaneous publishing	46.2	45.4	48.1	48.0	—	27.5	26.8	28.7	27.9	—
275		Commercial printing	380.5	377.1	395.4	394.4	—	279.8	278.2	292.4	291.3	—
2751		Commercial printing, letterpress	165.4	163.2	168.6	168.7	—	121.6	120.4	123.8	124.0	—
2752		Commercial printing, lithographic	193.0	192.0	204.9	204.4	—	139.9	139.7	150.5	149.7	—
276		Manifold business forms	44.4	44.3	47.6	48.2	—	31.8	31.9	34.1	34.7	—
278		Blankbooks and bookbinding	60.8	62.4	63.6	66.4	—	50.3	51.5	52.6	55.3	—
279		Printing trade services	39.2	39.0	39.8	39.7	—	28.5	28.1	29.0	29.0	—
CHEMICALS AND ALLIED PRODUCTS												
28		Industrial inorganic chemicals	1,097.5	1,097.8	1,100.9	1,115.7	1,112.9	632.9	630.0	631.1	640.6	637.6
281		Industrial inorganic chemicals	163.9	166.1	167.7	170.2	—	93.3	93.9	91.9	92.9	—
2819		Industrial inorganic chemicals, nec.	107.5	110.2	110.0	111.2	—	59.3	60.9	60.1	60.4	—
282		Plastics materials and synthetics	216.2	216.5	214.9	218.5	—	146.8	147.5	146.4	149.0	—
2821		Plastics materials and resins	85.4	85.4	85.2	86.9	—	52.8	53.0	52.5	53.4	—
2824		Organic fibers, noncellulosic	95.6	95.9	95.3	96.1	—	68.3	68.8	68.8	69.4	—
283		Drugs	185.5	185.2	187.5	190.4	—	90.4	89.0	92.2	94.2	—
2834		Pharmaceutical preparations	147.7	147.4	149.4	151.9	—	68.8	67.5	70.2	72.3	—
284		Soap, cleaners, and toilet goods	134.9	134.9	135.3	137.2	—	82.6	82.4	81.7	83.5	—
2841		Soap and other detergents	40.2	40.1	40.5	40.6	—	25.9	25.4	26.1	26.4	—
2842, 3		Polishing, sanitation, and finishing preparations	38.3	38.0	39.2	39.7	—	21.6	21.4	21.8	22.2	—
2844		Toilet preparations	56.4	56.8	55.6	56.9	—	35.1	35.6	33.8	34.9	—
285		Paints and allied products	71.4	71.6	70.2	71.9	—	38.4	38.3	36.6	38.0	—
286		Industrial organic chemicals	165.5	165.6	163.1	165.2	—	85.6	85.3	84.2	85.7	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	35.5	35.5	36.1	36.4	—	22.0	22.1	22.8	23.0	—
2861,9	Gum, wood, and industrial organic chemicals, nec	130.0	130.1	127.0	128.8	—	63.6	63.2	61.4	62.7	—
287	Agricultural chemicals	71.1	68.7	73.9	72.6	—	44.6	42.5	48.4	46.3	—
289	Miscellaneous chemical products	89.0	89.2	88.3	89.7	—	51.2	51.1	49.7	51.0	—
29	PETROLEUM AND COAL PRODUCTS	213.5	213.7	213.1	217.0	218.3	139.8	140.1	139.9	143.1	146.0
291	Petroleum refining	165.4	165.7	164.6	167.4	—	103.8	104.1	104.0	106.1	—
295	Paving and roofing materials	36.3	36.2	36.3	37.2	—	28.5	28.6	28.5	29.4	—
30	RUBBER AND MISC. PLASTICS PRODUCTS	755.0	740.0	772.6	775.3	764.8	593.9	577.8	606.9	610.2	599.7
301	Tires and inner tubes	127.0	124.5	128.1	121.2	—	92.8	90.1	93.3	87.4	—
302	Rubber and plastics footwear	23.8	21.5	22.0	22.7	—	20.9	18.7	19.0	19.8	—
303,4	Reclaimed rubber, and rubber and plastics hose and belting	23.8	22.8	21.9	22.6	—	18.0	16.9	16.4	17.2	—
306	Fabricated rubber products, nec	114.1	111.9	115.6	115.3	—	89.7	87.6	91.4	91.2	—
307	Miscellaneous plastics products	466.3	459.3	485.0	493.5	—	372.5	364.5	386.8	394.6	—
31	LEATHER AND LEATHER PRODUCTS	259.8	238.4	242.1	245.9	214.6	224.1	204.2	206.9	210.2	180.5
311	Leather tanning and finishing	23.2	21.6	20.1	20.4	—	19.9	18.4	16.9	17.2	—
314	Footwear, except rubber	162.2	148.8	150.2	152.3	—	142.3	130.0	129.8	131.6	—
3143	Men's footwear, except athletic	65.7	59.1	59.5	60.4	—	58.2	52.2	52.1	52.7	—
3144	Women's footwear, except athletic	64.2	59.9	61.0	62.1	—	56.0	52.1	52.3	53.6	—
316	Luggage	17.5	15.9	17.5	18.1	—	13.5	12.0	13.8	14.3	—
317	Handbags and personal leather goods	31.4	29.0	30.3	30.9	—	26.3	24.0	25.8	26.3	—
—	TRANSPORTATION AND PUBLIC UTILITIES	4,920	4,856	5,026	5,116	5,116	4,146	4,079	4,207	4,281	4,276
40	RAILROAD TRANSPORTATION	560.1	523.1	549.3	559.5	—	—	—	—	—	—
4011	Class I railroads ²	505.4	486.3	506.7	514.2	—	—	—	—	—	—
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	258.9	225.1	272.9	259.2	—	238.5	205.4	251.9	238.6	—
411	Local and suburban transportation	72.7	73.6	75.7	73.4	—	67.2	68.2	70.2	68.0	—
412	Taxicabs	66.9	66.1	67.0	66.5	—	—	—	—	—	—
413	Intercity highway transportation	38.9	40.2	37.7	38.7	—	35.8	37.1	34.7	35.7	—
415	School buses	65.9	31.8	77.2	65.6	—	—	—	—	—	—
42	TRUCKING AND WAREHOUSING	1,282.6	1,274.5	1,316.8	1,339.0	—	1,137.5	1,129.9	1,164.8	1,186.0	—
421,3	Trucking and trucking terminals	1,196.8	1,189.9	1,236.0	1,256.8	—	1,063.4	1,056.6	1,095.9	1,115.9	—
422	Public warehousing	85.8	84.6	80.8	82.2	—	74.1	73.3	68.9	70.1	—
44	WATER TRANSPORTATION	213.2	206.4	215.5	224.7	—	—	—	—	—	—
45	TRANSPORTATION BY AIR	396.7	400.8	383.4	416.2	—	—	—	—	—	—
451,2	Air transportation	352.2	356.4	335.1	367.9	—	—	—	—	—	—
46	PIPE LINES, EXCEPT NATURAL GAS	19.6	19.7	18.4	19.3	—	14.3	14.5	13.0	13.8	—
47	TRANSPORTATION SERVICES	169.3	169.3	179.9	184.6	—	—	—	—	—	—
48	COMMUNICATION	1,232.4	1,245.1	1,289.8	1,296.8	—	934.7	943.8	974.9	979.1	—
481	Telephone communication	992.8	1,003.5	1,037.5	1,042.7	—	740.6	747.5	767.5	770.3	—
483	Radio and television broadcasting	177.3	177.4	184.7	186.1	—	139.5	139.9	148.0	149.3	—
49	ELECTRIC, GAS, AND SANITARY SERVICES	787.5	791.6	799.6	816.9	—	644.8	649.2	649.9	666.0	—
491	Electric services	361.7	362.5	372.4	379.5	—	292.2	293.0	299.7	306.4	—
492	Gas production and distribution	163.9	165.0	162.4	167.1	—	134.6	135.8	132.4	136.8	—
493	Combination utility services	192.8	193.8	191.8	195.3	—	158.4	159.6	154.8	158.1	—
495	Sanitary services	43.8	44.7	46.7	47.8	—	38.6	39.5	41.4	42.3	—
—	WHOLESALE AND RETAIL TRADE	19,499	19,469	19,970	20,059	19,951	17,186	17,154	17,563	17,637	17,518
50,51	WHOLESALE TRADE	4,934	4,930	5,065	5,128	5,125	4,071	4,068	4,164	4,220	4,214
50	WHOLESALE TRADE - DURABLE GOODS	2,870	2,874	2,997	3,039	—	2,365	2,369	2,462	2,498	—
501	Motor vehicles and automotive equipment	421.8	422.5	437.3	440.7	—	347.4	347.9	357.5	359.9	—
502	Furniture and home furnishing	98.3	98.6	101.9	101.8	—	80.0	79.9	82.6	82.8	—
503	Lumber and construction materials	177.0	179.2	181.1	185.3	—	148.4	149.8	151.4	155.1	—
504	Sporting goods, toys, and hobby goods	64.7	63.9	60.0	61.4	—	53.7	53.2	49.4	50.5	—
505	Metals and minerals, except petroleum	139.0	139.1	147.9	150.5	—	113.3	113.4	120.6	122.4	—
506	Electrical goods	394.7	395.4	416.9	421.1	—	325.6	326.2	343.0	344.9	—
507	Hardware, plumbing, and heating equipment	232.4	233.4	240.1	243.9	—	192.5	193.6	199.2	202.4	—

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,146.8	1,150.6	1,209.3	1,228.0	—	940.1	944.3	987.5	1,004.7	—
509	Miscellaneous durable goods	195.1	191.7	202.6	206.4	—	164.3	161.0	171.2	174.8	—
51	WHOLESALE TRADE-NONDURABLE GOODS ..	2,064	2,056	2,068	2,089	—	1,706	1,699	1,702	1,722	—
511	Paper and paper products	132.4	132.2	137.0	138.6	—	107.5	107.4	110.7	112.3	—
512	Drugs, proprietaries, and sundries	136.2	135.1	139.0	140.1	—	116.5	115.3	119.6	120.4	—
513	Apparel, piece goods, and notions	160.1	157.5	160.9	162.8	—	127.2	125.2	126.9	129.2	—
514	Groceries and related products	639.2	635.5	619.2	632.1	—	554.2	551.1	535.6	548.2	—
516	Chemical and allied products	117.6	118.6	118.6	119.6	—	84.1	84.8	85.8	87.0	—
517	Petroleum and petroleum products	228.9	228.3	223.7	223.0	—	177.7	175.2	164.9	164.5	—
518	Beer, wine, and distilled beverages	132.7	134.5	138.3	141.9	—	122.7	144.8	117.3	120.7	—
519	Miscellaneous nondurable goods	364.8	366.0	375.3	375.0	—	301.9	303.9	311.1	311.7	—
52-59	RETAIL TRADE	14,565	14,539	14,905	14,931	14,826	13,115	13,086	13,399	13,417	13,304
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	601.0	601.6	611.5	617.9	—	515.1	514.8	524.5	529.1	—
521	Lumber and other building materials	323.2	325.8	323.9	332.0	—	279.4	281.6	278.5	285.6	—
525	Hardware stores	144.1	144.4	146.8	148.6	—	123.5	123.4	126.5	128.5	—
53	GENERAL MERCHANDISE STORES	2,284.7	2,280.5	2,223.5	2,211.4	—	2,127.3	2,124.6	2,066.5	2,053.2	—
531	Department stores	1,851.8	1,849.5	1,785.2	1,766.9	—	1,735.6	1,734.5	1,670.0	1,652.1	—
533	Variety stores	287.8	285.8	284.5	282.0	—	267.5	266.1	263.1	259.5	—
539	Misc. general merchandise stores	145.1	145.2	153.8	162.5	—	124.2	124.0	133.4	141.6	—
54	FOOD STORES	2,199.3	2,184.3	2,269.3	2,271.8	—	2,027.5	2,014.7	2,092.0	2,095.4	—
541	Grocery stores	1,934.9	1,925.4	2,006.9	2,008.4	—	1,786.9	1,779.6	1,852.4	1,855.3	—
542	Meat markets and freezer provisioners	46.5	45.9	48.3	48.4	—	—	—	—	—	—
546	Retail bakeries	117.1	114.4	118.5	120.5	—	107.4	104.4	109.1	110.7	—
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,872.2	1,881.8	1,849.7	1,836.1	—	1,606.8	1,617.5	1,582.4	1,567.2	—
551,2	New and used car dealers	887.8	890.1	901.6	898.8	—	740.7	743.7	750.5	746.9	—
553	Auto and home supply stores	254.1	256.7	254.9	257.6	—	222.1	225.0	223.8	226.1	—
564	Gasoline service stations	648.8	652.9	609.0	593.2	—	574.3	578.9	536.3	520.4	—
56	APPAREL AND ACCESSORY STORES	862.8	852.6	892.2	889.2	—	745.0	735.6	768.5	765.9	—
561	Men's and boys' clothing and furnishings	137.8	137.4	140.2	141.0	—	117.4	117.1	119.0	120.4	—
562	Women's ready-to-wear stores	319.9	314.1	331.4	327.5	—	277.9	272.8	288.7	285.5	—
565	Family clothing stores	153.3	153.3	159.6	160.7	—	135.9	135.7	139.8	141.2	—
566	Shoe stores	167.8	164.9	177.5	175.3	—	140.1	137.4	148.2	145.3	—
57	FURNITURE AND HOME FURNISHINGS										
	STORES	588.3	584.0	600.8	603.4	—	488.2	483.8	496.9	498.7	—
571	Furniture and home furnishings	355.2	354.0	355.6	357.1	—	299.2	298.2	298.7	299.7	—
572	Household appliance stores	87.9	87.7	90.1	92.0	—	74.9	74.4	76.9	78.4	—
573	Radio, television, and music stores	145.2	142.3	155.1	154.3	—	114.1	111.2	121.3	120.6	—
58	EATING AND DRINKING PLACES	4,397.1	4,412.5	4,642.0	4,696.7	—	4,058.1	4,064.4	4,266.9	4,323.0	—
59	MISCELLANEOUS RETAIL	1,759.4	1,741.7	1,815.7	1,804.0	—	1,546.9	1,530.7	1,601.5	1,584.8	—
591	Drug stores and proprietary stores	499.9	499.7	516.0	523.1	—	455.4	455.2	469.9	476.4	—
592	Liquor stores	120.0	120.8	128.1	130.2	—	—	—	—	—	—
594	Miscellaneous shopping goods stores	485.5	478.6	500.7	498.9	—	415.8	409.3	428.4	424.9	—
596	Nonstore retailers	271.1	269.4	256.1	254.1	—	251.5	250.5	240.1	237.7	—
598	Fuel and ice dealers	97.5	96.4	99.3	97.9	—	82.1	81.0	84.0	82.8	—
599	Retail stores, nec.	232.6	224.5	260.2	242.3	—	196.8	189.3	223.1	202.6	—
—	FINANCE, INSURANCE, AND REAL										
	ESTATE	4,712	4,746	4,872	4,933	4,963	3,589	3,618	3,705	3,764	3,785
60	BANKING	1,423.0	1,433.5	1,472.4	1,490.3	—	1,114.7	1,121.1	1,138.8	1,156.2	—
602	Commercial and stock savings banks	1,297.9	1,307.7	1,343.3	1,359.6	—	1,012.9	1,018.5	1,033.9	1,049.5	—
61	CREDIT AGENCIES OTHER THAN BANKS	499.6	502.1	522.5	529.0	—	383.4	387.2	400.2	406.4	—
612	Savings and loan associations	214.1	216.0	228.5	232.7	—	167.7	169.4	176.5	180.2	—
614	Personal credit institutions	197.6	197.5	204.3	205.5	—	149.1	150.3	155.4	156.7	—
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	188.3	190.1	200.4	203.9	—	—	—	—	—	—
621	Security brokers and dealers	154.4	156.0	163.9	166.6	—	—	—	—	—	—
63	INSURANCE CARRIERS	1,198.9	1,207.0	1,226.4	1,234.3	—	835.8	843.0	861.3	868.9	—
531	Life insurance	525.2	527.4	524.8	526.6	—	313.6	315.2	312.6	314.8	—

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 ¹				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	139.2	139.6	142.2	142.4	-	112.4	112.7	114.1	114.2	-
633	Fire, marine, and casualty insurance	461.6	466.1	485.2	490.4	-	349.8	354.3	373.6	378.3	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	392.8	394.9	411.9	414.0	-	-	-	-	-	-
65	REAL ESTATE	877.8	886.6	904.3	923.3	-	-	-	-	-	-
651	Real estate operators and lessors	437.7	442.6	444.6	451.1	-	-	-	-	-	-
653	Real estate agents and managers	297.7	300.5	310.0	318.1	-	-	-	-	-	-
655	Subdividers and developers	117.9	118.7	124.0	128.3	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC	30.3	30.6	30.2	30.7	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES	101.2	101.5	103.9	107.3	-	-	-	-	-	-
-	SERVICES	16,139	16,213	16,705	16,872	16,956	14,389	14,438	14,838	14,978	15,047
70	HOTELS AND OTHER LODGING PLACES	1007.0	1073.9	987.5	1,049.1	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	963.6	1000.8	953.0	1,005.3	-	888.8	923.3	880.0	927.9	-
72	PERSONAL SERVICES	899.8	890.8	895.2	887.6	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	357.3	353.8	352.8	351.7	-	318.4	316.1	314.2	313.9	-
723	Beauty shops	280.4	278.7	280.5	276.9	-	259.2	257.1	257.0	255.6	-
726	Funeral service and crematories	69.6	70.3	72.7	73.4	-	-	-	-	-	-
73	BUSINESS SERVICES	2539.3	2553.2	2,725.8	2,775.3	-	2203.6	2213.7	2,363.0	2,408.4	-
731	Advertising	140.7	143.7	149.6	152.0	-	104.4	105.5	110.6	112.4	-
732	Credit reporting and collection	88.4	87.1	86.8	86.5	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	98.0	98.6	101.2	101.8	-	-	-	-	-	-
734	Services to buildings	457.5	457.3	482.4	500.7	-	411.6	410.7	433.9	452.6	-
736	Personnel supply services	399.4	402.9	433.5	446.0	-	-	-	-	-	-
737	Computer and data processing services	206.0	211.1	235.5	238.1	-	168.9	173.7	193.9	196.9	-
75	AUTO REPAIR, SERVICES, AND GARAGES	525.6	520.6	537.5	536.8	-	451.9	447.5	460.7	459.5	-
753	Automotive repair shops	325.0	324.2	326.4	327.9	-	277.6	277.6	278.3	279.2	-
76	MISCELLANEOUS REPAIR SERVICES	247.6	244.0	253.7	259.8	-	212.2	209.0	216.0	221.3	-
78	MOTION PICTURES	228.2	234.1	215.3	225.0	-	202.1	208.0	194.2	201.8	-
781	Motion picture production and services	77.0	83.3	72.3	74.3	-	67.1	72.6	64.0	65.4	-
783	Motion picture theaters	141.1	140.7	132.8	140.6	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	782.7	797.3	734.0	794.3	-	716.4	732.6	668.2	722.2	-
80	HEALTH SERVICES	4780.7	4797.1	4,936.1	4,999.2	-	4264.7	4278.9	4,392.8	4,451.9	-
801	Offices of physicians	683.9	687.4	707.9	715.7	-	565.5	567.2	578.8	586.8	-
802	Offices of dentists	288.7	287.2	300.6	303.4	-	251.1	248.5	263.7	266.2	-
805	Nursing and personal care facilities	907.5	912.8	946.1	963.5	-	818.9	825.4	851.1	868.2	-
806	Hospitals	2,553.0	2,563.3	2,613.3	2,644.6	-	2,329.5	2,340.1	2,384.2	2,412.3	-
81	LEGAL SERVICES	430.7	433.0	444.8	461.5	-	374.8	375.1	381.9	396.2	-
82	EDUCATIONAL SERVICES	958.2	865.3	1,063.7	934.2	-	-	-	-	-	-
821	Elementary and secondary schools	238.5	197.5	234.1	226.7	-	-	-	-	-	-
822	Colleges and universities	620.5	571.3	722.4	602.6	-	-	-	-	-	-
83	SOCIAL SERVICES	941.4	996.2	1,012.5	1,019.4	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,539.9	1,539.8	1,590.4	1,589.0	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	862.9	868.7	908.2	929.7	-	718.3	721.2	753.5	772.3	-
891	Engineering and architectural services	473.5	476.2	489.5	507.7	-	401.5	404.0	413.3	431.2	-
893	Accounting, auditing, and bookkeeping	268.6	269.6	286.9	288.3	-	214.7	213.5	231.5	230.9	-
-	GOVERNMENT	15,691	14,929	15,858	15,732	15,016	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,802	2,815	2,773	2,824	2,842	-	-	-	-	-
-	Executive	2,747.5	2,760.3	2,720.3	2,770.2	-	-	-	-	-	-
-	Department of Defense	924.8	927.1	896.6	906.6	-	-	-	-	-	-
-	Postal Service	648.3	647.5	659.5	663.2	-	-	-	-	-	-
-	Other executive agencies	1,174.4	1,185.7	1,164.2	1,200.4	-	-	-	-	-	-
-	Manufacturing activities	141.9	141.9	140.0	139.9	-	-	-	-	-	-
-	Shipbuilding	72.8	72.7	71.7	72.1	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1978	July 1978	May 1979	June 1979 ^p	July 1979 ^p	June 1978	July 1978	May 1979	June 1979 ^p	July 1979 ^p
	Executive—Continued										
-	Transportation and public utilities, except Postal Service	38.1	38.0	38.1	38.6	-	-	-	-	-	-
-	Services	394.4	399.3	378.7	386.4	-	-	-	-	-	-
-	Hospitals	242.0	243.7	229.3	232.9	-	-	-	-	-	-
-	Legislative	41.4	41.4	39.1	41.0	-	-	-	-	-	-
-	Judicial	12.9	12.9	13.1	13.1	-	-	-	-	-	-
-	STATE AND LOCAL GOVERNMENT	12,889	12,114	13,085	12,908	12,174	-	-	-	-	-
-	State government	3,347.3	3,239.2	3,469.0	3,336.8	-	-	-	-	-	-
-	Hospitals	553.4	556.7	561.7	561.7	-	-	-	-	-	-
-	State education	1,260.1	1,133.1	1,419.2	1,245.9	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	936.8	944.2	907.8	925.2	-	-	-	-	-	-
-	Local government	9,541.5	8,875.2	9,615.6	9,571.4	-	-	-	-	-	-
-	Transportation and public utilities	565.6	572.2	584.1	590.4	-	-	-	-	-	-
-	Hospitals	513.9	516.2	524.2	530.6	-	-	-	-	-	-
-	Local education	5,226.6	4,411.3	5,402.8	5,216.6	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	2,875.4	2,990.4	2,750.8	2,860.5	-	-	-	-	-	-

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

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

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

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

* Not available.

^p preliminary.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	Apr. 1978	May 1978	Mar. 1979	Apr. 1979	May 1979
-	TOTAL	34, 772	35, 058	36, 124	36, 423	36, 651
-	PRIVATE SECTOR	27, 374	27, 624	28, 643	28, 911	29, 148
-	MINING	72	73	84	85	87
10	METAL MINING	6. 5	6. 7	8. 0	8. 0	8. 4
11, 12	COAL MINING	7. 8	8. 1	8. 5	8. 6	8. 7
13	OIL AND GAS EXTRACTION	49. 8	50. 5	58. 7	59. 5	60. 5
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	32. 5	33. 0	37. 0	37. 6	38. 3
138	Oil and gas field services.....	17. 3	17. 5	21. 7	21. 9	22. 2
14	NONMETALLIC MINERALS, EXCEPT FUELS	7. 7	7. 8	8. 6	8. 9	9. 0
142	Crushed and broken stone.....	2. 4	2. 5	2. 7	2. 8	2. 9
144	Sand and gravel.....	2. 3	2. 3	2. 7	2. 9	2. 9
-	CONSTRUCTION	323	328	346	353	361
15	GENERAL BUILDING CONTRACTORS	118. 7	120. 1	123. 6	126. 2	128. 3
152	Residential building construction.....	71. 8	72. 8	73. 6	75. 5	76. 5
153	Operative builders.....	16. 3	16. 4	16. 8	16. 9	16. 9
154	Nonresidential building construction.....	30. 6	30. 9	33. 2	33. 8	34. 9
16	HEAVY CONSTRUCTION CONTRACTORS	49. 5	51. 0	49. 9	52. 3	55. 3
161	Highway and street construction.....	12. 0	13. 0	14. 0	15. 9	18. 1
162	Heavy construction, except highway.....	37. 5	38. 0	35. 9	36. 4	37. 2
17	SPECIAL TRADE CONTRACTORS	154. 9	157. 1	172. 6	174. 3	177. 2
171	Plumbing, heating, air conditioning.....	44. 2	44. 2	46. 9	47. 7	48. 5
172	Painting, paper hanging, decorating.....	9. 7	10. 0	11. 5	11. 6	11. 7
173	Electrical work.....	27. 8	28. 0	29. 7	29. 4	30. 0
174	Masonry, stonework, and plastering.....	18. 1	18. 1	20. 8	21. 4	21. 5
175	Carpentering and flooring.....	12. 0	12. 2	13. 8	14. 0	14. 1
176	Roofing and sheet metal work.....	10. 5	10. 4	12. 2	12. 5	12. 5
-	MANUFACTURING	6, 069	6, 117	6, 323	6, 336	6, 372
24, 25, 32-38	DURABLE GOODS	2, 806	2, 835	3, 015	3, 030	3, 048
20-23, 26-31	NONDURABLE GOODS	3, 263	3, 282	3, 308	3, 306	3, 324
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	104. 3	106. 4	110. 7	111. 9	113. 1
241	Logging camps and logging contractors.....	4. 7	4. 9	4. 9	5. 1	5. 1
242	Sawmills and planing mills.....	21. 1	21. 8	22. 8	22. 8	23. 2
2421	Sawmills and planing mills, general.....	14. 7	15. 3	15. 7	15. 9	16. 1
243	Millwork, plywood, and structural members.....	40. 5	41. 7	43. 8	44. 1	44. 8
244	Wooden containers.....	7. 2	6. 9	7. 4	7. 5	7. 4
245	Wood buildings and mobile homes.....	10. 2	10. 3	10. 1	10. 3	10. 6
249	Miscellaneous wood products.....	20. 6	20. 8	21. 7	22. 1	22. 0
25	FURNITURE AND FIXTURES	140. 3	140. 9	143. 5	142. 9	142. 3
251	Household furniture.....	106. 7	107. 0	107. 7	106. 9	106. 1
2511	Wood household furniture.....	44. 2	44. 5	44. 9	44. 8	45. 1
2512	Upholstered household furniture.....	36. 7	36. 9	37. 0	37. 0	36. 9
2515	Mattresses and bedsprings.....	8. 6	8. 6	8. 6	8. 8	8. 6
252	Office furniture.....	9. 5	9. 6	10. 5	10. 5	10. 7
253	Public building and related furniture.....	4. 6	4. 7	4. 9	5. 1	5. 0
254	Partitions and fixtures.....	9. 4	9. 6	10. 3	10. 5	10. 7
259	Miscellaneous furniture and fixtures.....	10. 1	10. 0	10. 1	9. 9	9. 8
32	STONE, CLAY, AND GLASS PRODUCTS	127. 9	129. 5	131. 5	132. 3	134. 8
322	Glass and glassware, pressed or blown.....	47. 5	47. 7	44. 6	44. 3	45. 2
3221	Glass containers.....	28. 3	28. 6	25. 4	25. 5	25. 7
3229	Pressed and blown glass, nec.....	19. 2	19. 1	19. 2	18. 8	19. 5
323	Products of purchased glass.....	10. 6	11. 1	12. 9	13. 1	13. 4
324	Cement, hydraulic.....	1. 5	1. 6	1. 6	1. 6	1. 6
326	Structural clay products.....	6. 6	6. 5	6. 7	6. 8	6. 9
326	Pottery and related products.....	16. 7	16. 9	17. 1	17. 3	17. 3
327	Concrete, gypsum, and plaster products.....	13. 5	14. 0	14. 2	14. 5	14. 9
329	Misc. nonmetallic mineral products.....	28. 6	28. 7	31. 4	31. 7	32. 3
33	PRIMARY METAL INDUSTRIES	115. 3	116. 8	130. 5	132. 0	133. 1
331	Blast furnace and basic steel products.....	35. 8	36. 9	41. 2	42. 3	43. 0
3312	Blast furnaces and steel mills.....	27. 6	28. 7	32. 3	33. 1	33. 8
332	Iron and steel foundries.....	16. 5	16. 8	21. 1	21. 2	21. 2

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

(In thousands)

1972 SIC Code	Industry	Apr. 1978	May 1978	Mar. 1979	Apr. 1979	May 1979
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	9.0	9.2	10.4	10.5	10.6
3322	Malleable iron foundries	1.5	1.5	1.8	1.8	1.8
3326	Steel foundries, nec	4.1	4.1	4.9	4.9	4.9
333	Primary nonferrous metals	4.2	4.3	4.6	4.7	4.6
3334	Primary aluminum	1.4	1.4	1.7	1.8	1.8
335	Nonferrous rolling and drawing	38.7	38.8	41.5	41.5	42.1
3351	Copper rolling and drawing	3.4	3.5	3.8	3.8	3.9
3353	Aluminum sheet, plate, and foil	4.4	4.5	4.6	4.6	4.7
3357	Nonferrous wire drawing and insulating	23.0	22.8	24.5	24.6	24.8
336	Nonferrous foundries	15.2	15.1	17.0	17.1	16.9
3361	Aluminum foundries	7.1	6.9	7.8	7.8	7.9
FABRICATED METAL PRODUCTS						
34	Metal cans and shipping containers	333.8	338.1	352.0	353.9	356.0
341	Metal cans	12.8	13.1	13.3	13.7	13.5
3411	Metal cans	11.3	11.5	11.6	11.8	11.6
342	Cutlery, hand tools, and hardware	62.5	62.7	64.3	64.5	64.5
3423, 5	Hand and edge tools, and hand saws and blades	16.7	17.0	17.1	17.3	17.4
3429	Hardware, nec	38.8	38.7	40.0	40.0	39.9
343	Plumbing and heating, except electric	16.9	17.0	17.8	18.2	18.0
344	Fabricated structural metal products	66.4	67.9	69.2	69.8	71.1
3441	Fabricated structural metal	6.8	6.8	7.5	7.7	7.6
3442	Metal doors, sash, and trim	22.6	23.3	21.3	21.7	22.8
3443	Fabricated plate work (boiler shops)	14.6	14.8	16.1	16.1	16.2
3444	Sheet metal work	13.7	13.9	14.4	14.5	14.6
345	Screw machine products, bolts, etc.	22.3	22.4	25.3	25.5	25.7
3451	Screw machine products	11.6	11.7	13.2	13.2	13.3
3452	Bolts, nuts, rivets, and washers	10.7	10.7	12.1	12.3	12.4
346	Metal forgings and stampings	56.6	57.8	58.8	58.3	58.2
3462	Iron and steel forgings	3.9	4.0	4.6	4.6	4.7
3465	Automotive stampings	15.1	15.3	15.2	15.0	15.3
3469	Metal stampings, nec	35.4	36.2	36.8	36.5	36.1
347	Metal services, nec	24.3	24.2	24.5	24.5	24.6
3471	Plating and polishing	17.9	17.8	17.6	17.5	17.6
3479	Metal coating and allied services	6.4	6.4	6.9	7.0	7.0
348	Ordnance and accessories, nec	15.8	15.9	16.6	16.8	17.0
349	Misc. fabricated metal products	56.2	57.1	62.2	62.6	63.4
3494	Valves and pipe fittings	20.2	20.4	22.6	22.9	23.0
3496	Misc. fabricated wire products	12.3	12.6	14.0	13.8	14.2
MACHINERY, EXCEPT ELECTRICAL						
35	Engines and turbines	424.1	425.9	471.3	475.0	476.9
351	Engines and turbines	22.4	21.9	25.0	25.0	25.2
3511	Turbines and turbine generator sets	6.0	5.9	6.1	6.0	6.0
3519	Internal combustion engines, nec	16.4	16.0	18.9	19.0	19.2
352	Farm and garden machinery	23.3	22.6	26.1	25.6	26.0
3523	Farm machinery and equipment	17.9	17.5	20.6	20.4	20.6
353	Construction and related machinery	40.4	40.7	44.9	45.1	45.7
3531	Construction machinery	14.8	14.7	14.7	14.7	14.7
3533	Oil field machinery	8.5	8.7	10.4	10.5	10.8
354	Metalworking machinery	51.2	51.2	56.1	56.7	57.3
3541	Machine tools, metal cutting types	8.1	8.1	9.4	9.5	9.6
3544	Special dies, tools, jigs, and fixtures	13.8	13.6	15.6	15.9	16.1
3545	Machine tool accessories	12.6	12.7	14.1	14.2	14.3
355	Special industry machinery	28.9	29.1	30.7	30.7	30.9
3551	Food products machinery	5.9	5.9	6.4	6.4	6.5
3552	Textile machinery	5.9	5.9	6.0	5.9	6.0
3555	Printing trades machinery	6.4	6.6	6.9	6.9	6.9
356	General industrial machinery	55.9	56.2	62.0	62.4	61.3
3561	Pumps and pumping equipment	10.5	10.6	11.4	11.4	11.4
3562	Ball and roller bearings	13.5	13.5	14.8	15.0	14.0
357	Office and computing machines	118.4	120.3	136.1	137.7	139.1
3573	Electronic computing equipment	91.3	92.6	107.0	108.2	109.3
358	Refrigeration and service machinery	36.3	36.6	40.0	41.0	40.9
3585	Refrigeration and heating equipment	24.2	24.5	27.3	28.1	27.9
359	Misc. machinery, except electrical	47.3	47.3	50.4	50.8	50.5
3599	Machinery, except electrical, nec	37.7	37.6	38.9	39.2	39.0
ELECTRIC AND ELECTRONIC EQUIPMENT						
36	Electric distributing equipment	804.4	809.3	858.7	861.7	868.0
361	Electric distributing equipment	43.1	43.5	44.5	44.3	44.2
3612	Transformers	20.1	20.4	20.5	20.5	20.4
3613	Switchgear and switchboard apparatus	23.0	23.1	24.0	23.8	23.8
362	Electrical industrial apparatus	91.4	91.7	97.2	97.8	98.8
3621	Motors and generators	51.0	50.9	54.1	54.6	54.6
3622	Industrial controls	28.4	28.8	30.2	30.2	30.6
363	Household appliances	63.1	62.9	57.3	57.1	57.8
3632	Household refrigerators and freezers	13.9	14.1	10.7	10.1	10.4
3633	Household laundry equipment	5.1	5.1	4.7	4.6	4.8
3634	Electric housewares and fans	25.4	25.2	24.2	24.6	24.6
364	Electric lighting and wiring equipment	96.7	97.2	104.2	104.9	105.0
3641	Electric lamps	24.1	24.0	24.9	25.2	25.0

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1978	May 1978	Mar. 1979	Apr. 1979	May 1979
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	42.5	43.3	46.7	47.2	47.7
365	Radio and TV receiving equipment	62.9	63.2	61.0	59.4	60.8
3651	Radio and TV receiving sets	48.6	48.7	48.0	47.8	48.9
366	Communication equipment	171.7	173.0	189.4	190.7	191.9
3661	Telephone and telegraph apparatus	70.9	71.6	75.6	76.3	76.7
3662	Radio and TV communication equipment	100.8	101.4	114.3	114.4	115.2
367	Electronic components and accessories	221.5	223.1	248.6	251.1	253.6
3671-3	Electronic tubes	16.1	16.3	16.9	17.0	17.3
3674	Semiconductors and related devices	75.5	76.4	86.5	87.4	88.2
3679	Electronic components, nec	89.7	89.6	100.4	101.2	102.7
369	Misc. electrical equipment and supplies	54.0	54.7	56.5	56.4	55.9
3694	Engine electrical equipment	27.4	27.8	27.9	27.4	27.2
37	TRANSPORTATION EQUIPMENT	277.0	283.5	314.7	315.0	318.8
371	Motor vehicles and equipment	127.1	129.1	141.1	140.8	144.3
3711	Motor vehicles and car bodies	50.9	52.1	54.2	54.7	56.4
3713	Truck and bus bodies	5.2	5.2	6.2	6.1	6.4
3714	Motor vehicle parts and accessories	69.1	69.8	78.4	77.7	79.2
372	Aircraft and parts	85.5	89.2	108.2	109.7	110.8
3721	Aircraft	49.7	52.9	65.6	66.4	67.2
3724	Aircraft engines and engine parts	19.3	19.6	22.9	23.3	23.4
3728	Aircraft equipment, nec	16.5	16.7	19.7	20.0	20.2
373	Ship and boat building and repairing	22.0	22.1	22.3	22.0	22.4
3731	Ship building and repairing	14.6	14.4	13.9	13.8	14.7
374	Railroad equipment	4.9	5.0	5.4	5.5	5.5
376	Guided missiles, space vehicles, parts	15.8	15.8	17.8	17.8	18.0
3761	Guided missiles and space vehicles	12.6	12.6	14.2	14.2	14.3
379	Miscellaneous transportation equipment	15.5	16.0	13.8	13.0	11.5
38	INSTRUMENTS AND RELATED PRODUCTS	269.9	272.2	292.5	295.1	295.2
381	Engineering and scientific instruments	19.8	19.5	22.5	22.8	23.0
382	Measuring and controlling devices	90.7	91.3	98.4	99.0	99.0
3822	Environmental controls	25.4	25.2	24.4	24.3	24.1
3823	Process control instruments	15.1	15.1	16.8	16.9	16.8
3825	Instruments to measure electricity	36.4	37.1	41.8	42.2	42.5
383	Optical instruments and lenses	9.1	9.2	10.1	10.2	10.4
384	Medical instruments and supplies	74.0	74.8	81.7	81.8	82.0
3841	Surgical and medical instruments	31.6	32.0	36.2	36.4	36.5
3842	Surgical appliances and supplies	33.8	34.2	36.7	36.7	36.8
385	Ophthalmic goods	22.7	23.0	23.8	24.3	24.3
386	Photographic equipment and supplies	35.1	35.7	38.0	39.0	38.9
387	Watches, clocks, and watchcases	18.5	18.7	18.0	18.0	17.6
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	208.8	212.1	209.5	210.1	210.2
391	Jewelry, silverware, and plated ware	28.9	29.1	27.7	27.5	27.1
393	Musical instruments	11.5	11.9	11.6	11.7	11.3
394	Toys and sporting goods	61.1	62.7	57.3	58.2	59.5
3942, 4	Dolls, games, toys, and children's vehicles	29.7	31.0	27.8	28.1	29.2
3949	Sporting and athletic goods, nec	31.4	31.7	29.5	30.1	30.3
395	Pens, pencils, office and art supplies	18.6	18.6	19.7	19.7	19.7
396	Costume jewelry and notions	38.5	39.2	41.1	41.0	40.6
399	Miscellaneous manufactures	50.2	50.6	52.1	52.0	52.0
NONDURABLE GOODS						
20	FOOD AND KINDRED PRODUCTS	449.8	451.7	463.2	460.2	466.4
201	Meat products	104.5	106.7	110.6	112.0	113.2
2011	Meat packing plants	26.5	27.1	27.3	27.7	27.5
2013	Sausages and other prepared meats	19.4	19.8	20.3	19.7	20.4
2016	Poultry dressing plants	51.1	52.4	55.5	57.1	58.0
202	Dairy products	37.4	38.1	37.5	38.0	38.2
2026	Fluid milk	19.9	20.2	19.8	19.8	19.8
203	Preserved fruits and vegetables	76.3	76.6	79.9	77.4	80.1
2032	Canned specialties	9.6	9.4	9.9	9.9	9.3
2033	Canned fruits and vegetables	20.6	21.4	20.9	19.5	22.1
2037	Frozen fruits and vegetables	17.2	16.8	19.2	18.7	19.6
204	Grain mill products	27.8	27.9	27.9	27.9	28.4
205	Bakery products	61.1	60.5	60.2	60.4	60.5
2051	Bread, cake, and related products	41.9	42.1	41.4	41.4	41.9
2052	Cookies and crackers	19.2	18.4	18.8	19.0	18.6
206	Sugar and confectionery products	35.5	34.9	39.6	37.8	37.2
207	Fats and oils	5.0	5.0	5.0	4.9	4.9
208	Beverages	35.5	35.2	34.6	35.0	35.3
2082	Malt beverages	5.5	5.5	5.7	5.8	5.8
2086	Bottled and canned soft drinks	16.2	16.4	16.9	17.1	17.4
209	Misc. foods and kindred products	66.7	66.8	67.9	66.8	68.6
21	TOBACCO MANUFACTURES	23.8	23.8	24.6	23.6	23.4
211	Cigarettes	15.0	15.1	15.1	15.0	14.9

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Apr. 1978	May 1978	Mar. 1979	Apr. 1979	May 1979
22	TEXTILE MILL PRODUCTS	428.5	430.0	427.3	427.1	427.8
221	Weaving mills, cotton	66.2	65.1	67.1	67.2	67.0
222	Weaving mills, synthetics	49.1	48.6	49.3	49.4	49.6
223	Weaving and finishing mills, wool	7.9	8.1	8.2	8.2	8.2
224	Narrow fabric mills	15.5	15.5	15.5	15.4	15.8
225	Knitting mills	154.0	157.2	150.9	151.3	150.7
2251	Women's hosiery, except socks	21.5	22.3	24.3	24.0	24.1
2252	Hosiery, nec	25.8	25.9	25.5	25.5	25.7
2253	Knit outerwear mills	55.0	55.7	49.0	49.2	49.8
2254	Knit underwear mills	27.0	27.8	28.7	28.9	27.5
2257	Circular knit fabric mills	14.4	15.0	13.6	13.8	13.7
226	Textile finishing, except wool	23.5	24.0	23.4	23.4	23.7
2261	Finishing plants, cotton	10.1	10.1	10.2	10.2	10.3
2262	Finishing plants, synthetic	6.8	6.8	6.6	6.6	6.4
227	Floor covering mills	25.5	25.0	25.9	25.0	25.3
228	Yarn and thread mills	65.8	65.4	65.4	65.8	66.1
2281	Yarn mills, except wool	40.9	41.0	41.3	41.4	41.9
2282	Throwing and winding mills	12.7	12.2	12.0	12.2	12.4
229	Miscellaneous textile goods	21.0	21.1	21.6	21.4	21.4
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,077.0	1,078.7	1,057.5	1,054.8	1,057.3
231	Men's and boys' suits and coats	68.6	70.3	65.0	66.5	66.9
232	Men's and boys' furnishings	315.2	315.8	308.8	309.4	312.2
2321	Men's and boys' shirts and nightwear	90.1	91.4	90.0	90.4	90.4
2327	Men's and boys' separate trousers	72.0	71.7	69.5	69.3	69.6
2328	Men's and boys' work clothing	81.4	80.7	80.9	81.2	83.0
233	Women's and misses' outerwear	367.6	365.4	366.5	363.9	360.3
2331	Women's and misses' blouses and waists	50.7	50.3	52.9	52.7	52.4
2335	Women's and misses' dresses	142.3	139.2	138.7	138.7	136.2
2337	Women's and misses' suits and coats	52.5	53.5	52.9	53.1	54.0
2339	Women's and misses' outerwear, nec	122.1	122.4	122.0	119.4	117.7
234	Women's and children's undergarments	82.8	82.4	78.7	79.5	79.1
2341	Women's and children's underwear	66.1	65.8	63.4	63.8	63.7
2342	Brassieres and allied garments	16.7	16.6	15.3	15.7	15.4
236	Children's outerwear	58.8	60.1	57.5	56.4	57.1
2361	Children's dresses and blouses	23.1	23.0	21.9	21.7	22.0
238	Misc. apparel and accessories	49.2	49.5	46.1	45.8	46.3
239	Misc. fabricated textile products	121.6	121.9	121.3	119.9	121.9
2391	Curtains and draperies	23.5	24.1	23.1	22.8	23.0
2392	House furnishings, nec	33.3	32.4	31.4	31.4	32.2
2396	Automotive and apparel trimmings	17.9	18.0	19.0	19.3	19.1
26	PAPER AND ALLIED PRODUCTS	156.3	159.5	161.0	162.2	162.1
261, 2,6	Paper and pulp mills	25.1	25.9	26.2	26.5	26.8
262	Paper mills, except building paper	22.7	23.4	23.8	24.1	24.4
263	Paperboard mills	5.4	5.6	6.1	6.1	6.1
264	Misc. converted paper products	74.2	76.0	75.6	76.0	75.8
265	Paperboard containers and boxes	51.6	52.0	53.1	53.6	53.4
27	PRINTING AND PUBLISHING	447.0	449.8	473.2	475.6	475.2
271	Newspapers	139.3	140.8	149.0	148.6	149.0
272	Periodicals	46.1	45.8	49.3	48.9	48.9
273	Books	56.6	55.8	56.5	57.3	56.6
274	Miscellaneous publishing	25.9	25.5	26.1	26.9	25.6
275	Commercial printing	113.5	115.8	123.0	124.4	124.4
2751	Commercial printing, letterpress	52.3	52.9	55.5	56.0	56.2
2752	Commercial printing, lithographic	55.4	57.3	61.8	62.7	62.6
276	Manifold business forms	13.5	13.7	14.8	15.0	15.2
278	Blankbooks and bookbinding	31.0	31.0	33.1	32.6	33.5
279	Printing trade services	8.1	8.0	8.3	8.6	8.6
28	CHEMICALS AND ALLIED PRODUCTS	250.2	254.0	262.1	262.9	266.3
281	Industrial inorganic chemicals	21.4	21.8	23.4	23.7	23.7
2819	Industrial inorganic chemicals, nec	15.0	15.1	16.0	16.2	16.1
282	Plastics materials and synthetics	42.7	43.5	44.9	45.5	45.8
2821	Plastics materials and resins	9.7	9.9	10.5	10.7	10.9
2824	Organic fibers, noncellulosic	25.1	25.5	26.1	26.4	26.1
283	Drugs	71.9	72.8	75.4	76.3	76.9
2834	Pharmaceutical preparations	61.1	61.9	64.2	65.1	65.4
284	Soap, cleaners, and toilet goods	52.9	53.4	53.5	52.5	53.8
2841	Soap and other detergents	8.9	9.0	8.9	8.4	8.8
2844	Toilet preparations	32.0	32.7	32.2	31.8	32.5
285	Paints and allied products	11.7	12.0	12.7	12.6	12.9
286	Industrial organic chemicals	23.3	23.4	23.8	23.9	24.1
2861,9	Gum, wood, and industrial organic chemicals, nec	18.8	19.0	19.3	19.3	19.5
287	Agricultural chemicals	9.2	9.6	9.9	10.1	10.4
289	Miscellaneous chemical products	17.1	17.5	18.5	18.3	18.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1978	May 1978	Mar. 1979	Apr. 1979	May 1979
29	PETROLEUM AND COAL PRODUCTS	24.4	24.6	25.3	25.5	25.9
291	Petroleum refining	19.7	19.9	20.1	20.2	20.6
30	RUBBER AND MISC. PLASTICS PRODUCTS	253.4	255.7	270.0	269.5	272.2
301	Tires and inner tubes	11.8	11.9	12.2	12.4	12.4
302	Rubber and plastics footwear	14.3	13.2	13.5	13.2	13.0
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.0	6.0	5.8	5.6	5.6
306	Fabricated rubber products, nec	38.7	39.0	40.4	40.8	41.0
307	Miscellaneous plastics products	182.6	185.6	198.1	197.5	200.2
31	LEATHER AND LEATHER PRODUCTS	152.6	154.5	144.1	144.4	147.8
311	Leather tanning and finishing	3.1	3.1	3.1	3.0	3.0
314	Footwear, except rubber	104.4	106.3	96.8	96.7	99.6
3143	Men's footwear, except athletic	41.3	41.3	36.7	36.7	37.4
3144	Women's footwear, except athletic	41.6	43.2	40.5	40.1	42.0
316	Luggage	9.0	9.2	9.3	9.4	9.6
317	Handbags and personal leather goods	22.1	21.7	21.6	21.7	22.0
-	TRANSPORTATION AND PUBLIC UTILITIES	1,097	1,104	1,187	1,177	1,195
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	54.7	54.7	57.4	57.1	58.6
411	Local and suburban transportation	8.8	8.7	10.6	10.8	11.0
412	Taxicabs	7.4	7.3	7.8	7.7	7.6
413	Intercity highway transportation	4.5	4.6	4.6	4.6	4.7
415	School buses	31.3	31.5	31.8	31.4	32.5
42	TRUCKING AND WAREHOUSING	131.8	134.2	143.3	138.9	144.9
421,3	Trucking and trucking terminals	117.4	119.7	128.4	123.5	129.8
422	Public warehousing	14.4	14.5	14.9	15.4	15.1
44	WATER TRANSPORTATION	17.6	18.0	18.2	18.8	19.1
45	TRANSPORTATION BY AIR	120.4	119.3	128.7	118.5	121.4
451,2	Air transportation	113.6	112.3	121.2	110.9	113.5
46	PIPE LINES, EXCEPT NATURAL GAS	1.9	1.9	1.9	2.0	2.0
47	TRANSPORTATION SERVICES	72.6	73.7	79.0	79.0	79.7
48	COMMUNICATION	549.4	552.7	600.5	604.4	608.8
481	Telephone communication	485.1	487.3	528.7	532.1	535.4
483	Radio and television broadcasting	50.5	51.2	56.1	56.4	57.2
49	ELECTRIC, GAS, AND SANITARY SERVICES	129.7	130.6	136.7	137.2	138.5
491	Electric services	58.2	58.7	62.0	62.5	63.1
492	Gas production and distribution	31.9	32.2	33.2	33.4	33.6
493	Combination utility services	30.5	30.6	31.7	31.4	31.8
495	Sanitary services	4.5	4.5	4.7	4.7	4.8
-	WHOLESALE AND RETAIL TRADE	8,004	8,116	8,310	8,475	8,573
50,51	WHOLESALE TRADE	1,196	1,201	1,267	1,268	1,278
50	WHOLESALE TRADE-DURABLE GOODS	648	653	699	702	708
501	Motor vehicles and automotive equipment	85.4	86.2	91.7	92.1	93.8
502	Furniture and home furnishings	34.5	34.3	36.6	36.8	36.9
503	Lumber and construction materials	27.3	27.7	29.8	30.3	31.3
504	Sporting goods, toys, and hobby goods	22.5	22.3	21.5	20.4	20.9
505	Metals and minerals, except petroleum	24.0	24.4	26.5	26.7	26.8
506	Electrical goods	105.1	106.1	115.7	116.8	117.4
507	Hardware, plumbing, and heating equipment	60.4	61.1	66.7	66.5	67.0
508	Machinery, equipment, and supplies	240.9	243.0	263.2	265.1	266.3
509	Miscellaneous durable goods	47.5	47.8	47.5	47.5	47.9
51	WHOLESALE TRADE-NONDURABLE GOODS	548	548	568	566	570
511	Paper and paper products	38.8	38.5	39.4	40.0	40.4
512	Drugs, proprietaries, and sundries	57.2	57.6	61.2	61.8	62.8
513	Apparel, piece goods, and notions	75.5	75.9	78.1	77.6	77.8
514	Groceries and related products	144.0	145.0	140.2	137.0	139.1
516	Chemicals and allied products	28.1	28.5	30.2	30.4	30.5
517	Petroleum and petroleum products	45.1	45.6	47.1	47.3	47.8
518	Beer, wine, and distilled beverages	19.1	19.1	20.2	20.7	20.8
519	Miscellaneous nondurable goods	102.6	102.3	108.2	109.6	109.5

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1978	May 1978	Mar. 1979	Apr. 1979	May 1979
52-59	RETAIL TRADE	6,808	6,915	7,043	7,207	7,295
52	BUILDING MATERIALS AND GARDEN SUPPLIES	140.9	141.5	147.2	150.2	151.5
521	Lumber and other building materials	55.2	55.8	58.0	58.8	60.0
525	Hardware stores	47.3	47.8	50.2	50.8	51.7
53	GENERAL MERCHANDISE STORES	1,509.8	1,521.1	1,493.6	1,498.5	1,497.8
531	Department stores	1,202.4	1,207.3	1,182.3	1,182.0	1,178.6
533	Variety stores	216.8	220.4	215.9	219.8	220.6
539	Misc. general merchandise stores	90.6	93.4	95.4	96.7	98.6
54	FOOD STORES	874.0	888.3	926.7	933.9	936.4
541	Grocery stores	734.1	743.9	786.6	789.8	793.4
542	Meat markets and freezer provisioners	13.0	13.5	14.9	15.1	15.4
546	Retail bakeries	68.9	69.5	69.7	70.4	70.3
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	288.4	291.1	307.1	309.3	313.7
551,2	New and used car dealers	116.1	117.0	125.4	125.9	126.6
553	Auto and home supply stores	42.3	43.2	43.1	43.6	45.7
554	Gasoline service stations	115.3	116.7	124.0	125.2	126.4
56	APPAREL AND ACCESSORY STORES	583.0	584.0	599.5	615.2	611.6
561	Men's and boys' clothing and furnishings	57.6	57.9	59.4	60.1	60.3
562	Women's ready-to-wear stores	280.2	281.3	289.3	294.1	293.6
565	Family clothing stores	113.1	114.8	115.5	119.2	119.2
566	Shoe stores	66.7	65.9	70.9	77.3	74.8
57	FURNITURE AND HOME FURNISHING STORES	181.7	183.8	193.2	193.8	192.8
571	Furniture and home furnishings	121.6	123.1	125.0	125.3	125.6
572	Household appliance stores	23.7	23.6	25.4	25.5	23.9
573	Radio, television, and music stores	36.4	37.1	42.8	43.0	43.3
58	EATING AND DRINKING PLACES	2,335.8	2,400.3	2,434.4	2,552.3	2,629.3
59	MISCELLANEOUS RETAIL	894.4	904.9	941.2	954.2	961.8
591	Drug stores and proprietary stores	283.9	284.4	306.4	310.2	312.8
592	Liquor stores	23.7	24.2	29.9	29.3	33.4
594	Miscellaneous shopping goods stores	284.2	284.7	297.5	298.4	302.0
596	Nonstore retailers	151.7	149.5	149.4	146.8	142.5
598	Fuel and ice dealers	22.0	21.6	23.5	22.9	22.2
599	Retail stores, nec	109.9	120.8	113.4	125.8	128.3
-	FINANCE, INSURANCE, AND REAL ESTATE	2,638	2,655	2,799	2,812	2,825
60	BANKING	962.4	969.4	1,021.6	1,026.1	1,030.6
602	Commercial and stock savings banks	884.7	891.4	939.2	943.7	948.1
61	CREDIT AGENCIES OTHER THAN BANKS	313.7	316.7	339.2	340.8	342.4
612	Savings and loan associations	151.7	152.9	164.6	165.7	166.7
614	Personal credit institutions	108.7	110.5	117.8	118.3	118.8
62	SECURITY, COMMODITY BROKERS, AND SERVICES	69.5	70.3	77.3	77.7	77.4
621	Security brokers and dealers	56.2	57.0	62.4	62.7	62.5
63	INSURANCE CARRIERS	692.8	695.4	734.6	738.9	738.7
631	Life insurance	269.6	269.8	276.1	278.9	277.5
632	Medical service and health insurance	99.6	99.6	103.3	102.9	103.0
633	Fire, marine, and casualty insurance	276.0	277.8	305.1	306.6	307.3
64	INSURANCE AGENTS, BROKERS, AND SERVICE	235.6	236.1	249.1	249.2	250.7
65	REAL ESTATE	298.0	300.6	307.5	308.6	313.5
651	Real estate operators and lessors	130.3	129.7	130.8	131.8	132.7
653	Real estate agents and managers	123.7	126.3	132.4	133.3	136.5
655	Subdividers and developers	27.6	27.7	27.0	25.6	26.0
66	COMBINED REAL ESTATE, INSURANCE, ETC	18.3	18.4	18.6	18.6	18.8
67	HOLDING AND OTHER INVESTMENT OFFICES	47.7	47.9	51.5	51.7	52.8
-	SERVICES	9,171	9,231	9,594	9,673	9,735
70	HOTELS AND OTHER LODGING PLACES	498.4	512.3	493.8	520.3	533.9
701	Hotels, motels, and tourist courts	481.0	493.6	476.9	503.5	516.1

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1978	May 1978	Mar. 1979	Apr. 1979	May 1979
72	PERSONAL SERVICES	598.2	602.7	615.0	615.4	606.8
721	Laundry, cleaning, and garment services	220.1	221.9	219.4	219.9	222.0
723	Beauty shops	246.9	248.2	255.0	255.5	251.8
726	Funeral service and crematories	18.0	18.1	18.9	19.1	19.1
73	BUSINESS SERVICES	1,033.6	1,042.3	1,136.7	1,138.1	1,159.6
731	Advertising	60.8	61.3	68.3	68.4	68.9
732	Credit reporting and collection	64.1	64.6	64.5	64.6	64.7
733	Mailing, reproduction, stenographic	48.4	47.5	50.7	49.9	50.6
734	Services to buildings	153.6	155.8	165.8	169.1	172.7
736	Personnel supply services	221.7	224.4	247.1	245.3	254.8
737	Computer and data processing services	95.7	95.6	111.4	112.6	112.6
75	AUTO REPAIR, SERVICES, AND GARAGES	84.1	84.2	88.8	89.3	89.0
753	Automotive repair shops	36.9	38.2	38.8	39.7	39.3
76	MISCELLANEOUS REPAIR SERVICES	45.2	45.5	51.6	52.4	52.5
78	MOTION PICTURES	79.4	80.3	79.3	82.6	83.4
781	Motion picture production and services	21.9	21.1	25.2	24.3	22.4
783	Motion picture theaters	51.9	53.7	48.6	52.8	55.6
79	AMUSEMENT AND RECREATION SERVICES	251.0	270.7	244.1	267.5	281.0
80	HEALTH SERVICES	3,825.8	3,838.1	3,987.4	3,999.5	4,014.3
801	Offices of physicians	527.1	530.7	549.3	551.6	555.4
802	Offices of dentists	247.1	246.6	254.1	256.0	258.6
805	Nursing and personal care facilities	788.7	792.9	831.8	836.1	841.6
806	Hospitals	2,031.4	2,033.9	2,103.1	2,103.5	2,105.7
81	LEGAL SERVICES	295.7	297.8	316.9	315.6	317.3
82	EDUCATIONAL SERVICES	572.7	556.5	556.0	553.2	541.3
821	Elementary and secondary schools	155.6	155.6	149.8	148.3	147.9
822	Colleges and universities	359.8	344.0	345.7	344.1	332.2
83	SOCIAL SERVICES	682.7	689.2	745.2	748.3	760.8
89	MISCELLANEOUS SERVICES	255.6	253.0	282.3	282.3	277.6
891	Engineering and architectural services	86.8	87.9	94.4	95.4	97.3
893	Accounting, auditing, and bookkeeping	118.0	114.0	132.2	130.7	124.2
-	GOVERNMENT	7,398	7,434	7,481	7,512	7,503
-	FEDERAL GOVERNMENT	868	878	859	864	871
-	STATE AND LOCAL GOVERNMENT	6,530	6,556	6,622	6,648	6,632
-	State government	1,573.4	1,549.2	1,564.2	1,559.6	1,538.9
-	Hospitals	318.7	315.5	330.5	333.2	331.0
-	State education	651.3	630.0	660.0	655.5	637.3
-	General administration including executive, legislative, and judicial functions	421.3	419.4	388.5	386.8	385.2
-	Local government	4,956.8	5,006.8	5,058.1	5,088.3	5,092.7
-	Transportation and public utilities	72.0	73.3	85.6	86.0	88.0
-	Hospitals	386.7	388.8	406.0	405.9	408.6
-	Local education	3,405.5	3,432.2	3,493.2	3,518.4	3,509.8
-	General administration including executive, legislative, and judicial functions	903.0	920.6	884.8	889.4	894.0

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						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^P	July ^P
TOTAL	86,033	86,149	86,163	86,573	87,036	87,281	87,524	87,818	88,263	88,248	88,539	88,709	88,753
GOODS-PRODUCING	25,501	25,463	25,471	25,670	25,872	26,030	26,111	26,199	26,412	26,351	26,423	26,451	26,445
MINING	882	887	887	893	903	904	905	919	922	922	923	931	939
CONSTRUCTION	4,317	4,298	4,298	4,341	4,368	4,397	4,381	4,385	4,526	4,507	4,594	4,622	4,670
MANUFACTURING	20,302	20,278	20,286	20,436	20,601	20,729	20,825	20,895	20,964	20,922	20,906	20,898	20,836
DURABLE GOODS	12,138	12,146	12,166	12,305	12,410	12,491	12,562	12,647	12,699	12,665	12,645	12,653	12,637
Lumber and wood products	743	743	744	748	759	765	770	773	768	758	758	756	751
Furniture and fixtures	485	481	480	484	487	491	494	493	491	488	483	480	480
Stone, clay, and glass products	698	692	692	696	701	707	706	709	714	711	712	712	708
Primary metal industries	1,199	1,205	1,214	1,220	1,235	1,240	1,241	1,251	1,254	1,253	1,247	1,250	1,239
Fabricated metal products	1,643	1,646	1,650	1,667	1,684	1,697	1,706	1,715	1,712	1,712	1,711	1,709	1,693
Machinery, except electrical	2,345	2,351	2,358	2,391	2,404	2,425	2,447	2,465	2,481	2,496	2,499	2,514	2,516
Electric and electronic equipment	1,977	1,975	1,972	1,987	2,001	2,011	2,027	2,042	2,064	2,062	2,064	2,080	2,089
Transportation equipment	1,937	1,941	1,943	1,991	2,010	2,021	2,031	2,055	2,067	2,038	2,031	2,005	2,019
Instruments and related products	660	661	662	665	671	676	681	686	690	693	692	697	706
Miscellaneous manufacturing ind.	451	451	451	456	458	458	459	458	458	454	448	450	436
NONDURABLE GOODS	8,164	8,132	8,120	8,131	8,191	8,238	8,263	8,243	8,265	8,257	8,261	8,245	8,199
Food and kindred products	1,688	1,670	1,665	1,667	1,693	1,711	1,716	1,708	1,716	1,709	1,702	1,701	1,667
Tobacco manufactures	73	69	70	71	71	72	72	71	73	73	74	74	72
Textile mill products	909	903	907	907	910	910	912	911	909	903	904	901	898
Apparel and other textile products	1,307	1,309	1,309	1,307	1,307	1,312	1,318	1,304	1,301	1,305	1,303	1,295	1,303
Paper and allied products	710	698	697	692	700	705	708	712	717	719	718	718	717
Printing and publishing	1,187	1,188	1,178	1,185	1,198	1,203	1,209	1,214	1,219	1,219	1,222	1,227	1,231
Chemicals and allied products	1,091	1,089	1,088	1,089	1,093	1,097	1,099	1,098	1,098	1,101	1,106	1,109	1,106
Petroleum and coal products	207	209	209	210	210	211	211	212	214	214	213	212	212
Rubber and misc. plastic products	749	746	744	752	761	771	773	777	778	776	779	769	774
Leather and leather products	243	251	253	251	248	246	245	241	240	238	240	239	219
SERVICE-PRODUCING	60,532	60,686	60,692	60,903	61,164	61,251	61,413	61,619	61,851	61,897	62,116	62,258	62,308
TRANSPORTATION AND PUBLIC UTILITIES	4,827	4,846	4,885	4,922	4,947	4,967	4,974	5,001	5,025	4,935	5,031	5,075	5,085
WHOLESALE AND RETAIL TRADE ..	19,469	19,523	19,546	19,632	19,701	19,697	19,817	19,883	19,945	19,959	19,985	19,969	19,950
WHOLESALE TRADE	4,901	4,905	4,917	4,945	4,968	4,995	5,020	5,035	5,055	5,062	5,080	5,097	5,094
RETAIL TRADE	14,568	14,618	14,629	14,687	14,733	14,702	14,797	14,848	14,890	14,897	14,905	14,872	14,856
FINANCE, INSURANCE, AND REAL ESTATE	4,690	4,707	4,719	4,737	4,774	4,789	4,809	4,839	4,839	4,853	4,867	4,889	4,904
SERVICES	15,989	16,074	16,127	16,169	16,270	16,237	16,352	16,438	16,535	16,575	16,622	16,688	16,722
GOVERNMENT	15,557	15,536	15,445	15,443	15,472	15,471	15,461	15,468	15,507	15,575	15,611	15,637	15,647
FEDERAL	2,765	2,765	2,752	2,760	2,757	2,734	2,755	2,755	2,754	2,756	2,770	2,793	2,792
STATE AND LOCAL	12,792	12,771	12,693	12,683	12,715	12,737	12,706	12,713	12,753	12,819	12,841	12,844	12,855

^Ppreliminary.

**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				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
TOTAL	34,921	35,077	35,099	35,170	35,256	35,381	35,622	35,758	35,953	36,069	36,191	36,369	36,480
GOODS-PRODUCING	6,568	6,592	6,584	6,587	6,594	6,645	6,703	6,754	6,803	6,815	6,844	6,858	6,869
MINING	73	75	77	77	78	79	80	81	82	82	84	86	88
CONSTRUCTION	329	334	337	338	377	339	339	340	344	350	353	358	362
MANUFACTURING	6,166	6,183	6,170	6,172	6,179	6,227	6,284	6,333	6,377	6,383	6,407	6,414	6,419
DURABLE GOODS	2,848	2,862	2,870	2,875	2,887	2,924	2,954	2,982	3,005	3,033	3,055	3,056	3,060
Lumber and wood products	106	107	106	106	106	108	110	111	112	113	114	113	112
Furnitures and fixtures	142	141	142	141	141	142	143	144	146	146	144	144	143
Stone, clay, and glass products	130	129	129	130	130	130	131	133	132	133	135	134	135
Primary metal industries	117	120	121	122	124	125	126	128	129	130	131	132	133
Fabricated metal products	339	339	336	337	338	343	346	350	353	355	357	356	357
Machinery, except electrical	429	433	437	437	441	448	450	457	461	466	471	477	480
Electric and electronic equipment	815	818	823	823	821	831	838	845	852	861	871	870	874
Transportation equipment	284	285	286	286	291	300	308	311	314	321	322	318	319
Instruments and related products	273	277	279	281	282	282	285	287	290	293	294	297	296
Miscellaneous manufacturing ind.	213	213	211	212	213	215	217	216	216	215	216	215	211
NONDURABLE GOODS	3,318	3,321	3,300	3,297	3,292	3,303	3,330	3,351	3,372	3,350	3,352	3,358	3,359
Food and kindred products	480	485	482	469	467	417	485	495	501	495	496	496	496
Tobacco manufactures	28	27	27	24	25	26	26	27	27	26	27	27	27
Textile mill products	430	429	430	428	429	430	430	431	431	430	430	428	428
Apparel and other textile products	1,076	1,074	1,059	1,064	1,064	1,061	1,061	1,064	1,070	1,057	1,053	1,056	1,054
Paper and allied products	161	160	159	159	158	157	159	160	162	162	164	165	163
Printing and publishing	451	452	452	456	455	459	464	466	472	473	475	476	476
Chemicals and allied products	256	256	258	257	257	258	261	263	265	264	265	265	268
Petroleum and coal products	25	25	25	25	25	25	25	25	25	25	25	25	26
Rubber and misc. plastics products	258	260	260	262	258	262	268	271	271	272	272	274	275
Leather and leather products	153	153	148	153	154	154	151	149	148	146	145	145	146
SERVICE-PRODUCING	28,353	28,485	28,515	28,583	28,662	28,736	28,919	29,004	29,150	29,254	29,347	29,511	29,611
TRANSPORTATION AND PUBLIC UTILITIES	1,102	1,115	1,117	1,127	1,131	1,145	1,150	1,158	1,177	1,186	1,193	1,184	1,193
WHOLESALE AND RETAIL TRADE ..	8,188	8,225	8,258	8,303	8,322	8,354	8,389	8,372	8,467	8,511	8,523	8,575	8,619
WHOLESALE TRADE	1,210	1,217	1,215	1,216	1,222	1,242	1,250	1,260	1,267	1,268	1,277	1,280	1,287
RETAIL TRADE	6,978	7,008	7,043	7,087	7,100	7,112	7,139	7,112	7,200	1,243	7,246	7,295	7,332
FINANCE, INSURANCE, AND REAL ESTATE	2,658	2,679	2,696	2,709	2,720	2,742	2,764	2,778	2,793	2,798	2,807	2,820	2,828
SERVICES	9,176	9,220	9,260	9,315	9,333	9,354	9,440	9,506	9,529	9,564	9,623	9,644	9,677
GOVERNMENT	7,229	7,246	7,184	7,129	7,156	7,141	7,176	7,190	7,184	7,195	7,201	7,288	7,294
FEDERAL	882	874	879	880	877	878	874	859	862	860	858	859	874
STATE AND LOCAL	6,347	6,372	6,305	6,249	6,279	6,263	6,302	6,331	6,322	6,335	6,343	6,429	6,420

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

ESTABLISHMENT DATA

SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^P	July ^P
TOTAL PRIVATE	57,710	57,771	57,861	58,151	58,576	58,780	58,914	59,157	59,514	59,391	59,611	59,708	59,721
GOODS-PRODUCING	18,675	18,619	18,629	18,795	18,974	19,114	19,151	19,214	19,395	19,322	19,373	19,376	19,363
MINING	667	668	671	675	683	682	687	694	694	693	694	696	696
CONSTRUCTION	3,439	3,419	3,422	3,465	3,488	3,513	3,468	3,473	3,613	3,594	3,673	3,698	3,738
MANUFACTURING	14,569	14,532	14,536	14,655	14,803	14,919	14,996	15,047	15,088	15,035	15,006	14,982	14,929
DURABLE GOODS	8,694	8,693	8,706	8,816	8,909	8,985	9,034	9,100	9,131	9,090	9,059	9,050	9,024
Lumber and wood products	637	636	636	641	649	654	658	660	658	648	646	646	643
Furniture and fixtures	398	394	395	398	400	403	405	404	402	399	395	392	393
Stone, clay, and glass products	554	549	548	551	556	561	560	562	566	563	563	546	558
Primary metal industries	942	947	953	960	976	981	981	991	992	990	983	986	978
Fabricated metal products	1,245	1,245	1,248	1,264	1,280	1,291	1,295	1,305	1,301	1,298	1,296	1,295	1,280
Machinery, except electrical	1,547	1,544	1,550	1,576	1,581	1,603	1,615	1,630	1,638	1,649	1,648	1,654	1,656
Electric and electronic equipment	1,293	1,293	1,290	1,301	1,312	1,320	1,334	1,345	1,362	1,359	1,357	1,366	1,363
Transportation equipment	1,328	1,336	1,337	1,370	1,393	1,407	1,415	1,429	1,437	1,412	1,405	1,377	1,388
Instruments and related products	407	405	406	408	412	416	420	424	425	426	424	427	435
Miscellaneous manufacturing ind.	343	344	343	347	350	349	351	350	350	346	342	343	330
NONDURABLE GOODS	5,875	5,839	5,830	5,839	5,894	5,934	5,962	5,947	5,957	5,945	5,947	5,932	5,905
Food and kindred products	1,142	1,124	1,122	1,122	1,148	1,166	1,174	1,165	1,175	1,170	1,163	1,163	1,135
Tobacco manufactures	58	54	56	57	56	58	58	57	58	58	60	60	57
Textile mill products	791	785	790	790	795	793	795	793	790	785	787	784	784
Apparel and other textile products	1,121	1,127	1,124	1,123	1,123	1,124	1,131	1,119	1,114	1,116	1,114	1,106	1,114
Paper and allied products	535	523	522	519	525	531	534	538	543	544	545	545	546
Printing and publishing	669	667	657	663	672	676	681	685	689	688	691	691	700
Chemicals and allied products	628	623	624	624	627	630	632	632	630	632	632	636	636
Petroleum and coal products	135	136	137	137	138	139	139	140	141	140	139	139	140
Rubber and misc. plastics products	587	584	581	589	598	607	609	613	613	610	612	604	609
Leather and leather products	209	216	217	215	212	210	209	205	204	202	204	204	184
SERVICE-PRODUCING	39,035	39,152	39,232	39,356	39,602	39,666	39,763	39,943	40,119	40,069	40,238	40,332	40,358
TRANSPORTATION AND PUBLIC UTILITIES	4,051	4,066	4,064	4,129	4,150	4,155	4,168	4,186	4,204	4,120	4,211	4,243	4,246
WHOLESALE AND RETAIL TRADE	17,165	17,214	17,228	17,288	17,372	17,355	17,430	17,502	17,554	17,553	17,576	17,555	17,529
WHOLESALE TRADE	4,040	4,042	4,053	4,075	4,093	4,109	4,127	4,144	4,163	4,167	4,177	4,191	4,185
RETAIL TRADE	13,125	13,172	13,175	13,213	13,279	13,246	13,303	13,358	13,391	13,386	13,399	13,364	13,344
FINANCE, INSURANCE, AND REAL ESTATE	3,565	3,579	3,591	3,603	3,635	3,644	3,663	3,672	3,681	3,694	3,701	3,719	3,729
SERVICES	14,254	14,293	14,349	14,336	14,445	14,512	14,502	14,583	14,680	14,702	14,750	14,815	14,854

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

^Ppreliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-7. Indexes of diffusion: Percent of industries in which employment¹ increased

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
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	72.4
November.....	80.2	85.5	84.6	75.0
December.....	79.7	87.2	86.0	71.5p
1979				
January.....	74.1	82.3	81.7	71.8p
February.....	65.1	77.9	69.2	
March.....	62.5	58.4	66.3p	
April.....	44.2	53.2	53.2p	
May.....	48.0	51.7p		
June.....	60.2p	53.5p		
July.....	50.6p			
August.....				
September.....				
October.....				
November.....				
December.....				

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

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
1 ALABAMA	1,358.5	1,356.0	1,350.7	15.9	15.8	16.0	84.1	78.9	81.5	370.1	361.6	361.5
2 Birmingham	353.7	357.3	357.4	9.1	9.0	9.1	25.5	22.4	23.0	69.5	69.3	69.5
3 Huntsville	118.2	120.4	119.3	(1)	(1)	(1)	4.5	4.2	4.5	35.0	36.0	34.3
4 Mobile	150.2	147.6	149.5	(1)	(1)	(1)	12.2	13.2	13.8	31.5	28.7	28.6
5 Montgomery	104.7	106.9	108.5	(1)	(1)	(1)	7.1	7.8	8.1	16.2	16.0	16.1
6 Tuscaloosa	48.3	49.6	48.3	1.1	1.2	1.2	3.2	3.1	3.2	9.1	9.0	9.1
7 ALASKA	171.7	162.4	(*)	5.8	5.6	(*)	14.4	9.4	(*)	13.7	11.3	(*)
8 ARIZONA	867.6	951.9	934.3	19.5	20.7	21.4	69.0	79.3	77.1	124.7	137.4	139.5
9 Phoenix	538.7	592.5	585.2	.2	.2	.2	42.8	52.1	50.2	91.6	101.6	102.9
10 Tucson	156.5	172.0	167.2	5.9	6.5	6.8	11.9	13.7	13.4	14.8	18.2	18.4
11 ARKANSAS	733.8	749.3	746.3	4.9	5.1	5.3	40.0	39.1	41.4	220.8	217.1	220.2
12 Fayetteville-Springdale	59.5	62.5	62.1	(1)	(1)	(1)	3.4	3.3	3.4	18.3	18.7	19.0
13 Fort Smith	68.2	67.4	67.3	.8	.8	.8	3.1	3.3	3.5	26.0	23.9	24.9
14 Little Rock-North Little Rock	174.6	176.9	178.3	(1)	(1)	(1)	9.5	9.4	9.8	32.2	31.2	31.4
15 Pine Bluff	30.6	31.1	31.2	(1)	(1)	(1)	2.4	2.1	2.1	6.4	6.3	6.3
16 CALIFORNIA	9,322.9	9,600.5	9,677.8	37.4	38.4	39.0	429.9	439.0	447.8	1,871.1	1,958.8	1,966.4
17 Anaheim-Santa Ana-Garden Grove	760.1	805.9	815.4	2.3	2.3	2.4	48.1	49.4	51.1	196.9	212.0	213.5
18 Bakersfield	123.3	123.9	125.7	10.1	10.4	10.5	7.0	7.3	7.3	9.3	9.6	9.7
19 Fresno	177.0	183.6	184.5	.9	.9	.9	11.7	12.9	13.4	23.2	24.0	24.1
20 Los Angeles-Long Beach	3,465.4	3,560.9	3,573.7	11.4	11.5	11.6	109.0	112.6	114.2	880.8	922.9	925.2
21 Modesto	83.8	86.2	87.2	.1	.1	.1	6.1	6.4	6.5	17.4	18.1	18.6
22 Oxnard-Simi Valley-Ventura	139.3	142.1	141.8	2.4	2.4	2.4	7.3	7.5	7.6	20.2	21.5	21.0
23 Riverside-San Bernardino-Ontario	414.8	432.7	431.6	2.5	2.5	2.5	27.3	29.1	29.6	63.5	66.5	66.8
24 Sacramento	383.3	393.4	397.6	.4	.4	.4	22.9	24.0	25.6	26.3	27.1	27.1
25 Salinas-Seaside-Monterey	86.9	87.4	87.9	.6	.6	.6	3.7	3.6	3.7	10.3	10.9	10.7
26 San Diego	599.7	628.4	631.3	.7	.7	.7	38.7	41.3	41.6	88.0	97.0	97.8
27 San Francisco-Oakland	1,493.1	1,525.7	1,546.9	1.8	2.0	2.0	69.5	71.5	73.0	200.1	205.9	207.7
28 San Jose	589.0	616.0	622.1	.1	.1	.1	24.1	23.8	25.0	194.5	213.1	216.9
29 Santa Barbara-Santa Maria-Lompoc	116.1	116.0	116.0	1.0	1.1	1.1	4.9	4.9	5.2	15.0	15.3	15.2
30 Santa Rosa	84.3	86.2	87.5	.4	.4	.4	5.3	5.1	5.5	12.6	13.7	14.1
31 Stockton	115.8	118.8	119.0	.1	.1	.1	5.9	6.4	6.5	19.4	19.6	19.4
32 Vallejo-Fairfield-Napa	98.5	99.2	100.2	.3	.3	.3	4.8	5.0	5.2	10.3	10.5	11.2
33 COLORADO	1,149.4	1,176.5	1,196.1	28.0	29.8	31.1	75.5	74.7	80.2	166.6	176.1	179.8
34 Denver-Boulder	727.9	746.7	757.0	15.3	16.8	17.5	45.9	47.8	50.6	115.5	120.2	122.2
35 CONNECTICUT	1,374.4	1,399.1	1,417.0	(2)	(2)	(2)	52.0	50.3	53.6	425.5	432.1	435.6
36 Bridgeport	162.0	165.8	167.3	(2)	(2)	(2)	5.3	6.0	6.5	63.6	65.8	66.4
37 Hartford	375.5	382.9	387.9	(2)	(2)	(2)	13.2	13.1	13.7	88.9	91.6	92.9
38 New Britain	61.2	60.1	60.2	(2)	(2)	(2)	2.3	2.1	2.2	29.0	27.3	27.5
39 New Haven-West Haven	191.3	192.2	193.5	(2)	(2)	(2)	6.7	6.3	6.6	46.1	45.7	46.2
40 Stamford	104.8	106.6	108.3	(2)	(2)	(2)	5.0	5.1	5.4	30.6	31.0	31.0
41 Waterbury	87.6	89.3	89.9	(2)	(2)	(2)	3.4	3.3	3.6	33.2	33.0	32.7
42 DELAWARE	253.1	251.4	250.9	(1)	(1)	(1)	16.4	15.1	15.1	70.9	68.6	69.3
43 Wilmington	220.2	219.4	218.5	(1)	(1)	(1)	16.0	14.3	14.3	65.6	63.7	64.2
44 DISTRICT OF COLUMBIA	596.0	594.7	598.6	(1)	(1)	(1)	14.9	14.5	14.9	15.2	15.1	15.2
45 Washington SMSA	1,474.7	1,484.4	1,502.0	(1)	(1)	(1)	82.7	77.9	80.8	51.9	52.9	53.1
46 FLORIDA	3,138.1	3,262.3	3,269.3	9.5	9.6	9.6	208.3	218.2	225.9	419.9	447.8	447.8
47 Daytona Beach	70.9	74.5	74.8	(1)	(1)	(1)	4.0	4.4	4.5	7.0	8.1	8.1
48 Fort Lauderdale-Hollywood	287.5	297.3	297.8	(1)	(1)	(1)	22.6	23.3	24.0	35.5	37.4	38.0
49 Gainesville	61.9	62.1	62.6	(1)	(1)	(1)	3.2	3.1	3.2	3.9	3.8	3.9
50 Jacksonville	278.0	283.4	284.5	(1)	(1)	(1)	15.9	15.2	15.5	31.7	32.5	32.5
51 Miami	645.0	664.1	672.0	(1)	(1)	(1)	31.2	32.2	35.2	95.7	97.0	97.6
52 Orlando	252.6	264.6	263.3	(1)	(1)	(1)	15.3	15.9	16.4	31.4	34.4	34.1
53 Pensacola	93.4	94.7	95.6	(1)	(1)	(1)	6.2	6.5	6.7	13.3	13.3	13.2
54 Sarasota	61.6	62.9	63.0	(1)	(1)	(1)	6.3	6.3	6.5	6.0	6.8	6.7
55 Tallahassee	67.8	69.1	69.5	(1)	(1)	(1)	3.1	3.3	3.4	2.5	2.5	2.5
56 Tampa-St. Petersburg	478.0	489.8	488.7	(1)	(1)	(1)	31.0	32.2	33.0	66.4	69.4	69.6
57 West Palm Beach-Boca Raton	168.4	180.9	179.0	(1)	(1)	(1)	14.6	16.3	16.5	22.1	25.4	25.6
58 GEORGIA	2,001.5	2,025.4	2,027.7	7.6	7.7	7.9	100.7	95.3	96.7	512.8	518.4	518.7
59 Albany	40.0	44.1	43.8	(1)	(1)	(1)	2.7	4.6	4.4	10.1	11.3	11.4
60 Atlanta	853.9	867.3	866.1	(1)	(1)	(1)	39.4	37.0	38.0	136.2	137.8	134.9
61 Augusta	116.2	120.7	120.9	(1)	(1)	(1)	7.3	6.8	6.7	35.6	36.3	36.6
62 Columbus	81.0	80.8	81.2	(1)	(1)	(1)	5.1	4.5	4.7	20.2	20.7	20.7
63 Macon	95.1	94.2	96.1	(1)	(1)	(1)	4.6	4.3	4.6	15.3	14.0	14.6

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			
JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	
70.1	71.4	71.5	270.7	274.2	274.2	58.3	58.8	59.2	193.6	197.5	198.4	295.7	297.8	288.4	1
27.7	28.8	28.9	84.0	86.7	86.9	22.9	23.0	23.3	62.8	64.8	64.9	52.2	53.3	51.8	2
2.7	2.7	2.7	21.7	22.4	22.5	3.6	3.5	3.5	18.0	17.8	18.2	32.7	33.8	33.6	3
10.8	10.8	10.8	36.8	36.1	36.6	7.0	7.2	7.3	27.0	27.1	27.3	24.5	24.5	25.1	4
4.9	5.0	5.2	24.5	24.5	24.6	5.9	6.0	6.1	18.4	19.0	18.9	27.7	28.6	29.5	5
1.8	1.7	1.7	9.6	9.5	9.3	1.7	1.7	1.7	5.7	5.9	5.9	16.1	17.5	16.2	6
17.2	16.5	(*)	30.0	28.1	(*)	8.1	7.5	(*)	29.0	27.8	(*)	53.5	56.2	(*)	7
44.7	47.9	48.0	212.1	228.1	226.2	49.3	52.1	52.5	168.8	185.0	184.9	179.5	201.4	184.7	8
26.7	28.6	28.9	141.2	153.1	151.6	37.9	39.8	39.9	106.2	116.7	116.5	92.1	100.4	95.0	9
8.0	8.7	8.7	36.0	37.9	37.6	7.0	7.5	7.6	32.9	35.6	34.9	40.0	43.9	39.8	10
41.2	43.5	44.1	159.3	163.5	164.1	30.8	31.4	31.9	105.3	111.7	112.6	131.5	137.9	126.7	11
3.3	3.4	3.5	14.4	14.7	14.7	2.2	2.2	2.3	7.9	8.6	8.7	10.0	11.6	10.5	12
3.3	3.4	3.5	14.6	14.7	14.7	2.4	2.5	2.5	10.9	11.0	11.2	7.1	7.8	6.2	13
12.3	12.5	12.6	40.5	41.4	41.7	12.0	12.1	12.2	31.8	33.7	34.2	36.3	36.6	36.4	14
3.7	3.8	3.8	6.2	6.0	6.1	1.2	1.2	1.2	4.6	4.8	4.9	6.1	6.9	6.6	15
510.1	513.5	536.0	2,141.2	2,247.6	2,265.2	551.3	583.2	585.1	1,949.3	2,087.7	2,100.1	1,832.6	1,732.3	1,738.2	16
23.6	26.0	26.2	183.2	196.5	199.5	46.5	51.7	52.4	150.7	162.5	165.1	108.8	105.5	105.2	17
7.2	7.5	7.5	31.8	31.5	32.6	4.4	4.6	4.6	20.5	21.3	21.4	33.0	31.7	32.1	18
9.8	10.3	10.4	46.7	48.2	49.8	9.6	10.0	10.1	33.4	35.0	34.8	41.7	42.3	41.0	19
189.0	195.2	201.5	792.7	824.9	825.8	211.8	217.4	217.6	761.6	795.1	800.1	509.1	481.3	477.7	20
3.6	3.6	3.6	19.8	21.7	21.9	2.8	3.1	3.1	15.6	16.4	16.5	18.4	16.8	16.9	21
6.0	6.2	6.2	33.7	34.5	34.4	5.8	6.1	6.1	25.5	27.3	27.4	38.8	36.6	36.7	22
21.5	22.8	23.1	98.8	105.3	105.0	16.9	17.6	17.7	83.5	89.1	88.0	100.8	99.8	98.9	23
20.2	21.2	21.7	85.2	90.1	91.2	18.5	20.2	20.4	67.6	73.2	74.0	142.2	137.2	137.2	24
4.9	4.8	4.9	21.9	22.1	22.3	3.9	4.0	4.1	18.3	18.6	18.9	23.3	22.8	22.7	25
26.1	26.9	27.0	138.7	148.1	148.6	33.0	34.9	35.1	131.4	138.3	139.2	143.1	141.2	141.3	26
125.5	117.7	129.2	341.3	359.5	362.0	132.1	137.3	137.9	318.1	337.0	339.5	304.7	294.8	295.6	27
19.8	20.5	20.8	113.5	118.1	119.0	23.5	24.9	25.1	129.1	134.7	136.1	84.4	80.8	79.1	28
4.3	4.3	4.4	29.8	30.2	30.1	4.8	4.9	4.9	29.1	30.4	30.2	27.2	24.9	24.9	29
4.1	4.2	4.2	20.2	20.9	21.3	5.2	5.3	5.3	16.1	16.5	16.5	20.4	20.1	20.2	30
7.8	8.0	8.3	26.8	27.9	28.3	4.7	5.0	5.0	22.1	23.9	23.6	29.0	27.9	27.8	31
4.4	4.3	4.4	15.8	20.5	20.7	3.3	3.5	3.5	16.9	17.9	17.3	38.7	37.2	37.6	32
69.2	70.4	74.9	287.4	290.0	292.4	68.3	70.9	71.5	235.0	240.4	246.1	219.5	224.3	219.9	33
47.7	48.5	52.1	182.0	183.6	184.7	48.8	50.1	50.6	151.6	157.2	158.9	121.1	122.5	120.4	34
59.3	59.9	61.1	288.4	294.8	298.5	96.8	98.8	99.7	267.0	276.1	280.5	185.5	187.1	188.2	35
5.9	6.2	6.2	33.1	33.0	33.1	6.8	6.6	6.8	30.5	31.5	31.6	16.7	16.8	16.8	36
14.9	15.2	15.4	78.6	80.5	81.1	54.9	56.1	57.0	71.8	74.5	76.0	53.3	52.0	51.9	37
1.5	1.5	1.5	10.5	10.6	10.7	1.7	1.7	1.7	9.6	9.8	9.9	6.7	7.0	6.7	38
15.5	15.4	15.5	40.1	40.6	41.0	10.4	10.6	10.6	46.0	46.6	46.9	26.6	27.1	26.7	39
3.7	3.8	3.9	24.2	24.5	24.9	7.3	7.4	7.5	24.4	25.1	25.7	9.7	9.9	9.9	40
3.0	3.1	3.1	15.8	16.0	16.2	3.2	3.2	3.3	17.8	19.1	19.4	11.2	11.6	11.7	41
13.0	13.0	13.0	55.8	54.6	54.5	11.5	11.5	11.7	43.1	43.3	44.1	42.5	45.2	43.2	42
12.3	12.3	12.3	44.2	44.0	43.6	10.3	10.2	10.3	37.3	38.5	39.2	34.5	36.5	34.7	43
25.7	25.8	26.0	65.0	65.9	66.0	33.8	33.9	34.2	159.0	163.5	162.7	282.4	276.0	279.6	44
65.3	64.7	67.2	282.5	287.0	288.0	85.1	87.7	88.8	364.9	374.8	377.8	542.3	539.4	546.3	45
191.8	205.0	204.8	801.1	827.9	820.0	218.3	234.8	237.3	672.5	704.6	703.3	616.7	614.4	620.6	46
2.6	2.8	2.8	20.5	20.6	20.4	3.9	4.3	4.3	19.4	20.2	20.5	13.5	14.1	14.2	47
14.0	14.9	14.6	80.6	83.9	82.3	24.2	25.0	25.4	67.7	69.7	69.9	42.9	43.1	43.6	48
1.5	1.5	1.6	12.9	12.0	11.7	2.5	2.8	2.7	8.1	8.3	8.3	29.6	30.6	31.2	49
22.3	23.2	23.3	72.2	73.2	73.6	27.5	28.3	28.4	54.2	55.2	55.4	54.2	55.8	55.8	50
61.5	68.3	68.8	163.7	166.3	168.6	46.0	48.9	49.0	153.8	159.2	159.3	53.1	92.2	93.5	51
11.8	13.1	13.1	71.5	73.4	72.9	16.4	17.9	18.1	66.1	68.3	68.6	40.1	41.6	40.1	52
4.8	5.0	5.1	22.0	22.2	22.3	4.2	4.3	4.5	18.1	18.1	18.3	24.6	25.3	25.5	53
2.7	2.7	2.7	17.5	17.9	17.5	4.8	4.8	4.8	15.1	14.7	15.0	9.2	9.7	9.8	54
2.2	2.3	2.2	13.6	13.6	13.7	3.1	3.1	3.1	9.1	9.8	9.8	34.2	34.5	34.6	55
27.9	28.3	28.2	131.5	134.7	131.9	34.3	36.5	36.9	106.3	110.8	110.5	80.6	77.9	78.6	56
7.4	8.0	8.0	43.1	46.0	44.8	13.4	14.2	14.3	37.7	40.3	39.1	30.1	30.7	30.7	57
127.3	128.2	128.7	458.1	463.3	463.9	102.0	105.1	105.4	300.8	304.6	306.6	392.2	402.6	399.8	58
1.8	1.9	1.9	9.1	9.5	9.2	1.7	1.8	1.7	5.1	4.8	4.9	9.6	10.2	10.3	59
76.4	79.1	79.5	238.4	238.4	238.4	58.8	61.6	62.0	158.3	160.0	161.9	146.4	153.6	151.4	60
4.1	4.3	4.3	21.1	24.7	24.4	4.2	4.3	4.3	14.7	15.6	15.6	29.1	28.6	28.9	61
3.4	3.4	3.5	17.3	17.4	17.5	5.2	5.3	5.3	11.0	10.5	10.6	18.8	18.9	18.8	62
4.5	4.6	4.6	19.8	19.7	19.9	5.8	5.8	5.8	15.0	14.9	15.1	30.1	31.0	31.4	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		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
GEORGIA—Continued												
1 Savannah	84.1	84.0	85.2	(1)	(1)	(1)	6.1	5.6	5.6	17.1	16.4	16.8
HAWAII												
2 Honolulu	378.3	380.3	382.3	(1)	(1)	(1)	20.7	21.8	22.1	26.6	23.4	25.0
3 Honolulu	313.9	314.9	316.6	(1)	(1)	(1)	17.3	18.2	18.2	20.1	17.4	18.8
IDAHO												
4 Boise City	331.4	343.1	347.9	3.9	4.0	4.1	21.7	18.8	19.7	57.7	58.4	60.0
5 Boise City	80.1	85.7	86.7	(1)	(1)	(1)	6.9	6.8	7.1	9.2	10.0	10.3
ILLINOIS												
6 Bloomington-Normal	4,778.0	4,839.9	4,872.2	28.4	27.6	28.7	186.5	171.9	180.0	1,242.3	1,244.7	1,255.6
7 Champaign-Urbana-Rantoul	45.7	46.8	46.3	(2)	(2)	(2)	1.7	1.4	1.5	6.7	6.3	6.4
8 Chicago-Gary	65.7	68.4	68.8	(2)	(2)	(2)	2.9	2.9	3.1	7.6	7.9	8.0
9 Chicago SMSA ³	3,419.6	(*)	(*)	4.9	(*)	(*)	149.0	(*)	(*)	942.7	(*)	(*)
10 Davenport-Rock Island-Moline	3,162.1	3,214.2	3,237.7	4.8	4.9	5.0	133.1	128.2	134.0	839.8	845.2	851.2
11 Decatur	158.1	162.5	164.0	(2)	(2)	(2)	7.7	7.1	7.5	46.6	50.3	50.6
12 Kankakee	53.9	55.2	55.7	(2)	(2)	(2)	3.1	3.2	3.3	19.4	19.3	19.3
13 Peoria	31.5	33.4	33.2	(2)	(2)	(2)	1.1	1.0	1.1	8.1	9.7	9.4
14 Rockford	150.2	152.0	153.5	(2)	(2)	(2)	8.9	9.0	9.4	51.7	51.6	52.1
15 Springfield	120.4	122.7	124.1	(2)	(2)	(2)	3.7	3.3	3.4	54.9	57.0	57.8
16 Springfield	84.3	83.0	84.0	(2)	(2)	(2)	4.1	3.5	4.1	8.7	7.6	7.9
INDIANA												
17 Anderson	2,214.7	2,251.2	2,259.4	10.2	10.1	10.3	103.5	111.7	118.4	743.1	748.0	749.8
18 Evansville	53.5	52.9	53.2	(1)	(1)	(1)	1.3	1.1	1.2	25.9	25.4	25.4
19 Fort Wayne	128.1	124.3	126.5	2.6	2.5	2.6	7.9	5.8	7.8	41.2	39.2	39.3
20 Gary-Hammond-East Chicago ³	174.1	179.8	180.6	(1)	(1)	(1)	7.4	7.7	7.9	61.1	63.9	63.2
21 Indianapolis	258.3	263.6	264.7	(1)	(1)	(1)	15.9	16.9	17.8	102.5	106.2	107.1
22 Lafayette-West Lafayette	509.3	520.7	524.5	(1)	(1)	(1)	19.4	18.5	19.8	129.5	132.4	132.9
23 Muncie	53.2	55.6	55.2	(1)	(1)	(1)	2.0	2.0	2.1	12.6	12.4	13.0
24 South Bend	47.5	50.7	49.5	(1)	(1)	(1)	2.0	2.0	2.1	13.4	14.8	15.0
25 Terre Haute	110.7	114.1	112.8	(1)	(1)	(1)	4.9	4.7	4.9	33.7	34.7	33.8
26 Terre Haute	62.5	64.1	64.5	1.4	1.5	1.5	2.5	2.6	2.7	17.6	16.9	17.1
IOWA												
27 Cedar Rapids	1,112.9	1,142.1	1,141.9	2.5	2.4	2.5	62.5	58.8	64.8	249.2	259.8	262.0
28 Des Moines	83.0	84.9	85.6	(1)	(1)	(1)	4.2	3.6	3.6	28.2	29.6	30.4
29 Dubuque	181.0	181.4	182.2	(1)	(1)	(1)	9.4	8.2	8.9	25.2	26.3	26.4
30 Sioux City	44.0	44.7	45.1	(1)	(1)	(1)	2.1	1.7	2.3	16.8	17.5	17.4
31 Waterloo-Cedar Falls	52.1	50.6	51.3	(1)	(1)	(1)	4.1	3.3	3.7	10.5	8.9	9.2
32 Waterloo-Cedar Falls	64.0	68.5	67.5	(1)	(1)	(1)	3.2	2.7	3.1	21.6	23.4	23.6
KANSAS												
33 Lawrence	925.2	952.3	958.2	12.8	12.8	13.3	50.5	52.0	55.8	189.1	199.7	201.8
34 Topeka	25.1	28.1	26.6	(2)	(2)	(2)	1.3	1.4	1.5	4.3	4.6	4.8
35 Wichita	86.1	86.8	87.8	.3	.3	.3	4.0	3.9	4.0	11.9	12.2	12.3
36 Wichita	193.4	203.8	206.1	2.1	2.1	2.1	11.0	11.7	12.5	58.6	66.0	67.2
KENTUCKY												
37 Lexington-Fayette	1,245.6	1,284.4	1,280.5	59.5	58.6	59.1	75.5	73.9	76.7	290.1	295.3	293.9
38 Louisville	139.9	152.4	151.4	(1)	(1)	(1)	8.6	9.2	9.8	29.6	36.6	30.7
39 Owensboro	396.6	413.7	413.6	(1)	(1)	(1)	21.5	21.1	22.1	107.9	110.3	107.7
40 Owensboro	30.5	32.1	31.9	.9	.8	.8	2.4	2.5	2.5	7.1	7.1	7.1
LOUISIANA												
41 Alexandria	1,411.9	1,438.1	1,444.9	73.2	76.1	76.8	116.8	120.0	123.3	207.6	205.1	212.7
42 Baton Rouge	49.6	51.6	51.8	(1)	(1)	(1)	3.5	3.3	3.3	6.4	6.3	6.5
43 Lafayette	187.6	186.6	185.1	.9	1.0	1.0	25.0	22.8	22.9	24.7	24.9	25.1
44 Lake Charles	63.0	67.4	67.4	11.4	11.8	12.2	5.0	6.1	6.3	3.4	3.7	3.8
45 Monroe	57.4	59.1	59.4	1.8	1.9	1.9	4.3	5.6	5.7	12.1	12.6	12.9
46 New Orleans	49.0	49.7	49.7	.4	.3	.3	5.0	4.2	4.5	8.5	8.9	8.9
47 Shreveport	477.5	480.6	479.6	15.9	16.2	16.2	28.9	28.6	28.7	52.2	53.0	53.2
48 Shreveport	141.5	142.1	144.1	5.0	5.4	5.5	9.4	10.2	11.1	28.4	27.5	27.6
MAINE												
49 Lewiston-Auburn	419.0	410.8	417.9	(1)	(1)	(1)	21.5	18.1	19.8	114.7	112.5	116.0
50 Portland	34.6	35.1	35.5	(1)	(1)	(1)	1.4	1.3	1.4	12.6	12.4	12.5
51 Portland	88.4	87.3	88.8	(1)	(1)	(1)	4.4	3.9	4.3	17.0	17.0	17.7
MARYLAND												
52 Baltimore	1,625.9	1,631.1	1,649.1	(1)	(1)	(1)	108.5	106.5	109.2	243.5	245.6	248.6
53 Baltimore	895.5	900.4	910.2	(1)	(1)	(1)	51.8	52.1	53.2	165.4	165.1	167.1
MASSACHUSETTS												
54 Boston	2,517.5	2,580.4	(*)	(1)	(1)	(*)	78.9	78.3	(*)	651.8	658.8	(*)
55 Brockton	1,368.6	1,385.2	(*)	(1)	(1)	(*)	44.2	43.0	(*)	283.2	285.2	(*)
56 Fall River	57.0	60.1	(*)	-	-	-	2.0	2.0	(*)	12.4	12.8	(*)
57 Lawrence-Haverhill	57.0	59.0	(*)	(1)	(1)	(*)	1.3	1.3	(*)	20.9	21.9	(*)
58 Lowell	108.4	110.3	(*)	(1)	(1)	(*)	2.6	2.5	(*)	40.3	38.1	(*)
59 New Bedford	69.6	71.5	(*)	(1)	(1)	(*)	2.8	2.6	(*)	23.3	24.9	(*)
60 Springfield-Chicopee-Holyoke	63.0	64.2	(*)	(1)	(1)	(*)	1.9	2.4	(*)	25.6	25.7	(*)
61 Springfield-Chicopee-Holyoke	224.5	231.1	(*)	(1)	(1)	(*)	5.7	5.4	(*)	66.5	66.6	(*)

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)

State and area	Total			Mining			Construction			Manufacturing		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
MASSACHUSETTS—Continued												
1 Worcester	157.5	160.3	(*)	(1)	(1)	(*)	4.3	4.2	(*)	47.1	47.6	(*)
MICHIGAN	(*)	3,635.7	(*)	(*)	12.0	(*)	(*)	141.2	(*)	(*)	1,175.7	(*)
3 Ann Arbor	(*)	139.7	(*)	(*)	(1)	(*)	(*)	3.0	(*)	(*)	47.0	(*)
4 Battle Creek	(*)	68.4	(*)	(*)	(1)	(*)	(*)	2.0	(*)	(*)	24.4	(*)
5 Bay City	(*)	36.8	(*)	(*)	(1)	(*)	(*)	1.2	(*)	(*)	11.7	(*)
6 Detroit	(*)	1,823.6	(*)	(*)	1.2	(*)	(*)	63.8	(*)	(*)	606.2	(*)
7 Flint	(*)	207.5	(*)	(*)	(1)	(*)	(*)	6.2	(*)	(*)	90.8	(*)
8 Grand Rapids	(*)	264.4	(*)	(*)	(1)	(*)	(*)	13.6	(*)	(*)	92.2	(*)
9 Jackson	(*)	55.6	(*)	(*)	(1)	(*)	(*)	1.9	(*)	(*)	17.0	(*)
10 Kalamazoo-Portage	(*)	108.0	(*)	(*)	(1)	(*)	(*)	4.7	(*)	(*)	35.6	(*)
11 Lansing-East Lansing	(*)	199.4	(*)	(*)	(1)	(*)	(*)	7.0	(*)	(*)	47.3	(*)
12 Muskegon-Norton Shores-Musk. Hgts.	(*)	62.4	(*)	(*)	(1)	(*)	(*)	2.9	(*)	(*)	22.7	(*)
13 Saginaw	(*)	93.2	(*)	(*)	(1)	(*)	(*)	3.1	(*)	(*)	37.5	(*)
MINNESOTA	1,710.6	1,747.4	1,774.7	17.3	17.3	18.1	88.7	85.8	95.2	362.8	365.9	377.0
15 Duluth-Superior	62.5	63.3	63.5	(1)	(1)	(1)	2.3	2.5	2.4	8.4	8.6	8.7
16 Minneapolis-St. Paul	1,027.6	1,062.5	1,071.6	(1)	(1)	(1)	46.6	49.2	53.5	235.0	237.4	241.0
MISSISSIPPI	823.7	836.1	840.1	8.7	9.4	9.4	47.8	49.4	49.4	237.4	234.2	237.5
18 Jackson	140.4	145.3	145.7	1.1	1.2	1.2	8.2	5.8	10.2	19.1	18.6	18.8
MISSOURI	1,949.4	1,971.9	1,981.0	7.8	8.9	9.0	88.6	86.6	90.8	457.0	456.4	456.4
20 Kansas City	625.0	631.8	633.2	.5	.5	.6	30.1	32.6	32.2	123.9	127.2	128.3
21 St. Joseph	36.7	36.0	36.0	(2)	(2)	(2)	2.3	1.9	2.1	9.6	5.0	9.2
22 St. Louis	977.5	985.8	985.9	2.5	2.6	2.6	42.8	45.9	47.7	257.4	254.6	252.6
23 Springfield	80.7	82.9	83.2	(2)	(2)	(2)	4.0	4.2	4.3	18.1	17.9	18.2
MONTANA	288.4	293.3	298.4	7.2	7.8	7.8	18.2	17.1	18.2	26.6	26.9	27.5
25 Billings	45.6	46.4	46.9	(1)	(1)	(1)	2.5	2.7	2.7	4.2	4.1	4.3
26 Great Falls	30.7	31.0	31.8	(1)	(1)	(1)	1.8	2.1	2.3	1.9	1.6	1.9
NEBRASKA	611.7	619.5	626.8	1.8	1.6	1.7	36.6	33.8	36.3	93.7	95.6	97.2
28 Lincoln	97.4	102.3	102.1	(2)	(2)	(2)	5.1	5.2	5.2	13.8	14.1	14.1
29 Omaha	258.2	260.7	264.7	(2)	(2)	(2)	13.5	11.5	11.7	34.9	35.5	36.5
NEVADA	354.4	375.9	376.5	4.1	3.9	4.0	27.4	28.3	27.8	17.9	19.2	19.2
31 Las Vegas	188.2	199.5	198.2	.2	.2	.2	14.1	14.6	14.0	6.3	7.0	6.8
32 Reno	106.6	112.7	113.7	.5	.6	.6	9.3	8.8	8.9	8.0	8.4	8.6
NEW HAMPSHIRE	369.4	376.6	384.6	.5	.4	.5	20.7	20.4	20.7	111.5	112.5	114.4
34 Manchester	73.0	73.6	74.4	(2)	(2)	(2)	3.7	3.5	3.7	19.4	19.0	19.2
35 Nashua	56.3	58.9	59.7	(2)	(2)	(2)	3.0	3.3	3.4	25.1	26.2	26.6
NEW JERSEY	3,034.0	3,029.2	3,076.5	2.5	2.6	2.7	117.1	116.9	118.3	797.0	797.1	805.3
37 Atlantic City	78.1	82.3	86.9	-	-	-	4.1	6.7	7.1	9.0	8.0	8.3
38 Camden ⁴	328.1	330.0	333.2	.1	.1	.1	15.0	14.2	14.7	70.2	69.5	69.8
39 Hackensack ⁵	397.3	394.1	396.7	(1)	(1)	(1)	15.2	13.3	13.3	113.2	113.5	114.1
40 Jersey City ⁵	237.6	231.4	232.9	-	-	-	4.6	4.1	4.3	75.8	69.7	70.1
41 Long Branch-Asbury Park	160.3	155.7	161.4	(1)	(1)	(1)	6.9	5.7	6.1	24.0	23.9	24.1
42 New Bruns.-Perth Amboy-Sayreville ⁵	269.1	284.3	(*)	(1)	(1)	(*)	8.0	10.7	(*)	89.2	91.2	(*)
43 Newark ⁵	925.3	942.3	951.4	.9	.8	.8	33.4	34.4	34.6	250.2	256.0	260.3
44 Paterson-Clifton-Passaic ⁵	194.4	197.0	200.5	(1)	(1)	(1)	6.6	7.1	7.5	68.5	69.0	71.2
45 Trenton	162.2	165.1	165.6	(1)	(1)	(1)	3.3	2.7	2.8	36.8	37.5	37.7
46 Vineland-Millville-Bridgeton	56.8	57.9	58.4	(1)	(1)	(1)	1.9	1.8	1.8	19.4	19.5	19.5
NEW MEXICO	450.5	466.4	472.7	24.7	26.3	26.7	37.2	36.9	38.1	33.3	35.0	35.5
48 Albuquerque	179.2	185.7	187.7	(1)	(1)	(1)	16.0	15.3	15.9	17.3	17.7	17.9
NEW YORK	7,120.2	7,107.8	(*)	6.8	6.3	(*)	216.8	203.6	(*)	1,502.2	1,494.4	(*)
50 Albany-Schenectady-Troy	335.3	332.3	(*)	(1)	(1)	(*)	11.9	10.9	(*)	62.9	59.5	(*)
51 Binghamton	119.2	120.0	(*)	(1)	(1)	(*)	5.2	5.5	(*)	42.6	42.6	(*)
52 Buffalo	514.2	514.9	(*)	(1)	(1)	(*)	20.2	19.0	(*)	145.4	146.7	(*)
53 Elmira	37.5	37.5	(*)	(1)	(1)	(*)	1.5	1.3	(*)	11.3	11.4	(*)
54 Monroe County ⁵	333.5	337.5	(*)	(1)	(1)	(*)	11.2	10.2	(*)	133.3	134.3	(*)
55 Nassau-Suffolk ⁷	886.4	883.7	(*)	(1)	(1)	(*)	37.4	34.2	(*)	160.0	160.8	(*)
56 New York-Northeastern New Jersey	(*)	6,590.8	(*)	(*)	2.9	(*)	(*)	186.0	(*)	(*)	1,384.4	(*)
57 New York and Nassau-Suffolk ⁵	4,563.7	4,553.3	(*)	1.7	1.7	(*)	124.3	118.2	(*)	791.6	785.4	(*)
58 New York SMSA ⁷	3,677.3	3,669.5	(*)	1.5	1.5	(*)	87.0	84.1	(*)	631.6	624.6	(*)
59 New York City ⁸	3,248.1	3,242.3	(*)	1.2	1.3	(*)	69.3	67.6	(*)	543.2	534.6	(*)
60 Poughkeepsie	93.5	94.9	(*)	(1)	(1)	(*)	3.3	2.8	(*)	31.5	31.5	(*)
61 Rochester	411.4	412.7	(*)	(1)	(1)	(*)	13.7	12.4	(*)	153.8	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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979E	
8.9	9.8	9.9	19.1	19.5	19.6	3.9	4.2	4.2	13.6	13.4	13.7	15.3	15.1	15.3	1
28.9	28.4	29.0	96.9	96.6	96.7	28.6	29.3	29.6	89.1	91.8	92.5	87.5	89.0	87.4	2
23.8	23.5	24.2	80.7	80.3	80.3	25.1	25.7	26.0	72.5	74.1	74.8	74.4	75.7	74.3	3
19.4	20.7	21.0	80.8	85.3	86.0	21.0	23.3	23.5	57.7	60.8	61.8	69.2	71.8	71.8	4
4.7	4.7	4.6	21.0	21.7	21.8	8.2	9.4	9.4	13.2	14.7	15.0	16.5	18.4	18.5	5
291.6	295.5	301.1	1,096.1	1,101.0	1,106.0	286.5	293.3	297.7	895.3	920.8	924.1	751.5	785.1	779.1	6
3.0	3.1	3.1	11.2	11.5	11.5	7.4	7.5	7.6	7.2	7.3	7.4	8.5	11.6	8.8	7
2.5	2.6	2.7	15.5	16.7	16.5	2.2	2.3	2.3	9.3	9.5	9.6	25.7	26.6	26.6	8
213.6	(*)	(*)	760.9	(*)	(*)	214.8	(*)	(*)	658.2	(*)	(*)	475.7	(*)	(*)	9
198.5	199.0	203.5	711.3	719.3	721.2	206.0	210.3	212.3	623.5	637.9	639.2	445.2	469.6	471.3	10
6.9	7.8	7.9	41.3	41.3	41.5	6.7	6.7	6.7	23.1	23.3	23.5	25.8	26.0	26.1	11
4.6	4.8	4.8	11.3	11.3	11.4	2.5	2.6	2.6	8.4	8.6	8.8	4.6	5.5	5.5	12
1.3	1.4	1.4	7.8	7.8	7.8	1.1	1.0	1.0	6.3	6.5	6.4	5.8	6.0	6.1	13
7.6	7.8	7.9	35.5	36.1	36.1	7.4	7.5	7.6	26.5	26.9	27.5	12.7	13.0	12.9	14
5.2	5.1	5.2	24.7	24.7	24.8	4.0	4.1	4.2	15.8	16.3	16.5	12.2	12.2	12.2	15
4.9	4.8	4.8	19.1	19.5	19.6	6.7	6.8	7.0	15.7	15.8	16.0	25.1	24.6	24.6	16
109.5	111.3	111.6	478.6	486.9	486.8	97.4	100.1	100.7	320.2	325.1	329.9	352.3	358.0	351.6	17
1.5	1.5	1.5	10.5	10.7	10.7	1.7	1.7	1.7	6.8	6.8	6.8	5.8	5.7	5.9	18
6.8	6.9	6.9	29.5	29.9	29.9	4.3	4.3	4.4	23.3	23.5	23.8	12.5	12.2	11.6	19
10.8	11.1	11.3	40.7	41.8	42.2	9.7	9.9	10.1	27.1	27.2	27.7	17.3	18.2	18.2	20
15.1	15.0	15.4	49.6	56.8	51.3	8.8	8.9	9.0	34.7	34.7	34.4	31.3	31.1	29.7	21
30.6	30.8	31.2	123.8	128.7	129.6	35.2	35.5	36.1	84.1	87.5	88.3	86.7	87.3	86.6	22
1.6	1.6	1.7	11.0	11.4	11.4	2.8	2.8	2.8	8.5	8.9	9.0	14.5	16.5	15.2	23
2.1	2.2	2.2	11.5	11.4	11.4	1.5	1.5	1.5	7.4	7.5	7.7	9.6	11.3	9.6	24
5.3	5.3	5.3	27.8	27.7	27.8	5.0	5.2	5.2	22.2	23.4	22.7	12.8	13.1	13.1	25
4.0	4.0	4.0	15.5	16.0	15.9	2.0	2.1	2.1	8.8	9.1	9.1	10.7	11.9	12.1	26
56.6	57.3	58.1	283.1	290.7	292.2	55.8	57.3	58.6	191.5	202.9	198.3	211.7	212.9	205.6	27
4.0	4.0	4.0	18.1	18.1	18.3	4.2	4.3	4.4	14.7	15.0	15.1	9.6	10.0	9.9	28
11.3	11.6	11.6	48.1	47.7	48.0	19.8	20.1	20.4	38.3	38.0	38.4	28.8	29.6	28.5	29
1.6	1.6	1.5	9.0	9.1	9.2	1.3	1.3	1.3	9.2	9.4	9.2	3.9	4.3	4.1	30
4.0	4.1	4.1	13.4	13.4	13.4	2.7	2.8	2.8	10.8	11.3	11.3	6.6	6.8	6.7	31
2.6	2.5	2.6	14.1	14.9	14.8	2.1	2.0	2.1	10.4	10.8	10.9	10.0	12.1	10.4	32
64.3	66.9	68.1	222.0	224.9	226.1	45.7	46.6	47.4	158.8	163.1	165.3	182.0	186.3	180.4	33
1.4	1.5	1.5	5.3	5.5	5.5	.8	.8	.8	3.2	3.5	3.3	8.9	10.8	9.2	34
7.5	7.6	7.5	19.1	19.1	19.2	5.7	5.9	5.9	16.0	16.7	16.9	21.8	21.1	21.7	35
10.4	10.6	10.8	42.9	44.2	44.5	9.1	9.3	9.3	36.2	36.8	37.3	23.4	23.1	22.4	36
68.7	69.9	70.7	265.2	280.6	280.8	49.8	50.5	51.0	202.7	212.2	212.3	234.1	243.4	236.0	37
6.9	7.3	7.4	32.3	33.6	33.8	6.8	6.9	7.1	25.1	28.6	27.5	30.4	36.2	35.1	38
24.6	25.1	25.3	90.3	98.9	99.4	22.2	22.9	23.2	73.2	76.2	76.4	56.9	59.2	59.4	39
2.2	2.3	2.3	7.6	7.7	7.9	1.1	1.2	1.2	5.1	5.9	5.9	4.1	4.6	4.2	40
110.3	109.7	109.5	336.7	341.8	342.1	69.6	71.9	72.4	239.6	246.1	249.7	257.9	263.4	258.4	41
2.5	2.5	2.5	11.0	11.2	11.2	3.1	3.2	3.2	9.4	9.8	9.9	13.7	15.3	15.2	42
9.6	9.3	9.3	40.1	39.3	39.4	10.6	11.1	11.1	27.8	27.3	26.8	48.9	50.9	49.5	43
4.4	4.5	4.6	16.3	17.4	17.2	1.9	2.1	2.1	11.9	12.7	12.7	8.7	9.1	8.5	44
3.1	2.9	2.8	12.8	12.9	13.1	2.5	2.6	2.6	9.6	9.5	9.3	11.2	11.1	11.1	45
2.3	2.4	2.5	12.9	12.6	12.6	3.2	3.3	3.3	7.3	8.1	8.0	9.4	9.9	9.6	46
47.9	48.1	47.6	118.6	120.0	120.2	28.2	29.1	29.3	105.7	105.9	103.9	80.1	79.7	80.5	47
9.6	10.1	10.2	34.3	34.7	34.6	6.5	6.7	6.8	24.3	23.7	23.9	24.0	23.8	24.4	48
18.7	18.5	19.1	93.6	91.0	93.4	16.0	16.2	16.3	72.1	71.2	72.9	82.4	83.3	80.4	49
1.1	1.1	1.1	8.0	8.1	8.3	1.5	1.5	1.5	6.6	7.1	7.2	3.4	3.6	3.5	50
5.4	5.2	5.3	23.8	23.1	23.0	6.8	7.0	7.1	18.3	18.2	19.0	12.7	12.9	12.4	51
85.6	87.9	88.2	384.5	384.0	387.6	87.3	89.3	91.0	324.5	332.5	336.1	392.0	385.3	388.4	52
59.8	62.2	62.7	195.8	193.4	193.8	52.8	53.9	54.8	171.5	177.5	177.9	198.4	196.2	200.7	53
118.1	117.6	(*)	559.6	578.3	(*)	144.5	146.2	(*)	569.6	598.9	(*)	395.0	402.3	(*)	54
68.5	67.7	(*)	303.1	305.2	(*)	99.0	101.3	(*)	365.4	381.3	(*)	205.2	201.5	(*)	55
3.9	4.1	(*)	15.1	15.8	(*)	2.2	2.3	(*)	8.6	9.5	(*)	12.6	13.6	(*)	56
2.0	2.0	(*)	12.7	13.6	(*)	2.7	2.8	(*)	8.9	9.4	(*)	8.5	8.0	(*)	57
4.1	4.3	(*)	22.7	23.5	(*)	3.7	3.8	(*)	15.3	14.9	(*)	19.7	23.2	(*)	58
3.2	3.1	(*)	15.2	15.6	(*)	2.1	2.1	(*)	10.4	10.3	(*)	12.6	12.9	(*)	59
2.6	2.5	(*)	12.2	11.7	(*)	1.9	1.9	(*)	8.8	9.2	(*)	10.0	10.8	(*)	60
9.6	9.9	(*)	45.9	45.7	(*)	11.6	11.7	(*)	41.8	43.2	(*)	43.4	48.6	(*)	61

**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			
JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	
6.9	7.0	(*)	33.9	34.7	(*)	8.5	8.6	(*)	29.3	30.3	(*)	27.5	27.9	(*)	1
(*)	158.6	(*)	(*)	745.2	(*)	(*)	148.2	(*)	(*)	631.4	(*)	(*)	623.5	(*)	2
(*)	3.6	(*)	(*)	20.2	(*)	(*)	3.6	(*)	(*)	20.8	(*)	(*)	41.5	(*)	3
(*)	2.4	(*)	(*)	11.7	(*)	(*)	3.8	(*)	(*)	11.4	(*)	(*)	12.7	(*)	4
(*)	1.7	(*)	(*)	8.6	(*)	(*)	1.3	(*)	(*)	6.1	(*)	(*)	6.2	(*)	5
(*)	88.8	(*)	(*)	366.7	(*)	(*)	85.1	(*)	(*)	350.4	(*)	(*)	261.3	(*)	6
(*)	6.8	(*)	(*)	40.4	(*)	(*)	6.0	(*)	(*)	28.6	(*)	(*)	28.7	(*)	7
(*)	10.3	(*)	(*)	60.3	(*)	(*)	9.7	(*)	(*)	46.4	(*)	(*)	31.9	(*)	8
(*)	5.1	(*)	(*)	11.2	(*)	(*)	1.5	(*)	(*)	10.2	(*)	(*)	8.7	(*)	9
(*)	3.6	(*)	(*)	21.2	(*)	(*)	4.0	(*)	(*)	19.9	(*)	(*)	19.0	(*)	10
(*)	5.4	(*)	(*)	36.0	(*)	(*)	9.1	(*)	(*)	25.7	(*)	(*)	68.9	(*)	11
(*)	3.0	(*)	(*)	11.8	(*)	(*)	1.8	(*)	(*)	9.3	(*)	(*)	10.9	(*)	12
(*)	4.6	(*)	(*)	18.2	(*)	(*)	3.9	(*)	(*)	13.2	(*)	(*)	12.7	(*)	13
92.2	100.7	101.1	432.5	440.9	444.8	87.4	90.5	91.6	335.0	348.1	351.3	294.8	298.2	295.7	14
7.4	6.9	7.0	16.7	17.3	17.3	2.2	2.3	2.3	12.4	12.1	12.0	13.0	13.5	13.7	15
57.2	65.0	65.4	257.3	263.7	265.3	64.9	67.5	68.2	210.3	223.6	222.0	156.3	156.1	156.1	16
38.6	39.2	39.5	160.4	164.4	164.6	31.8	32.1	32.3	114.5	118.9	120.4	184.5	188.4	187.1	17
8.8	8.9	8.9	34.8	36.3	36.3	10.9	11.0	11.1	25.8	27.4	26.4	31.7	32.1	32.9	18
137.4	137.9	137.9	465.9	469.9	472.3	104.2	104.9	106.2	356.8	359.7	364.6	331.7	347.6	343.8	19
54.8	54.5	54.6	158.7	156.4	156.2	41.8	42.3	42.7	122.7	125.2	127.3	92.5	93.1	91.3	20
2.3	2.1	2.1	9.0	9.0	9.0	1.9	1.9	1.9	6.2	6.1	6.3	5.4	6.0	5.4	21
69.5	71.6	72.0	220.6	220.1	218.6	53.6	54.1	54.7	193.6	196.6	199.4	137.5	140.3	138.3	22
6.3	6.4	6.4	22.9	23.4	23.5	3.3	3.3	3.4	15.4	15.7	15.5	10.7	12.0	11.9	23
21.9	23.0	23.1	73.8	77.9	78.6	12.2	13.9	14.5	53.8	53.5	53.9	74.7	73.1	74.8	24
3.9	4.2	4.3	15.4	16.0	15.9	2.2	2.2	2.3	9.3	9.5	9.7	8.1	7.6	7.6	25
1.9	2.1	2.0	10.2	10.1	10.5	2.0	2.1	2.1	6.4	6.5	6.5	6.5	6.3	6.6	26
44.3	46.1	47.0	155.6	159.0	159.7	39.3	40.3	40.8	108.8	112.2	111.6	131.6	130.9	132.5	27
6.8	7.1	7.1	21.3	22.2	22.2	7.1	7.1	7.1	16.1	16.3	16.3	27.2	30.3	30.1	28
23.0	23.8	24.2	67.0	68.9	69.1	23.1	23.7	24.0	53.8	56.2	56.4	42.9	40.7	42.8	29
21.1	23.1	23.6	65.4	74.7	75.6	14.4	15.7	15.7	148.4	156.7	157.2	51.7	54.3	53.4	30
12.0	12.9	13.1	38.6	42.6	42.8	7.7	8.4	8.4	86.2	89.3	88.9	23.1	24.5	24.0	31
6.8	7.5	7.7	21.4	22.3	22.7	5.4	5.8	5.8	41.1	44.1	44.4	14.1	15.2	15.0	32
13.4	13.7	14.0	82.7	86.2	89.2	17.5	18.3	18.6	67.2	67.8	71.0	55.9	56.9	56.2	33
4.4	4.7	4.8	18.8	19.1	19.3	5.3	5.5	5.5	13.3	13.4	13.5	8.1	8.4	8.4	34
1.8	1.7	1.8	11.1	12.0	12.1	1.8	1.8	1.9	7.7	8.1	8.1	5.8	5.8	5.8	35
190.6	189.5	193.1	682.4	677.1	693.9	150.8	151.0	154.1	562.2	573.3	586.2	531.5	521.7	522.9	36
3.6	3.8	3.9	21.4	21.4	21.3	4.5	4.7	4.8	19.9	24.0	25.6	15.6	15.7	15.9	37
16.0	15.7	16.1	84.2	84.9	85.1	15.4	15.6	15.9	64.7	66.7	67.4	62.5	63.3	64.1	38
21.3	19.8	20.7	115.6	112.3	112.2	15.4	15.8	16.1	71.6	75.9	76.3	45.0	43.5	44.0	39
27.7	27.1	27.2	44.9	46.0	46.2	8.5	8.6	9.0	30.4	30.2	30.2	45.7	45.7	45.9	40
6.5	6.3	6.4	42.4	41.6	43.8	7.1	7.2	7.3	39.7	37.6	39.6	33.7	33.4	34.1	41
17.9	21.4	(*)	60.7	67.0	(*)	8.6	9.7	(*)	36.6	39.1	(*)	48.1	45.2	(*)	42
70.0	70.0	71.4	177.8	179.8	181.3	62.2	62.2	62.8	180.1	187.5	190.1	150.7	151.6	150.1	43
7.4	7.3	7.5	42.5	42.3	42.3	9.5	9.6	9.8	30.9	33.0	33.5	29.0	28.7	28.7	44
6.1	6.1	6.1	25.1	25.9	25.9	6.5	6.8	7.0	38.7	39.8	39.4	45.6	46.3	46.7	45
3.0	3.1	3.1	9.3	9.3	9.5	2.4	2.4	2.4	8.6	9.1	9.2	12.3	12.7	12.9	46
26.1	28.3	27.6	102.9	107.0	108.6	20.1	21.1	21.5	90.7	88.9	92.2	115.5	122.9	122.5	47
10.1	11.3	11.0	45.5	47.2	47.7	10.1	10.9	11.1	40.9	41.6	42.1	39.3	41.7	42.0	48
435.1	424.8	(*)	1,470.3	1,463.4	(*)	589.9	591.2	(*)	1,583.9	1,616.3	(*)	1,315.3	1,308.0	(*)	49
15.7	15.1	(*)	67.5	67.7	(*)	15.2	15.1	(*)	65.7	66.4	(*)	96.2	97.5	(*)	50
4.8	4.8	(*)	22.4	22.4	(*)	3.7	3.6	(*)	17.2	17.7	(*)	23.3	23.5	(*)	51
28.7	28.0	(*)	115.4	116.7	(*)	21.8	21.9	(*)	95.4	94.1	(*)	87.5	88.5	(*)	52
1.4	1.4	(*)	8.5	8.3	(*)	1.1	1.0	(*)	6.9	6.9	(*)	6.8	7.1	(*)	53
10.2	9.9	(*)	62.4	63.0	(*)	14.7	14.7	(*)	61.3	64.8	(*)	40.3	40.6	(*)	54
37.9	38.0	(*)	230.4	230.8	(*)	47.7	47.9	(*)	190.3	191.1	(*)	182.7	181.0	(*)	55
(*)	455.8	(*)	(*)	1,394.5	(*)	(*)	593.1	(*)	(*)	1,495.8	(*)	(*)	1,078.3	(*)	56
320.7	312.3	(*)	952.7	949.4	(*)	486.6	487.2	(*)	1,115.0	1,131.5	(*)	771.2	767.5	(*)	57
282.8	274.3	(*)	722.3	718.6	(*)	438.8	439.3	(*)	924.9	940.6	(*)	588.4	586.6	(*)	58
260.8	252.4	(*)	623.4	619.0	(*)	419.0	419.6	(*)	821.6	839.3	(*)	509.5	508.4	(*)	59
3.0	3.0	(*)	15.7	15.7	(*)	2.6	2.5	(*)	15.9	16.8	(*)	21.6	22.7	(*)	60
13.1	12.8	(*)	79.7	79.9	(*)	16.4	16.5	(*)	72.9	76.0	(*)	61.9	61.1	(*)	61

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
NEW YORK—Continued												
1 Rockland County ⁸	79.1	78.1	(*)	(1)	(1)	(*)	2.5	2.2	(*)	15.6	15.6	(*)
2 Syracuse	258.3	259.2	(*)	(1)	(1)	(*)	11.4	10.8	(*)	61.0	60.4	(*)
3 Utica-Rome	117.4	117.0	(*)	(1)	(1)	(*)	3.5	3.5	(*)	32.5	31.9	(*)
4 Westchester County ⁸	337.4	336.8	(*)	(1)	(1)	(*)	14.2	13.4	(*)	71.2	73.2	(*)
5 NORTH CAROLINA	2,274.3	2,315.5	2,342.9	4.7	4.8	4.9	114.5	117.4	122.9	802.4	807.4	814.4
6 Asheville	69.1	67.9	70.2	(1)	(1)	(1)	3.8	3.5	3.6	21.6	21.4	21.5
7 Charlotte-Gastonia	309.9	314.3	316.3	(1)	(1)	(1)	16.3	16.0	16.3	87.0	88.1	88.8
8 Greensboro—Winston-Salem—High Pt.	373.3	378.0	379.7	(1)	(1)	(1)	17.3	15.7	15.9	145.7	146.3	147.7
9 Raleigh-Durham	243.9	250.2	252.1	(1)	(1)	(1)	12.7	12.7	13.0	39.0	41.2	42.2
10 NORTH DAKOTA	236.5	243.6	248.7	4.3	5.2	5.8	21.9	20.4	24.1	15.5	16.4	17.0
11 Fargo-Moorhead	60.5	62.6	62.5	(2)	(2)	(2)	4.9	4.6	5.3	4.9	5.1	5.2
12 OHIO	4,467.3	4,516.3	4,552.8	32.7	31.9	32.0	192.1	189.3	198.8	1,383.7	1,391.3	1,391.5
13 Akron	269.8	273.0	273.7	.4	.4	.4	9.5	9.2	9.7	85.6	84.8	84.9
14 Canton	157.1	160.8	162.3	1.2	1.1	1.2	7.0	6.9	7.4	57.3	58.9	59.0
15 Cincinnati	604.7	620.6	627.6	.4	.4	.4	28.0	26.5	25.0	171.1	173.5	175.2
16 Cleveland	927.9	930.4	939.1	1.6	1.4	1.4	34.8	34.2	35.8	278.8	282.5	282.3
17 Columbus	501.4	510.6	514.6	.9	.9	.9	22.2	22.5	23.4	101.5	99.5	98.1
18 Dayton	360.7	366.6	369.6	.5	.5	.5	15.0	15.2	16.3	112.1	109.9	110.4
19 Toledo	307.5	312.6	315.2	.6	.6	.6	12.5	12.5	13.2	91.0	91.5	91.1
20 Youngstown-Warren	213.6	217.4	218.3	.5	.5	.5	8.7	8.5	9.2	79.1	80.1	79.7
21 OKLAHOMA	1,035.4	1,069.6	1,080.7	55.0	57.5	59.4	59.9	57.5	59.1	173.2	178.7	180.4
22 Oklahoma City	360.4	383.3	386.3	12.4	13.0	13.2	20.1	20.3	21.0	47.3	52.5	53.2
23 Tulsa	270.6	276.8	278.6	17.7	17.8	18.1	15.2	15.1	14.7	56.7	58.3	58.4
24 OREGON	1,027.3	1,046.1	1,066.5	2.1	2.2	2.2	50.4	53.6	57.3	225.3	223.9	231.4
25 Eugene-Springfield	105.3	105.7	(*)	(1)	(1)	(*)	5.7	5.1	(*)	21.3	21.1	(*)
26 Jackson County	-	-	-	-	-	-	-	-	-	8.2	7.8	8.0
27 Portland	534.0	543.9	550.0	(1)	(1)	(1)	27.1	26.7	28.5	110.7	114.1	116.0
28 Salem	87.6	87.9	90.3	(1)	(1)	(1)	5.0	4.8	5.0	14.6	13.0	14.7
29 PENNSYLVANIA	4,754.6	4,732.4	4,764.3	54.4	52.8	52.8	211.8	196.3	198.8	1,376.2	1,366.4	1,388.7
30 Allentown-Bethlehem-Easton	261.0	259.7	261.4	(1)	(1)	(1)	9.9	8.6	8.8	110.5	109.6	110.9
31 Altoona	52.3	51.7	52.6	(1)	(1)	(1)	2.6	2.0	2.1	12.6	12.8	12.9
32 Delaware Valley ⁹	1,562.3	1,566.9	1,574.2	(1)	(1)	(1)	58.1	57.6	59.6	382.2	383.2	386.9
33 Erie	115.3	116.0	116.4	(1)	(1)	(1)	4.5	2.7	2.7	43.1	44.7	45.3
34 Harrisburg	218.3	214.8	215.7	(1)	(1)	(1)	10.2	8.3	8.2	41.3	42.1	42.4
35 Johnstown	89.0	89.7	91.1	9.8	9.0	9.2	3.2	2.8	3.0	20.6	20.5	20.6
36 Lancaster	148.7	150.5	151.5	(1)	(1)	(1)	8.5	8.3	9.0	59.6	59.6	60.0
37 Northeast Pennsylvania	243.3	240.8	242.4	1.2	1.2	1.2	13.4	12.7	12.9	73.1	71.1	71.3
38 Philadelphia SMSA	1,890.4	1,897.2	1,907.2	(1)	(1)	(1)	73.2	71.9	74.2	452.4	452.8	456.6
39 Philadelphia City ¹⁰	798.4	797.1	797.2	(1)	(1)	(1)	18.5	17.6	18.5	152.9	149.0	150.0
40 Pittsburgh	951.0	943.4	955.0	12.1	11.4	11.5	54.3	47.8	46.7	254.3	253.9	257.7
41 Reading	135.8	138.6	140.1	(1)	(1)	(1)	5.3	5.1	5.3	52.9	52.4	53.9
42 Scranton ¹¹	86.2	86.1	86.6	(1)	(1)	(1)	2.3	2.2	2.2	28.2	28.4	28.2
43 Wilkes-Barre—Hazleton ¹²	128.6	125.2	126.4	1.1	1.1	1.1	9.6	9.1	9.1	40.8	38.0	38.6
44 Williamsport	49.0	50.4	50.8	(1)	(1)	(1)	2.0	2.1	2.2	18.4	18.5	18.7
45 York	152.4	151.9	155.1	(1)	(1)	(1)	7.1	6.7	7.0	63.4	63.9	66.2
46 RHODE ISLAND	403.2	397.0	399.8	(1)	(1)	(1)	14.9	12.3	11.6	136.0	133.9	136.9
47 Providence-Warwick-Pawtucket	413.1	407.9	410.7	(1)	(1)	(1)	15.1	12.4	11.7	152.2	150.0	153.1
48 SOUTH CAROLINA	1,152.4	1,167.3	1,179.4	1.9	1.9	2.0	72.5	65.8	65.8	392.5	393.2	396.1
49 Charleston-North Charleston	140.5	144.2	144.5	(1)	(1)	(1)	10.8	11.0	11.0	19.2	19.8	19.7
50 Columbia	166.0	175.5	172.5	(1)	(1)	(1)	8.9	7.9	8.2	24.7	26.9	26.8
51 Greenville-Spartanburg	254.5	257.8	259.9	(1)	(1)	(1)	16.2	15.4	15.8	105.0	105.0	106.1
52 SOUTH DAKOTA	241.6	237.4	241.6	2.7	2.7	2.7	14.5	13.1	14.9	24.8	25.3	25.8
53 Rapid City	29.8	28.7	29.8	(2)	(2)	(2)	2.9	2.5	3.0	2.7	2.6	2.6
54 Sioux Falls	53.9	53.5	55.9	(2)	(2)	(2)	3.9	3.7	4.4	7.3	7.4	7.5
55 TENNESSEE	1,721.8	1,730.5	1,730.4	11.0	10.3	10.7	92.0	91.8	98.6	528.5	517.6	520.1
56 Chattanooga	168.9	165.8	168.0	1.3	1.3	1.3	7.7	7.0	7.2	55.6	52.6	54.4
57 Knoxville	198.7	197.7	197.1	1.7	1.5	1.6	12.8	12.4	12.5	53.7	53.5	53.6
58 Memphis	352.4	354.1	353.3	.2	.2	.2	14.1	13.9	14.2	64.8	64.2	64.1
59 Nashville-Davidson	349.3	354.1	352.6	(1)	(1)	(1)	20.5	21.0	21.9	82.3	81.9	81.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	
3.5	3.4	(*)	17.2	17.1	(*)	2.4	2.4	(*)	17.0	16.5	(*)	20.7	21.0	(*)	1
14.5	14.6	(*)	58.4	58.6	(*)	15.2	15.4	(*)	48.1	50.3	(*)	49.7	49.2	(*)	2
4.1	4.0	(*)	22.0	21.9	(*)	5.6	5.5	(*)	20.0	20.1	(*)	29.6	29.7	(*)	3
17.8	17.9	(*)	78.6	79.2	(*)	16.9	16.8	(*)	83.9	82.6	(*)	54.7	53.6	(*)	4
107.7	111.7	113.0	436.6	453.0	456.8	86.7	87.7	88.4	316.4	325.9	331.5	405.3	407.6	411.0	5
3.5	3.5	3.5	13.7	13.9	14.1	2.2	2.2	2.3	13.2	12.1	13.7	11.1	11.3	11.5	6
28.7	29.3	29.6	77.4	77.4	77.8	19.8	19.9	20.0	46.7	46.7	47.0	36.6	36.9	36.8	7
20.4	21.0	21.1	74.5	77.1	76.9	17.1	17.5	17.6	53.2	54.6	54.6	45.1	45.8	45.9	8
12.1	13.0	13.1	47.1	48.5	48.8	14.7	14.7	14.9	49.9	52.9	52.5	68.4	67.2	67.6	9
14.8	15.6	16.0	66.0	67.9	68.9	10.6	11.0	11.1	45.5	47.3	47.6	57.9	59.8	58.2	10
4.0	4.2	4.3	19.0	19.2	19.2	3.6	3.8	3.9	12.4	13.6	13.1	11.7	12.1	11.5	11
230.2	231.7	237.3	966.4	988.1	995.1	193.8	199.5	202.6	790.4	819.3	831.0	678.0	665.4	664.4	12
14.7	14.9	15.0	59.2	61.4	62.4	9.4	9.5	9.6	48.2	49.1	50.0	42.6	43.7	41.7	13
7.5	7.4	7.4	34.2	35.2	35.6	5.5	5.8	5.9	27.6	28.6	29.0	17.0	16.9	16.5	14
33.3	35.3	35.8	138.3	142.0	143.1	31.0	31.7	32.2	118.3	125.3	128.1	84.3	83.8	83.8	15
48.1	46.6	49.4	210.4	215.1	216.0	46.4	46.1	46.8	180.8	189.7	191.2	127.1	114.6	116.1	16
24.9	26.8	27.1	118.1	123.1	123.9	34.3	36.4	37.1	97.3	101.4	102.6	102.3	99.9	101.5	17
12.9	13.8	14.1	74.8	78.0	78.3	12.8	13.1	13.3	66.3	69.6	70.0	66.3	66.6	66.7	18
21.0	21.2	21.6	68.9	70.7	71.5	10.2	10.4	10.6	56.4	58.4	59.1	46.8	47.2	47.5	19
10.3	10.3	10.4	46.6	48.0	48.6	6.9	6.8	6.9	36.1	36.8	37.4	25.4	26.4	25.6	20
62.0	63.4	64.1	246.9	252.3	254.6	51.3	52.6	53.5	172.1	180.0	183.5	215.0	227.6	226.1	21
21.6	22.7	22.7	87.6	93.8	94.5	23.1	23.9	24.3	62.4	65.9	67.3	85.9	91.2	90.1	22
20.7	20.6	21.1	66.5	67.1	67.3	13.6	14.0	14.2	52.3	54.0	55.0	27.9	29.9	29.8	23
57.8	59.7	60.5	246.7	255.0	258.2	64.8	66.8	67.4	176.1	177.0	179.3	204.1	207.9	210.2	24
5.2	5.5	(*)	26.1	26.2	(*)	5.2	5.2	(*)	18.7	18.7	(*)	23.1	23.9	(*)	25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
34.2	35.2	35.6	135.5	136.0	136.8	41.0	42.4	42.9	102.4	104.0	104.8	83.1	85.5	85.4	27
3.3	3.4	3.4	18.3	18.3	18.6	5.4	5.5	5.6	13.5	14.4	14.4	27.5	28.5	28.6	28
268.3	270.5	272.2	975.4	971.0	971.9	228.9	235.8	239.0	897.7	917.4	920.2	741.9	720.2	720.7	29
13.6	14.0	14.1	48.9	49.3	49.5	8.3	8.5	8.7	38.9	39.2	39.1	30.9	30.5	30.3	30
8.4	7.8	7.8	11.4	11.6	11.8	1.3	1.3	1.3	8.5	8.7	8.8	7.5	7.5	7.9	31
84.5	83.8	84.3	328.2	329.9	329.9	104.9	106.6	108.1	359.3	369.4	368.6	245.1	236.4	236.8	32
5.3	5.2	5.3	22.7	24.3	24.4	4.4	4.4	4.4	20.1	19.5	19.9	15.2	15.2	14.4	33
16.1	15.8	16.1	44.6	44.3	44.3	11.9	11.9	12.1	37.1	35.7	36.6	57.1	56.7	56.0	34
5.4	5.4	5.3	16.7	17.2	17.0	3.6	3.7	3.7	15.0	15.2	15.6	14.7	15.9	16.7	35
6.5	6.5	6.7	33.5	34.3	34.6	5.1	5.3	5.4	20.5	20.9	21.0	14.8	15.6	14.8	36
13.2	13.7	13.6	51.8	52.1	52.3	9.2	9.4	9.7	42.6	41.6	42.9	38.8	39.0	38.5	37
100.4	99.5	100.4	412.2	414.8	414.9	120.4	122.2	124.0	424.5	436.2	436.1	307.3	299.8	301.0	38
56.9	56.2	56.7	151.1	151.8	151.6	68.6	69.6	70.2	201.0	206.6	204.1	149.4	146.1	146.1	39
58.2	57.3	58.3	209.0	213.0	215.2	44.0	44.6	45.3	197.5	196.0	196.2	121.6	119.4	124.1	40
6.4	6.6	6.6	27.0	27.9	28.0	5.7	6.0	6.0	22.2	22.9	23.5	16.3	17.7	16.8	41
4.6	4.7	4.7	19.1	19.4	19.5	3.3	3.4	3.5	16.8	16.6	17.0	11.9	11.4	11.5	42
6.6	7.0	6.9	27.5	27.2	27.3	5.0	5.3	5.4	18.4	18.1	18.5	19.6	19.4	19.5	43
2.5	2.5	2.6	9.9	10.4	10.4	1.9	2.0	2.0	7.4	7.9	7.9	6.9	7.0	7.0	44
7.1	6.9	6.9	31.6	31.8	31.9	4.0	4.1	4.3	19.7	19.7	19.8	19.5	18.8	19.0	45
13.5	13.5	13.6	80.6	79.0	79.9	20.0	20.2	20.2	76.2	76.9	77.2	62.0	61.2	60.4	46
13.4	13.4	13.5	81.2	79.9	80.8	20.3	20.5	20.5	72.5	73.7	73.9	58.4	58.0	57.2	47
49.8	51.7	51.9	215.0	222.1	224.5	44.2	46.0	46.7	149.3	157.1	161.1	227.2	229.5	231.3	48
8.5	8.8	8.7	30.3	30.8	30.9	6.0	6.2	6.3	21.7	22.6	22.7	44.0	45.0	45.2	49
8.7	9.2	9.2	37.1	38.3	38.3	12.8	13.5	13.7	25.1	26.2	26.4	48.7	53.5	49.9	50
10.1	10.3	10.3	48.3	50.0	49.8	8.7	8.7	8.8	32.6	34.4	35.1	33.6	34.0	34.0	51
13.2	13.4	14.1	64.7	62.9	62.9	11.1	11.5	11.8	50.1	49.7	51.8	60.5	58.8	62.5	52
1.9	1.8	1.9	8.5	8.6	8.9	1.5	1.4	1.4	6.6	6.0	6.1	5.7	5.8	5.9	53
4.7	4.8	4.9	15.8	15.5	15.6	3.3	3.0	3.1	11.6	12.2	12.3	7.3	6.9	8.1	54
83.2	83.7	83.8	367.9	369.9	368.8	74.0	74.7	76.2	264.5	272.1	273.8	300.7	310.4	298.4	55
6.8	6.8	6.8	30.8	30.8	30.7	9.3	9.7	9.7	26.4	25.9	26.0	31.0	31.7	31.9	56
7.7	8.0	7.9	41.7	42.0	41.6	7.8	8.0	8.1	30.3	30.4	30.4	43.0	41.9	41.4	57
25.5	25.9	26.0	93.8	94.0	93.8	18.9	19.1	19.3	67.8	69.9	70.3	67.3	66.9	65.4	58
19.0	19.6	19.6	79.0	79.6	80.1	21.7	22.3	22.4	65.5	65.6	65.8	61.3	64.1	61.3	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		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
1 TEXAS	5,257.7	5,464.0	5,492.5	182.8	191.9	196.8	389.7	394.3	406.3	959.1	989.0	999.3
2 Amarillo	71.0	73.8	73.2	(1)	(1)	(1)	5.0	5.4	5.5	8.1	9.7	9.8
3 Austin	214.7	227.3	225.4	(1)	(1)	(1)	12.9	14.3	14.4	25.8	27.1	27.6
4 Beaumont-Port Arthur-Orange	145.8	143.4	143.8	(1)	(1)	(1)	14.9	14.0	14.2	41.6	41.2	41.3
5 Corpus Christi	111.1	113.6	112.9	5.0	5.1	5.1	11.6	12.4	12.6	14.1	14.2	14.2
6 Dallas-Fort Worth	1,290.2	1,355.4	1,363.2	18.9	20.5	20.8	69.5	75.0	78.2	286.3	300.8	303.2
7 El Paso	148.6	153.9	154.8	(1)	(1)	(1)	9.0	7.8	7.7	30.2	31.7	31.8
8 Galveston-Texas City	68.4	67.7	67.9	(1)	(1)	(1)	4.7	4.7	4.6	12.2	12.1	12.2
9 Houston	1,267.8	1,307.8	1,317.2	62.8	62.0	62.0	138.0	140.6	142.1	210.1	215.5	216.9
10 Lubbock	84.2	88.9	86.5	(1)	(1)	(1)	5.2	5.7	5.7	13.2	11.9	12.0
11 San Antonio	366.9	371.3	371.8	1.9	1.9	1.9	24.9	24.3	24.9	47.0	47.1	47.6
12 Waco	64.9	67.8	67.3	(1)	(1)	(1)	3.7	3.2	3.4	15.9	16.8	17.2
13 Wichita Falls	49.4	50.1	50.1	2.6	2.6	2.6	2.5	2.8	2.8	9.1	9.3	9.5
14 UTAH	528.7	555.6	561.6	16.4	17.6	17.9	38.0	37.6	40.1	79.5	83.8	85.6
15 Salt Lake City-Ogden	376.3	393.4	394.8	7.1	7.5	7.5	26.1	25.5	27.1	53.1	56.3	57.1
16 VERMONT	190.0	193.6	195.4	.8	.8	.8	11.1	9.5	10.1	48.2	49.4	50.3
17 Burlington ¹³	50.6	53.9	53.8	-	-	-	-	-	-	12.6	13.4	13.7
18 Springfield ¹³	14.2	14.4	14.8	-	-	-	-	-	-	5.9	6.1	6.2
19 VIRGINIA	2,075.3	2,104.1	2,123.4	24.6	25.6	25.5	141.3	139.7	145.9	408.6	406.2	407.9
20 Bristol	27.4	28.0	28.3	(1)	(1)	(1)	1.5	1.6	1.7	9.4	9.9	10.0
21 Lynchburg	69.3	70.3	70.8	(1)	(1)	(1)	3.6	3.6	4.1	29.2	28.3	28.4
22 Newport News-Hampton	149.7	146.8	149.9	(1)	(1)	(1)	8.4	7.8	7.9	35.0	32.8	33.2
23 Norfolk-Virginia Beach-Poismouth	283.6	282.0	284.8	(1)	(1)	(1)	19.6	19.0	19.8	29.1	29.0	29.5
24 Northern Virginia ¹⁴	412.1	417.9	424.3	.3	.4	.4	30.1	28.3	29.9	15.4	16.1	16.1
25 Petersburg-Colonial Hgts.-Hopewell	47.6	48.2	48.7	(1)	(1)	(1)	2.6	2.6	2.7	12.0	11.8	11.7
26 Richmond	320.4	320.9	322.5	.4	.4	.4	20.0	18.9	19.6	53.3	54.5	54.5
27 Roanoke	106.5	104.3	105.4	.2	.1	.1	6.5	5.9	6.2	21.5	20.8	20.9
28 WASHINGTON	1,519.8	1,609.1	(*)	2.8	3.2	(*)	97.0	109.7	(*)	290.6	305.4	(*)
29 Seattle-Everett	707.4	753.6	(*)	(1)	(1)	(*)	41.2	47.4	(*)	148.0	162.0	(*)
30 Spokane	126.1	128.1	(*)	(1)	(1)	(*)	8.6	6.9	(*)	17.9	18.4	(*)
31 Tacoma	135.9	140.5	(*)	(1)	(1)	(*)	8.6	9.4	(*)	22.6	21.5	(*)
32 WEST VIRGINIA	636.4	629.7	(*)	75.0	69.6	(*)	42.3	35.2	(*)	125.6	123.1	(*)
33 Charleston	110.1	109.9	(*)	6.7	6.6	(*)	6.3	6.4	(*)	19.7	19.3	(*)
34 Huntington-Ashland	103.5	105.2	(*)	1.0	1.0	(*)	6.5	6.9	(*)	29.6	29.6	(*)
35 Parkersburg-Marietta	55.9	57.4	(*)	.5	.5	(*)	3.4	4.1	(*)	17.8	18.0	(*)
36 Wheeling	64.3	65.9	(*)	7.2	7.3	(*)	3.4	3.6	(*)	13.3	13.4	(*)
37 WISCONSIN	1,896.7	1,946.3	1,978.4	2.9	2.8	3.1	86.2	87.8	93.7	565.7	567.0	577.7
38 Appleton-Oshkosh	122.1	125.5	127.7	(1)	(1)	(1)	6.4	6.5	7.4	47.9	48.7	49.6
39 Eau Claire	44.2	45.0	43.6	(1)	(1)	(1)	1.9	1.7	1.7	9.3	8.6	6.9
40 Green Bay	75.8	75.8	77.2	(1)	(1)	(1)	3.9	3.4	3.8	21.2	21.0	21.8
41 Kenosha	42.3	43.4	44.6	(1)	(1)	(1)	1.4	1.4	1.5	16.9	17.4	18.5
42 La Crosse	40.7	43.8	43.6	(1)	(1)	(1)	1.7	2.0	1.9	10.6	10.7	10.9
43 Madison	158.4	162.8	163.1	(1)	(1)	(1)	8.1	7.6	8.1	19.8	18.6	18.8
44 Milwaukee	653.1	670.1	677.1	(1)	(1)	(1)	23.7	25.0	26.2	208.6	210.2	212.4
45 Racine	71.4	71.3	72.8	(1)	(1)	(1)	2.7	2.4	2.6	31.1	31.8	32.4
46 WYOMING	196.9	208.0	216.4	29.2	32.4	33.8	23.5	25.2	27.1	9.5	10.0	10.4
47 Casper	37.1	43.3	45.9	7.5	10.1	10.8	3.8	5.3	6.1	1.8	1.8	1.9
48 Cheyenne	26.6	27.3	27.9	(1)	(1)	(1)	2.1	2.6	2.8	1.5	1.5	1.6

¹ Combined with services.

² Combined with construction.

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

⁴ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Burlington, Camden, and Gloucester Counties, New Jersey.

⁵ Subarea of New York-Northeastern New Jersey.

⁶ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁸ Subarea of New York Standard Metropolitan Statistical Area.

⁹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

¹⁰ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Philadelphia County.

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

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

¹³ Total includes data for industry divisions not shown separately.

¹⁴ 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			
JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	
332.6	348.5	352.7	1,282.5	1,329.5	1,333.4	298.6	306.2	311.9	892.5	931.3	931.9	919.9	973.3	960.2	1
6.9	6.9	6.9	22.2	21.6	21.6	3.6	3.6	3.6	14.1	14.4	14.6	11.1	12.2	11.2	2
6.7	6.5	6.6	44.4	46.2	46.2	13.1	13.2	13.3	36.0	37.5	37.5	75.8	82.5	79.8	3
10.9	11.2	11.3	31.8	30.3	30.4	5.4	5.4	5.5	23.4	23.5	23.9	17.8	17.8	17.2	4
6.3	6.4	6.4	26.5	26.2	26.2	5.2	5.3	5.3	17.3	18.2	18.4	25.1	25.8	24.7	5
82.6	87.4	88.6	339.5	356.7	359.3	95.7	98.5	100.0	226.3	239.0	241.6	171.4	177.5	171.5	6
10.3	10.4	10.5	37.3	38.1	38.7	6.9	7.2	7.2	24.7	25.5	25.6	30.2	33.2	33.3	7
6.2	6.8	6.8	13.3	12.8	12.9	4.4	4.5	4.5	10.7	10.3	10.4	16.9	16.5	16.5	8
93.9	97.2	99.2	302.3	311.3	313.5	75.0	78.2	79.8	246.7	255.9	256.9	139.0	147.1	146.8	9
5.0	5.1	5.1	25.1	25.5	25.4	4.4	4.6	4.6	14.8	16.0	16.4	16.5	20.1	17.3	10
15.6	16.6	17.0	91.4	93.9	93.9	24.4	24.7	25.1	67.9	69.9	69.5	93.8	92.9	91.5	11
3.2	3.2	3.3	14.8	15.5	15.5	3.7	4.0	4.0	12.4	14.0	12.9	11.2	11.1	11.0	12
2.4	2.4	2.4	12.2	12.1	12.1	2.2	2.3	2.3	7.4	7.5	7.5	11.0	11.1	10.5	13
32.2	33.9	35.1	128.9	133.5	135.7	24.7	25.8	26.4	90.3	96.8	98.9	118.6	126.5	121.8	14
25.3	26.5	26.7	95.4	99.3	100.4	20.2	21.0	21.5	63.3	68.1	69.3	85.8	89.2	85.1	15
8.7	8.9	9.0	39.3	41.6	41.9	7.5	7.6	7.7	39.8	40.3	40.6	34.6	35.5	35.0	16
2.2	2.2	2.2	10.6	11.9	11.8	-	-	-	10.2	11.2	11.1	-	-	-	17
.7	.8	.7	2.2	2.2	2.3	-	-	-	2.5	2.6	2.7	-	-	-	18
110.0	110.7	114.5	431.4	444.6	443.7	99.1	100.4	102.6	366.1	375.5	379.5	494.2	501.4	503.8	19
1.0	1.0	1.0	6.3	6.3	6.4	.9	1.0	1.0	3.2	3.4	3.4	5.1	4.8	4.8	20
2.5	2.6	2.7	11.4	12.0	12.1	3.1	3.4	3.4	9.6	10.4	10.2	9.9	10.0	9.9	21
5.1	4.8	5.0	27.4	27.3	27.8	5.0	4.8	5.0	28.2	28.0	29.0	40.6	41.3	42.0	22
18.3	18.0	18.5	68.4	69.7	70.2	14.5	14.5	14.9	52.3	50.8	51.3	81.4	81.0	80.6	23
27.7	27.0	28.8	97.0	100.2	100.2	25.4	26.1	26.5	100.1	102.8	104.6	116.1	117.0	117.8	24
1.3	1.5	1.6	8.8	8.9	8.9	1.3	1.3	1.3	5.8	6.1	6.2	15.8	16.0	16.3	25
19.0	19.9	20.2	73.1	72.1	71.6	24.9	25.4	25.8	56.3	56.8	57.3	73.4	72.9	73.1	26
10.2	9.7	10.0	25.6	26.0	26.0	5.7	6.0	6.0	19.3	19.3	19.4	17.5	16.5	16.8	27
84.5	91.6	(*)	368.4	388.1	(*)	84.9	90.4	(*)	278.2	298.3	(*)	313.4	318.4	(*)	28
46.8	48.8	(*)	172.5	181.4	(*)	49.8	51.9	(*)	132.1	142.5	(*)	117.0	119.6	(*)	29
8.0	8.0	(*)	34.5	35.5	(*)	8.0	8.0	(*)	27.2	28.8	(*)	21.9	22.5	(*)	30
6.6	6.9	(*)	32.1	33.9	(*)	6.7	6.9	(*)	27.4	29.5	(*)	31.9	32.4	(*)	31
42.4	42.4	(*)	127.0	128.2	(*)	20.6	21.0	(*)	89.2	90.0	(*)	114.5	116.2	(*)	32
9.5	9.6	(*)	25.4	25.9	(*)	4.9	4.9	(*)	18.6	18.6	(*)	19.0	18.6	(*)	33
9.4	9.2	(*)	22.6	23.3	(*)	3.7	3.7	(*)	14.2	14.3	(*)	16.6	17.3	(*)	34
2.5	2.5	(*)	12.1	12.2	(*)	1.9	1.9	(*)	8.3	8.5	(*)	9.4	9.7	(*)	35
3.8	3.7	(*)	14.4	15.1	(*)	2.4	2.4	(*)	12.4	12.9	(*)	7.4	7.6	(*)	36
88.9	90.8	91.7	431.6	454.8	462.0	86.9	89.2	90.8	337.5	352.0	359.2	297.1	302.0	300.2	37
4.1	4.3	4.3	24.4	25.8	25.9	4.8	5.0	5.1	19.6	19.7	20.2	14.8	15.2	15.2	38
2.5	2.6	2.6	11.6	12.3	12.4	1.4	1.4	1.4	9.2	9.4	9.6	8.4	9.0	8.9	39
5.4	5.3	5.5	19.2	19.7	19.8	2.7	2.8	2.8	12.9	13.5	13.4	10.5	10.2	10.1	40
1.9	1.7	1.8	8.2	8.4	8.6	.9	.9	1.0	6.5	7.7	7.6	6.0	5.8	5.7	41
2.4	3.2	3.2	10.5	11.5	11.2	1.0	1.0	1.0	8.7	9.0	9.2	5.9	6.3	6.1	42
5.6	5.8	5.9	34.6	36.1	36.2	11.9	12.3	12.7	27.0	28.5	28.9	51.4	53.9	52.6	43
33.2	34.0	34.2	146.4	153.6	155.2	35.6	36.2	36.4	129.3	136.4	138.1	76.1	74.8	74.6	44
2.4	2.5	2.4	13.0	13.2	13.3	2.2	2.3	2.3	10.8	10.7	11.0	9.3	8.6	8.8	45
14.8	16.5	17.2	44.3	48.0	49.6	6.5	7.0	7.2	29.4	27.6	30.3	39.7	41.3	40.8	46
2.6	2.9	3.0	10.0	12.1	12.6	1.4	1.5	1.5	5.3	5.2	5.5	4.7	4.4	4.5	47
3.6	3.8	3.8	6.5	7.4	7.5	1.5	1.5	1.6	4.6	3.5	3.6	6.8	7.0	7.0	48

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
-	TOTAL PRIVATE	\$204.53	\$206.55	\$215.84	\$219.96	\$221.40	\$5.65	\$5.69	\$6.08	\$6.11	\$6.15
-	MINING	336.05	337.82	359.96	367.60	359.97	7.69	7.82	8.43	8.47	8.51
10	METAL MINING	329.67	341.55	368.15	372.04	-	8.10	8.29	9.09	9.03	-
101	Iron ores	361.99	363.80	395.85	396.77	-	8.36	8.52	9.47	9.38	-
102	Copper ores	317.00	336.18	379.39	385.90	-	8.17	8.62	9.12	9.08	-
11, 12	COAL MINING	391.40	390.91	426.62	433.46	-	9.50	(*)	10.38	10.47	-
12	BITUMINOUS COAL AND LIGNITE MINING	393.59	393.09	427.85	434.70	-	9.53	(*)	10.41	10.50	-
13	OIL AND GAS EXTRACTION	313.69	314.62	331.58	340.67	-	6.94	7.07	7.64	7.69	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	330.42	341.49	358.85	361.99	-	8.02	8.15	8.71	8.66	-
138	Oil and gas field services	305.79	303.45	320.29	331.14	-	6.52	6.64	7.23	7.31	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	293.11	295.74	309.83	318.30	-	6.29	6.36	6.75	6.86	-
142	Crushed and broken stone	291.04	295.30	306.54	312.74	-	6.14	6.23	6.55	6.64	-
-	CONSTRUCTION	324.42	329.67	340.55	346.56	349.65	8.56	8.63	9.13	9.12	9.25
15	GENERAL BUILDING CONTRACTORS	289.08	293.97	309.82	312.44	-	7.92	8.01	8.63	8.56	-
152	Residential building construction	275.60	277.06	296.07	297.11	-	7.53	7.57	8.27	8.14	-
153	Operative builders	246.68	257.05	261.45	264.89	-	6.74	6.91	7.47	7.42	-
154	Nonresidential building construction	311.95	320.90	332.48	336.17	-	8.57	8.72	9.21	9.21	-
16	HEAVY CONSTRUCTION CONTRACTORS	339.78	341.82	345.82	364.23	-	8.09	8.10	8.56	8.57	-
161	Highway and street construction	336.68	343.10	340.13	371.70	-	7.60	7.71	8.06	8.26	-
162	Heavy construction, except highway	341.45	340.68	349.08	360.86	-	8.41	8.35	8.86	8.78	-
17	SPECIAL TRADE CONTRACTORS	338.00	343.36	354.16	356.96	-	9.16	9.23	9.65	9.70	-
171	Plumbing, heating, air conditioning	359.25	357.96	372.45	374.14	-	9.38	9.42	9.75	9.82	-
172	Painting, paper hanging, decorating	298.91	310.46	324.12	311.52	-	8.42	8.60	9.13	8.85	-
173	Electrical work	391.78	396.24	410.34	420.53	-	10.31	10.40	10.77	10.98	-
174	Masonry, stonework, and plastering	317.35	319.33	331.20	331.90	-	8.99	8.97	9.49	9.51	-
175	Carpentering and flooring	292.28	294.99	306.24	306.76	-	8.28	8.24	8.80	8.69	-
176	Roofing and sheet metal work	264.55	277.26	283.58	293.02	-	7.85	8.06	8.44	8.42	-
-	MANUFACTURING	249.29	248.65	265.46	269.06	268.40	6.11	6.17	6.62	6.66	6.71
24, 25, 32-39	DURABLE GOODS	270.58	268.71	288.46	291.51	288.46	6.52	6.57	7.07	7.11	7.14
20-23, 26-31	NONDURABLE GOODS	217.56	220.02	231.08	234.04	236.98	5.48	5.57	5.91	5.94	6.03
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	230.93	227.83	236.41	246.00	242.87	5.66	5.71	5.97	6.15	6.18
241	Logging camps and logging contractors	302.66	301.43	306.53	332.03	-	7.40	7.37	7.88	8.28	-
242	Sawmills and planing mills	243.78	240.72	250.29	261.58	-	5.86	5.90	6.18	6.38	-
2421	Sawmills and planing mills, general	258.52	254.20	263.33	275.78	-	6.17	6.20	6.47	6.71	-
2426	Hardwood dimension and flooring	158.37	159.20	170.31	172.91	-	3.92	3.97	4.29	4.28	-
243	Millwork, plywood, and structural members	228.37	223.34	230.30	233.84	-	5.57	5.64	5.86	5.92	-
2431	Millwork	209.75	211.18	219.61	221.26	-	5.27	5.36	5.66	5.63	-
2434	Wood kitchen cabinets	198.79	196.74	203.99	205.58	-	5.02	5.11	5.34	5.41	-
2435	Hardwood veneer and plywood	183.68	172.52	185.57	185.87	-	4.48	4.54	4.71	4.67	-
2436	Softwood veneer and plywood	314.43	301.14	299.71	309.26	-	7.13	7.17	7.31	7.58	-
244	Wooden containers	157.85	160.58	169.84	173.49	-	4.10	4.16	4.40	4.46	-
245	Wood buildings and mobile homes	204.88	199.50	213.74	214.51	-	5.20	5.25	5.61	5.66	-
2451	Mobile homes	202.15	195.83	211.84	212.24	-	5.17	5.25	5.56	5.60	-
249	Miscellaneous wood products	186.53	184.39	193.91	200.65	-	4.64	4.68	4.86	4.93	-
25	FURNITURE AND FIXTURES	185.93	182.52	189.85	195.44	193.54	4.66	4.68	4.97	5.05	5.04
251	Household furniture	173.01	168.19	177.37	181.54	-	4.38	4.38	4.68	4.74	-
2511	Wood household furniture	162.41	157.49	167.14	169.02	-	4.04	4.08	4.33	4.39	-
2512	Upholstered household furniture	180.86	174.17	186.13	189.88	-	4.71	4.62	4.99	5.05	-
2514	Metal household furniture	172.48	172.14	184.73	191.57	-	4.48	4.53	4.90	4.95	-
2515	Mattresses and bedsprings	199.08	193.39	195.78	202.69	-	5.04	5.01	5.32	5.32	-
252	Office furniture	212.28	209.16	211.47	213.47	-	5.14	5.19	5.30	5.35	-
253	Public building and related furniture	211.82	214.02	213.84	222.76	-	5.23	5.12	5.40	5.42	-
254	Partitions and fixtures	225.07	233.60	230.57	242.53	-	5.53	5.59	6.02	6.14	-
259	Miscellaneous furniture and fixtures	206.86	199.14	203.84	215.00	-	5.07	5.08	5.35	5.57	-

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				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
-	TOTAL PRIVATE	36.2	36.3	35.5	36.0	36.0	-	-	-	-	-
-	MINING	43.7	43.2	42.7	43.4	42.3	-	-	-	-	-
10	METAL MINING	40.7	41.2	40.5	41.2	-	-	-	-	-	-
101	Iron ores	43.3	42.7	41.8	42.3	-	-	-	-	-	-
102	Copper ores	38.8	39.0	41.6	42.5	-	-	-	-	-	-
11, 12	COAL MINING	41.2	(*)	41.1	41.4	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	41.3	(*)	41.1	41.4	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	45.2	44.5	43.4	44.3	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.2	41.9	41.2	41.8	-	-	-	-	-	-
138	Oil and gas field services	46.9	45.7	44.3	45.3	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	46.6	46.5	45.9	46.4	-	-	-	-	-	-
142	Crushed and broken stone	47.4	47.4	46.8	47.1	-	-	-	-	-	-
-	CONSTRUCTION	37.9	38.2	37.3	38.0	37.8	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.5	36.7	35.9	36.5	-	-	-	-	-	-
152	Residential building construction	36.6	36.6	35.8	36.5	-	-	-	-	-	-
153	Operative builders	36.6	37.2	35.0	35.7	-	-	-	-	-	-
154	Nonresidential building construction	36.4	36.8	36.1	36.5	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	42.0	42.2	40.4	42.5	-	-	-	-	-	-
161	Highway and street construction	44.3	44.5	42.2	45.0	-	-	-	-	-	-
162	Heavy construction, except highway	40.6	40.8	39.4	41.1	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	36.9	37.2	36.7	36.8	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	38.3	38.0	38.2	38.1	-	-	-	-	-	-
172	Painting, paper hanging, decorating	35.5	36.1	35.5	35.2	-	-	-	-	-	-
173	Electrical work	38.0	38.1	38.1	38.3	-	-	-	-	-	-
174	Masonry, stonework, and plastering	35.3	35.6	34.9	34.9	-	-	-	-	-	-
175	Carpentering and flooring	35.3	35.8	34.8	35.3	-	-	-	-	-	-
176	Roofing and sheet metal work	33.7	34.4	33.6	34.8	-	-	-	-	-	-
-	MANUFACTURING	40.8	40.3	40.1	40.4	40.0	3.6	3.5	3.3	3.4	3.3
24, 25, 32-39	DURABLE GOODS	41.5	40.9	40.8	41.0	40.4	3.8	3.7	3.6	3.6	3.4
20-23, 26-31	NONDURABLE GOODS	39.7	39.5	39.1	39.4	39.3	3.2	3.2	2.9	3.1	3.1
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	40.8	39.9	39.6	40.0	39.3	3.9	3.8	3.5	3.6	-
241	Logging camps and logging contractors	40.9	40.9	38.9	40.1	-	4.9	4.8	4.3	4.9	-
242	Sawmills and planing mills	41.6	40.8	40.5	41.0	-	4.6	4.6	4.1	4.4	-
2421	Sawmills and planing mills, general	41.9	41.0	40.7	41.1	-	4.9	4.9	4.4	4.7	-
2426	Hardwood dimension and flooring	40.4	40.1	39.7	40.4	-	3.8	3.3	3.2	3.4	-
243	Millwork, plywood, and structural members	41.0	39.6	39.3	39.5	-	3.3	3.3	3.0	2.9	-
2431	Millwork	39.8	39.4	38.8	39.3	-	2.5	2.4	1.7	1.8	-
2434	Wood kitchen cabinets	39.6	38.5	38.2	38.0	-	2.5	2.6	2.5	2.3	-
2435	Hardwood veneer and plywood	41.0	38.0	39.4	39.8	-	4.0	3.6	3.5	3.6	-
2436	Softwood veneer and plywood	44.1	42.0	41.0	40.8	-	4.8	4.7	4.8	4.3	-
244	Wooden containers	38.5	38.6	38.6	38.9	-	3.5	3.3	2.9	3.0	-
245	Wood buildings and mobile homes	39.4	38.0	38.1	37.9	-	2.9	2.6	2.0	2.1	-
2451	Mobile homes	39.1	37.3	38.1	37.9	-	2.2	1.9	1.7	1.8	-
249	Miscellaneous wood products	40.2	39.4	39.9	40.7	-	3.3	3.2	3.3	3.4	-
25	FURNITURE AND FIXTURES	39.9	39.0	38.2	38.7	38.4	2.8	2.4	2.0	2.2	-
251	Household furniture	39.5	38.4	37.9	38.3	-	2.7	2.2	2.0	2.2	-
2511	Wood household furniture	40.2	38.6	38.6	38.5	-	3.3	2.7	2.4	2.5	-
2512	Upholstered household furniture	38.4	37.7	37.3	37.6	-	1.9	1.3	1.4	1.5	-
2514	Metal household furniture	38.5	38.0	37.7	38.7	-	1.7	1.9	1.7	2.0	-
2515	Mattresses and bedsprings	39.5	38.6	36.8	38.1	-	3.5	3.4	2.2	2.8	-
252	Office furniture	41.3	40.3	39.9	39.9	-	3.2	2.5	2.2	2.2	-
253	Public building and related furniture	40.5	41.8	39.6	41.1	-	2.6	2.2	1.8	1.9	-
254	Partitions and fixtures	40.7	40.0	38.3	39.5	-	3.2	3.2	2.0	2.8	-
259	Miscellaneous furniture and fixtures	40.8	39.2	38.1	38.6	-	2.4	1.7	1.5	2.2	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1978	July 1978	May 1979	June 1979P	July 1979P	June 1978	July 1978	May 1979	June 1979P	July 1979P
32	STONE, CLAY, AND GLASS PRODUCTS	\$268.39	\$266.90	\$282.99	\$286.86	\$284.00	\$6.33	\$6.37	\$6.77	\$6.83	\$6.86
321	Flat glass	342.26	345.53	372.37	379.74	-	7.85	7.98	8.58	8.65	-
322	Glass and glassware, pressed or blown	268.52	270.28	289.48	289.98	-	6.63	6.69	7.13	7.16	-
3221	Glass containers	283.85	285.82	307.09	307.50	-	6.94	7.04	7.49	7.50	-
3229	Pressed and blown glass, nec	246.18	247.82	265.86	266.53	-	6.17	6.18	6.63	6.68	-
323	Products of purchased glass	257.48	240.79	249.02	251.83	-	6.28	6.19	6.21	6.28	-
324	Cement, hydraulic	358.66	369.30	408.53	413.76	-	8.56	8.71	9.59	9.69	-
325	Structural clay products	215.69	210.42	228.25	231.30	-	5.16	5.17	5.50	5.56	-
326	Pottery and related products	207.20	198.53	214.11	215.34	-	5.18	5.17	5.49	5.55	-
327	Concrete, gypsum, and plaster products	281.34	282.95	294.77	301.92	-	6.28	6.33	6.73	6.80	-
3271	Concrete block and brick	259.90	261.50	281.93	281.07	-	5.75	5.76	6.21	6.26	-
3272	Concrete products, nec	238.10	238.29	253.68	259.37	-	5.55	5.62	6.04	6.06	-
3273	Ready-mixed concrete	318.07	319.90	326.34	337.19	-	6.96	7.00	7.35	7.46	-
329	Misc. nonmetallic mineral products	266.90	262.92	279.81	285.34	-	6.28	6.29	6.71	6.81	-
3291	Abrasive products	252.75	248.52	266.02	270.60	-	6.21	6.26	6.52	6.60	-
3292	Asbestos products	280.58	280.36	284.56	293.58	-	6.45	6.46	6.89	6.99	-
33	PRIMARY METAL INDUSTRIES	341.01	342.34	364.68	371.55	366.71	8.10	8.19	8.83	8.91	9.01
331	Blast furnace and basic steel products	384.98	391.02	421.28	429.09	-	9.21	9.31	10.25	10.29	-
3312	Blast furnaces and steel mills	395.32	402.36	433.78	440.96	-	9.48	9.58	10.58	10.60	-
3317	Steel pipe and tubes	320.68	318.52	335.38	345.68	-	7.51	7.62	8.22	8.25	-
332	Iron and steel foundries	308.85	297.56	315.70	320.90	-	7.25	7.24	7.70	7.77	-
3321	Gray iron foundries	313.96	309.00	321.88	323.11	-	7.37	7.41	7.87	7.90	-
3322	Malleable iron foundries	323.79	301.08	327.62	348.16	-	7.84	7.72	8.17	8.43	-
3325	Steel foundries, nec	292.92	275.40	305.76	317.05	-	6.86	6.80	7.35	7.46	-
333	Primary nonferrous metals	362.94	368.07	382.05	389.46	-	8.56	8.62	9.14	9.43	-
3334	Primary aluminum	396.33	390.28	401.02	415.95	-	9.26	9.14	9.71	10.22	-
335	Nonferrous rolling and drawing	308.45	306.13	333.06	336.54	-	7.19	7.22	7.80	7.90	-
3351	Copper rolling and drawing	302.13	290.79	309.60	313.35	-	6.82	6.81	7.15	7.22	-
3353	Aluminum sheet, plate, and foil	372.66	369.67	417.53	421.18	-	8.81	8.76	9.71	9.91	-
3357	Nonferrous wire drawing and insulating	283.16	283.56	306.71	306.91	-	6.71	6.80	7.32	7.36	-
336	Nonferrous foundries	255.02	251.53	267.85	270.80	-	6.16	6.18	6.63	6.67	-
3361	Aluminum foundries	263.49	260.07	278.76	281.76	-	6.38	6.39	6.90	6.94	-
34	FABRICATED METAL PRODUCTS	259.78	255.96	275.54	279.21	276.21	6.29	6.32	6.77	6.81	6.82
341	Metal cans and shipping containers	356.09	366.83	381.05	399.61	-	8.02	8.17	8.68	8.90	-
3411	Metal cans	369.29	381.88	393.74	411.21	-	8.28	8.43	9.01	9.22	-
342	Cutlery, hand tools, and hardware	242.61	235.82	259.35	260.25	-	6.02	5.97	6.50	6.49	-
3423, 5	Hand and edge tools, and hand saws and blades	233.69	224.62	251.91	257.70	-	5.77	5.73	6.22	6.27	-
3429	Hardware, nec	252.68	246.93	269.28	266.34	-	6.27	6.22	6.80	6.76	-
343	Plumbing and heating, except electric	219.54	216.28	232.46	242.60	-	5.53	5.56	5.90	5.99	-
3432	Plumbing fittings and brass goods	214.26	214.03	234.52	239.29	-	5.37	5.46	5.72	5.78	-
3433	Heating equipment, except electric	210.75	208.19	219.82	230.50	-	5.39	5.45	5.80	5.88	-
344	Fabricated structural metal products	243.79	241.60	259.35	263.41	-	5.99	6.04	6.50	6.52	-
3441	Fabricated structural metal	258.54	253.08	280.98	284.14	-	6.26	6.28	6.87	6.88	-
3442	Metal doors, sash, and trim	190.64	190.51	206.98	207.90	-	4.79	4.86	5.28	5.25	-
3443	Fabricated plate work (boiler shops)	268.79	262.66	282.61	289.76	-	6.54	6.55	7.03	7.05	-
3444	Sheet metal work	246.62	248.06	260.96	263.61	-	6.15	6.28	6.59	6.64	-
3446	Architectural metal work	235.53	234.99	240.86	240.40	-	5.83	5.86	6.16	6.18	-
345	Screw machine products, bolts, etc.	255.26	248.29	273.07	273.28	-	5.95	5.94	6.41	6.40	-
3451	Screw machine products	237.15	233.38	250.80	248.53	-	5.58	5.61	6.00	5.96	-
3452	Bolts, nuts, rivets, and washers	273.85	264.39	295.99	298.91	-	6.31	6.28	6.82	6.84	-
346	Metal forgings and stampings	306.91	302.73	319.90	323.93	-	7.29	7.33	7.86	7.92	-
3462	Iron and steel forgings	326.82	330.72	324.23	337.04	-	7.80	7.95	8.51	8.62	-
3465	Automotive stampings	377.15	373.25	396.16	397.57	-	8.67	8.66	9.41	9.58	-
3469	Metal stampings, nec	229.45	222.78	243.19	245.78	-	5.61	5.64	5.99	5.98	-
347	Metal services, nec	208.08	204.29	219.49	222.89	-	5.10	5.12	5.46	5.49	-
3471	Plating and polishing	201.14	196.91	212.40	214.67	-	4.93	4.96	5.31	5.34	-
3479	Metal coating and allied services	225.62	224.52	237.86	243.53	-	5.53	5.53	5.83	5.84	-
348	Ordinance and accessories, nec	252.97	247.82	267.15	268.77	-	6.14	6.18	6.58	6.62	-
3483	Ammunition, exc. for small arms, nec	227.08	217.17	244.09	244.44	-	5.72	5.73	6.34	6.30	-
349	Misc. fabricated metal products	246.60	241.80	261.58	265.56	-	6.00	6.03	6.38	6.43	-
3494	Valves and pipe fittings	269.66	260.76	280.90	284.08	-	6.33	6.36	6.72	6.78	-
3496	Misc. fabricated wire products	215.59	211.20	228.57	235.34	-	5.31	5.32	5.70	5.74	-
35	MACHINERY, EXCEPT ELECTRICAL	283.41	279.30	301.91	307.86	305.03	6.70	6.73	7.24	7.33	7.35
351	Engines and turbines	322.97	331.10	351.44	361.01	-	7.82	7.94	8.53	8.72	-
3511	Turbines and turbine generator sets	283.14	305.18	315.50	314.72	-	7.15	7.48	7.79	7.79	-
3519	Internal combustion engines, nec	338.52	341.43	363.96	375.72	-	8.06	8.11	8.77	9.01	-
352	Farm and garden machinery	306.91	297.52	335.91	349.38	-	7.36	7.31	7.96	8.24	-
3523	Farm machinery and equipment	316.35	307.84	348.50	363.37	-	7.55	7.49	8.20	8.49	-
353	Construction and related machinery	302.70	293.66	320.38	329.80	-	7.19	7.18	7.72	7.89	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	42.4	41.9	41.8	42.0	41.4	5.1	5.1	4.8	4.9	-
321	Flat glass	43.6	43.3	43.4	43.9	-	6.5	6.9	5.3	5.1	-
322	Glass and glassware, pressed or blown	40.5	40.4	40.6	40.5	-	4.0	4.1	4.1	4.0	-
3221	Glass containers	40.9	40.6	41.0	41.0	-	4.6	4.7	4.4	4.4	-
3229	Pressed and blown glass, nec	39.9	40.1	40.1	39.9	-	3.2	3.3	3.8	3.5	-
323	Products of purchased glass	41.0	38.9	40.1	40.1	-	4.2	3.8	3.8	3.6	-
324	Cement, hydraulic	41.9	42.4	42.6	42.7	-	4.3	4.3	4.2	3.9	-
325	Structural clay products	41.8	40.7	41.5	41.6	-	4.3	4.5	4.1	4.2	-
326	Pottery and related products	40.0	38.4	39.0	38.8	-	2.5	2.1	2.4	2.3	-
327	Concrete, gypsum, and plaster products	44.8	44.7	43.8	44.4	-	7.5	7.5	6.7	7.1	-
3271	Concrete block and brick	45.2	45.4	45.4	44.9	-	8.3	8.3	7.4	7.4	-
3272	Concrete products, nec	42.9	42.4	42.0	42.8	-	5.9	6.1	5.2	5.6	-
3273	Ready-mixed concrete	45.7	45.7	49.4	45.2	-	8.3	8.1	7.3	8.2	-
329	Misc. nonmetallic mineral products	42.5	41.8	41.7	41.9	-	4.4	4.3	4.2	4.3	-
3291	Abrasive products	40.7	39.7	40.8	41.0	-	3.3	3.2	3.4	3.4	-
3292	Asbestos products	43.5	43.4	41.3	42.0	-	4.6	4.9	2.8	3.3	-
33	PRIMARY METAL INDUSTRIES	42.1	41.8	41.3	41.7	40.7	4.1	4.2	3.9	4.1	-
331	Blast furnace and basic steel products	41.8	42.0	41.1	41.7	-	3.3	3.7	3.4	3.7	-
3312	Blast furnaces and steel mills	41.7	42.0	41.0	41.6	-	3.2	3.7	3.3	3.6	-
3317	Steel pipe and tubes	42.7	41.8	40.8	41.9	-	4.5	4.3	3.6	3.7	-
332	Iron and steel foundries	42.6	41.1	41.0	41.3	-	5.1	4.6	4.1	4.2	-
3321	Gray iron foundries	42.6	41.7	40.9	40.9	-	5.4	5.3	4.0	4.0	-
3322	Malleable iron foundries	41.3	39.0	40.1	41.3	-	4.5	3.2	3.9	4.6	-
3325	Steel foundries, nec	42.7	40.5	41.6	42.5	-	4.3	3.5	4.5	4.7	-
333	Primary nonferrous metals	42.7	42.7	41.8	41.3	-	3.9	4.1	3.8	4.0	-
3334	Primary aluminum	42.8	42.7	41.3	40.7	-	4.7	4.3	3.8	4.1	-
336	Nonferrous rolling and drawing	42.9	42.4	42.7	42.6	-	5.4	5.3	5.2	5.4	-
3361	Copper rolling and drawing	44.3	42.7	43.3	43.4	-	6.2	5.5	5.3	5.7	-
3363	Aluminum sheet, plate and foil	42.3	42.2	43.0	42.5	-	6.4	6.8	6.7	6.8	-
3367	Nonferrous wire drawing and insulating	42.2	41.7	41.9	41.7	-	4.8	4.6	4.5	4.5	-
336	Nonferrous foundries	41.4	40.7	40.4	40.6	-	3.7	3.6	3.4	3.4	-
3361	Aluminum foundries	41.3	40.7	40.4	40.6	-	3.8	3.8	3.5	3.4	-
34	FABRICATED METAL PRODUCTS	41.3	40.5	40.7	41.0	40.5	3.8	3.5	3.5	3.5	-
341	Metal cans and shipping containers	44.4	44.9	43.9	44.9	-	5.1	5.5	4.9	5.5	-
3411	Metal cans	44.6	45.3	43.7	44.6	-	4.8	5.4	4.4	5.1	-
342	Cutlery, hand tools, and hardware	40.3	39.5	39.9	40.1	-	3.0	2.6	2.9	2.8	-
3423, 5	Hand and edge tools, and hand saws and blades	40.5	39.2	40.5	41.1	-	3.0	2.5	3.2	3.3	-
3429	Hardware, nec	40.3	39.7	39.6	39.4	-	3.0	2.8	2.8	2.5	-
343	Plumbing and heating, except electric	39.7	38.9	39.4	40.5	-	2.4	2.1	2.7	2.7	-
3432	Plumbing fittings and brass goods	39.9	39.2	41.0	41.4	-	2.3	2.1	3.3	3.2	-
3433	Heating equipment, except electric	39.1	38.2	37.9	39.2	-	2.0	1.7	1.7	2.1	-
344	Fabricated structural metal products	40.7	40.0	39.9	40.4	-	3.3	3.2	2.7	2.9	-
3441	Fabricated structural metal	41.3	40.3	40.9	41.3	-	3.6	3.5	3.7	3.8	-
3442	Metal doors, sash, and trim	39.8	39.2	39.2	39.6	-	2.9	2.8	2.3	2.3	-
3443	Fabricated plate work (boiler shops)	41.1	40.1	40.2	41.1	-	3.4	2.9	2.4	2.7	-
3444	Sheet metal work	40.1	39.5	39.6	39.7	-	3.3	3.2	2.9	3.1	-
3446	Architectural metal work	40.4	40.1	39.1	38.9	-	2.4	2.5	1.8	1.9	-
345	Screw machine products, bolts, etc.	42.9	41.8	42.6	42.7	-	5.2	4.7	5.0	4.9	-
3451	Screw machine products	42.5	41.6	41.8	41.7	-	5.4	5.0	5.1	4.9	-
3452	Bolts, nuts, rivets, and washers	43.4	42.1	43.4	43.7	-	5.0	4.4	4.8	4.9	-
346	Metal forgings and stampings	42.1	41.3	40.7	40.9	-	4.6	4.4	4.4	4.3	-
3462	Iron and steel forgings	41.9	41.6	38.1	39.1	-	5.0	5.2	4.3	4.5	-
3465	Automotive stampings	43.5	43.1	42.1	41.5	-	5.6	5.3	5.6	4.7	-
3469	Metal stampings, nec	40.9	39.5	40.6	41.1	-	3.6	3.2	3.4	3.6	-
347	Metal services, nec	40.8	39.9	40.2	40.6	-	4.1	3.7	3.6	3.6	-
3471	Plating and polishing	40.8	39.7	40.0	40.2	-	4.0	3.4	3.5	3.3	-
3479	Metal coating and allied services	40.8	40.6	40.8	41.7	-	4.2	4.4	3.8	4.5	-
348	Ordinance and accessories, nec	41.2	40.1	40.6	40.6	-	3.4	2.8	2.6	2.6	-
3483	Ammunition, exc. for small arms, nec	39.7	37.9	38.5	38.8	-	2.0	1.6	1.5	1.3	-
349	Misc. fabricated metal products	41.1	40.1	41.0	41.3	-	3.2	3.0	3.2	3.5	-
3494	Valves and pipe fittings	42.6	41.0	41.8	41.9	-	3.9	3.4	3.8	4.0	-
3496	Misc. fabricated wire products	40.6	39.7	40.1	41.0	-	2.7	2.7	3.2	3.7	-
35	MACHINERY, EXCEPT ELECTRICAL	42.3	41.5	41.7	42.0	41.5	4.1	3.9	3.9	4.0	-
351	Engines and turbines	41.3	41.7	41.2	41.4	-	3.6	4.2	3.6	3.7	-
3511	Turbines and turbine generator sets	39.6	40.8	40.5	40.4	-	3.6	4.3	3.5	3.7	-
3519	Internal combustion engines, nec	42.0	42.1	41.5	41.7	-	3.6	4.1	3.7	3.7	-
352	Farm and garden machinery	41.7	40.7	42.2	42.4	-	3.5	3.0	4.9	4.9	-
3523	Farm machinery and equipment	41.9	41.1	42.5	42.8	-	3.6	3.1	5.2	5.2	-
353	Construction and related machinery	42.1	40.9	41.5	41.8	-	3.8	3.8	3.1	3.2	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	\$328.68	\$314.41	\$344.32	\$360.33	—	\$7.92	\$7.88	\$8.46	\$8.81	—
3532	Mining machinery	291.07	286.23	320.02	327.54	—	6.98	7.05	7.73	7.78	—
3533	Oil field machinery	286.23	284.26	312.13	310.87	—	6.58	6.58	7.11	7.13	—
3535	Conveyers and conveying equipment	259.01	266.05	271.41	284.43	—	6.08	6.26	6.54	6.63	—
3537	Industrial trucks and tractors	267.73	259.38	279.40	296.94	—	6.53	6.60	7.02	7.07	—
354	Metalworking machinery	306.24	302.93	325.69	330.25	—	6.96	6.98	7.47	7.54	—
3541	Machine tools, metal cutting types	323.18	311.03	333.32	332.67	—	7.15	7.15	7.61	7.63	—
3542	Machine tools, metal forming types	324.56	319.49	326.32	332.63	—	7.41	7.43	7.66	7.79	—
3544	Special dies, tools, jigs, and fixtures	333.61	336.29	352.44	360.64	—	7.43	7.44	7.92	8.05	—
3545	Machine tool accessories	270.67	265.44	298.51	300.67	—	6.28	6.32	6.91	6.96	—
3546	Power driven hand tools	217.20	210.14	249.28	250.69	—	5.43	5.43	6.14	6.07	—
355	Special industry machinery	267.54	261.29	281.40	285.38	—	6.37	6.42	6.83	6.86	—
3551	Food products machinery	280.90	280.01	299.94	299.94	—	6.72	6.78	7.28	7.28	—
3552	Textile machinery	223.10	208.68	229.14	235.15	—	5.35	5.23	5.63	5.68	—
3555	Printing trades machinery	279.07	260.40	288.84	290.75	—	6.49	6.51	6.96	7.04	—
356	General industrial machinery	277.38	274.46	298.60	303.58	—	6.70	6.76	7.23	7.28	—
3561	Pumps and pumping equipment	272.28	264.67	292.33	296.02	—	6.69	6.65	7.13	7.22	—
3562	Ball and roller bearings	278.05	277.16	312.49	310.80	—	6.70	6.76	7.37	7.40	—
3563	Air and gas compressors	298.35	296.19	302.50	312.17	—	7.02	7.12	7.36	7.38	—
3564	Blowers and fans	251.74	253.79	263.46	275.88	—	6.14	6.19	6.57	6.60	—
3566	Speed changers, drives, and gears	306.72	309.44	345.40	352.72	—	7.10	7.23	7.85	7.98	—
3568	Power transmission equipment, nec	268.86	264.52	287.82	291.33	—	6.51	6.58	7.02	7.02	—
357	Office and computing machines	233.10	227.42	243.19	251.82	—	5.55	5.52	5.99	6.01	—
3573	Electronic computing equipment	233.37	225.64	244.58	254.04	—	5.53	5.49	5.98	6.02	—
358	Refrigeration and service machinery	253.68	251.33	264.22	268.11	—	6.04	6.13	6.54	6.62	—
3565	Refrigeration and heating equipment	260.53	260.63	271.73	276.48	—	6.13	6.25	6.66	6.76	—
359	Misc. machinery, except electrical	277.12	271.88	294.56	297.36	—	6.49	6.52	7.03	7.08	—
3592	Carburetors, pistons, rings, valves	319.60	304.09	340.55	338.24	—	7.52	7.49	8.07	8.17	—
3599	Machinery, except electrical, nec	269.86	266.48	285.91	289.65	—	6.32	6.36	6.84	6.88	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	232.88	233.78	250.45	252.90	\$247.35	5.75	5.83	6.23	6.26	\$6.31
361	Electric distributing equipment	231.78	234.63	250.70	252.32	—	5.78	5.91	6.19	6.23	—
3612	Transformers	221.27	224.22	238.50	240.54	—	5.45	5.55	5.86	5.91	—
3613	Switchgear and switchboard apparatus	240.77	242.97	262.20	263.81	—	6.08	6.23	6.49	6.53	—
362	Electrical industrial apparatus	236.70	239.38	259.26	260.94	—	5.83	5.94	6.37	6.38	—
3621	Motors and generators	241.98	246.44	260.98	261.23	—	5.96	6.07	6.46	6.45	—
3622	Industrial controls	215.57	217.01	251.31	254.00	—	5.43	5.55	6.19	6.18	—
363	Household appliances	230.92	231.64	249.25	255.04	—	5.73	5.82	6.31	6.36	—
3632	Household refrigerators and freezers	247.04	247.42	269.00	280.85	—	6.04	6.17	6.81	6.85	—
3633	Household laundry equipment	262.75	276.86	290.21	289.02	—	6.72	6.87	7.31	7.28	—
3634	Electric housewares and fans	198.21	197.38	205.28	211.87	—	4.87	4.91	5.25	5.31	—
364	Electric lighting and wiring equipment	221.40	216.91	232.58	232.22	—	5.40	5.45	5.80	5.82	—
3641	Electric lamps	239.37	240.40	251.29	243.49	—	5.81	5.98	6.22	6.18	—
3643	Current-carrying wiring devices	210.50	204.72	217.34	222.20	—	5.06	5.08	5.42	5.50	—
3644	Noncurrent-carrying wiring devices	228.30	220.86	238.00	240.19	—	5.41	5.44	5.98	6.05	—
3645	Residential lighting fixtures	166.38	163.32	177.49	175.49	—	4.39	4.45	4.61	4.57	—
365	Radio and TV receiving equipment	205.39	209.52	225.17	237.55	—	5.28	5.40	5.91	6.06	—
3651	Radio and TV receiving sets	208.98	213.24	230.58	243.36	—	5.40	5.51	6.10	6.24	—
366	Communication equipment	266.49	268.62	289.98	294.88	—	6.58	6.60	7.09	7.14	—
3661	Telephone and telegraph apparatus	259.24	254.15	291.72	298.08	—	6.53	6.50	7.15	7.20	—
3662	Radio and TV communication equipment	272.33	280.14	288.35	292.52	—	6.61	6.67	7.05	7.10	—
367	Electronic components and accessories	197.40	195.91	208.68	211.33	—	4.85	4.91	5.23	5.27	—
3671-3	Electronic tubes	260.53	255.64	273.41	276.39	—	6.13	6.16	6.62	6.66	—
3674	Semiconductors and related devices	222.91	218.69	238.05	240.20	—	5.32	5.36	5.75	5.83	—
3679	Electronic components, nec	182.51	183.41	192.76	192.72	—	4.54	4.62	4.88	4.93	—
369	Misc. electrical equipment and supplies	282.36	283.91	298.33	297.68	—	6.87	7.01	7.33	7.35	—
3691	Storage batteries	285.60	287.52	287.39	291.95	—	7.00	7.17	7.35	7.41	—
3694	Engine electrical equipment	318.06	320.62	340.31	336.60	—	7.72	7.82	8.24	8.25	—
37	TRANSPORTATION EQUIPMENT	331.93	330.06	354.83	352.31	350.17	7.81	7.84	8.55	8.51	8.52
371	Motor vehicles and equipment	369.23	367.14	385.14	378.98	—	8.43	8.44	9.17	9.11	—
3711	Motor vehicles and car bodies	391.60	384.05	417.64	411.31	—	8.90	8.89	9.85	9.84	—
3713	Truck and bus bodies	279.19	275.77	284.00	278.69	—	6.76	6.86	7.10	7.02	—
3714	Motor vehicle parts and accessories	368.24	371.23	376.74	372.86	—	8.35	8.38	8.97	8.92	—
3716	Truck trailers	225.68	222.24	232.20	236.38	—	5.60	5.57	6.00	6.03	—
372	Aircraft and parts	311.64	313.08	339.75	343.05	—	7.42	7.49	8.07	8.11	—
3721	Aircraft	315.93	319.70	349.44	351.10	—	7.54	7.63	8.32	8.32	—
3724	Aircraft engines and engine parts	319.90	323.23	346.11	351.12	—	7.69	7.77	8.30	8.38	—
3728	Aircraft equipment, nec	291.04	286.02	307.73	312.18	—	6.80	6.81	7.19	7.26	—
373	Ship and boat building and repairing	254.80	253.49	(*)	(*)	—	6.50	6.55	(*)	(*)	—
3731	Shipbuilding and repairing	268.32	266.73	(*)	(*)	—	6.88	6.91	(*)	(*)	—
3732	Boat building and repairing	208.30	207.48	225.62	226.77	—	5.26	5.32	5.80	5.89	—
374	Railroad equipment	317.18	314.02	359.96	(*)	—	7.89	7.97	8.91	(*)	—

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	41.5	39.9	40.7	40.9	—	3.0	3.0	2.6	2.5	—
3532	Mining machinery	41.7	40.6	41.4	42.1	—	4.1	3.7	3.1	3.1	—
3533	Oil field machinery	43.5	43.2	43.9	43.6	—	5.3	5.2	4.2	4.3	—
3535	Conveyers and conveying equipment	42.6	42.5	41.5	42.9	—	4.4	4.6	3.4	4.2	—
3537	Industrial trucks and tractors	41.0	39.3	39.8	42.0	—	3.0	2.9	2.2	3.3	—
354	Metalworking machinery	44.0	43.4	43.6	43.8	—	5.5	5.4	5.7	5.8	—
3541	Machine tools, metal cutting types	45.2	43.5	43.8	43.6	—	6.4	5.5	5.9	5.9	—
3542	Machine tools, metal forming types	43.8	43.0	42.6	42.7	—	6.3	6.1	6.3	6.5	—
3544	Special dies, tools, jigs, and fixtures	44.9	45.2	44.5	44.8	—	6.5	6.6	6.4	6.4	—
3545	Machine tool accessories	43.1	42.0	43.2	43.2	—	4.3	4.2	5.3	5.4	—
3546	Power driven hand tools	40.0	38.7	40.6	41.3	—	2.8	2.5	3.2	4.0	—
355	Special industry machinery	42.0	40.7	41.2	41.6	—	3.8	3.5	3.5	3.8	—
3551	Food products machinery	41.8	41.3	41.2	41.2	—	3.3	3.1	3.1	3.3	—
3552	Textile machinery	41.7	39.9	40.7	41.4	—	3.3	2.6	2.8	3.1	—
3555	Printing trades machinery	43.0	40.0	41.5	41.3	—	4.2	3.5	3.7	3.6	—
356	General industrial machinery	41.4	40.6	41.3	41.7	—	3.9	3.7	4.0	4.2	—
3561	Pumps and pumping equipment	40.7	39.8	41.0	41.0	—	3.5	3.3	3.5	3.5	—
3562	Ball and roller bearings	41.5	41.0	42.4	42.0	—	4.4	4.4	4.8	4.7	—
3563	Air and gas compressors	42.5	41.6	41.1	42.3	—	4.4	3.6	3.2	4.0	—
3564	Blowers and fans	41.0	41.0	40.1	41.8	—	3.7	3.3	3.8	4.6	—
3566	Speed changers, drives, and gears	43.2	42.8	44.0	44.2	—	4.2	4.4	5.8	6.0	—
3568	Power transmission equipment, nec	41.3	40.2	41.0	41.5	—	3.9	3.9	3.9	4.3	—
357	Office and computing machines	42.0	41.2	40.6	41.9	—	3.2	2.7	2.6	2.9	—
3573	Electronic computing equipment	42.2	41.1	40.9	42.2	—	3.2	2.8	2.7	3.0	—
358	Refrigeration and service machinery	42.0	41.0	40.4	40.5	—	3.6	3.3	2.5	2.6	—
3585	Refrigeration and heating equipment	42.5	41.7	40.8	40.9	—	3.8	3.7	2.9	2.9	—
359	Misc. machinery, except electrical	42.7	41.7	41.9	42.0	—	4.8	4.6	4.6	4.4	—
3592	Carburetors, pistons, rings, valves	42.5	40.6	42.2	41.4	—	3.5	3.3	4.4	3.4	—
3599	Machinery, except electrical, nec	42.7	41.9	41.8	42.1	—	5.0	4.8	4.6	4.6	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	40.5	40.1	40.2	40.4	39.2	2.7	2.6	2.6	2.8	—
361	Electric distributing equipment	40.1	39.7	40.5	40.5	—	2.5	2.8	2.8	3.1	—
3612	Transformers	40.6	40.4	40.7	40.7	—	2.3	3.0	3.3	3.4	—
3613	Switchgear and switchboard apparatus	39.6	39.0	40.4	40.4	—	2.6	2.7	2.4	2.8	—
362	Electrical industrial apparatus	40.6	40.3	40.7	40.9	—	2.9	2.9	3.1	3.0	—
3621	Motors and generators	40.6	40.6	40.4	40.5	—	3.0	3.2	3.1	3.0	—
3622	Industrial controls	39.7	39.1	40.6	41.1	—	2.1	1.9	3.0	2.6	—
363	Household appliances	40.3	39.8	39.5	40.1	—	2.2	1.9	2.0	2.5	—
3632	Household refrigerators and freezers	40.9	40.1	39.5	41.0	—	1.8	1.9	1.9	3.0	—
3633	Household laundry equipment	39.1	40.3	39.7	39.7	—	1.3	2.2	1.3	.5	—
3634	Electric housewares and fans	40.7	40.2	39.1	39.9	—	2.7	2.1	1.9	2.7	—
364	Electric lighting and wiring equipment	41.0	39.8	40.1	39.9	—	2.9	2.6	2.7	2.6	—
3641	Electric lamps	41.2	40.2	40.4	39.4	—	2.3	1.7	2.1	1.6	—
3643	Current-carrying wiring devices	41.6	40.3	40.1	40.4	—	3.2	3.0	2.9	3.0	—
3644	Noncurrent-carrying wiring devices	42.2	40.6	39.8	39.7	—	3.7	2.9	2.4	2.3	—
3645	Residential lighting fixtures	37.9	36.7	38.5	38.4	—	1.4	1.0	1.8	1.8	—
365	Radio and TV receiving equipment	38.9	38.8	38.1	39.2	—	2.1	2.0	1.8	2.6	—
3651	Radio and TV receiving sets	38.7	38.7	37.8	39.0	—	1.5	1.5	1.6	2.5	—
366	Communication equipment	40.5	40.7	40.9	41.3	—	2.9	2.8	2.4	2.7	—
3661	Telephone and telegraph apparatus	39.7	39.1	40.8	41.4	—	3.1	2.5	2.9	3.2	—
3662	Radio and TV communication equipment	41.2	42.0	40.9	41.2	—	2.7	3.1	2.1	2.4	—
367	Electronic components and accessories	40.7	39.9	39.9	40.1	—	2.7	2.5	2.7	2.9	—
3671-3	Electronic tubes	42.5	41.5	41.3	41.5	—	2.7	2.1	1.9	2.2	—
3674	Semiconductors and related devices	41.9	40.8	41.4	41.2	—	3.0	2.8	3.6	3.7	—
3679	Electronic components, nec	40.2	39.7	39.5	39.7	—	2.7	2.5	2.6	2.7	—
369	Misc. electrical equipment and supplies	41.1	40.5	40.7	40.5	—	3.5	3.6	3.4	2.9	—
3691	Storage batteries	40.8	40.1	39.1	39.4	—	3.6	3.4	2.8	2.8	—
3694	Engine electrical equipment	41.2	41.0	41.3	40.8	—	4.1	4.4	4.0	3.2	—
37	TRANSPORTATION EQUIPMENT	42.5	42.1	41.5	41.4	41.1	5.0	4.9	4.9	4.3	—
371	Motor vehicles and equipment	43.8	43.5	42.0	41.6	—	6.2	6.0	5.7	4.7	—
3711	Motor vehicles and car bodies	44.0	43.2	42.4	41.8	—	6.4	5.9	7.0	5.6	—
3713	Truck and bus bodies	41.3	40.2	40.0	39.7	—	4.7	3.8	3.8	3.2	—
3714	Motor vehicle parts and accessories	44.1	44.3	42.0	41.8	—	6.4	6.6	5.0	4.2	—
3715	Truck trailers	40.3	39.9	38.7	39.2	—	3.3	3.0	2.6	2.4	—
372	Aircraft and parts	42.0	41.8	42.1	42.3	—	4.0	4.0	4.4	4.5	—
3721	Aircraft	41.9	41.9	42.0	42.2	—	3.2	3.2	4.0	4.0	—
3724	Aircraft engines and engine parts	41.6	41.6	41.7	41.9	—	4.6	5.0	4.7	4.9	—
3728	Aircraft equipment, nec	42.8	42.0	42.8	43.0	—	5.0	4.8	5.1	5.3	—
373	Ship and boat building and repairing	39.2	38.7	(*)	(*)	—	2.7	2.9	(*)	(*)	—
3731	Ship building and repairing	39.0	38.6	(*)	(*)	—	2.8	3.0	(*)	(*)	—
3732	Boat building and repairing	39.6	39.0	38.9	38.5	—	2.5	2.9	2.6	2.3	—
374	Railroad equipment	40.2	39.4	40.4	(*)	—	3.2	3.8	4.1	(*)	—

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				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
TRANSPORTATION EQUIPMENT—Continued											
378	Guided missiles, space vehicles, parts	\$311.75	\$309.50	\$335.27	\$338.19	-	\$7.37	\$7.44	\$8.04	\$8.11	-
3781	Guided missiles and space vehicles	313.92	304.36	330.08	332.93	-	7.51	7.59	8.15	8.16	-
379	Miscellaneous transportation equipment	220.65	218.34	247.78	249.60	-	5.53	5.57	6.59	6.50	-
3792	Travel trailers and campers	196.21	195.33	206.97	208.05	-	5.07	5.10	5.83	5.70	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	231.09	229.71	248.88	249.29	\$249.69	5.65	5.70	6.10	6.11	\$6.15
381	Measuring and controlling devices	251.69	247.85	263.16	267.07	-	5.95	6.06	6.45	6.42	-
382	Environmental controls	231.83	232.23	256.06	255.03	-	5.71	5.72	6.17	6.19	-
3822	Process control instruments	215.76	215.21	230.49	232.83	-	5.49	5.49	5.85	5.85	-
3823	Instruments to measure electricity	240.93	244.18	264.50	259.98	-	5.75	5.80	6.18	6.19	-
3825	Optical instruments and lenses	240.90	243.02	272.85	270.22	-	5.89	5.87	6.42	6.48	-
383	Medical instruments and supplies	259.89	274.07	290.59	296.26	-	5.92	6.05	6.53	6.54	-
384	Surgical and medical instruments	195.60	193.55	206.33	208.03	-	4.89	4.95	5.25	5.28	-
3841	Surgical appliances and supplies	193.59	188.81	203.52	207.36	-	4.78	4.78	5.05	5.12	-
3842	Ophthalmic goods	197.41	199.80	208.74	209.52	-	4.96	5.11	5.38	5.40	-
385	Photographic equipment and supplies	178.75	187.35	187.01	189.83	-	4.56	4.65	4.87	4.88	-
386	Watches, clocks, and watchcases	302.74	291.31	325.92	322.91	-	7.14	7.14	7.76	7.67	-
387		174.05	171.44	181.89	181.07	-	4.44	4.43	4.70	4.74	-
MISCELLANEOUS MANUFACTURING											
39	Jewelry, silverware, and plated ware	181.74	180.48	192.50	194.11	197.18	4.66	4.70	5.00	4.99	5.03
391	Jewelry, precious metal	180.57	176.43	195.70	201.50	-	4.69	4.73	5.15	5.18	-
3911	Musical instruments	173.88	169.52	187.36	194.06	-	4.60	4.67	5.05	5.08	-
393	Toys and sporting goods	178.75	178.20	190.03	196.31	-	4.48	4.50	4.86	4.92	-
394	Dolls, games, toys, and children's vehicles	166.32	164.54	174.80	175.72	-	4.32	4.33	4.60	4.60	-
3942, 4	Sporting and athletic goods, nec	158.15	156.15	169.72	170.17	-	4.14	4.12	4.49	4.49	-
3949	Pens, pencils, office and art supplies	173.44	171.45	178.78	180.10	-	4.47	4.50	4.68	4.69	-
395	Costume jewelry and notions	198.44	196.99	205.88	207.87	-	4.84	4.84	5.16	5.12	-
396	Costume jewelry	150.40	147.17	163.40	163.16	-	4.00	4.01	4.30	4.26	-
3961	Miscellaneous manufactures	139.48	137.62	151.25	148.30	-	3.78	3.76	4.11	4.03	-
399	Signs and advertising displays	207.23	205.80	217.06	218.90	-	5.22	5.25	5.58	5.57	-
3993		213.25	212.62	229.12	227.57	-	5.44	5.48	5.89	5.85	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	228.28	232.58	246.31	248.18	253.26	5.75	5.80	6.22	6.22	6.30
201	Meat packing plants	225.03	234.82	246.02	249.42	-	5.77	5.90	6.26	6.22	-
2011	Sausages and other prepared meats	277.38	291.58	310.49	317.94	-	6.90	7.06	7.61	7.57	-
2013	Poultry dressing plants	262.15	272.40	291.05	292.00	-	6.62	6.81	7.24	7.30	-
2016	Dairy products	139.48	144.77	152.66	157.38	-	3.78	3.83	4.06	4.12	-
202	Cheese, natural and processed	243.80	247.19	258.34	262.29	-	5.75	5.83	6.24	6.26	-
2022	Fluid milk	225.18	226.46	232.26	242.35	-	5.40	5.47	5.88	5.94	-
2026	Preserved fruits and vegetables	251.50	257.14	268.16	270.90	-	5.89	5.98	6.40	6.45	-
203	Canned specialties	188.00	191.88	210.30	205.29	-	5.00	5.01	5.42	5.36	-
2032	Frozen fruits and vegetables	225.94	225.10	247.86	248.88	-	5.72	5.67	6.09	6.13	-
2033	Flour and other grain mill products	184.40	189.75	312.30	199.66	-	5.08	5.06	5.50	5.47	-
2037	Prepared feeds, nec	174.66	186.38	194.54	191.95	-	4.67	4.97	5.04	4.96	-
204	Bread, cake, and related products	268.21	276.43	287.12	291.84	-	6.18	6.24	6.74	6.74	-
2041	Cookies and crackers	289.28	303.94	305.03	310.74	-	6.53	6.68	6.87	6.89	-
2048	Sugar and confectionery products	216.72	224.64	236.85	241.77	-	4.87	4.97	5.47	5.47	-
205	Cane and beet sugar	233.84	235.80	247.56	252.20	-	5.95	6.00	6.43	6.50	-
2051	Confectionery products	235.01	238.55	249.74	252.44	-	5.98	6.07	6.47	6.54	-
2052	Fats and oils	230.29	226.18	242.69	252.01	-	5.83	5.77	6.32	6.38	-
206	Beverages	221.09	224.19	234.30	238.76	-	5.64	5.69	6.07	6.06	-
2061-3	Malt beverages	273.64	278.26	283.58	286.63	-	6.79	6.82	7.29	7.22	-
2065	Bottled and canned soft drinks	189.09	197.18	204.06	210.84	-	4.95	5.03	5.37	5.42	-
207	Misc. foods and kindred products	262.98	270.57	282.08	287.71	-	6.13	6.22	6.56	6.66	-
208		282.22	283.04	291.93	299.36	-	6.85	6.87	7.28	7.41	-
2082		395.51	399.83	407.13	424.15	-	9.35	9.43	9.93	10.27	-
2086		216.00	217.36	216.37	221.80	-	5.23	5.20	5.45	5.49	-
209		188.74	188.25	209.12	206.22	-	4.98	5.02	5.46	5.47	-
TOBACCO MANUFACTURES											
21	Cigarettes	268.37	238.20	269.58	275.16	256.32	6.61	6.58	6.93	7.11	7.20
211		314.25	270.03	208.51	312.76	-	7.50	7.48	7.85	8.04	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	171.78	173.23	181.25	184.73	186.40	4.20	4.32	4.52	4.55	4.66
221	Weaving mills, synthetics	174.62	181.35	192.82	192.82	-	4.28	4.50	4.68	4.68	-
222	Weaving and finishing mills, wool	183.52	191.86	196.24	194.94	-	4.38	4.59	4.74	4.72	-
223	Narrow fabric mills	181.36	176.55	187.33	193.93	-	4.37	4.37	4.66	4.73	-
224	Knitting mills	160.37	158.80	169.70	170.49	-	3.95	4.00	4.19	4.22	-
225		155.63	152.05	161.03	166.45	-	3.95	3.97	4.26	4.29	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	42.3	41.6	41.7	41.7	—	3.7	3.9	4.2	4.3	—
3761	Guided missiles and space vehicles	41.8	40.1	40.5	40.8	—	3.0	2.8	3.1	3.4	—
379	Miscellaneous transportation equipment	39.9	39.2	37.6	38.4	—	2.6	2.3	1.2	1.3	—
3792	Travel trailers and campers	38.7	38.3	35.5	36.5	—	2.7	2.4	.7	1.1	—
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	40.9	40.3	40.8	40.8	40.6	2.4	2.1	2.3	2.5	—
381	Measuring and controlling devices	42.3	40.9	40.8	41.6	—	3.1	2.9	2.8	2.9	—
382	Environmental controls	40.6	40.6	41.5	41.2	—	2.1	1.9	2.4	2.6	—
3822	Process control instruments	39.3	39.2	39.4	39.8	—	1.6	1.5	1.3	1.6	—
3823	Instruments to measure electricity	41.9	42.1	42.8	42.0	—	2.4	2.6	3.2	3.1	—
3825	Optical instruments and lenses	40.9	41.4	42.5	41.7	—	2.0	1.5	2.0	2.3	—
383	Medical instruments and supplies	43.9	45.3	44.5	45.3	—	3.6	3.4	3.9	4.1	—
384	Surgical and medical instruments	40.0	39.1	39.3	39.4	—	2.0	2.0	1.8	2.0	—
3841	Surgical appliances and supplies	40.5	39.5	40.3	40.5	—	2.1	2.1	2.3	2.5	—
3842	Ophthalmic goods	39.8	39.1	38.8	38.8	—	2.0	2.0	1.6	1.8	—
385	Photographic equipment and supplies	39.2	39.0	38.4	38.9	—	1.7	1.4	1.6	1.8	—
386	Watches, clocks, and watchcases	42.4	40.8	42.0	42.1	—	3.4	2.8	2.9	2.7	—
387		39.2	38.7	38.7	38.2	—	1.9	1.4	1.4	1.3	—
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	39.0	38.4	38.5	38.9	39.2	2.3	1.9	2.0	2.1	—
391	Jewelry, precious metal	38.5	37.3	38.0	38.9	—	2.7	1.5	2.0	2.1	—
3911	Musical instruments	37.8	36.3	37.1	38.2	—	2.7	1.3	1.9	2.0	—
393	Toys and sporting goods	39.9	39.6	39.1	39.9	—	2.1	1.3	1.3	1.7	—
394	Dolls, games, toys, and children's vehicles	38.5	38.0	38.0	38.2	—	1.6	1.4	1.6	1.6	—
3942, 4	Sporting and athletic goods, nec	38.2	39.9	37.8	37.9	—	1.5	1.2	1.6	1.6	—
3949	Pens, pencils, office and art supplies	38.8	38.1	38.2	38.4	—	1.7	1.6	1.7	1.6	—
395	Costume jewelry and notions	41.0	40.7	39.9	40.6	—	2.7	2.5	2.6	2.8	—
396	Costume jewelry	37.6	36.7	38.0	38.3	—	2.5	1.8	2.0	1.8	—
3961	Miscellaneous manufactures	36.9	36.6	36.8	36.8	—	2.4	1.5	1.7	1.3	—
399	Signs and advertising displays	39.7	39.2	38.9	39.3	—	2.6	2.4	2.3	2.5	—
3993		39.2	38.8	38.9	38.9	—	2.2	2.3	2.4	2.3	—
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	39.7	40.1	39.6	39.9	40.2	3.9	4.2	3.7	3.8	—
201	Meat packing plants	39.0	39.8	39.3	40.1	—	3.4	4.0	4.0	4.1	—
2011	Sausages and other prepared meats	40.2	41.3	40.8	42.0	—	3.8	4.9	4.7	5.0	—
2013	Poultry dressing plants	39.6	40.0	40.2	40.0	—	3.2	3.8	4.1	3.5	—
2016	Dairy products	36.9	37.8	37.6	38.2	—	3.0	3.1	3.4	3.5	—
202	Cheese, natural and processed	42.4	42.4	41.4	41.9	—	4.6	4.6	4.0	4.3	—
2022	Fluid milk	41.7	41.4	39.5	40.8	—	4.5	4.1	3.3	4.1	—
2026	Preserved fruits and vegetables	42.7	43.0	41.9	42.0	—	4.5	4.7	4.1	4.4	—
203	Canned specialties	37.6	38.3	38.8	38.3	—	2.9	3.9	2.7	2.9	—
2032	Canned fruits and vegetables	39.5	39.7	40.7	40.6	—	2.9	3.2	3.7	3.5	—
2033	Frozen fruits and vegetables	36.3	37.5	38.6	36.5	—	3.0	4.4	2.5	2.5	—
2037	Grain mill products	37.4	37.5	38.6	38.7	—	3.4	3.2	2.8	2.9	—
204	Flour and other grain mill products	43.4	44.3	42.6	43.3	—	5.7	6.5	5.3	5.7	—
2041	Prepared feeds, nec	44.3	45.5	44.4	45.1	—	5.8	6.6	6.3	6.7	—
2048	Bakery products	44.5	45.2	43.3	44.2	—	6.7	7.3	5.7	6.3	—
205	Bread, cake, and related products	39.3	39.3	38.5	38.8	—	3.6	3.5	3.4	3.4	—
2051	Cookies and crackers	39.3	39.3	38.6	38.6	—	4.0	4.0	3.9	3.8	—
2052	Sugar and confectionery products	39.5	39.2	38.4	39.5	—	2.2	1.9	1.8	2.1	—
206	Cane and beet sugar	39.2	39.4	38.6	39.4	—	2.5	2.5	2.3	2.3	—
2061-3	Confectionery products	40.3	40.8	38.9	39.7	—	3.4	3.9	2.9	2.8	—
2065	Fats and oils	38.2	39.2	38.0	38.9	—	1.8	1.8	2.0	2.0	—
207	Beverages	42.9	43.5	43.0	43.2	—	5.4	6.0	5.3	5.6	—
208	Malt beverages	41.2	41.2	40.1	40.4	—	4.8	5.0	3.7	3.9	—
2082	Bottled and canned soft drinks	42.3	42.4	41.0	41.3	—	5.8	6.0	4.7	4.9	—
2086	Misc. foods and kindred products	41.3	41.8	39.7	40.4	—	5.0	5.5	3.7	3.9	—
209		37.9	37.5	38.3	37.7	—	3.8	3.7	3.3	3.3	—
TOBACCO MANUFACTURES											
21	Cigarettes	40.6	36.2	38.9	38.7	35.6	2.9	2.0	.9	.8	—
211		41.9	36.1	39.3	38.9	—	3.5	2.3	.7	.7	—
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	40.9	40.1	40.1	40.6	40.0	3.8	3.4	3.3	3.6	—
221	Weaving mills, synthetics	40.8	40.3	41.2	41.2	—	3.8	3.6	4.0	4.1	—
222	Weaving and finishing mills, wool	41.9	41.8	41.4	41.3	—	3.8	3.9	3.9	3.7	—
223	Narrow fabric mills	41.5	40.4	40.2	41.0	—	4.0	3.4	3.4	4.0	—
224	Knitting mills	40.6	39.7	40.5	40.4	—	3.2	2.4	2.7	2.9	—
225		39.4	38.3	57.8	38.8	—	3.2	2.8	2.4	2.8	—

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				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$142.01	\$146.22	\$154.54	\$161.05	-	\$3.66	\$ 3.73	\$ 4.11	\$ 4.14	-
2252	Hosiery, nec	142.08	139.13	146.77	151.93	-	3.70	3.72	4.01	4.03	-
2253	Knit outerwear mills	149.72	147.31	155.08	157.96	-	3.94	3.96	4.18	4.19	-
2254	Knit underwear mills	145.88	138.38	145.48	148.60	-	3.75	3.71	4.03	4.06	-
2257	Circular knit fabric mills	182.65	172.09	186.52	192.38	-	4.38	4.39	4.71	4.75	-
226	Textile finishing, except wool	190.71	189.57	193.66	202.86	-	4.53	4.59	4.77	4.83	-
2261	Finishing plants, cotton	189.32	191.63	193.12	203.20	-	4.54	4.64	4.84	4.92	-
2262	Finishing plants, synthetics	204.68	198.37	208.32	215.86	-	4.76	4.78	4.96	5.02	-
227	Floor covering mills	183.52	182.86	190.76	200.03	-	4.38	4.46	4.63	4.74	-
228	Yarn and thread mills	163.14	163.62	168.82	172.99	-	3.95	4.06	4.21	4.24	-
2281	Yarn mills, except wool	163.49	164.84	169.68	173.86	-	3.93	4.07	4.20	4.22	-
2282	Throwing and winding mills	154.66	153.98	162.37	161.56	-	3.80	3.84	4.09	4.09	-
229	Miscellaneous textile goods	194.42	191.02	204.85	205.59	-	4.64	4.74	4.96	4.99	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	141.90	140.73	147.07	149.52	\$149.46	3.92	3.92	4.19	4.20	\$4.21
231	Men's and boys' suits and coats	170.64	177.18	178.27	179.42	-	4.74	4.75	5.05	5.04	-
232	Men's and boys' furnishings	129.59	216.38	137.42	140.89	-	3.57	3.54	3.86	3.86	-
2321	Men's and boys' shirts and nightwear	127.57	125.20	133.53	136.90	-	3.42	3.43	3.73	3.72	-
2327	Men's and boys' separate trousers	131.03	128.78	137.16	141.12	-	3.66	3.69	3.93	3.92	-
2328	Men's and boys' work clothing	125.31	124.60	140.60	142.87	-	3.52	3.50	3.80	3.82	-
233	Women's and misses' outerwear	135.24	135.24	136.37	139.19	-	3.92	3.92	4.12	4.18	-
2331	Women's and misses' blouses and waists	132.10	124.94	134.41	137.81	-	3.69	3.58	3.93	3.96	-
2336	Women's and misses' dresses	132.73	135.34	131.25	131.98	-	4.01	4.04	4.18	4.23	-
2337	Women's and misses' suits and coats	147.40	148.25	148.41	156.98	-	4.26	4.26	4.43	4.59	-
2339	Women's and misses' outerwear, nec	133.48	132.35	137.20	139.84	-	3.76	3.76	4.00	4.03	-
234	Women's and children's undergarments	130.64	126.02	134.46	137.11	-	3.55	3.56	3.82	3.83	-
2341	Women's and children's underwear	125.96	123.90	131.25	135.36	-	3.47	3.50	3.75	3.76	-
2342	Brassieres and allied garments	150.16	135.99	147.65	145.67	-	3.88	3.82	4.09	4.15	-
236	Children's outerwear	133.46	130.26	136.82	140.59	-	3.54	3.53	3.79	3.81	-
2361	Children's dresses and blouses	132.08	130.30	133.92	140.24	-	3.56	3.56	3.72	3.78	-
238	Misc. apparel and accessories	141.38	140.25	149.33	150.88	-	3.76	3.76	4.08	4.10	-
239	Misc. fabricated textile products	173.95	173.12	185.22	185.27	-	4.53	4.52	4.90	4.85	-
2391	Curtains and draperies	130.03	124.83	138.01	145.52	-	3.44	3.42	3.73	3.77	-
2392	House furnishing, nec	145.92	150.51	157.44	159.08	-	3.81	3.94	4.10	4.10	-
2396	Automotive and apparel trimmings	289.45	292.13	315.20	304.07	-	7.46	7.34	7.88	7.96	-
26	PAPER AND ALLIED PRODUCTS	281.23	284.43	295.53	301.74	305.16	6.51	6.63	6.97	7.05	7.13
261, 26	Paper and pulp mills	332.57	344.74	361.25	369.74	-	7.44	7.56	8.01	8.18	-
262	Paper mills, except building paper	334.06	345.79	363.20	370.46	-	7.44	7.55	8.00	8.16	-
263	Paperboard mills	344.25	348.10	355.78	352.90	-	7.65	7.77	8.16	8.15	-
264	Misc. converted paper products	241.03	237.28	253.79	259.79	-	5.78	5.83	6.19	6.26	-
2641	Paper coating and glazing	295.68	283.57	306.75	317.05	-	6.60	6.61	6.94	7.03	-
2642	Envelopes	215.06	217.46	231.64	237.22	-	5.31	5.45	5.82	5.80	-
2643	Bags, except textile bags	230.46	232.40	240.02	243.49	-	5.54	5.60	5.84	5.91	-
265	Paperboard containers and boxes	249.64	248.12	254.81	263.34	-	5.86	5.95	6.23	6.30	-
2651	Folding paperboard boxes	265.61	267.22	260.53	269.34	-	6.12	6.20	6.37	6.49	-
2653	Corrugated and solid fiber boxes	259.97	258.74	268.38	277.80	-	6.06	6.19	6.53	6.63	-
2654	Sanitary food containers	232.81	227.42	237.63	252.01	-	5.53	5.52	5.81	5.82	-
27	PRINTING AND PUBLISHING	240.75	242.63	253.33	256.56	257.74	6.42	6.47	6.81	6.86	6.91
271	Newspapers	236.32	235.28	251.42	250.43	-	6.91	6.92	7.33	7.28	-
272	Periodicals	220.80	223.88	228.90	232.36	-	5.75	5.80	6.22	6.28	-
273	Books	217.67	226.12	234.60	237.23	-	5.61	5.71	6.00	6.13	-
2731	Book publishing	209.97	223.58	223.74	225.62	-	5.37	5.44	5.65	5.80	-
2732	Book printing	225.61	228.38	246.40	249.22	-	5.86	6.01	6.40	6.49	-
274	Miscellaneous publishing	206.79	205.98	212.42	221.40	-	5.65	5.69	5.95	6.15	-
275	Commercial printing	254.49	256.90	267.02	272.26	-	6.61	6.69	6.99	7.09	-
2751	Commercial printing, letterpress	241.15	240.79	247.49	252.32	-	6.28	6.32	6.53	6.64	-
2752	Commercial printing, lithographic	263.25	266.04	278.78	284.45	-	6.82	6.91	7.26	7.35	-
276	Manifold business forms	251.93	252.34	267.40	273.57	-	6.10	6.11	6.57	6.64	-
278	Blankbooks and bookbinding	193.36	189.91	202.79	202.67	-	4.92	4.92	5.24	5.21	-
279	Printing trade services	316.30	321.92	329.82	330.99	-	8.28	8.34	8.89	8.85	-
28	CHEMICALS AND ALLIED PRODUCTS	292.32	293.99	311.83	313.92	315.74	6.96	7.05	7.46	7.51	7.59
281	Industrial inorganic chemicals	317.01	326.06	335.71	341.13	-	7.53	7.69	8.07	8.22	-
2819	Industrial inorganic chemicals, nec	310.84	319.90	334.51	340.72	-	7.49	7.69	8.08	8.23	-
282	Plastics materials and synthetics	292.07	292.29	307.33	310.91	-	6.84	6.91	7.30	7.35	-
2821	Plastics materials and resins	327.06	325.18	341.54	346.52	-	7.45	7.58	7.98	8.04	-
2824	Organic fibers, noncellulosic	267.30	269.00	288.15	288.56	-	6.41	6.42	6.91	6.92	-
283	Drugs	262.89	261.35	273.36	275.81	-	6.35	6.39	6.80	6.81	-
2834	Pharmaceutical preparations	256.41	253.43	256.07	266.53	-	6.30	6.32	6.66	6.68	-

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				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	38.8	39.2	37.6	38.9	-	2.7	3.1	2.7	3.7	-
2252	Hosiery, nec	38.4	37.4	36.6	37.7	-	2.4	2.1	1.7	2.2	-
2253	Knit outerwear mills	38.0	37.2	37.1	37.7	-	2.5	2.2	1.8	2.0	-
2254	Knit underwear mills	38.9	37.3	36.1	36.6	-	2.5	1.7	1.1	1.1	-
2257	Circular knit fabric mills	41.7	39.2	39.6	40.5	-	5.3	4.4	4.2	4.7	-
226	Textile finishing, except wool	42.1	41.3	40.6	42.0	-	4.5	3.3	3.2	4.1	-
2261	Finishing plants, cotton	41.7	41.3	39.9	41.3	-	4.3	3.8	2.7	3.8	-
2262	Finishing plants, synthetics	43.0	41.5	42.0	43.0	-	5.4	3.2	4.1	5.0	-
227	Floor covering mills	41.9	41.0	41.2	42.2	-	4.9	4.1	4.2	4.8	-
228	Yarn and thread mills	41.3	40.3	40.1	40.8	-	3.9	3.7	3.4	3.7	-
2281	Yarn mills, except wool	41.6	40.5	40.4	41.2	-	4.1	3.9	3.7	4.0	-
2282	Throwing and winding mills	40.7	40.1	39.7	39.5	-	3.9	2.9	3.4	3.2	-
229	Miscellaneous textile goods	41.9	40.3	41.3	41.2	-	3.9	3.4	3.5	3.3	-
APPAREL AND OTHER TEXTILE PRODUCTS											
23	Men's and boys' suits and coats	36.2	35.9	35.1	35.6	35.5	1.4	1.1	1.0	1.1	-
231	Men's and boys' suits and coats	36.0	37.3	35.3	35.6	-	.9	.7	.6	.5	-
232	Men's and boys' furnishings	36.3	35.7	35.6	36.5	-	1.0	.7	.8	1.2	-
2321	Men's and boys' shirts and nightwear	37.3	36.5	35.8	36.8	-	1.1	.7	.8	1.2	-
2327	Men's and boys' separate trousers	35.8	34.9	34.9	36.0	-	1.0	.7	.6	1.0	-
2328	Men's and boys' work clothing	35.6	35.6	37.0	37.4	-	.8	.6	1.1	1.5	-
233	Women's and misses' outerwear	34.5	34.5	33.1	33.2	-	1.4	1.2	.8	.9	-
2331	Women's and misses' blouses and waists	35.8	34.9	34.2	34.8	-	1.5	.8	.9	1.0	-
2335	Women's and misses' dresses	33.1	33.5	31.4	31.2	-	1.3	1.4	.8	.7	-
2337	Women's and misses' suits and coats	34.6	34.8	33.5	34.2	-	1.4	1.4	.8	.9	-
2339	Women's and misses' outerwear, nec	35.5	35.2	34.3	34.7	-	1.5	1.2	.9	1.0	-
234	Women's and children's undergarments	36.8	35.4	35.2	35.8	-	1.2	.9	.7	1.2	-
2341	Women's and children's underwear	36.3	35.4	35.0	36.0	-	1.1	1.0	.7	1.2	-
2342	Brassieres and allied garments	38.7	35.6	35.1	35.1	-	1.6	.5	.8	.9	-
236	Children's outerwear	37.7	36.9	36.1	36.9	-	2.0	1.5	1.1	1.3	-
2361	Children's dresses and blouses	37.1	36.6	36.0	37.1	-	2.5	2.2	1.2	1.5	-
238	Misc. apparel and accessories	37.6	37.3	36.6	36.8	-	1.6	1.0	1.2	1.2	-
239	Misc. fabricated textile products	38.4	38.3	37.8	38.2	-	2.1	2.0	1.9	2.0	-
2391	Curtains and draperies	37.8	36.5	37.0	38.6	-	1.6	1.2	1.0	2.3	-
2392	House furnishings, nec	38.3	38.2	38.4	38.8	-	1.7	1.3	1.9	2.0	-
2396	Automotive and apparel trimmings	38.8	39.8	40.0	38.2	-	3.3	3.6	3.6	2.5	-
PAPER AND ALLIED PRODUCTS											
26	Paper and pulp mills	43.2	42.9	42.4	42.8	42.8	5.0	5.2	4.5	4.8	-
261, 2, 6	Paper and pulp mills	44.7	45.6	45.1	45.2	-	6.2	7.0	6.4	6.6	-
262	Paper mills, except building paper	44.9	45.8	45.4	45.4	-	6.3	7.1	6.5	6.7	-
263	Paperboard mills	45.0	44.8	43.6	43.3	-	7.5	7.7	7.2	7.0	-
264	Misc. converted paper products	41.7	40.7	41.0	41.5	-	3.8	3.6	3.2	3.6	-
2641	Paper coating and glazing	44.8	42.9	44.2	45.1	-	5.6	5.0	4.9	5.3	-
2642	Envelopes	40.5	39.9	39.8	40.9	-	3.0	2.9	2.7	2.8	-
2643	Bags, except textile bags	41.6	41.5	41.1	41.2	-	3.6	3.6	3.1	3.3	-
265	Paperboard containers and boxes	42.6	41.7	40.9	41.8	-	4.3	4.1	3.2	3.7	-
2651	Folding paperboard boxes	43.4	43.1	40.9	41.5	-	4.9	5.2	2.9	3.4	-
2653	Corrugated and solid fiber boxes	42.9	41.8	41.1	41.9	-	4.7	4.4	3.6	4.1	-
2654	Sanitary food containers	42.1	41.2	40.9	43.3	-	3.5	3.9	3.1	3.4	-
PRINTING AND PUBLISHING											
27	Newspapers	37.5	37.5	37.2	37.4	37.3	2.8	2.9	2.6	2.6	-
271	Newspapers	34.2	34.0	34.3	34.4	-	1.9	2.1	2.1	2.0	-
272	Periodicals	38.4	38.6	36.8	37.0	-	2.4	2.5	1.8	1.5	-
273	Books	38.8	39.6	39.1	38.7	-	3.2	3.7	3.7	3.0	-
2731	Book publishing	39.1	41.1	39.6	38.9	-	2.3	3.4	2.7	1.6	-
2732	Book printing	38.5	38.0	38.5	38.4	-	4.0	4.0	4.8	4.6	-
274	Miscellaneous publishing	36.6	36.2	35.7	36.0	-	2.0	1.9	2.0	2.0	-
275	Commercial printing	38.5	38.4	38.2	38.4	-	3.2	3.3	2.9	3.0	-
2751	Commercial printing, letterpress	38.4	38.1	37.9	38.0	-	3.1	3.0	2.5	2.5	-
2752	Commercial printing, lithographic	38.6	38.5	38.4	38.7	-	3.2	3.4	3.1	3.4	-
276	Manifold business forms	41.3	41.3	40.7	41.2	-	4.0	3.9	2.7	3.2	-
278	Blankbooks and bookbinding	39.3	38.6	38.7	38.9	-	2.2	2.3	1.8	1.9	-
279	Printing trade service	38.2	38.6	37.1	37.4	-	2.9	3.2	2.7	2.8	-
CHEMICALS AND ALLIED PRODUCTS											
28	Industrial inorganic chemicals	42.0	41.6	41.8	41.8	41.6	3.4	3.5	3.4	3.4	-
281	Industrial inorganic chemicals	42.1	42.4	41.6	41.5	-	3.8	4.1	3.6	3.7	-
2819	Industrial inorganic chemicals, nec	41.5	41.6	41.4	41.4	-	3.4	3.6	3.1	3.2	-
282	Plastics materials and synthetics	42.7	42.3	42.1	42.3	-	3.4	3.5	3.4	3.4	-
2821	Plastics materials and resins	43.9	42.9	42.8	43.1	-	4.5	4.6	4.4	4.5	-
2824	Organic fibers, noncellulosic	41.7	41.9	41.7	41.7	-	2.5	2.6	2.7	2.6	-
283	Drugs	41.4	40.9	40.2	40.5	-	2.7	2.6	2.3	2.5	-
2834	Pharmaceutical preparations	40.7	40.1	39.8	39.9	-	2.7	2.5	2.1	2.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$269.87	\$266.67	\$286.94	\$287.65	-	\$6.68	\$6.65	\$7.12	\$7.12	-
2841	Soap and other detergents	368.93	372.82	398.74	410.34	-	8.54	8.65	9.23	9.39	-
2842, 3	Polishing, sanitation, and finishing preparations	240.19	237.79	256.71	251.70	-	5.96	5.93	6.45	6.34	-
2844	Toilet preparations	215.60	209.00	220.99	218.11	-	5.60	5.50	5.74	5.68	-
285	Paints and allied products	261.25	261.02	283.50	284.34	-	6.28	6.32	6.75	6.77	-
286	Industrial organic chemicals	347.68	349.85	391.13	391.55	-	8.20	8.31	8.93	8.96	-
2865	Cyclic crudes and intermediates	320.14	306.68	352.30	356.79	-	7.48	7.48	8.27	8.24	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	357.44	365.08	406.23	403.84	-	8.45	8.59	9.17	9.22	-
287	Agricultural chemicals	284.26	287.64	302.29	302.74	-	6.58	6.80	7.03	7.09	-
289	Miscellaneous chemical products	269.34	269.21	288.84	288.56	-	6.49	6.55	6.91	6.97	-
29	PETROLEUM AND COAL PRODUCTS	371.47	380.95	409.03	403.03	\$422.17	8.52	8.58	9.36	9.30	\$9.34
291	Petroleum refining	396.76	405.48	440.08	433.01	-	9.27	9.30	10.14	10.07	-
295	Paving and roofing materials	309.45	324.09	328.43	328.24	-	6.57	6.71	7.25	7.23	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	224.82	223.71	237.55	239.72	236.41	5.47	5.51	5.88	5.89	5.94
301	Tires and inner tubes	335.66	336.69	346.52	347.33	-	7.77	7.83	8.37	8.41	-
302	Rubber and plastics footwear	144.78	136.89	153.44	154.66	-	3.79	3.73	4.07	4.07	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	232.11	230.36	246.82	260.47	-	5.62	5.66	6.02	6.10	-
306	Fabricated rubber products, nec	211.01	210.27	224.47	227.45	-	5.21	5.27	5.57	5.63	-
307	Miscellaneous plastics products	204.50	203.21	218.02	222.63	-	5.00	5.03	5.41	5.47	-
31	LEATHER AND LEATHER PRODUCTS	148.60	145.88	152.52	155.45	156.40	3.89	3.89	4.19	4.19	4.25
311	Leather tanning and finishing	203.20	202.52	208.79	217.06	-	5.08	5.14	5.48	5.58	-
314	Footwear, except rubber	142.87	139.50	147.02	150.22	-	3.74	3.73	4.05	4.06	-
3143	Men's footwear, except athletic	150.15	144.35	158.67	159.89	-	3.89	3.87	4.22	4.23	-
3144	Women's footwear, except athletic	136.86	136.84	136.54	141.93	-	3.64	3.62	3.89	3.91	-
316	Luggage	154.71	156.29	156.56	156.24	-	4.17	4.19	4.41	4.34	-
317	Handbags and personal leather goods	140.99	138.76	147.02	151.90	-	3.72	3.72	4.05	4.04	-
-	TRANSPORTATION AND PUBLIC UTILITIES	301.04	301.20	314.82	319.20	321.59	7.47	7.53	7.93	7.98	8.06
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	342.85	326.34	368.51	(*)	-	7.67	7.77	8.59	(*)	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	192.08	216.75	204.86	208.27	-	5.60	5.89	5.82	5.90	-
411	Local and suburban transportation	273.08	283.39	287.04	290.37	-	6.81	6.98	6.95	6.98	-
413	Intercity highway transportation	298.83	323.11	323.47	335.92	-	7.99	8.18	8.58	8.68	-
42	TRUCKING AND WAREHOUSING	316.65	316.31	326.76	333.63	-	7.78	7.81	8.21	8.32	-
421, 3	Trucking and trucking terminals	323.54	323.18	333.17	341.34	-	7.93	7.96	8.35	8.47	-
422	Public warehousing	214.27	216.28	222.64	226.18	-	5.48	5.56	5.89	5.89	-
46	PIPE LINES, EXCEPT NATURAL GAS	361.15	362.25	393.46	386.34	-	8.64	8.75	9.55	9.40	-
48	COMMUNICATION	284.49	286.00	296.29	300.45	-	7.13	7.15	7.52	7.53	-
481	Telephone communication	294.11	294.52	305.29	309.10	-	7.28	7.29	7.69	7.67	-
4817	Switchboard operating employees ³	212.96	217.20	213.14	229.48	-	6.05	6.05	6.42	6.27	-
4818	Line construction employees ⁴	401.34	395.14	412.88	414.43	-	8.34	8.82	9.32	9.23	-
483	Radio and television broadcasting	245.86	249.45	255.83	260.91	-	6.47	6.53	6.75	6.83	-
49	ELECTRIC, GAS, AND SANITARY SERVICES ..	318.61	318.24	334.93	334.93	-	7.55	7.65	8.09	8.09	-
491	Electric services	329.72	325.43	342.36	344.42	-	7.65	7.73	8.21	8.22	-
492	Gas production and distribution	283.10	286.34	307.09	304.62	-	6.99	7.07	7.62	7.54	-
493	Combination utility services	348.19	352.78	367.84	367.74	-	8.31	8.46	8.80	8.84	-
495	Sanitary services	256.63	264.97	273.19	278.46	-	6.71	6.22	6.52	6.63	-
-	WHOLESALE AND RETAIL TRADE	153.38	157.04	162.00	165.66	168.34	4.52	4.66	5.00	5.02	5.04
50, 51	WHOLESALE TRADE	226.59	230.49	245.07	247.26	249.85	5.81	5.91	6.30	6.34	6.39
50	WHOLESALE TRADE-DURABLE GOODS	230.87	234.04	247.59	250.04	-	5.83	5.91	6.30	6.33	-
501	Motor vehicles and automotive equipment	211.38	215.44	229.10	231.47	-	5.42	5.51	5.92	5.92	-
502	Furniture and home furnishings	197.17	202.69	221.78	222.81	-	5.23	5.32	5.93	5.91	-
503	Lumber and construction materials	232.58	235.82	251.54	254.87	-	5.80	5.94	6.32	6.42	-
504	Sporting goods, toys, and hobby goods	224.75	225.22	241.23	241.92	-	5.93	5.99	6.45	6.40	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	June 1979 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.4	40.1	40.3	40.4	—	2.9	2.8	3.0	2.9	—
2841	Soap and other detergents	43.2	43.1	43.2	43.7	—	4.7	4.8	4.6	5.2	—
2842, 3	Polishing, sanitation, and finishing preparations	40.3	40.1	39.8	39.7	—	2.7	2.5	2.6	2.2	—
2844	Toilet preparations	38.5	38.0	38.5	38.4	—	1.6	1.6	2.0	1.5	—
285	Paints and allied products	41.6	41.3	42.0	42.0	—	3.5	3.6	3.5	3.7	—
286	Industrial organic chemicals	42.4	42.1	43.8	43.7	—	3.7	4.0	4.2	4.4	—
2865	Cyclic crudes and intermediates	42.8	41.0	42.6	43.3	—	4.0	3.4	4.1	4.5	—
2861, 9	Gum, wood, and industrial organic chemicals, nec	42.3	42.5	44.3	43.8	—	3.6	4.2	4.3	4.3	—
287	Agricultural chemicals	43.2	42.3	43.0	42.7	—	4.6	4.5	5.0	4.3	—
289	Miscellaneous chemical products	41.5	41.1	41.8	41.4	—	3.4	3.5	3.2	3.1	—
	PETROLEUM AND COAL PRODUCTS										
29	Petroleum refining	43.6	44.4	43.7	43.4	45.2	4.3	4.5	4.5	4.1	—
291	Paving and roofing materials	42.8	43.6	43.4	43.0	—	3.3	3.4	3.8	3.3	—
295	Paving and roofing materials	47.1	48.3	45.3	45.4	—	8.5	9.0	7.4	7.3	—
	RUBBER AND MISC. PLASTICS PRODUCTS										
30	Tires and inner tubes	41.1	40.6	40.4	40.7	39.8	3.7	3.5	3.4	3.4	—
301	Rubber and plastics footwear	43.2	43.0	41.4	41.3	—	5.2	5.0	4.3	3.7	—
302	Reclaimed rubber, and rubber and plastics hose and belting	38.2	36.7	37.7	38.0	—	2.5	1.5	2.0	2.0	—
303, 4	Fabricated rubber products, nec	41.3	40.7	41.0	42.7	—	3.8	4.4	4.3	5.3	—
306	Miscellaneous plastics products	40.5	39.9	40.3	40.4	—	3.1	3.0	3.0	3.0	—
307	Miscellaneous plastics products	40.9	40.4	40.3	40.7	—	3.5	3.3	3.2	3.4	—
	LEATHER AND LEATHER PRODUCTS										
31	Leather tanning and finishing	38.2	37.5	36.4	37.1	36.8	2.2	1.6	1.4	1.6	—
311	Footwear, except rubber	40.0	39.4	38.1	38.9	—	3.3	2.7	2.2	2.2	—
314	Men's footwear, except athletic	38.2	37.4	36.3	37.0	—	2.2	1.4	1.3	1.6	—
3143	Women's footwear, except athletic	38.6	37.3	37.6	37.8	—	2.1	1.4	1.2	1.5	—
3144	Luggage	37.6	37.8	35.1	36.3	—	2.2	1.8	1.5	1.9	—
316	Handbags and personal leather goods	37.1	37.3	35.5	36.0	—	1.9	1.9	2.0	1.8	—
317	Handbags and personal leather goods	37.9	37.3	36.3	37.6	—	2.1	1.8	1.5	1.8	—
	TRANSPORTATION AND PUBLIC UTILITIES										
—	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	40.3	40.0	39.7	40.0	39.9	—	—	—	—	—
	LOCAL AND INTERURBAN PASSENGER TRANSIT										
41	Local and suburban transportation	44.7	42.0	42.9	(*)	—	—	—	—	—	—
411	Intercity highway transportation	34.3	36.8	35.2	35.3	—	—	—	—	—	—
413	Trucking and trucking terminals	40.1	40.6	41.3	41.6	—	—	—	—	—	—
413	Public warehousing	37.4	39.5	37.7	38.7	—	—	—	—	—	—
	TRUCKING AND WAREHOUSING										
42	Trucking and trucking terminals	40.7	40.5	39.8	40.1	—	—	—	—	—	—
421, 3	Public warehousing	40.8	40.6	39.9	40.3	—	—	—	—	—	—
422	Public warehousing	39.1	38.9	37.8	38.4	—	—	—	—	—	—
	PIPE LINES, EXCEPT NATURAL GAS										
46	Telephone communication	41.8	41.4	41.2	41.1	—	—	—	—	—	—
	COMMUNICATION										
46	Telephone communication	39.9	40.0	39.4	39.9	—	—	—	—	—	—
481	Switchboard operating employees ³	40.4	40.4	39.7	40.3	—	—	—	—	—	—
4817	Line construction employees ⁴	35.2	35.9	33.2	36.6	—	—	—	—	—	—
4818	Radio and television broadcasting	45.4	44.8	44.3	44.9	—	—	—	—	—	—
483	Radio and television broadcasting	38.0	38.2	37.9	38.2	—	—	—	—	—	—
	ELECTRIC, GAS, AND SANITARY SERVICES										
49	Electric services	42.2	41.6	41.4	41.4	—	—	—	—	—	—
491	Gas production and distribution	43.1	42.1	41.7	41.9	—	—	—	—	—	—
492	Combination utility services	40.5	40.5	40.3	40.4	—	—	—	—	—	—
493	Sanitary services	41.9	41.7	41.8	41.6	—	—	—	—	—	—
495	Sanitary services	42.7	42.6	41.9	42.0	—	—	—	—	—	—
	WHOLESALE AND RETAIL TRADE										
—	WHOLESALE TRADE	33.2	33.7	32.4	33.0	33.4	—	—	—	—	—
50, 51	WHOLESALE TRADE-DURABLE GOODS	39.0	39.0	38.9	39.0	39.1	—	—	—	—	—
50	Motor vehicles and automotive equipment	39.6	39.6	39.3	39.5	—	—	—	—	—	—
501	Furniture and home furnishings	39.0	39.1	38.7	39.1	—	—	—	—	—	—
502	Lumber and construction materials	37.7	38.1	37.4	37.7	—	—	—	—	—	—
503	Sporting goods, toys, and hobby goods	40.1	39.7	39.8	39.7	—	—	—	—	—	—
504	Sporting goods, toys, and hobby goods	37.9	37.6	37.4	37.8	—	—	—	—	—	—

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				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
WHOLESALE TRADE-DURABLE GOODS—Continued											
506	Metals and minerals, except petroleum	\$264.94	\$263.14	\$291.85	\$291.34	-	\$6.64	\$6.73	\$7.26	\$7.32	-
508	Electrical goods	231.47	235.22	244.86	248.71	-	5.86	5.97	6.36	6.41	-
507	Hardware, plumbing, and heating equipment	218.06	218.68	232.32	234.47	-	5.62	5.68	6.05	6.09	-
508	Machinery, equipment, and supplies	245.22	249.27	260.80	263.71	-	6.10	6.17	6.52	6.56	-
509	Miscellaneous durable goods	196.71	196.17	210.40	213.59	-	4.98	5.03	5.34	5.38	-
WHOLESALE TRADE-NONDURABLE GOODS											
51	Paper and paper products	220.98	226.74	240.66	243.21	-	5.80	5.92	6.30	6.35	-
511	Drugs, proprietaries, and sundries	239.94	253.27	274.50	268.97	-	6.61	6.92	7.50	7.43	-
512	Apparel, piece goods, and notions	227.93	234.08	240.53	247.76	-	6.03	6.16	6.38	6.52	-
513	Groceries and related products	192.58	196.20	212.43	215.80	-	5.32	5.39	5.82	5.88	-
514	Chemicals and allied products	225.02	231.07	244.86	245.88	-	5.86	5.94	6.36	6.37	-
516	Petroleum and petroleum products	254.26	259.50	286.56	292.19	-	6.57	6.62	7.20	7.36	-
517	Beer, wine, and distilled beverages	262.01	275.42	300.49	304.00	-	6.65	6.92	7.55	7.60	-
518	Miscellaneous nondurable goods	264.16	265.79	269.74	276.76	-	6.97	7.05	7.31	7.40	-
519	Miscellaneous nondurable goods	182.02	182.95	198.91	198.50	-	4.79	4.84	5.18	5.21	-
52-59	RETAIL TRADE	130.62	134.08	136.19	139.95	\$142.52	4.16	4.19	4.48	4.50	\$4.51
BUILDING MATERIALS AND GARDEN SUPPLIES											
52	Lumber and other building materials	178.26	181.20	183.26	188.71	-	4.63	4.67	4.90	4.94	-
521	Hardware stores	198.86	202.13	204.73	209.16	-	4.91	4.93	5.17	5.19	-
526	Hardware stores	137.98	139.87	143.74	145.59	-	3.92	3.94	4.24	4.22	-
GENERAL MERCHANDISE STORES											
53	Department stores	120.50	123.62	127.02	130.63	-	4.03	4.08	4.35	4.34	-
531	Variety stores	125.70	128.90	132.73	136.65	-	4.19	4.24	4.53	4.54	-
533	Misc. general merchandise stores	98.50	100.79	106.00	108.17	-	3.42	3.44	3.63	3.57	-
539	Misc. general merchandise stores	97.61	99.20	100.61	103.19	-	3.19	3.20	3.53	3.51	-
FOOD STORES											
54	Grocery stores	170.89	174.16	176.78	183.63	-	5.21	5.23	5.63	5.65	-
541	Retail bakeries	177.42	180.97	184.12	190.82	-	5.36	5.37	5.79	5.80	-
546	Retail bakeries	118.01	120.90	124.70	131.26	-	3.96	3.99	4.30	4.39	-
AUTOMOTIVE DEALERS AND SERVICE STATIONS											
55	New and used car dealers	186.73	189.00	197.10	200.72	-	4.94	5.00	5.27	5.31	-
551, 2	Auto and home supply stores	231.43	233.47	239.17	240.79	-	5.98	6.08	6.18	6.19	-
553	Gasoline service stations	182.41	188.78	192.40	195.46	-	4.46	4.56	4.81	4.85	-
554	Gasoline service stations	129.21	131.02	136.91	141.50	-	3.65	3.67	3.98	4.02	-
APPAREL AND ACCESSORY STORES											
56	Men's and boys' clothing and furnishings	111.14	113.65	115.02	117.81	-	3.68	3.69	3.98	3.98	-
561	Women's ready-to-wear stores	136.78	139.73	143.74	145.15	-	4.17	4.26	4.52	4.48	-
562	Family clothing stores	98.36	101.23	101.84	103.49	-	3.38	3.42	3.69	3.67	-
565	Shoe stores	106.75	112.54	110.78	114.73	-	3.50	3.55	3.82	3.85	-
566	Shoe stores	120.90	118.86	119.71	125.08	-	3.99	3.91	4.23	4.24	-
FURNITURE AND HOME FURNISHINGS STORES											
57	Furniture and home furnishings	166.37	170.63	177.83	182.83	-	4.74	4.82	5.11	5.15	-
571	Household appliance stores	173.18	175.30	182.00	186.38	-	4.92	4.98	5.23	5.28	-
572	Radio, television, and music stores	177.21	180.80	196.75	201.66	-	4.95	4.94	5.45	5.54	-
573	Radio, television, and music stores	142.42	152.57	156.64	162.13	-	4.14	4.31	4.58	4.58	-
EATING AND DRINKING PLACES⁵											
58	Drug stores and proprietary stores	87.45	90.60	89.95	91.92	-	3.18	3.19	3.42	3.43	-
MISCELLANEOUS RETAIL											
59	Miscellaneous shopping goods stores	131.30	134.64	140.56	143.41	-	4.04	4.08	4.42	4.44	-
591	Nonstore retailers	117.96	123.52	126.28	129.05	-	3.83	3.86	4.10	4.11	-
594	Fuel and ice dealers	119.83	122.47	124.31	130.00	-	3.78	3.78	4.13	4.18	-
596	Retail stores, nec	166.14	164.95	173.05	176.35	-	4.68	4.74	5.26	5.28	-
598	Retail stores, nec	198.66	198.78	219.46	222.53	-	5.16	5.19	5.73	5.75	-
599	Retail stores, nec	127.40	135.38	151.70	150.75	-	3.92	4.14	4.41	4.50	-
FINANCE, INSURANCE, AND REAL ESTATE⁶											
-	Commercial and stock savings banks	178.49	180.93	188.44	188.44	193.45	4.89	4.93	5.22	5.22	5.30
BANKING											
60	Commercial and stock savings banks	152.57	155.72	160.56	161.81	-	4.18	4.22	4.46	4.47	-
602	Commercial and stock savings banks	149.29	152.40	158.04	159.28	-	4.09	4.13	4.39	4.40	-
CREDIT AGENCIES OTHER THAN BANKS											
61	Savings and loan associations	160.88	165.31	167.99	169.19	-	4.36	4.48	4.59	4.61	-
612	Personal credit institutions	151.73	157.81	160.47	162.00	-	4.18	4.30	4.47	4.50	-
614	Personal credit institutions	159.27	162.43	164.21	165.84	-	4.27	4.39	4.45	4.47	-
INSURANCE CARRIERS											
63	Life insurance	192.92	195.45	208.88	208.31	-	5.20	5.24	5.60	5.63	-
631	Medical service and health insurance	192.46	194.09	210.94	207.36	-	5.23	5.26	5.61	5.65	-
632	Fire, marine, and casualty insurance	185.48	187.98	205.30	204.75	-	4.92	4.96	5.46	5.46	-
633	Fire, marine, and casualty insurance	195.15	198.44	208.09	209.39	-	5.26	5.32	5.67	5.69	-

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				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.9	39.1	40.2	39.8	-	-	-	-	-	-
506	Electrical goods	39.5	39.4	38.5	38.8	-	-	-	-	-	-
507	Hardware, plumbing, and heating equipment	38.8	38.5	38.4	38.5	-	-	-	-	-	-
508	Machinery, equipment, and supplies	40.2	40.4	40.0	40.2	-	-	-	-	-	-
509	Miscellaneous durable goods	39.5	39.0	39.4	39.7	-	-	-	-	-	-
51	WHOLESALE TRADE-NONDURABLE GOODS	38.1	38.3	38.2	38.3	-	-	-	-	-	-
511	Paper and paper products	36.3	36.6	36.6	36.2	-	-	-	-	-	-
512	Drugs, proprietaries, and sundries	37.8	38.0	37.7	38.0	-	-	-	-	-	-
513	Apparel, piece goods, and notions	36.2	36.4	36.5	36.7	-	-	-	-	-	-
514	Groceries and related products	38.4	38.9	38.5	38.6	-	-	-	-	-	-
516	Chemicals and allied products	38.7	39.2	39.8	39.7	-	-	-	-	-	-
517	Petroleum and petroleum products	39.4	39.8	39.8	40.0	-	-	-	-	-	-
518	Beer, wine, and distilled beverages	37.9	37.7	36.9	37.4	-	-	-	-	-	-
519	Miscellaneous nondurable goods	38.0	37.8	38.4	38.1	-	-	-	-	-	-
52-59	RETAIL TRADE	31.4	32.0	30.4	31.1	31.6	-	-	-	-	-
52	BUILDING MATERIALS AND GARDEN SUPPLIES	38.5	38.8	37.4	38.2	-	-	-	-	-	-
521	Lumber and other building materials	40.5	41.0	39.6	40.3	-	-	-	-	-	-
525	Hardware stores	35.2	35.5	33.9	34.5	-	-	-	-	-	-
53	GENERAL MERCHANDISE STORES	29.9	30.3	29.2	30.1	-	-	-	-	-	-
531	Department stores	30.0	30.4	29.3	30.1	-	-	-	-	-	-
533	Variety stores	28.8	29.3	29.2	30.3	-	-	-	-	-	-
539	Misc. general merchandise stores	30.6	31.0	28.5	29.4	-	-	-	-	-	-
54	FOOD STORES	32.8	33.3	31.4	32.5	-	-	-	-	-	-
541	Grocery stores	33.1	33.7	31.8	32.9	-	-	-	-	-	-
546	Retail bakeries	29.8	30.3	29.0	29.9	-	-	-	-	-	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.8	37.8	37.4	37.8	-	-	-	-	-	-
551, 2	New and used car dealers	38.7	38.4	38.7	38.9	-	-	-	-	-	-
553	Auto and home supply stores	40.9	41.4	40.0	40.3	-	-	-	-	-	-
554	Gasoline service stations	35.4	35.7	34.4	34.2	-	-	-	-	-	-
56	APPAREL AND ACCESSORY STORES	30.2	30.8	28.9	29.6	-	-	-	-	-	-
561	Men's and boys' clothing and furnishings	32.8	32.8	31.8	32.4	-	-	-	-	-	-
562	Women's ready-to-wear stores	29.1	29.6	27.6	28.2	-	-	-	-	-	-
565	Family clothing stores	30.5	31.7	29.0	29.8	-	-	-	-	-	-
566	Shoe stores	30.3	30.4	28.3	29.5	-	-	-	-	-	-
57	FURNITURE AND HOME FURNISHINGS STORES	35.1	35.4	34.8	35.5	-	-	-	-	-	-
571	Furniture and home furnishings	35.2	35.2	34.8	35.3	-	-	-	-	-	-
572	Household appliance stores	35.8	36.6	36.1	36.4	-	-	-	-	-	-
573	Radio, television, and music stores	34.4	35.4	34.2	35.4	-	-	-	-	-	-
58	EATING AND DRINKING PLACES ⁵	27.5	28.4	26.3	26.8	-	-	-	-	-	-
59	MISCELLANEOUS RETAIL	32.5	33.0	31.8	32.3	-	-	-	-	-	-
591	Drug stores and proprietary stores	30.8	32.0	30.8	31.4	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	31.7	32.4	30.1	31.1	-	-	-	-	-	-
596	Nonstore retailers	35.5	34.8	32.9	33.4	-	-	-	-	-	-
598	Fuel and ice dealers	38.5	38.3	38.3	38.7	-	-	-	-	-	-
599	Retail stores, nec	32.5	32.7	34.4	33.5	-	-	-	-	-	-
-	FINANCE, INSURANCE, AND REAL ESTATE ⁶	36.5	36.7	36.1	36.1	36.5	-	-	-	-	-
60	BANKING	36.5	36.9	36.0	36.2	-	-	-	-	-	-
602	Commercial and stock savings banks	36.5	36.9	36.0	36.2	-	-	-	-	-	-
61	CREDIT AGENCIES OTHER THAN BANKS	36.9	36.9	36.6	36.7	-	-	-	-	-	-
612	Savings and loan associations	36.3	36.7	35.9	36.0	-	-	-	-	-	-
614	Personal credit institutions	37.3	37.0	36.9	37.1	-	-	-	-	-	-
63	INSURANCE CARRIERS	37.1	37.3	37.3	37.0	-	-	-	-	-	-
631	Life insurance	36.8	36.9	37.3	36.7	-	-	-	-	-	-
632	Medical service and health insurance	37.7	37.9	37.6	37.5	-	-	-	-	-	-
633	Fire, marine, and casualty insurance	37.1	37.3	36.7	36.8	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
-	SERVICES	\$ 162.69	\$164.84	\$171.60	\$173.38	\$176.49	\$ 4.93	\$ 4.95	\$ 5.28	\$ 5.27	\$ 5.30
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	112.32	115.31	120.17	123.47	-	3.60	3.57	3.94	3.97	-
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	129.80	130.15	140.07	141.11	-	3.73	3.74	4.06	4.09	-
723	Beauty shops	124.87	121.76	131.88	130.00	-	3.89	3.89	4.20	4.18	-
73	BUSINESS SERVICES	168.15	169.98	176.37	177.89	-	5.08	5.12	5.41	5.44	-
731	Advertising	253.76	258.83	268.60	268.26	-	7.01	7.23	7.42	7.39	-
734	Services to buildings	123.60	124.65	127.96	126.56	-	4.43	4.50	4.67	4.67	-
737	Computer and data processing services	210.13	213.23	225.16	230.11	-	5.71	5.81	6.22	6.27	-
75	AUTO REPAIR, SERVICES, AND GARAGES ...	188.12	189.88	206.27	209.03	-	4.99	5.01	5.53	5.53	-
753	Automotive repair shops	213.30	211.53	229.12	229.89	-	5.40	5.41	5.83	5.82	-
76	MISCELLANEOUS REPAIR SERVICES	243.76	242.81	253.66	258.22	-	5.96	6.04	6.31	6.36	-
78	MOTION PICTURES	176.40	188.11	171.42	178.74	-	6.30	6.42	6.67	6.62	-
781	Motion picture production and services	353.79	365.85	351.92	370.36	-	9.64	9.73	9.31	9.57	-
79	AMUSEMENT AND RECREATION SERVICES ..	141.15	148.48	147.29	148.20	-	4.37	4.38	5.01	4.69	-
80	HEALTH SERVICES	157.18	160.61	166.62	169.32	-	4.72	4.78	5.08	5.10	-
801	Offices of physicians	162.84	166.17	174.37	174.70	-	4.89	4.99	5.30	5.31	-
802	Offices of dentists	137.46	136.12	147.46	148.95	-	4.74	4.71	5.12	5.19	-
805	Nursing and personal care facilities	111.43	115.56	117.27	119.35	-	3.56	3.60	3.82	3.85	-
806	Hospitals	171.66	175.08	181.51	185.96	-	4.99	5.06	5.37	5.39	-
81	LEGAL SERVICES	212.66	217.17	219.41	227.45	-	6.20	6.35	6.53	6.67	-
89	MISCELLANEOUS SERVICES	268.28	272.84	286.89	287.26	-	7.06	7.18	7.53	7.52	-
891	Engineering and architectural services	290.51	291.36	313.12	310.03	-	7.43	7.49	8.07	7.97	-
893	Accounting, auditing, and bookkeeping	229.02	238.72	247.97	251.46	-	6.14	6.40	6.56	6.67	-

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

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

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

⁴ Data relate to employees in such occupations in the telephone industry as central office craft

persons; installation and exchange repair craft persons; line, cable and conduit craft persons; and laborers. In 1977, such employees made up 37 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁵ Money payments only; tips, not included.

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

* Not available.

^P preliminary.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
-	SERVICES	33.0	33.3	32.5	32.9	33.3	-	-	-	-	-
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	31.2	32.3	30.5	31.1	-	-	-	-	-	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	34.8	34.8	34.5	34.5	-	-	-	-	-	
723	Beauty shops	32.1	31.3	31.4	31.1	-	-	-	-	-	
	BUSINESS SERVICES										
73	Advertising	33.1	33.2	32.6	32.7	-	-	-	-	-	
731	Services to buildings	36.2	35.8	36.2	36.3	-	-	-	-	-	
734	Computer and data processing services	27.9	27.7	27.4	27.1	-	-	-	-	-	
737	.....	36.8	36.7	36.2	36.7	-	-	-	-	-
	AUTO REPAIR, SERVICES, AND GARAGES										
75	Automotive repair shops	37.7	37.9	37.3	37.8	-	-	-	-	-	
753	.....	39.5	39.1	39.3	39.5	-	-	-	-	-
76	MISCELLANEOUS REPAIR SERVICES	40.9	40.2	40.2	40.6	-	-	-	-	-	
	MOTION PICTURES										
78	Motion picture production and services	28.0	29.3	25.7	27.0	-	-	-	-	-	
781	.....	36.7	37.6	37.8	38.7	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	32.3	33.9	29.4	31.6	-	-	-	-	-	
	HEALTH SERVICES										
80	Offices of physicians	33.3	33.6	32.8	33.2	-	-	-	-	-	
801	Offices of dentists	33.3	33.3	32.9	32.9	-	-	-	-	-	
802	Nursing and personal care facilities	29.0	28.9	28.8	28.7	-	-	-	-	-	
805	Hospitals	31.3	32.1	30.7	31.0	-	-	-	-	-	
806	.....	34.4	34.6	33.8	34.5	-	-	-	-	-
81	LEGAL SERVICES	34.3	34.2	33.6	34.1	-	-	-	-	-	
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	38.0	38.0	38.1	38.2	-	-	-	-	-	
891	Accounting, auditing, and bookkeeping	39.1	38.9	38.8	38.9	-	-	-	-	-	
893	.....	37.3	37.3	37.8	37.7	-	-	-	-	-

ESTABLISHMENT DATA HOURS AND EARNINGS

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

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

Item	1978										1979			
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
Executive Branch														
Total employment	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	2,688.3	2,697.4	
Average weekly hours	39.6	39.5	39.6	39.8	39.7	39.5	39.9	39.9	40.1	39.7	39.7	39.5	39.5	
Average overtime hours	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.2	1.5	1.2	1.1	1.1	1.1	
Indexes (1967=100):														
Average weekly earnings	226.5	226.0	226.5	227.7	226.8	230.0	242.0	239.2	244.3	243.2	242.4	240.6	239.8	
Average hourly earnings	225.4	225.4	225.4	225.4	225.1	229.5	238.9	242.2	240.0	241.4	240.5	240.0	239.2	
Department of Defense														
Total employment	905.4	911.3	924.8	927.1	918.6	905.4	905.8	905.3	902.0	896.0	895.0	892.0	890.0	
Average weekly hours	40.1	40.0	40.0	40.1	40.1	39.7	39.9	40.0	39.8	39.9	39.9	39.9	39.9	
Average overtime hours .....	.9	.9	1.0	.9	1.0	1.2	1.0	.8	.9	.8	.9	.9	.8
Indexes (1967=100):														
Average weekly earnings	222.1	222.0	221.5	220.4	221.2	223.3	232.5	233.7	234.1	234.7	234.7	235.2	234.4	
Average hourly earnings	223.2	223.7	223.2	221.5	222.3	226.7	234.9	235.4	237.1	237.1	237.1	237.6	236.8	
Postal Service														
Total employment	647.9	648.3	648.3	647.5	649.0	651.9	646.9	651.4	651.4	653.0	655.2	655.4	655.0	
Average weekly hours	40.1	39.9	40.0	40.2	39.9	39.7	41.5	41.2	42.6	41.2	41.0	40.2	40.2	
Average overtime hours	1.5	1.5	1.6	1.8	1.5	1.8	2.3	1.9	3.1	2.6	1.8	1.6	1.7	
Indexes (1967=100):														
Average weekly earnings	256.2	254.3	259.7	261.9	260.3	259.3	278.7	275.9	289.4	280.8	276.9	271.5	271.8	
Average hourly earnings	246.6	246.0	250.6	251.5	251.8	252.1	259.5	258.5	262.2	263.1	260.7	260.7	261.0	
Other Agencies														
Total employment	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	1,140.9	1,152.4	
Average weekly hours	38.9	38.8	39.0	39.3	39.3	39.1	39.0	39.0	38.8	38.7	38.8	38.8	38.8	
Average overtime hours	1.0	1.0	1.0	1.1	1.2	1.2	1.1	1.0	1.0	.9	1.0	1.0	1.0	
Indexes (1967=100):														
Average weekly earnings	214.1	213.4	212.0	214.6	213.4	218.3	229.1	231.4	227.7	229.9	229.7	227.7	226.7	
Average hourly earnings	213.6	213.4	210.9	211.9	210.6	216.6	228.0	230.2	227.7	230.4	229.7	227.7	226.7	

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 ¹				
	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
MANUFACTURING	\$5.85	\$5.92	\$6.36	\$6.39	\$6.44
DURABLE GOODS	6.23	6.29	6.77	6.81	6.85
Lumber and wood products	5.40	5.45	5.72	5.89	-
Furniture and fixtures	4.50	4.54	4.84	4.91	-
Stone, clay, and glass products	5.96	6.01	6.40	6.46	-
Primary metal industries	7.72	7.81	8.43	8.50	-
Fabricated metal products	6.02	6.06	6.49	6.53	-
Machinery, except electrical	6.39	6.43	6.91	6.99	-
Electric and electronic equipment	5.56	5.65	6.03	6.05	-
Transportation equipment	7.37	7.41	8.08	8.09	-
Instruments and related products	5.49	5.55	5.93	5.93	-
Miscellaneous manufacturing industries	4.53	4.58	4.87	4.86	-
NONDURABLE GOODS	5.26	5.35	5.70	5.72	5.81
Food and kindred products	5.48	5.51	5.94	5.94	-
Tobacco manufactures	6.38	6.40	6.85	7.03	-
Textile mill products	4.02	4.14	4.34	4.35	-
Apparel and other textile products	3.84	3.85	4.14	4.14	-
Paper and allied products	6.15	6.24	6.62	6.68	-
Printing and publishing	6.20	6.23	6.59	6.63	-
Chemicals and allied products	6.69	6.76	7.17	7.22	-
Petroleum and coal products	8.11	8.16	8.90	8.88	-
Rubber and misc. plastics products	5.23	5.28	5.64	5.66	-
Leather and leather products	3.78	3.81	4.11	4.10	-

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

^P preliminary.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
				Worker with no dependents			Married worker with 3 dependents		
	June 1978	May 1979	June 1979 ^P	June 1978	May 1979	June 1979 ^P	June 1978	May 1979	June 1979 ^P
TOTAL PRIVATE:									
Current dollars	\$ 204.53	\$ 215.84	\$ 219.96	\$ 165.99	\$ 175.03	\$ 178.03	\$ 181.34	\$ 191.65	\$ 194.86
1967 dollars	104.73	100.72	101.41	84.99	81.68	82.08	92.85	89.43	89.84
MINING:									
Current dollars	336.05	359.96	367.60	254.32	272.12	277.00	278.79	299.51	305.08
1967 dollars	172.07	167.97	169.48	130.22	126.98	127.71	142.75	139.76	140.65
CONSTRUCTION:									
Current dollars	324.42	340.55	346.56	246.97	259.72	263.56	270.42	285.37	289.75
1967 dollars	166.11	158.91	159.78	126.46	121.19	121.51	138.46	133.16	133.59
MANUFACTURING:									
Current dollars	249.29	265.46	269.06	197.41	210.04	212.51	214.88	229.43	232.17
1967 dollars	127.64	123.87	124.05	101.08	98.01	97.98	110.03	107.06	107.04
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	301.04	314.82	319.20	231.79	243.29	246.08	253.60	266.62	269.81
1967 dollars	154.14	146.91	147.16	118.68	113.53	113.45	129.85	124.41	124.39
WHOLESALE AND RETAIL TRADE:									
Current dollars	153.38	162.00	165.66	128.63	135.38	138.12	141.91	152.07	155.51
1967 dollars	78.54	75.59	76.38	65.86	63.17	63.68	72.66	70.96	71.69
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	178.49	188.44	188.44	147.25	155.07	155.07	161.47	170.80	170.80
1967 dollars	91.39	87.93	86.88	75.40	72.36	71.49	82.68	79.70	78.75
SERVICES:									
Current dollars	162.69	171.60	173.38	135.61	142.57	143.90	149.16	159.57	160.77
1967 dollars	83.30	80.07	79.94	69.44	66.53	66.34	76.37	74.46	74.12
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	195.3	214.3	216.9						

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

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

this publication). A technical note on the calculation and uses of the spendable earnings series is available on request.

^Ppreliminary (applicable to earnings data only).

ESTABLISHMENT DATA HOURS AND EARNINGS

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

[1967=100]

Industry division and group	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
	Hours				
TOTAL PRIVATE	122.9	122.8	123.4	126.5	126.3
GOODS-PRODUCING	108.8	107.0	108.9	112.2	109.7
MINING	148.3	147.2	148.7	154.6	150.5
CONSTRUCTION	130.9	135.8	132.8	142.7	146.1
MANUFACTURING	103.5	100.5	103.2	105.3	101.9
DURABLE GOODS	105.8	102.6	107.3	109.1	105.1
Lumber and wood products	102.4	116.8	114.1	119.0	116.1
Furniture and fixtures	110.7	104.5	103.4	105.3	101.6
Stone, clay, and glass products	116.7	114.7	113.8	116.9	114.0
Primary metal industries	96.4	94.5	97.9	100.0	95.8
Fabricated metal products	104.2	100.1	104.9	107.1	102.7
Machinery, except electrical	111.5	108.4	117.5	119.6	116.0
Electric and electronic equipment	101.0	98.7	104.7	107.2	101.8
Transportation equipment	98.4	95.3	101.1	99.5	94.6
Instruments and related products	123.6	121.2	128.6	130.9	130.4
Miscellaneous manufacturing industries	103.6	96.5	98.3	101.7	94.4
NONDURABLE GOODS	100.0	97.4	97.4	99.7	97.5
Food and kindred products	93.4	96.2	90.5	94.7	95.9
Tobacco manufactures	75.5	66.7	71.0	71.1	65.3
Textile mill products	94.3	89.5	90.7	92.8	88.4
Apparel and other textile products	93.8	87.2	88.0	89.8	85.6
Paper and allied products	104.0	101.9	101.9	105.0	103.6
Printing and publishing	98.6	98.0	101.2	101.8	102.0
Chemicals and allied products	107.9	106.6	107.2	108.7	107.6
Petroleum and coal products	124.7	127.3	124.9	126.9	134.8
Rubber and misc. plastics products	148.6	142.8	149.4	151.3	145.4
Leather and leather products	73.8	66.0	65.0	67.3	57.3
SERVICE-PRODUCING	132.8	133.8	133.5	136.5	137.8
TRANSPORTATION AND PUBLIC UTILITIES	110.8	108.2	110.8	113.7	113.4
WHOLESALE AND RETAIL TRADE	128.8	130.2	128.4	131.2	131.9
WHOLESALE TRADE	127.6	127.6	130.1	132.3	132.5
RETAIL TRADE	129.3	131.2	127.8	130.7	131.7
FINANCE, INSURANCE, AND REAL ESTATE	139.4	141.3	142.5	144.9	147.2
SERVICES	146.6	148.3	148.5	151.8	154.3

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

p=preliminary.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

[1967=100]

Industry division and group	June 1978	July 1978	May 1979	June 1979 ^P	July 1979 ^P
	Payrolls				
TOTAL PRIVATE	259.3	260.9	280.1	288.4	289.8
GOODS-PRODUCING	237.5	236.9	257.1	266.6	264.0
MINING	357.5	361.2	393.1	410.9	401.6
CONSTRUCTION	272.6	284.8	294.8	316.3	328.7
MANUFACTURING	223.7	219.7	242.1	248.1	241.9
DURABLE GOODS	230.1	225.0	252.9	258.7	250.2
Lumber and wood products	288.0	281.9	287.9	309.4	303.2
Furniture and fixtures	221.8	210.1	220.8	228.6	220.3
Stone, clay, and glass products	261.8	259.1	273.0	283.3	277.3
Primary metal industries	233.7	231.9	259.0	267.0	258.3
Fabricated metal products	220.0	212.5	238.5	245.0	235.2
Machinery, except electrical	234.5	228.8	266.7	274.9	267.6
Electric and electronic equipment	209.3	207.5	235.1	242.0	231.7
Transportation equipment	223.7	217.4	251.8	246.7	234.6
Instruments and related products	245.1	242.2	275.3	280.8	281.5
Miscellaneous manufacturing industries	205.6	192.8	209.2	216.0	202.4
NONDURABLE GOODS	212.9	210.7	223.8	230.1	228.6
Food and kindred products	203.4	211.2	213.2	223.2	228.9
Tobacco manufactures	220.0	193.6	216.7	222.9	207.2
Textile mill products	192.7	187.8	199.5	205.0	200.4
Apparel and other textile products	180.9	168.3	181.9	186.1	177.6
Paper and allied products	235.6	234.9	247.3	257.7	257.3
Printing and publishing	193.1	193.3	210.3	213.0	215.0
Chemicals and allied products	241.9	241.8	257.8	263.2	263.3
Petroleum and coal products	296.9	305.2	326.9	330.0	352.2
Rubber and misc. plastics products	296.0	286.7	319.8	324.8	314.5
Leather and leather products	138.7	124.2	131.6	136.7	117.6
SERVICE-PRODUCING	278.1	281.6	299.8	307.2	311.9
TRANSPORTATION AND PUBLIC UTILITIES	255.9	252.0	271.4	280.7	282.3
WHOLESALE AND RETAIL TRADE	264.4	269.6	285.0	292.1	295.2
WHOLESALE TRADE	257.8	262.3	284.7	291.5	294.4
RETAIL TRADE	268.0	273.7	285.2	292.5	295.7
FINANCE, INSURANCE, AND REAL ESTATE	263.6	269.9	287.9	292.6	302.2
SERVICES	315.8	320.8	342.3	349.5	357.0

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

^ppreliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	*1978						*1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^P	July ^P
TOTAL PRIVATE	35.9	35.8	35.8	35.9	35.8	35.9	35.7	35.7	35.9	35.4	35.7	35.7	35.7
MINING	43.0	43.6	43.0	43.0	43.3	43.7	43.4	43.0	43.2	43.0	42.7	43.1	42.1
CONSTRUCTION	37.3	37.1	37.0	36.9	36.8	37.2	35.9	36.4	37.6	35.8	37.2	37.4	37.0
MANUFACTURING	40.5	40.3	40.4	40.5	40.7	40.7	40.7	40.7	40.8	39.2	40.2	40.1	40.2
<i>Overtime hours</i>	3.6	3.4	3.6	3.6	3.7	3.8	3.8	3.8	3.8	2.8	3.4	3.3	3.3
DURABLE GOODS	41.2	41.0	41.1	41.2	41.4	41.5	41.5	41.5	41.6	39.6	40.8	40.7	40.8
<i>Overtime hours</i>	3.8	3.6	3.8	3.9	4.0	4.1	4.2	4.2	4.1	2.8	3.6	3.5	3.5
Lumber and wood products	39.8	39.3	39.6	40.1	40.1	40.1	40.0	39.5	40.1	39.2	39.2	39.2	39.2
Furniture and fixtures	39.3	39.0	38.8	39.0	39.2	39.2	39.2	38.8	39.4	38.1	38.4	38.3	38.7
Stone, clay, and glass products	41.7	41.6	41.8	41.8	41.9	42.0	41.4	41.5	42.3	41.3	41.6	41.5	41.2
Primary metal industries	41.8	42.0	41.8	42.1	42.3	42.2	42.4	42.3	41.9	41.7	41.3	41.4	40.7
Fabricated metal products	41.0	40.9	40.9	40.8	41.1	41.4	41.2	41.4	41.5	39.1	40.7	40.7	41.0
Machinery, except electrical	42.2	41.8	41.9	42.0	42.2	42.5	42.2	42.6	42.6	40.5	42.0	42.0	42.2
Electric and electronic equipment	40.7	40.4	40.1	40.3	40.4	40.5	40.7	40.9	40.9	39.0	40.3	40.1	39.8
Transportation equipment	42.1	41.8	42.5	42.6	42.9	42.9	43.0	42.7	42.4	38.0	41.2	40.9	41.1
Instruments and related products	40.7	41.0	40.9	40.9	40.9	40.9	41.1	41.1	41.4	40.2	40.8	40.7	41.0
Miscellaneous manufacturing ind	38.8	39.0	39.0	38.8	38.8	38.8	39.1	39.0	39.2	37.7	38.5	38.7	39.6
NONDURABLE GOODS	39.4	39.3	39.4	39.3	39.6	39.5	39.6	39.4	39.6	38.7	39.2	39.2	39.3
<i>Overtime hours</i>	3.2	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.3	2.7	3.0	3.0	3.1
Food and kindred products	39.8	39.5	39.5	39.9	40.0	40.0	40.1	39.7	40.1	39.7	39.8	39.8	39.9
Tobacco manufactures	38.6	37.7	37.9	36.7	37.4	38.1	36.7	36.7	38.5	37.9	38.9	37.8	37.9
Textile mill products	40.2	40.4	40.4	40.3	40.4	40.4	40.9	40.0	40.6	38.9	40.0	40.0	40.1
Apparel and other textile products	35.8	35.6	35.7	35.2	35.7	35.6	35.3	35.5	34.3	35.2	35.2	35.2	35.4
Paper and allied products	42.9	42.7	42.7	42.6	43.1	42.7	42.9	42.9	42.9	42.3	42.5	42.5	42.8
Printing and publishing	37.6	37.4	37.8	37.7	37.9	37.6	37.7	37.7	37.8	37.2	37.3	37.4	37.4
Chemicals and allied products	41.8	41.9	41.8	41.9	42.1	41.8	42.0	41.9	42.0	41.8	41.9	41.7	41.7
Petroleum and coal products	43.9	44.3	43.8	43.9	44.2	43.7	43.4	43.4	44.2	44.1	43.7	43.2	44.7
Rubber and misc. plastics products	40.9	40.9	41.0	41.0	41.1	41.2	41.5	41.5	41.4	39.8	40.8	40.7	40.1
Leather and leather products	37.2	37.1	37.2	37.1	36.8	36.7	37.0	36.3	36.2	35.8	36.2	36.3	36.5
TRANSPORTATION AND PUBLIC UTILITIES	39.6	39.9	40.1	40.1	40.0	40.0	40.2	40.0	40.2	39.3	39.9	39.8	39.5
WHOLESALE AND RETAIL TRADE	32.9	32.8	32.8	32.9	32.8	32.9	32.4	32.5	32.7	32.8	32.6	32.6	32.6
WHOLESALE TRADE	38.7	38.8	39.0	38.9	38.8	38.9	38.7	38.7	39.1	38.8	38.9	38.8	38.8
RETAIL TRADE	31.1	30.9	30.9	31.0	30.9	31.0	30.5	30.6	30.7	30.9	30.6	30.7	30.7
FINANCE, INSURANCE, AND REAL ESTATE	36.6	36.5	36.5	36.6	36.3	36.3	36.3	36.3	36.3	36.5	36.1	36.1	36.4
SERVICES	32.8	32.7	32.8	32.8	32.7	32.5	32.6	32.6	32.8	32.7	32.7	32.7	32.8

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

^P preliminary.

* Some of the columns of data appearing in this table in the July 1979 issue were inadvertently mislabeled. Data for May 1978 appeared under the column heading "June 1978," data for June 1978 appeared under "July 1978," and so forth for all months through February 1979. The March 1979 figures were left out of the table; the columns for April, May, and June 1979 were labeled correctly.

**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						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^P	July ^P
TOTAL PRIVATE	120.6	120.4	120.8	121.6	122.4	122.9	122.6	123.2	124.7	122.4	123.9	124.1	124.1
GOODS-PRODUCING	106.1	105.4	105.5	106.5	108.0	109.1	108.7	109.1	111.0	106.3	109.3	109.3	109.0
MINING	143.5	145.7	144.4	145.2	148.0	149.1	149.2	149.3	150.0	149.1	148.3	150.1	146.6
CONSTRUCTION	124.2	122.8	122.6	123.8	124.3	126.5	120.6	122.4	131.5	124.6	132.3	133.9	133.9
MANUFACTURING	101.6	101.0	101.2	102.1	103.7	104.6	^c 105.2	105.4	106.0	101.6	103.8	103.5	103.3
DURABLE GOODS	104.0	103.5	103.9	105.5	107.1	108.3	108.8	109.6	110.2	104.4	107.3	107.0	106.8
Lumber and wood products	112.3	110.7	111.6	113.9	115.3	116.2	116.6	115.5	116.9	112.5	112.2	112.2	111.6
Furniture and fixtures	108.3	106.4	106.2	107.5	108.6	109.4	110.0	108.6	109.7	105.3	105.1	104.0	105.4
Stone, clay, and glass products	111.1	109.8	110.1	110.8	112.0	113.3	111.5	112.2	115.1	111.8	112.6	112.6	110.6
Primary metal industries	94.4	95.3	95.5	96.9	99.0	99.2	99.7	100.5	99.6	99.0	97.3	97.8	95.4
Fabricated metal products	102.0	101.8	102.0	103.1	105.2	106.8	106.6	108.0	107.9	101.4	105.4	105.4	104.9
Machinery, except electrical	112.1	110.8	111.5	113.6	114.5	116.9	117.0	119.2	119.8	114.6	118.8	119.2	119.9
Electric and electronic equipment	101.8	101.1	100.1	101.4	102.6	103.4	105.1	106.4	107.8	102.6	105.8	106.0	105.0
Transportation equipment	96.2	96.1	97.7	100.4	102.8	103.8	104.7	105.0	104.8	92.3	99.6	96.9	98.1
Instruments and related products	123.6	123.9	123.9	124.5	125.7	126.9	128.8	130.0	131.3	127.8	129.0	129.6	133.0
Miscellaneous manufacturing ind	99.8	100.6	100.3	100.9	101.8	101.5	102.9	102.3	102.8	97.8	98.7	99.5	98.0
NONDURABLE GOODS	98.1	97.2	97.2	97.2	98.8	99.1	99.9	99.2	99.8	97.5	98.7	98.4	98.2
Food and kindred products	93.6	91.4	91.3	92.2	94.6	96.1	97.0	95.3	97.0	95.7	95.3	95.3	93.3
Tobacco manufactures	78.6	71.5	74.5	73.5	73.5	77.6	74.8	73.5	78.4	77.2	82.0	79.6	75.8
Textile mill products	91.5	91.2	91.8	91.6	92.4	92.2	93.6	91.3	92.3	87.9	90.6	90.2	90.5
Apparel and other textile products	90.1	90.1	90.1	88.7	90.0	89.8	89.6	89.2	88.8	85.9	88.0	87.4	88.5
Paper and allied products	101.9	99.2	99.0	98.2	100.5	100.7	101.7	102.5	103.5	102.2	102.9	102.9	103.8
Printing and publishing	99.1	98.3	97.8	98.5	100.3	100.1	101.1	101.7	102.6	100.8	101.5	101.8	103.1
Chemicals and allied products	106.6	106.0	106.0	106.2	107.2	107.0	107.8	107.6	107.5	107.3	107.6	107.7	107.7
Petroleum and coal products	121.2	123.2	122.7	123.0	124.7	124.2	123.3	124.2	127.4	126.2	124.2	122.8	127.9
Rubber and misc. plastics products	146.2	145.4	145.0	147.0	149.6	152.3	153.9	154.9	154.5	147.8	152.0	149.7	148.7
Leather and leather products	67.1	69.1	69.6	68.8	67.3	66.5	66.7	64.2	63.7	62.4	63.7	63.9	57.9
SERVICE-PRODUCING	130.7	130.8	131.4	132.0	132.3	132.5	^c 132.3	132.9	134.2	133.7	134.0	134.4	134.6
TRANSPORTATION AND PUBLIC UTILITIES	106.5	107.7	108.2	109.9	110.2	110.3	111.2	111.2	112.2	107.5	111.5	112.1	111.3
WHOLESALE AND RETAIL TRADE	127.4	127.2	127.5	128.2	128.4	128.7	127.6	128.4	129.5	129.8	129.2	129.3	129.1
WHOLESALE TRADE	125.7	126.1	127.1	127.4	127.6	128.5	128.4	128.9	130.8	130.0	130.6	130.7	130.5
RETAIL TRADE	128.0	127.7	127.7	128.5	128.7	128.8	127.3	128.2	129.0	129.8	128.6	128.7	128.5
FINANCE, INSURANCE, AND REAL ESTATE	139.0	139.2	139.6	140.5	140.6	140.9	141.7	142.0	142.4	143.6	142.3	143.0	144.6
SERVICES	144.1	144.1	145.1	145.0	145.6	145.4	145.8	146.6	148.4	148.2	148.7	149.4	150.2

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

p=preliminary.
c=corrected.

* Some of the columns of data appearing in this table in the July 1979 issue were inadvertently mislabeled. Data for May 1978 appeared under the column heading "June 1978," data for June 1978 appeared under "July 1978," and so forth for all months through February 1979. The March 1979 figures were left out of the table; the columns for April, May, and June 1979 were labeled correctly.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

Industry	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^P	July ^P
Hourly Earnings Index² (1967=100)													
TOTAL PRIVATE (In current dollars) . . .	214.1	214.6	216.2	218.0	219.0	220.7	222.8	223.9	225.3	227.0	227.4	228.6	230.3
MINING	244.3	244.5	247.1	249.7	249.8	249.1	251.7	253.3	256.0	264.2	262.6	264.6	266.5
CONSTRUCTION	207.9	209.2	209.9	210.6	211.4	212.5	213.4	216.3	216.5	218.0	220.7	220.7	222.3
MANUFACTURING	216.7	217.5	218.9	220.8	222.4	224.1	225.4	227.1	228.8	231.1	232.3	233.6	235.5
TRANSPORTATION AND PUBLIC UTILITIES	230.4	231.2	233.3	234.0	234.7	238.3	240.7	241.6	242.7	241.9	243.9	245.3	245.5
WHOLESALE AND RETAIL TRADE	207.6	208.3	209.9	211.6	213.0	214.6	217.8	218.1	219.8	221.0	220.9	222.3	223.7
FINANCE, INSURANCE, AND REAL ESTATE	196.9	196.0	198.2	199.8	200.8	202.0	202.3	203.9	204.3	207.6	207.0	207.7	211.5
SERVICES	213.2	212.9	214.8	217.5	217.8	218.9	221.7	222.2	223.5	225.3	224.0	225.3	226.8
TOTAL PRIVATE (In 1967 dollars)³	109.1	108.7	108.7	108.7	108.5	108.6	108.6	107.8	107.3	107.0	106.1	105.6	-
Average hourly earnings													
TOTAL PRIVATE	\$ 5.71	\$ 5.73	\$ 5.77	\$ 5.82	\$ 5.87	\$ 5.91	\$ 5.97	\$ 5.99	\$ 6.04	\$ 6.04	\$ 6.09	\$ 6.13	\$ 6.17
MINING	7.85	7.88	7.88	7.99	8.03	8.03	8.12	8.18	8.25	8.53	8.45	8.50	8.54
CONSTRUCTION	8.66	8.72	8.75	8.77	8.82	8.86	8.92	9.05	9.03	9.11	9.20	9.21	9.29
MANUFACTURING	6.18	6.20	6.25	6.32	6.38	6.43	6.45	6.52	6.56	6.56	6.63	6.67	6.72
TRANSPORTATION AND PUBLIC UTILITIES	7.53	7.58	7.65	7.66	7.68	7.81	7.89	7.92	7.95	7.91	7.99	8.04	8.06
WHOLESALE AND RETAIL TRADE	4.67	4.70	4.73	4.77	4.81	4.84	4.93	4.93	4.97	5.00	5.00	5.03	5.06
FINANCE, INSURANCE, AND REAL ESTATE	4.95	4.92	4.98	5.03	5.06	5.08	5.09	5.13	5.14	5.23	5.21	5.24	5.32
SERVICES	5.01	5.02	5.50	5.10	5.11	5.14	5.21	5.22	5.25	5.29	5.27	5.30	5.36
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	204.99	205.13	206.57	208.94	210.15	212.17	213.13	213.84	216.84	213.82	217.41	218.84	220.27
1967 dollars ³	104.48	103.97	103.86	104.16	104.14	104.41	103.86	102.96	103.31	100.76	101.40	101.03	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{2, 4}	92.60	92.13	91.94	92.04	91.95	92.06	92.37	91.53	91.68	89.58	89.96	89.56	-

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

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

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

⁴ See footnote 2, table C-5.

N.A.=not available.
p=preliminary.

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

Industry division	Millions of hours (Annual rate) ²			Percent change		
	MAY 1979	JUNE 1979p	JULY 1979p	July 1978 to July 1979	May 1979 to June 1979	June 1979 to July 1979
TOTAL	166,837	167,482	167,685	2.7	0.4	0.1
PRIVATE SECTOR	136,157	136,562	136,648	3.1	0.3	0.1
MINING	2,059	2,093	2,084	4.3	1.7	-0.5
CONSTRUCTION	8,866	8,973	8,923	7.0	1.2	-0.6
MANUFACTURING	43,343	43,314	43,255	1.8	-0.1	-0.1
DURABLE GOODS	26,560	26,557	26,517	2.9	0.0	-0.2
NONDURABLE GOODS	16,784	16,756	16,737	0.1	-0.2	-0.1
TRANSPORTATION AND PUBLIC UTILITIES	10,434	10,480	10,501	5.4	0.4	0.2
WHOLESALE AND RETAIL TRADE	33,956	34,051	33,972	1.7	0.3	-0.2
FINANCE, INSURANCE, AND REAL ESTATE	9,174	9,202	9,307	4.3	0.3	1.1
SERVICES	28,325	28,450	28,606	4.5	0.4	0.6
GOVERNMENT	30,679	30,921	31,038	0.9	0.8	0.4

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

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

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1976		1977				1978				1979
	1977	1978	IV	I	II	III	IV	I	II	III	IV	I	IIp
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	118.8	120.1	117.2	118.5	118.0	119.7	119.3	119.1	119.8	120.6	120.8	120.0	118.8
Output	133.8	140.7	127.8	131.0	132.8	135.2	136.1	136.9	140.3	141.8	144.0	144.4	142.7
Hours	112.6	117.2	109.1	110.6	112.5	112.9	114.0	114.9	117.1	117.5	119.2	120.4	120.1
Compensation per hour	213.5	233.1	203.7	207.7	211.1	215.9	219.5	225.7	230.3	235.6	240.7	247.3	252.9
Real compensation per hour	117.6	119.3	117.2	117.2	116.8	118.0	118.4	119.5	119.0	119.2	119.1	119.3	118.1
Unit labor costs	179.7	194.2	173.8	175.2	178.9	180.3	183.9	189.5	192.2	195.3	199.2	206.1	212.8
Unit nonlabor payments	165.5	174.0	158.0	161.4	164.6	167.8	168.4	164.6	173.6	176.7	180.9	180.4	182.6
Implicit price deflator	174.8	187.2	168.3	170.5	173.9	176.0	178.6	180.9	185.8	188.9	192.9	197.2	202.4
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	116.5	117.7	114.9	116.4	115.9	117.0	116.8	116.7	117.4	118.3	118.6	117.7	116.0
Output	134.3	141.5	128.3	131.7	133.4	135.6	136.4	137.3	141.1	142.7	145.0	145.5	143.5
Hours	115.3	120.2	111.6	113.2	115.1	115.9	116.8	117.6	120.2	120.6	122.2	123.5	123.7
Compensation per hour	209.8	229.3	199.9	204.1	207.5	211.8	215.8	222.2	226.5	231.5	236.7	242.8	247.4
Real compensation per hour	115.6	117.3	115.0	115.2	114.9	115.7	116.4	117.6	117.0	117.1	117.2	117.1	115.5
Unit labor costs	180.1	194.7	173.9	175.4	179.0	181.0	184.8	190.3	192.9	195.7	199.5	206.2	213.2
Unit nonlabor payments	163.8	169.6	157.0	159.1	163.2	167.0	165.8	160.9	168.9	172.7	175.7	173.9	176.5
Implicit price deflator	174.5	186.1	168.1	169.8	173.6	176.2	178.3	180.2	184.7	187.8	191.4	195.1	200.7
MANUFACTURING:													
Output per hour of all persons	127.5	128.9	124.3	125.0	127.5	128.9	128.4	126.2	128.1	130.3	130.8	130.2	131.2
Output	128.2	134.5	120.9	123.8	128.2	130.1	130.9	129.8	133.5	136.1	138.5	140.2	139.9
Hours	100.6	104.4	97.2	99.0	100.5	100.9	101.9	102.9	104.2	104.4	105.9	107.7	106.6
Compensation per hour	212.4	231.1	201.4	206.4	209.9	214.6	218.4	224.4	228.1	233.1	238.4	244.3	250.0
Real compensation per hour	117.0	118.3	115.9	116.5	116.2	117.3	117.8	118.8	117.8	117.9	118.0	117.8	116.8
Unit labor costs	166.6	179.4	162.1	165.1	164.6	166.4	170.1	177.9	178.0	178.8	182.3	187.7	190.5
DURABLE GOODS													
Output per hour of all persons	121.5	122.1	118.8	119.1	121.9	122.9	122.1	119.2	121.8	123.8	123.6	122.3	123.4
Output	122.5	129.6	114.9	117.4	122.4	124.7	125.5	124.0	128.4	131.8	134.3	135.7	134.9
Hours	100.8	106.1	96.6	98.6	100.4	101.5	102.7	104.0	105.4	106.4	108.7	110.9	109.4
Compensation per hour	214.3	232.5	202.7	208.2	211.8	216.5	220.4	225.9	229.5	234.3	239.7	245.8	251.4
Real compensation per hour	118.1	119.0	116.6	117.5	117.2	118.3	118.9	119.6	118.6	118.5	118.6	118.5	117.4
Unit labor costs	176.4	190.4	170.5	174.9	173.8	176.2	180.4	189.4	188.4	189.2	193.9	200.9	203.7
NONDURABLE GOODS													
Output per hour of all persons	137.2	139.9	133.1	134.7	136.6	138.8	138.7	137.5	138.4	141.1	142.6	143.3	144.2
Output	137.6	142.3	130.6	134.2	137.6	139.0	139.7	139.2	141.7	143.0	145.2	147.4	147.9
Hours	100.3	101.7	98.1	99.6	100.7	100.1	100.7	101.2	102.4	101.4	101.8	102.9	102.5
Compensation per hour	208.9	227.6	199.7	203.6	206.6	210.9	214.5	221.2	224.8	229.9	234.2	239.8	245.9
Real compensation per hour	115.1	116.5	114.9	114.9	114.4	115.3	115.7	117.1	116.2	116.3	115.9	115.6	114.8
Unit labor costs	152.3	162.7	150.0	151.2	151.3	151.9	154.7	160.8	162.4	162.9	164.2	167.4	170.4
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	116.9	119.1	115.5	116.6	116.4	117.6	117.1	117.6	119.0	119.6	120.2	119.6	N.A.
Output	141.2	150.0	134.8	138.4	140.4	142.7	143.4	144.7	149.7	151.4	154.2	155.1	N.A.
Hours	120.8	125.9	116.7	118.7	120.6	121.3	122.5	123.0	125.8	126.5	128.3	129.7	N.A.
Compensation per hour	207.7	227.1	198.1	202.2	205.5	209.8	213.5	220.4	224.5	229.2	234.1	240.5	N.A.
Real compensation per hour	114.4	116.2	114.0	114.1	113.8	114.7	115.2	116.7	116.0	115.9	115.9	115.9	N.A.
Total unit costs	181.8	193.3	176.3	177.7	180.5	182.4	186.3	190.8	191.6	194.0	196.8	202.3	N.A.
Unit labor costs	177.7	190.6	171.5	173.4	176.6	178.4	182.3	187.3	188.7	191.5	194.8	201.0	N.A.
Unit nonlabor costs	194.3	201.8	191.3	191.0	192.4	194.8	198.7	201.5	200.8	201.6	203.1	206.5	N.A.
Unit profits	122.7	127.2	107.0	114.1	123.3	130.9	122.2	107.1	129.2	132.7	138.7	130.3	N.A.
Implicit price deflator	173.0	183.5	166.0	168.3	172.0	174.7	176.8	178.3	182.3	184.9	188.2	191.6	N.A.

p=preliminary.
r=revised.

Footnote: The productivity and cost measures contained in this table incorporate the regular 3-year revisions of Gross National Product for the period since 1976 recently released by the Bureau of Economic Analysis of the U.S. Department of Commerce. In addition, new seasonal factors have been computed for the quarterly data. Copies of the historical measures showing the full effect of all revisions are available on request from the Office of Productivity and Technology, Bureau of Labor Statistics, Washington, D.C. 20212.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	IV 1977		I 1978		II 1978		I 1977		II 1977		I 1978	
	to I 1978	to II 1978	to III 1978	to IV 1978	to I 1979	to II 1979	to I 1978	to II 1978	to III 1978	to IV 1978	to I 1979	to II 1979
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	-0.8	2.5	2.6	0.8	-2.8	-3.8	0.5	1.6	0.7	1.3	0.7	-0.8
Output	2.4	10.5	4.2	6.4	1.2	-4.7	4.4	5.7	4.8	5.8	5.5	1.7
Hours	3.2	7.9	1.5	5.6	4.1	-0.9	3.9	4.1	4.1	4.5	4.8	2.6
Compensation per hour	11.8	8.4	9.4	9.0	11.4	9.3	8.7	9.1	9.1	9.7	9.6	9.8
Real compensation per hour	3.7	-1.6	0.5	-0.1	0.4	-3.8	2.0	1.9	1.0	0.6	-0.2	-0.8
Unit labor costs	12.7	5.8	6.6	8.2	14.6	13.6	8.1	7.5	8.4	8.3	8.8	10.7
Unit nonlabor payments	-8.8	23.8	7.4	9.7	-1.1	5.1	2.0	5.5	5.3	7.4	9.6	5.2
Implicit price deflator	5.3	11.2	6.9	8.7	9.3	10.9	6.1	6.8	7.4	8.0	9.0	8.9
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	-0.2	2.4	2.9	1.3	-3.0	-5.7	0.3	1.3	1.1	1.6	0.9	-1.2
Output	2.7	11.5	4.5	6.8	1.2	-5.4	4.2	5.7	5.2	6.3	5.9	1.7
Hours	2.9	8.9	1.6	5.4	4.3	0.4	3.9	4.4	4.1	4.7	5.0	2.9
Compensation per hour	12.3	8.0	9.1	9.4	10.7	7.8	8.9	9.2	9.3	9.7	9.3	9.2
Real compensation per hour	4.1	-1.9	0.3	0.2	-0.3	-5.2	2.1	1.9	1.2	0.6	-0.5	-1.3
Unit labor costs	12.5	5.5	6.0	8.0	14.1	14.3	8.5	7.8	8.1	8.0	8.3	10.5
Unit nonlabor payments	-11.4	21.4	9.3	7.2	-4.1	6.2	1.1	3.5	3.4	6.0	8.1	4.5
Implicit price deflator	4.4	10.2	7.0	7.8	8.1	11.8	6.1	6.4	6.6	7.3	8.3	8.7
MANUFACTURING:												
Output per hour of all persons	-6.8	6.3	7.1	1.3	-1.9	3.3	0.9	0.5	1.1	1.8	3.2	2.4
Output	-3.3	11.8	8.0	7.3	5.0	-0.9	4.8	4.2	4.6	5.8	8.0	4.8
Hours	3.8	5.2	0.8	5.9	7.0	-4.1	3.9	3.6	3.5	3.9	4.7	2.3
Compensation per hour	11.5	6.7	9.2	9.3	10.4	9.6	8.7	8.7	8.6	9.1	8.9	9.6
Real compensation per hour	3.4	-3.2	0.3	0.1	-0.5	-3.6	2.0	1.4	0.6	0.1	-0.8	-0.9
Unit labor costs	19.6	0.3	1.9	7.9	12.5	6.1	7.7	8.1	7.5	7.2	5.5	7.0
DURABLE GOODS												
Output per hour of all persons	-9.1	8.9	6.7	-0.6	-4.1	3.5	0.2	-0.1	0.8	1.2	2.6	1.3
Output	-4.6	14.9	11.0	8.0	4.2	-2.3	5.6	4.9	5.7	7.1	9.5	5.1
Hours	5.0	5.5	4.0	8.6	8.6	-5.6	5.5	5.0	4.9	5.8	6.7	3.8
Compensation per hour	10.4	6.5	8.6	9.7	10.4	9.4	8.5	8.3	8.2	8.8	8.8	9.5
Real compensation per hour	2.4	-3.3	-0.2	0.4	-0.5	-3.7	1.8	1.1	0.1	-0.2	-0.9	-1.0
Unit labor costs	21.5	-2.2	1.8	10.3	15.1	5.7	8.3	8.4	7.4	7.5	6.0	8.1
NONDURABLE GOODS												
Output per hour of all persons	-3.2	2.7	8.0	4.3	1.7	2.8	2.1	1.4	1.6	2.9	4.2	4.2
Output	-1.3	7.5	3.7	6.2	6.3	1.2	3.7	3.0	2.9	4.0	5.9	4.3
Hours	2.0	4.6	-4.0	1.8	4.5	-1.6	1.6	1.7	1.3	1.1	1.7	0.1
Compensation per hour	13.0	6.8	9.3	7.8	9.9	10.5	8.6	3.8	9.0	9.2	8.4	9.3
Real compensation per hour	4.8	-3.0	0.4	-1.3	-1.0	-2.8	1.9	1.6	0.9	0.2	-1.2	-1.2
Unit labor costs	16.8	4.0	1.2	3.3	8.0	7.4	6.4	7.4	7.2	6.1	4.1	4.9
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	1.8	4.6	2.3	1.8	-1.8	N.A.	0.9	2.2	1.7	2.6	1.7	N.A.
Output	3.6	14.5	4.6	7.6	2.5	N.A.	4.6	6.7	6.1	7.5	7.2	N.A.
Hours	1.8	9.5	2.2	5.6	4.4	N.A.	3.6	4.3	4.3	4.7	5.4	N.A.
Compensation per hour	13.5	7.7	8.7	8.9	11.3	N.A.	9.0	9.2	9.2	9.6	9.1	N.A.
Real compensation per hour	5.2	-2.3	-0.2	-0.3	0.3	N.A.	2.3	2.0	1.1	0.6	-0.6	N.A.
Total unit costs	9.9	1.8	5.1	5.9	11.7	N.A.	7.3	6.2	6.4	5.6	6.1	N.A.
Unit labor costs	11.4	2.9	6.2	6.9	13.4	N.A.	8.0	6.8	7.4	6.8	7.3	N.A.
Unit nonlabor costs	5.6	-1.3	1.7	2.9	6.8	N.A.	5.5	4.3	3.5	2.2	2.5	N.A.
Unit profits	-40.8	111.3	11.4	19.5	-22.1	N.A.	-6.1	4.7	1.4	13.6	21.7	N.A.
Implicit price deflator	3.6	9.3	5.7	7.3	7.6	N.A.	6.0	6.0	5.8	6.4	7.5	N.A.

p=preliminary.
r=revised.

Footnote: The productivity and cost measures contained in this table incorporate the regular 3-year revisions of Gross National Product for the period since 1976 recently released by the Bureau of Economic Analysis of the U.S. Department of Commerce. In addition, new seasonal factors have been computed for the quarterly data. Copies of the historical measures showing the full effect of all revisions are available on request from the Office of Productivity and Technology, Bureau of Labor Statistics, Washington, D.C. 20212.

**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		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
ALABAMA	\$219.72	\$237.69	(*)	41.3	40.7	(*)	\$5.32	\$5.84	(*)
Birmingham	261.21	284.13	296.10	41.2	41.0	42.0	6.34	6.93	7.05
Mobile	263.56	307.73	323.95	40.3	42.8	43.6	6.54	7.19	7.43
ALASKA	448.70	(*)	(*)	49.8	(*)	(*)	9.01	(*)	(*)
ARIZONA	243.60	264.87	271.98	40.6	40.5	40.9	6.00	6.54	6.65
Phoenix	244.61	263.49	265.32	40.7	40.6	40.2	6.01	6.49	6.60
Tucson	224.40	245.88	250.39	39.3	38.6	38.7	5.71	6.37	6.47
ARKANSAS	185.54	203.78	205.60	39.9	39.8	40.0	4.65	5.12	5.14
Fayetteville-Springdale	165.36	187.78	186.19	39.0	41.0	40.3	4.24	4.58	4.62
Fort Smith	196.98	209.62	216.01	40.2	39.7	40.3	4.50	5.28	5.36
Little Rock-North Little Rock	213.31	232.18	232.36	41.5	40.1	40.2	5.14	5.79	5.78
Pine Bluff	255.52	263.30	272.61	42.8	41.4	42.2	5.97	6.36	6.46
CALIFORNIA	257.44	275.02	278.20	40.1	39.8	39.8	6.42	6.91	6.95
Anaheim-Santa Ana-Garden Grove	239.90	250.90	252.80	40.8	39.7	39.5	5.88	6.32	6.40
Bakersfield	275.02	310.16	295.14	39.8	41.3	39.3	6.91	7.51	7.51
Fresno	230.87	246.02	244.92	39.6	39.3	39.0	5.83	6.26	6.28
Los Angeles-Long Beach	240.98	258.24	262.10	40.5	40.1	40.2	5.95	6.44	6.52
Modesto	247.89	260.84	262.64	39.1	38.7	39.2	6.34	6.74	6.70
Oxnard-Simi Valley-Ventura	222.80	245.62	242.42	40.0	40.2	39.1	5.57	6.11	6.20
Riverside-San Bernardino-Ontario	264.11	280.99	290.24	40.2	39.8	40.2	6.57	7.06	7.22
Sacramento	269.35	287.63	295.62	38.7	38.3	39.0	6.96	7.51	7.58
Salinas-Seaside-Monterey	225.32	258.14	266.95	36.4	38.3	39.2	6.19	6.74	6.81
San Diego	241.57	247.96	253.84	38.9	37.4	38.0	6.21	6.63	6.68
San Francisco-Oakland	310.40	332.93	331.63	40.0	39.4	39.2	7.76	8.45	8.46
San Jose	272.28	293.30	292.40	40.1	40.4	40.0	6.79	7.26	7.31
Santa Barbara-Santa Maria-Lompoc	222.85	234.58	241.39	37.9	37.0	37.6	5.88	6.34	6.42
Santa Rosa	239.17	244.94	247.13	38.7	37.8	37.5	6.18	6.48	6.55
Stockton	266.44	289.52	291.82	37.9	38.5	38.6	7.03	7.52	7.56
Vallejo-Fairfield-Napa	264.62	285.01	297.22	38.8	37.6	38.6	6.82	7.58	7.70
COLORADO	240.40	257.66	270.27	38.9	38.4	40.1	6.18	6.71	6.74
Denver-Boulder	237.51	256.99	270.64	39.0	38.3	39.8	6.09	6.71	6.80
CONNECTICUT	249.40	262.70	266.68	42.2	41.5	41.8	5.91	6.33	6.38
Bridgeport	268.90	279.93	286.23	44.3	43.0	43.5	6.07	6.51	6.58
Hartford	271.78	294.63	297.46	42.8	42.7	42.8	6.35	6.90	6.95
New Britain	258.34	274.95	283.37	42.7	42.3	43.0	6.05	6.50	6.59
New Haven-West Haven	254.10	270.82	273.97	42.0	41.6	41.7	6.05	6.51	6.57
Stamford	250.67	271.36	273.06	42.2	42.6	42.8	5.94	6.37	6.38
Waterbury	221.45	227.55	234.05	43.0	41.0	42.4	5.15	5.55	5.52
DELAWARE	274.48	279.40	291.70	41.4	39.8	41.2	6.63	7.02	7.08
Wilmington	306.41	319.97	326.42	40.8	40.4	40.6	7.51	7.92	8.04
DISTRICT OF COLUMBIA:									
Washington SMSA	263.31	287.56	288.80	39.3	39.5	40.0	6.70	7.28	7.22
FLORIDA	205.18	220.45	223.17	41.2	40.9	41.1	4.98	5.39	5.43
Fort Lauderdale-Hollywood	194.21	214.11	211.46	40.8	41.9	41.3	4.76	5.11	5.12
Jacksonville	247.63	254.62	244.19	41.9	41.2	39.9	5.91	6.18	6.12
Miami	175.24	198.58	202.59	40.1	41.2	41.6	4.37	4.82	4.87
Orlando	224.61	214.52	223.72	42.3	39.8	40.9	5.31	5.39	5.47
Pensacola	265.74	295.68	302.85	43.0	44.0	44.8	6.18	6.72	6.76
Tampa-St. Petersburg	213.31	223.11	234.48	41.1	39.7	41.5	5.19	5.62	5.65
West Palm Beach-Boca Raton	231.02	229.15	225.67	41.7	36.9	37.3	5.54	6.21	6.05
GEORGIA	196.66	209.56	210.71	40.8	40.3	40.6	4.82	5.20	5.19
Atlanta	232.76	247.73	247.63	40.2	39.7	40.2	5.79	6.24	6.16
Savannah	265.86	290.38	300.76	42.2	43.6	43.4	6.30	6.66	6.93
HAWAII	210.92	249.74	237.26	37.8	38.6	37.6	5.58	6.47	6.31
Honolulu	205.16	245.38	229.42	36.9	38.4	36.3	5.56	6.39	6.32
IDAHO	284.54	254.70	281.06	41.0	38.3	39.2	6.94	6.65	7.17
Boise City	242.18	236.01	(*)	37.9	38.5	(*)	6.39	6.13	(*)

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		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
ILLINOIS	\$273.88	\$293.29	\$298.73	40.5	40.6	41.0	\$6.77	\$7.22	\$7.28
Bloomington—Normal	229.70	275.64	265.17	39.6	42.8	41.6	5.79	6.43	6.38
Champaign—Urbana—Rantoul	247.22	250.90	249.91	37.3	37.8	37.4	6.62	6.64	6.66
Chicago SMSA	269.96	282.64	284.81	41.3	40.3	40.7	6.54	7.01	7.01
Davenport—Rock Island—Moline	286.63	330.07	341.20	39.5	38.5	39.4	7.26	8.57	8.65
Decatur	295.72	318.84	332.15	41.1	41.1	41.5	7.19	7.76	8.01
Peoria	309.38	351.78	373.08	37.8	39.4	40.1	8.19	8.93	9.30
Rockford	277.41	301.99	298.62	41.7	42.4	41.8	6.65	7.12	7.14
Springfield	300.88	323.60	332.86	41.4	41.8	43.2	7.26	7.73	7.71
INDIANA	294.94	310.75	317.42	41.6	40.2	40.8	7.09	7.73	7.78
Gary—Hammond—East Chicago	388.41	418.14	(*)	41.9	41.4	(*)	9.27	10.10	(*)
Indianapolis	296.80	310.08	(*)	42.4	40.8	(*)	7.00	7.60	(*)
IOWA	275.31	304.80	311.40	39.9	40.0	40.6	6.90	7.62	7.67
Cedar Rapids	275.41	316.52	313.34	39.4	41.0	40.8	6.99	7.72	7.68
Des Moines	277.97	300.58	311.20	38.5	38.0	38.9	7.22	7.91	8.00
Dubuque	340.31	359.70	367.64	41.1	40.1	40.4	8.28	8.97	9.10
Sioux City	245.24	281.52	288.98	38.2	40.8	41.7	6.42	6.90	6.93
Waterloo—Cedar Falls	356.07	397.95	411.08	41.5	42.2	43.0	8.58	9.43	9.56
KANSAS	(*)	271.06	273.77	(*)	40.7	40.8	(*)	6.66	6.71
Topeka	(*)	271.93	249.61	(*)	41.9	37.2	(*)	6.49	6.71
Wichita	(*)	289.12	293.44	(*)	41.6	42.1	(*)	6.95	6.97
KENTUCKY	247.16	269.17	267.30	39.8	39.7	39.6	6.21	6.78	6.75
Louisville	286.62	305.56	306.99	41.3	40.1	40.5	6.94	7.62	7.58
LOUISIANA	267.34	287.60	285.19	42.3	41.5	40.8	6.32	6.93	6.99
Baton Rouge	333.10	356.16	363.91	43.6	42.4	40.3	7.64	8.40	9.03
New Orleans	253.31	264.92	264.21	40.4	39.6	39.2	6.27	6.69	6.74
Shreveport	237.80	251.07	254.29	41.5	40.3	40.3	5.73	6.23	6.31
MAINE	196.58	209.08	210.27	40.2	39.9	39.9	4.89	5.24	5.27
Lewiston—Auburn	164.74	171.75	177.63	39.6	37.5	38.7	4.16	4.58	4.59
Portland	198.09	206.06	207.24	40.1	39.1	35.4	4.54	5.27	5.26
MARYLAND	259.13	278.30	280.10	40.3	39.7	39.9	6.43	7.01	7.02
Baltimore	276.62	296.68	299.70	40.8	40.2	40.5	6.78	7.38	7.40
MASSACHUSETTS	225.50	233.64	(*)	41.0	39.6	(*)	5.50	5.90	(*)
Boston	247.64	259.53	(*)	41.0	40.3	(*)	6.04	6.44	(*)
Brockton	172.80	182.78	(*)	38.4	38.0	(*)	4.50	4.81	(*)
Fall River	164.05	173.88	(*)	37.2	36.3	(*)	4.41	4.79	(*)
Lawrence—Haverhill	220.99	231.28	(*)	40.4	39.4	(*)	5.47	5.87	(*)
Lowell	201.14	209.75	(*)	40.8	39.5	(*)	4.93	5.31	(*)
New Bedford	191.58	208.96	(*)	39.5	39.5	(*)	4.85	5.29	(*)
Springfield—Chicopee—Holyoke	229.19	231.64	(*)	41.9	39.8	(*)	5.47	5.82	(*)
Worcester	231.28	246.43	(*)	41.3	40.2	(*)	5.60	6.13	(*)
MICHIGAN	344.23	362.49	(*)	42.9	41.3	(*)	8.02	8.78	(*)
Ann Arbor	373.80	425.79	(*)	43.4	45.1	(*)	8.61	9.44	(*)
Battle Creek	340.52	346.35	(*)	42.3	41.1	(*)	8.05	8.43	(*)
Bay City	338.87	318.64	(*)	43.4	41.2	(*)	7.81	7.73	(*)
Detroit	380.57	400.86	(*)	42.9	42.9	(*)	8.87	9.34	(*)
Flint	399.91	433.10	(*)	45.6	44.7	(*)	8.77	9.69	(*)
Grand Rapids	274.44	286.31	(*)	41.6	40.1	(*)	6.60	7.14	(*)
Jackson	314.21	298.60	(*)	44.1	40.0	(*)	7.13	7.47	(*)
Kalamazoo—Portage	294.15	316.21	(*)	40.6	40.2	(*)	7.25	7.87	(*)
Lansing—East Lansing	353.72	355.41	(*)	42.0	42.9	(*)	8.42	9.22	(*)
Muskegon—Norton Shores—Muskegon Heights	291.62	304.74	(*)	41.3	40.6	(*)	7.06	7.51	(*)
Saginaw	412.59	419.78	(*)	44.9	43.5	(*)	9.19	9.65	(*)
MINNESOTA	255.04	273.24	272.05	40.1	39.6	39.6	6.36	6.90	6.87
Duluth—Superior	236.59	268.13	265.20	39.3	39.9	39.7	6.02	6.72	6.68
Minneapolis—St. Paul	276.48	290.54	290.87	40.9	39.8	39.9	6.76	7.30	7.29
MISSISSIPPI	181.60	196.71	199.17	40.0	39.9	40.4	4.54	4.93	4.93
Jackson	204.85	228.77	232.10	41.3	41.9	42.2	4.96	5.46	5.50

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		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
MISSOURI	\$248.84	\$262.15	\$265.47	40.2	39.6	39.8	\$6.19	\$6.62	\$6.67
Kansas City	281.26	302.80	305.56	41.0	40.0	40.1	6.86	7.57	7.62
St. Joseph	218.67	248.25	252.13	39.4	40.3	40.6	5.55	6.16	6.21
St. Louis	293.41	301.32	304.16	41.5	40.5	40.5	7.07	7.44	7.51
Springfield	206.80	234.02	239.80	38.8	39.8	40.1	5.33	5.88	5.98
MONTANA	343.54	353.90	375.30	44.5	43.8	45.0	7.72	8.08	8.34
NEBRASKA	235.91	267.80	268.55	41.1	41.2	41.7	5.74	6.50	6.44
Lincoln	224.58	257.68	258.86	38.0	39.4	39.4	5.91	6.54	6.57
Omaha	250.48	280.57	280.57	40.4	40.9	40.9	6.20	6.86	6.86
NEVADA	258.46	253.70	257.18	39.4	37.2	38.1	6.56	6.82	6.75
Las Vegas	323.18	354.99	(*)	40.6	39.4	(*)	7.96	9.01	(*)
NEW HAMPSHIRE	196.83	210.40	213.19	40.5	40.0	40.3	4.86	5.26	5.29
Manchester	176.40	187.20	189.64	39.2	39.0	39.1	4.50	4.80	4.85
Nashua	222.38	235.18	237.48	41.8	40.9	41.3	5.32	5.75	5.75
NEW JERSEY	255.42	273.73	271.88	41.6	41.6	41.7	6.14	6.58	6.52
Atlantic City	174.50	195.94	192.23	38.1	38.8	38.6	4.58	5.05	4.98
Camden ²	252.13	263.09	267.55	40.6	40.6	40.6	6.21	6.48	6.59
Hackensack ³	247.54	259.55	261.44	43.2	42.9	43.0	5.73	6.05	6.08
Jersey City ³	246.23	262.60	269.37	40.3	40.4	41.0	6.11	6.50	6.57
New Brunswick—Perth Amboy—Sayreville ³	270.03	299.62	(*)	41.1	41.1	(*)	6.57	7.29	(*)
Newark ³	259.49	277.02	276.78	42.4	42.1	42.0	6.12	6.58	6.59
Paterson—Clifton—Passaic ¹	244.08	258.75	259.36	41.3	41.4	41.3	5.91	6.25	6.28
Trenton	260.48	276.49	279.16	40.7	40.6	40.4	6.40	6.81	6.91
NEW MEXICO	184.55	210.40	208.03	39.1	40.0	39.7	4.72	5.26	5.24
Albuquerque	183.14	217.76	213.47	38.8	40.4	39.9	4.72	5.39	5.35
NEW YORK	240.39	256.10	(*)	39.8	39.4	(*)	6.04	6.50	(*)
Albany—Schenectady—Troy	260.09	268.09	(*)	40.2	39.6	(*)	6.47	6.77	(*)
Binghamton	225.09	237.46	(*)	41.3	40.8	(*)	5.45	5.82	(*)
Buffalo	316.11	340.68	(*)	41.0	40.8	(*)	7.71	8.35	(*)
Elmira	244.22	265.03	(*)	40.3	40.9	(*)	6.06	6.48	(*)
Monroe County ⁴	312.06	346.09	(*)	42.0	41.9	(*)	7.43	8.26	(*)
Nassau—Suffolk ⁵	222.55	241.13	(*)	39.6	39.4	(*)	5.62	6.12	(*)
New York—Northeastern New Jersey	230.22	244.73	(*)	39.9	39.6	(*)	5.77	6.18	(*)
New York and Nassau—Suffolk ³	209.72	222.09	(*)	38.2	37.9	(*)	5.49	5.86	(*)
New York SMSA ⁵	206.93	217.13	(*)	37.9	37.5	(*)	5.46	5.79	(*)
New York City ⁶	202.33	212.95	(*)	37.4	37.1	(*)	5.41	5.74	(*)
Poughkeepsie	240.44	258.74	(*)	41.1	41.8	(*)	5.85	6.19	(*)
Rochester	295.24	326.61	(*)	41.7	41.5	(*)	7.08	7.87	(*)
Rockland County ⁶	246.08	242.19	(*)	42.5	39.9	(*)	5.79	6.07	(*)
Syracuse	267.80	287.23	(*)	41.2	40.8	(*)	6.50	7.04	(*)
Utica—Rome	231.42	240.39	(*)	40.6	39.8	(*)	5.70	6.04	(*)
Westchester County ⁶	248.46	252.15	(*)	42.4	41.0	(*)	5.86	6.15	(*)
NORTH CAROLINA	176.80	188.42	192.40	40.0	39.5	40.0	4.42	4.77	4.81
Asheville	176.26	185.54	188.47	40.8	39.9	40.1	4.32	4.65	4.70
Charlotte—Gastonia	182.82	193.73	196.80	40.9	40.7	41.0	4.47	4.76	4.80
Greensboro—Winston-Salem—High Point	194.49	204.22	209.35	40.1	39.5	39.8	4.85	5.17	5.26
Raleigh—Durham	204.00	216.40	216.11	40.8	40.0	39.8	5.00	5.41	5.43
NORTH DAKOTA	225.33	230.49	232.80	40.6	39.4	40.0	5.55	5.85	5.82
Fargo—Moorhead	249.04	248.82	255.91	41.3	39.0	39.8	6.03	6.38	6.43
OHIO	308.85	323.75	325.78	42.6	41.4	41.5	7.25	7.82	7.85
Akron	305.73	314.23	314.99	42.7	41.4	41.5	7.16	7.59	7.59
Canton	303.00	324.82	324.41	40.4	40.3	40.4	7.50	8.06	8.03
Cincinnati	289.00	300.25	300.66	42.5	41.3	41.3	6.80	7.27	7.28
Cleveland	320.85	340.43	340.43	43.3	42.5	42.5	7.41	8.01	8.01
Columbus	262.20	278.80	283.39	40.4	40.0	40.6	6.49	6.97	6.98
Dayton	318.38	344.29	345.49	43.2	42.4	42.6	7.37	8.12	8.11
Toledo	320.03	326.03	327.24	42.9	40.5	40.5	7.46	8.05	8.08
Youngstown—Warren	361.25	385.40	379.32	42.5	41.0	40.7	8.50	9.40	9.32

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		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
OKLAHOMA	\$234.67	\$256.94	\$258.56	40.6	40.4	40.4	\$5.78	\$6.36	\$6.40
Oklahoma City	229.07	260.21	262.50	39.7	41.5	41.6	5.77	6.27	6.31
Tulsa	252.50	277.67	279.97	40.4	40.3	40.4	6.25	6.89	6.93
OREGON	292.47	302.62	315.99	39.9	39.2	39.4	7.33	7.72	8.02
Eugene—Springfield	336.04	322.26	(*)	41.9	39.3	(*)	8.02	8.20	(*)
Jackson County	287.60	302.63	(*)	38.5	38.7	(*)	7.47	7.82	(*)
Portland	268.66	290.61	(*)	38.6	38.8	(*)	6.96	7.49	(*)
PENNSYLVANIA	254.52	273.14	278.29	40.4	39.7	40.1	6.30	6.88	6.94
Allentown—Bethlehem—Easton	245.38	265.17	269.22	38.4	37.4	37.6	6.39	7.09	7.16
Altoona	213.62	234.43	234.61	38.7	39.6	39.9	5.52	5.92	5.86
Delaware Valley	263.81	278.80	279.70	40.4	40.0	39.9	6.53	6.97	7.01
Erie	259.38	276.34	278.66	41.5	41.0	41.1	6.25	6.74	6.78
Harrisburg	227.61	258.85	262.22	40.5	40.7	41.1	5.62	6.36	6.38
Johnstown	269.74	292.00	295.46	40.2	39.3	39.5	6.71	7.43	7.48
Lancaster	222.15	244.80	248.05	40.1	40.8	41.0	5.54	6.00	6.05
Northeast Pennsylvania	183.77	194.18	198.86	37.2	36.5	37.1	4.94	5.32	5.36
Philadelphia SMSA	261.79	276.69	278.00	40.4	40.1	40.0	6.48	6.90	6.95
Pittsburgh	310.54	342.31	346.90	40.7	40.8	41.2	7.63	8.39	8.42
Reading	225.81	237.25	243.57	39.0	37.9	38.6	5.79	6.26	6.31
Scranton	193.50	197.10	204.34	38.7	37.4	38.7	5.00	5.27	5.28
Wilkes-Barre—Hazleton	176.04	191.89	195.47	36.0	35.8	35.8	4.89	5.36	5.46
Williamsport	222.88	240.34	237.37	39.8	39.4	39.3	5.60	6.10	6.04
York	237.72	250.71	257.27	42.0	41.1	41.9	5.66	6.10	6.14
RHODE ISLAND	183.21	194.16	197.96	39.4	38.6	39.2	4.65	5.03	5.05
Providence—Warwick—Pawtucket	185.00	193.00	197.68	39.7	38.6	39.3	4.66	5.00	5.03
SOUTH CAROLINA	187.37	201.28	202.10	41.0	40.5	40.5	4.57	4.97	4.99
Charleston—North Charleston	219.34	235.57	231.34	42.1	41.4	40.8	5.21	5.69	5.67
Columbia	184.00	200.70	203.03	39.4	39.2	39.5	4.67	5.12	5.14
Greenville—Spartanburg	187.05	200.56	203.18	41.2	40.6	40.8	4.54	4.94	4.98
SOUTH DAKOTA	210.43	234.78	236.59	41.1	42.0	42.4	5.12	5.59	5.58
Rapid City	194.24	195.81	183.33	39.4	36.6	33.7	4.93	5.35	5.44
Sioux Falls	258.94	320.62	323.18	42.8	46.0	46.5	6.05	6.97	6.95
TENNESSEE	204.62	211.92	216.26	40.2	39.1	39.9	5.09	5.42	5.42
Chattanooga	209.20	225.74	228.17	40.7	40.6	40.6	5.14	5.56	5.62
Knoxville	240.13	253.92	259.03	40.7	39.8	40.6	5.90	6.38	6.38
Memphis	239.78	252.72	259.26	41.2	40.5	40.7	5.82	6.24	6.37
Nashville—Davidson	218.54	233.81	236.74	40.1	39.9	40.5	5.45	5.86	5.66
TEXAS	242.69	259.75	263.11	41.7	41.1	41.5	5.82	6.32	6.34
Amarillo	223.10	233.69	256.17	41.7	40.5	45.1	5.35	5.77	5.68
Austin	190.83	205.03	201.96	42.5	42.1	41.3	4.49	4.87	4.69
Beaumont—Port Arthur—Orange	344.79	360.00	(*)	40.9	40.0	(*)	8.43	9.00	(*)
Corpus Christi	289.20	297.15	319.27	43.1	41.1	42.4	6.71	7.23	7.53
Dallas—Fort Worth	225.22	241.76	249.64	41.4	40.7	41.4	5.44	5.94	6.03
El Paso	177.41	192.44	198.08	39.6	40.6	41.7	4.48	4.74	4.75
Galveston—Texas City	398.74	409.10	403.42	43.2	43.2	42.6	9.23	9.47	9.47
Houston	302.67	328.32	329.84	43.3	43.2	43.4	6.99	7.60	7.60
Lubbock	181.75	197.54	199.50	40.3	41.5	42.0	4.51	4.76	4.75
San Antonio	174.66	186.80	190.62	38.9	40.0	40.3	4.49	4.67	4.73
Waco	202.40	214.79	223.00	40.4	38.7	39.4	5.01	5.55	5.66
Wichita Falls	209.88	228.97	237.58	39.6	40.1	40.2	5.30	5.71	5.91
UTAH	221.82	236.07	236.23	39.4	38.7	38.6	5.63	6.10	6.12
Salt Lake City—Ogden	212.53	225.98	224.45	39.8	39.3	38.9	5.34	5.75	5.77
VERMONT	207.36	221.95	221.13	40.9	40.8	40.5	5.07	5.44	5.46
Burlington	238.65	248.56	245.95	43.0	42.2	41.9	5.55	5.89	5.87
Springfield	244.80	261.64	263.34	42.5	42.2	42.0	5.76	6.20	6.27
VIRGINIA	201.30	211.92	223.30	40.1	39.1	40.6	5.02	5.42	5.50
Bristol	181.98	192.84	200.02	37.6	37.3	36.1	4.84	5.17	5.25
Lynchburg	207.16	214.26	217.62	40.7	39.9	40.3	5.09	5.37	5.40
Norfolk—Virginia Beach—Portsmouth	236.32	252.96	267.76	42.2	40.8	42.3	5.60	6.20	6.33
Northern Virginia ¹⁰	240.54	246.98	249.42	40.7	39.9	40.1	5.91	6.19	6.22
Petersburg-Colonial Heights-Hopewell	245.74	265.38	278.40	39.7	39.2	40.0	6.19	6.77	6.96

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		
	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P	JUNE 1978	MAY 1979	JUNE 1979P
VIRGINIA—Continued									
Richmond	\$251.53	\$276.08	\$281.11	40.7	40.9	40.8	\$6.18	\$6.75	\$6.89
Roanoke	183.01	202.29	197.85	40.4	39.9	39.1	4.53	5.07	5.06
WASHINGTON	300.89	317.81	(*)	39.8	38.9	(*)	7.56	8.17	(*)
Seattle—Everett ¹¹	304.04	321.97	(*)	39.9	39.7	(*)	7.62	8.11	(*)
Spokane ¹¹	256.96	285.01	(*)	39.9	37.8	(*)	6.44	7.54	(*)
Tacoma ¹¹	314.01	293.45	(*)	39.9	35.7	(*)	7.87	8.22	(*)
WEST VIRGINIA	260.43	298.10	(*)	39.4	39.8	(*)	6.61	7.49	(*)
Charleston	308.74	323.40	(*)	43.0	42.0	(*)	7.18	7.70	(*)
Huntington—Ashland	292.66	303.38	(*)	40.2	39.4	(*)	7.28	7.70	(*)
Parkersburg—Marietta	288.43	304.41	(*)	41.5	41.7	(*)	6.95	7.30	(*)
Wheeling	276.51	304.56	(*)	39.9	40.5	(*)	6.93	7.52	(*)
WISCONSIN	270.97	292.66	293.08	41.1	40.9	40.9	6.60	7.16	7.16
Appleton—Oshkosh	272.18	293.23	295.28	42.5	42.0	42.2	6.41	6.99	7.01
Eau Claire	279.15	238.28	256.57	42.2	34.7	40.3	6.61	6.87	6.36
Green Bay	284.77	303.57	302.19	42.1	41.5	41.5	6.76	7.31	7.27
Kenosha	302.36	350.95	359.21	40.0	41.9	41.9	7.56	8.38	8.58
La Crosse	219.69	243.58	231.58	40.7	41.2	39.6	5.40	5.92	5.85
Madison	273.31	288.31	289.25	39.9	39.8	40.2	6.85	7.24	7.20
Milwaukee	294.98	318.57	319.31	40.8	40.9	40.9	7.23	7.80	7.81
Racine	287.97	315.81	316.08	41.0	41.9	41.9	7.03	7.55	7.55
WYOMING	236.93	243.46	245.16	38.4	37.0	36.7	6.17	6.58	6.68
Casper	267.08	318.20	308.27	38.1	40.9	38.2	7.01	7.78	8.07
Cheyenne	288.68	(*)	(*)	39.6	(*)	(*)	7.29	(*)	(*)

¹ Data for 1979 are not strictly comparable with earlier years.

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

³ Subarea of New York—Northeastern New Jersey.

⁴ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁶ Subarea of New York Standard Metropolitan Statistical Area.

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

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

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

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

¹¹ Revised to 1978 benchmark; not strictly comparable with previously published data.

p=preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA LABOR TURNOVER

D-1. Labor turnover rates in manufacturing, 1969 to date

(Per 100 employees)

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.5	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	3.8	4.7	P 4.8						
New hires													
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.5	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	2.9	3.6	P 3.8						
Recalls													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.9	1.1	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	.9	.9	.8	.6	.6	.5
1978	.7	1.0	.7	.8	.8	.8	P .7	.8	.9	.8	.5	.5	.5
1979	-	.9	.6	.7	.7	.8							
Total separations													
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.7
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	3.6	3.7	P 4.0						
Quits													
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.3	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	1.9	2.1	P 2.1						
Layoffs													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.5	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	.8	.7	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	
		May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P
-	MANUFACTURING	4.7	4.8	3.6	3.8	0.8	0.7	3.7	4.0	2.1	2.1	0.7	0.9
24, 25, 32-39	DURABLE GOODS	4.3	4.4	3.3	3.5	.7	.5	3.4	3.6	1.8	1.9	.6	.7
20-23, 26-31	NONDURABLE GOODS	5.2	5.4	4.0	4.3	1.0	.9	4.3	4.5	2.6	2.5	.9	1.1
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	7.7	7.4	6.0	6.1	1.5	1.2	5.5	5.7	3.8	3.6	.6	.9
242	Sawmills and planing mills	5.9	-	4.6	-	1.0	-	4.5	-	3.0	-	.5	-
2421	Sawmills and planing mills, general	5.6	-	4.2	-	1.1	-	3.9	-	2.7	-	.4	-
243	Millwork, plywood, and structural members	6.5	-	5.9	-	.5	-	5.6	-	3.6	-	.7	-
2431	Millwork	6.0	-	5.1	-	.7	-	5.5	-	3.6	-	.8	-
244	Wooden containers	9.9	-	9.2	-	.6	-	9.5	-	7.9	-	.3	-
245	Wood buildings and mobile homes	11.2	-	9.4	-	1.7	-	8.4	-	5.8	-	.7	-
2451	Mobile homes	11.8	-	10.8	-	.9	-	9.8	-	6.7	-	.8	-
249	Miscellaneous wood products	6.6	-	5.7	-	.6	-	5.5	-	4.0	-	.4	-
25	FURNITURE AND FIXTURES	6.2	4.9	5.3	4.4	.6	.3	6.0	4.9	3.7	3.1	1.0	.6
251	Household furniture	6.5	-	5.7	-	.5	-	6.5	-	4.2	-	.9	-
2511	Wood household furniture	6.7	-	6.2	-	.2	-	6.5	-	4.9	-	.2	-
2512	Upholstered household furniture	5.4	-	4.8	-	.5	-	5.1	-	3.5	-	.5	-
2515	Mattresses and bedsprings	7.0	-	6.4	-	.5	-	6.8	-	4.3	-	1.0	-
252	Office furniture	5.0	-	3.6	-	1.3	-	5.4	-	2.3	-	2.4	-
254	Partitions and fixtures	6.9	-	6.0	-	.7	-	5.8	-	3.5	-	1.1	-
32	STONE, CLAY, AND GLASS PRODUCTS	5.4	5.0	4.1	4.1	1.1	.7	3.5	4.0	2.1	2.2	.5	.9
322	Glass and glassware, pressed or blown	3.5	-	2.2	-	1.0	-	2.8	-	1.2	-	.8	-
3221	Glass containers	3.2	-	2.2	-	.7	-	2.5	-	1.3	-	.5	-
3229	Pressed and blown glass, nec	4.0	-	2.1	-	1.3	-	3.1	-	1.0	-	1.1	-
323	Products of purchased glass	5.5	-	4.0	-	1.2	-	4.0	-	2.4	-	.4	-
324	Cement, hydraulic	2.8	-	2.4	-	.3	-	1.1	-	.4	-	.1	-
325	Structural clay products	7.2	-	6.3	-	.8	-	5.2	-	3.8	-	.4	-
326	Pottery and related products	4.1	-	3.6	-	.3	-	2.9	-	1.7	-	.3	-
327	Concrete, gypsum, and plaster products	7.7	-	5.7	-	1.9	-	4.3	-	2.9	-	.5	-
329	Misc. nonmetallic mineral products	4.2	-	3.6	-	.3	-	3.2	-	1.7	-	.5	-
33	PRIMARY METAL INDUSTRIES	3.4	3.1	2.5	2.5	.6	.3	2.2	2.3	1.0	1.1	.3	.3
331	Blast furnace and basic steel products	3.3	-	1.9	-	1.0	-	1.6	-	.4	-	.3	-
3312	Blast furnaces and steel mills	3.3	-	1.8	-	1.0	-	1.5	-	.2	-	.3	-
332	Iron and steel foundries	3.7	-	3.2	-	.3	-	3.1	-	1.8	-	.2	-
3321	Gray iron foundries	3.7	-	3.1	-	.3	-	3.1	-	1.9	-	.3	-
3325	Steel foundries, nec	3.9	-	3.4	-	.3	-	3.2	-	1.6	-	.3	-
333	Primary nonferrous metals	2.8	-	2.3	-	.2	-	1.4	-	.6	-	.2	-
335	Nonferrous rolling and drawing	2.7	-	2.3	-	.1	-	1.7	-	.8	-	.2	-
3351	Copper rolling and drawing	3.7	-	3.2	-	.1	-	1.8	-	1.0	-	.1	-
3353	Aluminum sheet, plate, and foil	1.5	-	1.2	-	.1	-	.8	-	.2	-	.3	-
3357	Nonferrous wire drawing and insulating	2.1	-	1.7	-	.2	-	1.6	-	.7	-	.2	-
336	Nonferrous foundries	4.5	-	3.4	-	.7	-	4.4	-	2.2	-	.8	-
3361	Aluminum foundries	4.2	-	3.3	-	.5	-	3.7	-	2.1	-	.3	-
34	FABRICATED METAL PRODUCTS	4.9	4.7	3.8	3.9	.8	.6	4.0	3.9	2.2	2.2	.8	.7
341	Metal cans and shipping containers	5.0	-	2.3	-	2.2	-	4.0	-	1.2	-	1.9	-
3411	Metal cans	4.7	-	1.6	-	2.5	-	3.7	-	.8	-	2.1	-
342	Cutlery, hand tools, and hardware	4.1	-	3.4	-	.6	-	3.8	-	1.8	-	1.1	-
3423, 5	Hand and edge tools, and hand saws and blades	3.8	-	3.4	-	.2	-	3.2	-	1.9	-	.4	-
3429	Hardware, nec	4.4	-	3.4	-	.8	-	4.4	-	1.8	-	1.6	-
343	Plumbing and heating, except electric	4.2	-	3.6	-	.5	-	3.8	-	2.0	-	.8	-
344	Fabricated structural metal products	5.7	-	4.5	-	1.0	-	4.4	-	2.6	-	.8	-
3441	Fabricated structural metal	6.2	-	5.1	-	.9	-	4.9	-	2.8	-	1.0	-
3442	Metal doors, sash, and trim	7.9	-	5.5	-	2.3	-	5.7	-	3.4	-	1.0	-
3443	Fabricated plate work (boiler shops)	3.1	-	3.6	-	.4	-	2.8	-	1.6	-	.5	-
3444	Sheet metal work	6.4	-	5.3	-	.9	-	4.6	-	2.8	-	1.0	-
345	Screw machine products, bolts, etc.	4.7	-	4.2	-	.3	-	4.3	-	2.8	-	.3	-
3451	Screw machine products	5.8	-	5.3	-	.4	-	4.9	-	3.6	-	.1	-
3452	Bolts, nuts, rivets, and washers	3.7	-	3.3	-	.3	-	3.7	-	2.1	-	.5	-
346	Metal forgings and stampings	4.5	-	3.3	-	.6	-	3.5	-	1.6	-	.9	-
3462	Iron and steel forgings	3.3	-	2.7	-	.4	-	2.2	-	1.8	-	.4	-
3465	Automotive stampings	4.2	-	2.1	-	.7	-	3.1	-	.9	-	1.3	-
3469	Metal stampings, nec	5.5	-	4.7	-	.6	-	4.6	-	2.6	-	.9	-
347	Metal services, nec	6.2	-	5.0	-	1.1	-	5.7	-	3.5	-	.9	-
348	Ordinance and accessories, nec	2.3	-	1.8	-	.3	-	1.9	-	.9	-	.4	-
349	Misc. fabricated metal products	4.6	-	3.9	-	.5	-	3.7	-	2.4	-	.5	-
349A	Valves and pipe fittings	3.6	-	3.1	-	.2	-	2.9	-	1.7	-	.6	-
349B	Misc. fabricated wire products	6.8	-	5.9	-	.7	-	5.7	-	4.1	-	.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P
35	MACHINERY, EXCEPT ELECTRICAL	3.2	3.8	2.7	3.3	0.2	0.3	2.6	2.9	1.5	1.6	0.3	0.4
351	Engines and turbines	2.6	-	1.4	-	.3	-	2.3	-	.6	-	.5	-
3511	Turbines and turbine generator sets	1.2	-	.4	-	.1	-	2.0	-	.5	-	.6	-
3519	Internal combustion engines, nec	3.2	-	1.9	-	.4	-	2.4	-	.7	-	.5	-
352	Farm and garden machinery	4.0	-	3.3	-	.4	-	3.0	-	1.8	-	.3	-
3523	Farm machinery and equipment	4.0	-	3.3	-	.4	-	3.0	-	1.7	-	.3	-
353	Construction and related machinery	2.6	-	2.3	-	.2	-	2.2	-	1.3	-	.3	-
3531	Construction machinery	1.8	-	1.4	-	.2	-	1.5	-	.7	-	.2	-
3533	Oil field machinery	3.9	-	3.4	-	.1	-	3.5	-	2.3	-	.3	-
354	Metalworking machinery	3.1	-	2.6	-	.3	-	2.3	-	1.4	-	.2	-
3541	Machine tools, metal cutting types	2.5	-	2.2	-	.2	-	1.6	-	.9	-	(¹)	-
3544	Special dies, tools, jigs, and fixtures	3.3	-	2.8	-	.3	-	2.8	-	1.7	-	.3	-
3545	Machine tool accessories	3.5	-	3.2	-	.2	-	2.4	-	1.4	-	.1	-
355	Special industry machinery	2.6	-	2.3	-	.1	-	2.3	-	1.4	-	.2	-
3551	Food products machinery	2.6	-	2.4	-	.1	-	2.2	-	1.3	-	.3	-
3552	Textile machinery	3.4	-	2.8	-	.3	-	3.5	-	2.0	-	.4	-
356	General industrial machinery	3.2	-	2.6	-	.3	-	2.5	-	1.3	-	.4	-
3561	Pumps and pumping equipment	2.8	-	2.6	-	.1	-	2.2	-	1.4	-	.2	-
3562	Ball and roller bearings	2.6	-	1.8	-	.1	-	1.5	-	.7	-	.1	-
3564	Blowers and fans	4.0	-	3.4	-	.4	-	3.5	-	1.9	-	.8	-
357	Office and computing machines	3.1	-	2.7	-	.1	-	2.1	-	1.3	-	.1	-
3573	Electronic computing equipment	3.0	-	2.7	-	.1	-	1.9	-	1.2	-	.1	-
358	Refrigeration and service machinery	3.5	-	2.9	-	.4	-	3.2	-	1.6	-	.7	-
3585	Refrigeration and heating equipment	3.7	-	2.9	-	.4	-	3.4	-	1.5	-	.8	-
359	Misc. machinery, except electrical	4.2	-	3.8	-	.3	-	3.8	-	2.4	-	.5	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	4.0	4.1	3.0	3.3	.6	.4	3.1	3.3	1.7	1.8	.4	.
361	Electric distributing equipment	3.6	-	2.7	-	.3	-	3.2	-	1.5	-	.3	-
3612	Transformers	3.6	-	2.4	-	.4	-	2.8	-	1.3	-	.1	-
3613	Switchgear and switchboard apparatus	3.7	-	3.0	-	.2	-	3.5	-	1.6	-	.5	-
362	Electrical industrial apparatus	3.4	-	2.6	-	.4	-	2.8	-	1.5	-	.4	-
3621	Motors and generators	3.3	-	2.5	-	.4	-	2.8	-	1.4	-	.4	-
3622	Industrial controls	3.3	-	2.6	-	.5	-	2.6	-	1.4	-	.3	-
363	Household appliances	6.2	-	4.1	-	1.2	-	4.3	-	1.8	-	.8	-
3632	Household refrigerators and freezers	10.4	-	7.1	-	2.0	-	5.5	-	1.5	-	1.4	-
3633	Household laundry equipment	3.6	-	2.3	-	.5	-	1.9	-	.9	-	(¹)	-
3634	Electric housewares and fans	5.9	-	4.2	-	1.4	-	4.7	-	2.8	-	.6	-
364	Electric lighting and wiring equipment	4.0	-	3.1	-	.5	-	3.5	-	2.0	-	.5	-
3641	Electric lamps	2.1	-	1.4	-	.2	-	1.8	-	.8	-	(¹)	-
3643	Current-carrying wiring devices	4.6	-	3.6	-	.6	-	3.4	-	2.0	-	.6	-
365	Radio and TV receiving equipment	7.2	-	2.4	-	3.7	-	5.6	-	2.2	-	1.7	-
3651	Radio and TV receiving sets	7.3	-	2.6	-	3.3	-	6.0	-	2.2	-	1.8	-
366	Communication equipment	2.3	-	1.9	-	.1	-	1.8	-	1.0	-	.2	-
3661	Telephone and telegraph apparatus	1.6	-	1.3	-	.1	-	1.2	-	.6	-	.1	-
3662	Radio and TV communication equipment	2.6	-	2.2	-	.1	-	2.1	-	1.2	-	.2	-
367	Electronic components and accessories	5.1	-	4.4	-	.4	-	3.7	-	2.4	-	.2	-
3671-3	Electronic tubes	3.2	-	2.1	-	.4	-	2.5	-	.9	-	.4	-
3674	Semiconductors and related devices	4.0	-	3.6	-	.2	-	2.6	-	1.7	-	.1	-
3679	Electronic components, nec	5.9	-	5.1	-	.5	-	4.4	-	3.1	-	.2	-
369	Misc. electrical equipment and supplies	2.9	-	1.8	-	.4	-	2.7	-	1.3	-	.4	-
3694	Engine electrical equipment	2.4	-	1.0	-	.6	-	2.0	-	.9	-	.3	-
37	TRANSPORTATION EQUIPMENT	3.8	-	2.6	-	.8	-	3.2	-	1.2	-	1.1	-
371	Motor vehicles and equipment	3.9	-	2.5	-	.8	-	2.5	-	1.0	-	.6	-
3711	Motor vehicles and car bodies	4.6	-	2.8	-	.8	-	2.5	-	.9	-	.6	-
3713	Truck and bus bodies	4.0	-	3.7	-	.3	-	2.9	-	1.8	-	.1	-
3714	Motor vehicle parts and accessories	3.1	-	1.7	-	.8	-	2.4	-	.8	-	.8	-
3715	Truck trailers	6.0	-	5.6	-	.2	-	4.3	-	2.6	-	.4	-
372	Aircraft and parts	2.9	-	2.5	-	.1	-	1.8	-	1.0	-	.2	-
3721	Aircraft	2.5	-	2.1	-	.1	-	1.5	-	.8	-	.2	-
3724	Aircraft engines and engine parts	2.6	-	2.1	-	.1	-	1.4	-	.6	-	.1	-
3728	Aircraft equipment, nec	4.7	-	4.3	-	.2	-	3.4	-	2.0	-	.2	-
373	Ship and boat building and repairing	6.3	-	3.9	-	2.2	-	7.4	-	2.7	-	3.3	-
3731	Ship building and repairing	6.4	-	3.5	-	2.6	-	6.7	-	2.3	-	3.1	-
3732	Boat building and repairing	6.0	-	5.3	-	.6	-	9.9	-	4.4	-	4.0	-
374	Railroad equipment	4.6	-	1.8	-	2.2	-	2.9	-	.6	-	.6	-
376	Guided missiles, space vehicles, parts	2.4	-	1.6	-	.4	-	1.4	-	.6	-	.4	-
3761	Guided missiles and space vehicles	2.1	-	1.6	-	.2	-	1.4	-	.5	-	.5	-
379	Miscellaneous transportation equipment	4.3	-	3.2	-	.8	-	16.8	-	4.1	-	11.7	-
38	INSTRUMENTS AND RELATED PRODUCTS	3.5	4.4	2.9	3.9	.3	.2	2.6	2.6	1.6	1.6	.3	.3
381	Engineering and scientific instruments	3.2	-	2.9	-	.1	-	2.2	-	1.5	-	.2	-
382	Measuring and controlling devices	3.4	-	2.5	-	.3	-	2.7	-	1.6	-	.3	-
3822	Environmental controls	3.3	-	2.2	-	.6	-	2.4	-	1.1	-	.5	-
3823	Process control instruments	3.0	-	2.5	-	.3	-	2.7	-	1.5	-	.6	-
3825	Instruments to measure electricity	3.6	-	2.2	-	.1	-	2.6	-	1.8	-	.2	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P	May 1979	June 1979 ^P
	INSTRUMENTS AND RELATED PRODUCTS—Cont'd												
383	Optical instruments and lenses	3.6	-	3.0	-	0.1	-	2.4	-	1.8	-	0.1	-
384	Medical instruments and supplies	4.2	-	3.6	-	.4	-	2.8	-	1.8	-	.3	-
3841	Surgical and medical instruments	4.9	-	4.7	-	.1	-	2.8	-	2.0	-	.2	-
3842	Surgical appliances and supplies	3.6	-	2.7	-	.7	-	2.7	-	1.6	-	.4	-
385	Ophthalmic goods	4.8	-	3.5	-	.5	-	4.0	-	2.5	-	.5	-
386	Photographic equipment and supplies	2.7	-	2.5	-	.1	-	1.7	-	1.1	-	.1	-
387	Watches, clocks, and watchcases	3.8	-	3.1	-	.4	-	3.8	-	1.8	-	.9	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	6.1	6.7	4.8	5.6	1.2	0.9	5.2	5.6	2.9	3.0	1.2	1.4
391	Jewelry, silverware, and plated ware	3.3	-	2.5	-	.7	-	5.1	-	2.4	-	1.7	-
393	Musical instruments	4.0	-	3.0	-	.9	-	5.4	-	3.0	-	1.6	-
394	Toys and sporting goods	8.8	-	7.0	-	1.5	-	6.0	-	3.6	-	.8	-
3942.4	Dolls, games, toys, and children's vehicles	12.2	-	10.0	-	1.9	-	7.0	-	4.7	-	.7	-
3949	Sporting and athletic goods, nec	5.8	-	4.4	-	1.1	-	5.1	-	2.7	-	.9	-
395	Pens, pencils, office and art supplies	3.8	-	2.8	-	.8	-	3.9	-	1.8	-	1.1	-
396	Costume jewelry and notions	8.8	-	7.0	-	1.7	-	6.5	-	3.7	-	1.7	-
399	Miscellaneous manufactures	4.8	-	3.7	-	1.0	-	4.3	-	2.4	-	1.0	-
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	7.2	8.5	5.0	6.2	1.9	2.0	5.6	6.7	3.2	3.2	1.5	2.5
201	Meat products	9.5	-	7.3	-	1.5	-	8.5	-	5.4	-	1.8	-
2011	Meat packing plants	5.2	-	3.9	-	.9	-	5.7	-	2.2	-	2.1	-
2013	Sausages and other prepared meats	6.3	-	4.7	-	1.5	-	5.7	-	2.2	-	2.6	-
2016	Poultry dressing plants	17.9	-	14.1	-	2.6	-	14.3	-	12.0	-	1.0	-
202	Dairy products	5.2	-	3.9	-	1.1	-	3.5	-	2.4	-	.4	-
203	Preserved fruits and vegetables	10.3	-	5.7	-	4.5	-	8.5	-	3.5	-	4.0	-
204	Grain mill products	5.6	-	3.5	-	1.9	-	4.0	-	2.2	-	1.1	-
205	Bakery products	4.6	-	3.9	-	.5	-	3.5	-	2.1	-	.7	-
2051	Bread, cake, and related products	4.8	-	4.2	-	.4	-	3.4	-	2.3	-	.5	-
2052	Cookies and crackers	3.5	-	2.5	-	.9	-	3.7	-	1.5	-	1.4	-
206	Sugar and confectionery products	5.3	-	2.7	-	2.4	-	4.4	-	1.5	-	2.2	-
207	Fats and oils	3.7	-	2.7	-	.9	-	4.1	-	1.9	-	1.3	-
208	Beverages	6.6	-	5.0	-	1.3	-	4.8	-	2.7	-	1.2	-
2082	Malt beverages	5.4	-	2.2	-	2.9	-	4.0	-	.4	-	2.6	-
2086	Bottled and canned soft drinks	7.5	-	6.6	-	.5	-	5.2	-	3.8	-	.3	-
209	Misc. foods and kindred products	8.4	-	5.3	-	2.9	-	5.1	-	3.1	-	1.1	-
21	TOBACCO MANUFACTURES	2.3	-	1.0	-	.7	-	3.2	-	.9	-	1.1	-
211	Cigarettes	1.8	-	.7	-	.3	-	1.7	-	.6	-	(¹)	-
22	TEXTILE MILL PRODUCTS	5.7	5.0	4.7	4.3	.6	.4	5.2	4.9	3.5	3.2	.5	.6
221	Weaving mills, cotton	5.3	-	4.3	-	.2	-	5.0	-	3.4	-	.2	-
222	Weaving mills, synthetics	5.1	-	4.4	-	.3	-	4.7	-	3.4	-	.2	-
223	Weaving and finishing mills, wool	6.3	-	5.2	-	.9	-	5.4	-	3.6	-	.7	-
224	Narrow fabric mills	5.2	-	4.5	-	.4	-	4.6	-	3.2	-	.5	-
225	Knitting mills	5.8	-	4.6	-	1.0	-	5.4	-	3.6	-	1.0	-
2251	Women's hosiery, except socks	6.9	-	5.8	-	.8	-	5.9	-	4.2	-	.5	-
2252	Hosiery, nec	6.7	-	6.1	-	.4	-	5.7	-	4.7	-	.4	-
2253	Knit outerwear mills	6.1	-	4.3	-	1.6	-	5.6	-	3.3	-	1.5	-
2254	Knit underwear mills	3.6	-	3.3	-	.3	-	4.1	-	3.1	-	.5	-
2257	Circular knit fabric mills	6.0	-	4.7	-	1.0	-	6.0	-	3.6	-	1.2	-
226	Textile finishing, except wool	4.5	-	3.4	-	.8	-	3.9	-	2.4	-	.4	-
227	Floor covering mills	5.4	-	4.5	-	.4	-	4.4	-	2.7	-	.4	-
228	Yarn and thread mills	7.9	-	6.7	-	.7	-	6.9	-	5.1	-	.3	-
229	Miscellaneous textile goods	5.0	-	4.0	-	.6	-	4.3	-	2.4	-	.5	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	6.1	5.8	4.2	4.2	1.6	1.3	5.8	5.6	3.4	3.3	1.6	1.4
231	Men's and boys' suits and coats	3.8	-	2.1	-	1.3	-	3.8	-	1.8	-	1.4	-
232	Men's and boys' furnishings	6.3	-	5.1	-	1.0	-	6.0	-	4.4	-	.8	-
2321	Men's and boys' shirts and nightwear	6.1	-	4.6	-	1.2	-	5.3	-	4.0	-	.5	-
2327	Men's and boys' separate trousers	5.4	-	4.7	-	.6	-	5.3	-	4.2	-	.5	-
2328	Men's and boys' work clothing	7.2	-	6.5	-	.5	-	7.0	-	5.9	-	.3	-
233	Women's and misses' outerwear	6.4	-	3.5	-	2.6	-	6.2	-	2.9	-	2.5	-
234	Women's and children's undergarments	5.5	-	4.3	-	1.0	-	6.2	-	3.6	-	1.6	-
2341	Women's and children's underwear	5.7	-	4.4	-	1.1	-	6.3	-	4.0	-	1.4	-
2342	Brassieres and allied garments	4.8	-	4.0	-	.7	-	5.9	-	2.3	-	2.6	-
236	Children's outerwear	5.5	-	4.2	-	1.1	-	4.9	-	3.4	-	.9	-
238	Misc. apparel and accessories	7.4	-	4.9	-	2.2	-	6.3	-	3.4	-	1.9	-
239	Misc. fabricated textile products	6.2	-	4.9	-	1.1	-	5.8	-	3.4	-	1.6	-
26	PAPER AND ALLIED PRODUCTS	3.8	3.9	3.0	3.2	.6	.5	2.6	2.6	1.4	1.3	.4	.5
261,2,6	Paper and pulp mills	3.0	-	2.4	-	.5	-	1.2	-	.5	-	.3	-
262	Paper mills, except building paper	3.0	-	2.4	-	.5	-	1.1	-	.5	-	.2	-

See footnotes at end of table.

ESTABLISHMENT DATA

LABOR TURNOVER

D-2. Labor turnover rates by industry—Continued

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		May 1979	June 1979 ^p	May 1979	June 1979 ^p	May 1979	June 1979 ^p	May 1979	June 1979 ^p	May 1979	June 1979 ^p	May 1979	June 1979 ¹
PAPER AND ALLIED PRODUCTS—Continued													
263	Paperboard mills	2.7	—	2.1	—	0.3	—	1.7	—	0.9	—	0.2	—
264	Misc. converted paper products	4.2	—	3.4	—	.6	—	3.1	—	1.9	—	.4	—
265	Paperboard containers and boxes	4.6	—	3.5	—	.9	—	3.6	—	1.9	—	.7	—
2651	Folding paperboard boxes	4.5	—	3.2	—	1.2	—	3.6	—	1.7	—	1.0	—
2653	Corrugated and solid fiber boxes	4.3	—	3.6	—	.5	—	3.5	—	1.9	—	.6	—
27	PRINTING AND PUBLISHING	3.8	4.3	3.3	3.7	.4	0.5	3.3	3.4	2.1	2.3	.6	0.5
271	Newspapers	4.1	—	3.8	—	.2	—	3.3	—	2.6	—	.1	—
272	Periodicals	2.4	—	2.0	—	.2	—	2.4	—	1.6	—	.2	—
273	Books	3.4	—	2.8	—	.6	—	4.1	—	2.1	—	1.3	—
274	Miscellaneous publishing	3.8	—	3.2	—	.5	—	3.2	—	1.8	—	.8	—
275	Commercial printing	3.3	—	2.7	—	.5	—	3.1	—	1.6	—	.9	—
2751	Commercial printing, letterpress	3.2	—	2.6	—	.5	—	3.0	—	1.8	—	.7	—
2752	Commercial printing, lithographic	3.6	—	2.9	—	.5	—	3.4	—	1.6	—	1.1	—
278	Blankbooks and bookbinding	6.3	—	5.4	—	.9	—	5.0	—	3.2	—	.9	—
28	CHEMICALS AND ALLIED PRODUCTS	2.5	2.9	2.0	2.3	.3	.3	1.7	1.8	.8	.9	.3	.3
281	Industrial inorganic chemicals	1.9	—	1.5	—	.2	—	1.2	—	.6	—	.2	—
2819	Industrial inorganic chemicals, nec	1.8	—	1.5	—	.1	—	1.2	—	.5	—	.2	—
282	Plastics materials and synthetics	2.0	—	1.6	—	.2	—	1.2	—	.6	—	.1	—
2821	Plastics materials and resins	2.7	—	2.2	—	.1	—	1.4	—	.8	—	.1	—
2824	Organic fibers, noncellulosic	1.4	—	1.0	—	.2	—	1.0	—	.5	—	.1	—
283	Drugs	2.1	—	1.8	—	.2	—	1.2	—	.7	—	.1	—
2834	Pharmaceutical preparations	2.0	—	1.7	—	.2	—	1.2	—	.7	—	.1	—
284	Soap, cleaners, and toilet goods	3.7	—	2.5	—	.9	—	2.5	—	1.2	—	.7	—
2841	Soap and other detergents	3.0	—	1.4	—	1.6	—	2.0	—	.6	—	1.0	—
2844	Toilet preparations	3.7	—	2.8	—	.7	—	2.7	—	1.4	—	.7	—
285	Paints and allied products	3.6	—	3.0	—	.3	—	2.2	—	1.3	—	.2	—
286	Industrial organic chemicals	1.8	—	1.5	—	.1	—	1.0	—	.5	—	(¹)	—
287	Agricultural chemicals	3.6	—	3.0	—	.5	—	4.1	—	2.0	—	1.2	—
289	Miscellaneous chemical products	2.8	—	2.4	—	.2	—	2.1	—	1.0	—	.4	—
29	PETROLEUM AND COAL PRODUCTS	3.7	2.9	3.0	2.5	.4	.2	1.8	2.1	.9	.9	.4	.7
291	Petroleum refining	3.0	—	2.6	—	.1	—	1.3	—	.5	—	.3	—
296	Paving and roofing materials	6.6	—	4.6	—	1.9	—	4.3	—	2.3	—	1.0	—
30	RUBBER AND MISC. PLASTICS PRODUCTS	6.1	5.8	5.0	5.1	.7	.5	4.9	4.9	3.1	2.9	.7	.8
301	Tires and inner tubes	2.5	—	1.7	—	.4	—	1.7	—	.6	—	.3	—
302	Rubber and plastics footwear	10.5	—	8.0	—	1.5	—	8.4	—	6.2	—	.5	—
303,4	Reclaimed rubber, and rubber and plastics hose and belting	4.3	—	4.0	—	.1	—	2.9	—	2.2	—	.2	—
306	Fabricated rubber products, nec	5.1	—	3.9	—	.5	—	4.3	—	2.2	—	.9	—
307	Miscellaneous plastics products	7.3	—	6.1	—	.9	—	5.8	—	3.8	—	.8	—
31	LEATHER AND LEATHER PRODUCTS	8.4	6.7	6.1	5.3	1.7	1.2	7.3	7.7	4.8	4.2	1.4	2.1
311	Leather tanning and finishing	7.2	—	4.0	—	3.0	—	6.8	—	3.3	—	2.5	—
314	Footwear, except rubber	8.5	—	6.7	—	1.2	—	7.7	—	5.2	—	1.1	—
3143	Men's footwear, except athletic	7.4	—	6.2	—	.7	—	6.9	—	5.2	—	.6	—
3144	Women's footwear, except athletic	9.3	—	6.6	—	1.8	—	7.9	—	5.3	—	1.2	—
NONMANUFACTURING:													
—	MINING	5.4	5.9	4.2	4.7	.8	.9	3.8	4.1	2.3	2.7	.6	.6
10	METAL MINING	4.6	5.7	3.7	4.6	.5	.6	2.5	2.9	1.6	1.8	.1	.1
101	Iron ores	3.4	—	2.4	—	.7	—	1.1	—	.6	—	.1	—
102	Copper ores	3.8	—	2.9	—	.4	—	1.4	—	.6	—	.1	—
12	BITUMINOUS COAL AND LIGNITE MINING	1.8	1.8	1.1	1.2	.5	.4	2.1	2.0	.6	.6	1.1	1.0
13	OIL AND GAS EXTRACTION	7.6	8.4	6.1	6.7	1.0	1.3	5.3	5.9	3.5	4.3	.6	.5
131, 2	Crude petroleum, natural gas, and natural gas liquids	4.0	—	3.2	—	.6	—	1.6	—	.9	—	.1	—
138	Oil and gas field services	10.3	—	8.3	—	1.3	—	8.0	—	5.3	—	.9	—
14	NONMETALLIC MINERALS, EXCEPT FUELS	5.1	5.0	3.9	4.2	1.1	.6	2.9	3.0	1.8	2.1	.3	.4
142	Crushed and broken stone	6.0	—	5.0	—	.8	—	2.4	—	1.9	—	.1	—
144	Sand and gravel	6.6	—	4.3	—	2.3	—	4.1	—	2.0	—	.7	—
—	COMMUNICATION:												
481	Telephone communication	1.8	—	1.7	—	(¹)	—	.8	—	.4	—	.1	—

¹ Less than 0.05.

^ppreliminary.

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.
Total accessions												
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	4.4
1979	4.4	4.3	4.1	3.9	4.1	P3.9						
New hires												
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	P3.0	2.9	2.8	3.1	3.4	3.5	3.5
1979	3.4	3.4	3.2	3.0	3.1	P2.9						
Total separations												
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	P4.0	3.9	3.7	3.7	3.9	3.9	4.1
1979	4.0	4.0	4.0	4.0	3.9	P4.3						
Quits												
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	2.1	2.0	P2.0						
Layoffs												
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	.9	1.2	.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	P1.0	.9	.9	.8	.9	.8	.9
1979	.8	.8	.9	1.0	1.0	P1.3						

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	
	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P
ALABAMA:												
Birmingham	2.7	3.0	1.6	2.0	0.8	0.6	2.2	2.6	1.0	1.1	0.4	0.8
Mobile	6.5	3.5	1.5	2.2	4.8	1.2	12.5	4.8	1.3	.9	10.3	3.3
ALASKA	16.5	24.5	12.6	17.9	3.6	4.1	14.9	11.9	6.6	6.6	1.1	1.3
ARIZONA	5.3	6.2	4.6	5.4	.6	.7	4.4	4.9	2.8	3.2	.4	.5
Phoenix	5.4	6.2	4.8	5.6	.4	.5	4.5	4.9	2.9	3.2	.3	.5
ARKANSAS	5.6	8.4	4.7	7.2	.6	.9	5.5	6.2	3.8	4.5	.7	.7
Fort Smith	4.8	15.5	3.2	14.3	.8	.2	5.3	6.9	3.4	4.7	.1	.3
Little Rock-North Little Rock	4.1	5.6	3.5	4.6	.5	.7	4.7	4.5	2.5	2.9	1.1	.4
Pine Bluff	3.5	4.2	2.7	3.7	.4	.4	3.0	3.1	1.8	2.1	.5	.3
COLORADO	4.7	5.4	4.3	4.9	.4	.3	4.1	4.1	3.0	3.0	.3	.2
Denver-Boulder	4.5	4.7	4.0	4.4	.4	.2	3.8	3.8	2.8	2.7	.2	.2
CONNECTICUT	2.5	3.3	2.0	2.5	.4	.5	2.4	2.3	1.3	1.4	.5	.3
Hartford	2.5	3.2	2.1	2.6	.2	.3	2.1	2.2	1.2	1.4	.2	.2
DELAWARE	2.1	3.0	1.2	1.6	.5	.5	1.6	1.5	.7	.9	.5	.2
Wilmington	1.7	2.2	.9	1.1	.3	.3	1.3	1.2	.5	.6	.4	.2
FLORIDA	5.8	5.5	4.8	5.0	.8	.4	5.6	5.3	3.3	3.3	1.3	.8
Fort Lauderdale-Hollywood	6.6	7.0	6.1	6.6	.2	.3	5.8	7.1	4.2	5.3	.3	.5
Jacksonville	5.7	5.3	4.5	4.7	1.1	.6	3.8	4.5	2.3	2.8	.5	.5
Miami	4.7	5.9	4.2	5.5	.5	.3	4.7	5.8	3.1	3.3	.7	1.6
Orlando	4.2	4.5	3.7	4.2	.4	.2	4.5	4.8	2.8	3.2	.6	.6
Pensacola	2.0	1.9	1.8	1.9	.1	(¹)	1.5	1.6	.8	1.2	.2	(¹)
Tampa-St. Petersburg	7.4	5.7	6.2	5.2	1.1	.4	5.9	5.6	4.3	3.5	.6	.9
West Palm Beach-Boca Raton	6.6	8.0	6.1	7.6	.4	.3	6.5	9.5	2.4	6.0	3.2	.6
GEORGIA	4.1	4.5	3.2	3.8	.6	.3	4.0	4.4	2.5	3.0	.6	.5
Atlanta ²	3.7	3.6	2.6	3.0	.8	.3	3.5	3.6	1.7	2.1	1.1	.6
HAWAII ³	3.2	3.4	1.5	1.8	1.4	1.5	3.4	6.8	1.2	1.4	1.3	4.6
IDAHO ⁴	7.4	(*)	5.3	(*)	1.9	(*)	5.7	(*)	3.6	(*)	1.1	(*)
ILLINOIS:												
Chicago SMSA	3.2	3.1	2.7	2.6	.2	.3	3.0	3.1	1.7	1.6	.4	.5
INDIANA ⁵	3.0	4.3	1.9	3.1	.7	.7	3.0	3.9	1.3	1.6	.8	1.3
Indianapolis ⁶	3.6	4.2	2.3	3.3	.9	.4	2.7	2.8	1.3	1.5	.5	.4
IOWA	3.5	4.6	2.2	3.4	1.0	.9	4.2	5.1	1.7	2.0	1.8	2.3
Cedar Rapids	2.5	8.6	1.3	1.4	1.0	6.9	2.1	5.0	.8	1.6	1.0	2.8
Des Moines	3.9	4.4	1.8	2.7	.4	.5	4.4	3.8	2.0	1.8	.2	.3
KANSAS	4.8	6.3	4.3	5.5	.3	.5	5.0	5.1	3.4	3.5	.6	.6
Topeka	3.7	4.6	3.6	3.8	.1	.8	3.6	3.8	2.5	2.5	.1	.2
Wichita	5.1	7.2	4.4	6.5	.4	.4	4.9	5.1	3.2	3.5	.7	.3
KENTUCKY	3.1	3.6	1.9	2.7	.8	.5	3.0	3.6	1.3	1.8	.9	1.0
Louisville	2.3	2.8	1.0	1.7	.7	.4	1.9	3.7	.7	1.0	.2	1.4
LOUISIANA:												
New Orleans	7.3	7.3	6.2	5.1	.8	1.9	5.2	4.9	3.3	3.0	.6	.8
MAINE	5.3	6.7	4.1	4.8	.9	1.6	5.4	5.0	3.1	3.2	1.4	.8
Portland	3.3	5.1	2.6	4.0	.4	.7	3.4	4.2	2.2	2.3	.4	.7
MARYLAND	2.7	3.4	1.7	2.2	.9	1.1	2.6	2.5	1.0	1.1	1.0	.7
Baltimore	2.4	3.3	1.5	2.0	.8	1.1	2.5	2.4	.8	1.0	1.1	.8
MASSACHUSETTS	3.4	(*)	2.7	(*)	.5	(*)	3.0	(*)	1.7	(*)	.6	(*)
Boston	2.9	(*)	2.3	(*)	.5	(*)	2.6	(*)	1.5	(*)	.4	(*)
MICHIGAN	2.4	3.6	1.5	2.6	.7	.6	2.6	2.5	.9	1.1	.9	.5
Detroit	2.3	3.1	1.4	2.1	.6	.6	2.2	2.0	.9	1.0	.6	.3
Flint	1.5	3.0	1.2	2.8	.1	(¹)	1.3	2.3	.4	.5	.1	.2
Grand Rapids	3.1	4.9	2.0	3.4	.8	1.1	3.8	3.0	1.5	1.6	.8	.6
Lansing-East Lansing	1.3	3.9	1.0	3.5	.2	.2	1.0	2.7	.5	1.3	.1	.1

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P
MINNESOTA	3.9	4.6	3.0	3.7	0.7	0.7	3.6	3.9	2.1	2.5	0.9	0.7
Minneapolis—St. Paul	3.3	3.9	2.7	3.4	.4	.2	2.7	3.5	1.8	2.2	.3	.5
MISSISSIPPI:												
Jackson	3.1	5.5	2.9	5.0	.1	.4	2.9	4.1	2.1	2.9	.2	.5
MISSOURI	3.2	4.3	2.4	3.5	.6	.5	3.1	3.5	1.7	2.0	.8	.7
Kansas City	3.3	4.1	2.7	3.5	.3	.4	2.9	3.5	1.7	2.0	.4	.6
St. Louis	2.7	3.5	1.7	2.6	.8	.7	2.5	2.4	1.0	1.2	.9	.6
MONTANA	2.9	2.7	1.9	1.5	.8	.4	2.8	3.2	1.2	1.4	.6	.6
NEBRASKA	4.4	5.6	3.9	4.8	.4	.6	4.3	4.2	3.1	3.0	.4	.4
NEVADA	10.6	8.8	10.0	8.3	.4	.3	9.2	8.2	7.2	5.9	.4	.5
NEW HAMPSHIRE	5.6	6.5	4.8	5.6	.5	.6	5.5	5.6	3.7	4.3	.8	.4
NEW JERSEY:												
Camden ⁷	3.5	3.6	1.9	2.8	1.4	.6	3.9	4.5	1.2	1.2	1.7	2.3
Hackensack	3.9	4.9	2.8	3.9	1.0	.9	3.9	3.6	1.7	1.9	1.4	.8
Jersey City	2.8	3.7	1.6	2.7	1.1	.8	3.4	2.5	1.0	1.0	1.8	.9
Newark	2.5	3.9	1.9	2.7	.3	1.0	2.7	2.8	1.0	1.3	1.0	.7
New Brunswick—Perth Amboy—Sayreville	3.6	4.5	2.9	3.8	.4	.5	3.2	3.6	1.7	1.7	.6	.6
Paterson—Clifton—Passaic	3.5	3.9	2.8	3.1	.5	.6	4.0	4.0	1.6	1.7	1.5	1.4
Trenton	2.8	2.8	2.0	2.1	.6	.5	2.3	2.5	.9	1.0	.6	.5
NEW YORK	3.5	4.4	2.2	2.8	1.1	1.4	3.5	3.4	1.2	1.3	1.5	1.3
Albany—Schenectady—Troy	2.9	3.1	1.4	1.7	.8	.8	3.2	2.6	.8	1.0	1.1	.7
Binghamton	2.8	3.6	2.3	2.9	.4	.4	2.9	2.9	1.6	1.5	.3	.4
Buffalo	2.3	3.0	1.3	1.8	.8	.9	2.1	1.8	.7	.7	.8	.4
Elmira	2.6	2.9	1.8	2.1	.4	.6	2.1	3.6	.8	1.1	.3	1.6
Monroe County ⁸	1.9	2.8	1.6	2.3	.1	.3	1.5	1.8	.7	.9	.2	.4
Nassau—Suffolk ⁹	4.5	5.0	3.5	4.2	.8	.6	3.9	3.9	2.2	2.3	.8	.6
New York and Nassau—Suffolk	4.0	4.8	2.6	3.0	1.3	1.6	4.3	4.4	1.3	1.5	2.1	2.1
New York SMSA ⁹	3.9	4.8	2.3	2.7	1.4	1.9	4.4	4.6	1.1	1.3	2.4	2.4
New York City ¹⁰	4.1	5.0	2.4	2.8	1.7	2.1	4.6	4.9	1.1	1.3	2.6	2.7
Rochester	2.2	3.2	1.7	2.5	.4	.5	1.9	2.1	.9	1.0	.4	.5
Syracuse	3.0	3.5	1.7	2.2	1.0	1.1	2.4	2.5	.9	.9	.8	.8
Utica—Rome	2.9	3.8	1.8	2.4	1.0	1.1	3.0	2.9	.9	1.1	1.5	1.0
Westchester County ¹⁰	2.2	3.1	1.8	2.2	.2	.7	3.0	2.4	1.1	1.2	1.2	.5
NORTH CAROLINA	4.2	5.4	3.6	4.7	.3	.4	4.1	4.8	3.1	3.5	.2	.3
Charlotte—Gastonia	5.6	6.8	5.0	6.0	.4	.4	5.4	6.0	4.4	4.7	.1	.1
Greensboro—Winston-Salem—High Point	3.6	6.8	3.0	6.0	.2	.4	3.7	6.0	2.7	4.7	.2	.1
NORTH DAKOTA	6.6	10.2	5.5	8.3	.7	1.5	7.5	6.6	3.8	5.3	2.6	.3
Fargo—Moorhead	5.4	10.6	4.4	6.4	.5	3.7	5.2	7.3	2.3	4.3	2.0	2.1
OHIO	2.5	3.3	1.5	2.2	(*)	(*)	2.6	2.4	.9	1.1	1.0	.5
Akron	2.1	1.8	1.0	1.4	(*)	(*)	1.5	1.9	.6	.9	.5	.4
Canton	3.0	4.0	1.9	2.6	(*)	(*)	2.8	2.8	1.0	1.0	.7	.5
Cincinnati	2.9	3.4	1.7	2.4	(*)	(*)	3.0	2.5	1.1	1.1	1.2	.6
Cleveland	2.6	3.2	1.8	2.3	(*)	(*)	2.6	2.5	1.1	1.2	.6	.3
Columbus	2.4	2.2	1.4	1.5	(*)	(*)	2.8	2.4	1.0	1.2	1.1	.6
Dayton	1.8	2.6	1.4	2.1	(*)	(*)	2.8	2.0	.7	.9	1.4	.4
Toledo	2.3	3.2	1.4	1.7	(*)	(*)	2.3	2.6	.6	.8	.8	.7
Youngstown—Warren	2.1	3.2	1.0	1.0	(*)	(*)	2.3	1.9	.3	.4	1.1	.7
OKLAHOMA	6.4	7.9	5.7	7.2	.5	.5	6.1	6.7	4.6	5.1	.5	.4
Oklahoma City	6.6	7.7	5.9	7.1	.6	.5	6.3	6.3	4.9	5.0	.5	.3
Tulsa ¹¹	6.1	7.1	5.6	6.4	.4	.5	5.9	6.6	4.0	4.6	.6	.5
OREGON ⁵	4.8	4.9	3.7	4.0	.9	.8	4.1	3.9	2.4	2.4	.7	.6
Portland ⁵	5.2	5.5	4.0	4.6	1.0	.7	4.2	4.6	2.6	2.7	.6	1.1
PENNSYLVANIA	2.9	3.6	1.7	2.3	.9	1.0	2.8	2.7	1.1	1.2	1.0	.9
Allentown—Bethlehem—Easton	2.8	3.0	1.8	2.0	.9	.8	2.5	2.4	1.0	1.1	1.0	.8
Altoona	1.9	3.1	1.0	1.4	.7	1.5	1.9	2.4	.8	.7	.9	1.4
Erie	2.8	2.9	1.6	1.9	.6	.7	2.5	2.6	1.0	1.0	.6	.7
Harrisburg	2.7	3.0	2.1	2.6	.5	.3	3.2	2.2	1.3	1.5	1.5	.2
Johnstown	3.5	4.2	1.3	1.2	2.1	3.0	2.4	2.7	.8	.7	.8	.9
Lancaster	3.1	3.8	2.5	3.3	.5	.4	3.3	3.3	1.9	2.6	1.0	.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	
	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P	Apr. 1979	May 1979 ^P
PENNSYLVANIA—Continued												
Northeast Pennsylvania	2.8	4.0	1.4	2.1	1.2	1.5	3.6	3.8	1.2	1.3	2.0	1.8
Philadelphia SMSA	2.7	3.6	1.9	2.5	.7	.9	2.9	3.2	1.1	1.2	1.2	1.2
Pittsburgh	2.2	3.3	1.0	1.8	.9	1.1	2.0	1.8	.5	.6	.9	.1
Reading	3.1	4.0	2.2	2.8	.8	1.0	3.5	3.9	1.5	1.7	1.4	1.5
Scranton ¹²	2.1	4.1	1.3	2.0	.7	2.0	4.7	4.2	1.3	1.5	2.9	2.3
Wilkes-Barre—Hazleton ¹²	2.9	3.0	1.3	1.8	1.3	.9	2.6	2.7	1.1	1.2	1.2	.9
Williamsport	2.1	3.1	1.6	2.1	.4	.9	3.2	3.8	.9	.8	1.0	2.4
York	3.4	4.3	2.9	3.1	.5	1.1	3.6	3.9	2.1	2.4	.9	1.0
RHODE ISLAND												
Providence—Warwick—Pawtucket	5.1	6.3	3.7	5.1	1.1	.8	4.5	5.2	2.6	3.2	1.2	1.0
.....	4.6	6.3	3.5	5.2	1.0	.8	4.5	5.3	2.6	3.4	1.2	1.0
SOUTH CAROLINA												
Charleston—North Charleston	4.2	5.1	3.5	4.3	.3	.3	4.0	4.2	2.7	2.9	.4	.2
Columbia	4.1	3.9	3.4	3.3	.6	.5	4.1	5.7	2.2	3.1	.7	1.0
Greenville—Spartanburg	3.6	4.3	3.4	3.8	.1	(¹)	3.5	4.5	2.6	2.9	(¹)	.4
.....	4.7	5.8	4.2	4.2	.2	.3	4.5	4.9	3.2	3.4	.2	.2
SOUTH DAKOTA												
Sioux Falls	5.1	6.7	3.7	5.7	1.1	.5	3.6	3.6	2.7	2.7	.3	.2
.....	6.1	5.1	2.7	4.7	3.3	.3	3.7	3.1	2.2	2.3	1.0	.3
TENNESSEE:												
Memphis	3.2	3.4	2.2	2.7	.8	.5	3.0	2.9	1.5	1.7	.6	.4
TEXAS:												
Dallas—Fort Worth	5.4	(*)	5.1	(*)	.2	(*)	5.3	(*)	3.9	(*)	.3	(*)
Houston	4.3	(*)	4.0	(*)	.1	(*)	4.1	(*)	2.8	(*)	.3	(*)
San Antonio	4.9	(*)	4.6	(*)	.2	(*)	5.1	(*)	3.8	(*)	.3	(*)
UTAH ⁴												
Salt Lake City—Ogden ⁴	4.8	5.0	4.0	4.2	.5	.4	5.0	5.0	3.7	3.6	.4	.4
.....	4.3	4.5	4.0	4.1	.2	.3	5.0	5.2	3.6	3.9	.3	.3
VERMONT												
Burlington	3.8	5.0	3.0	4.1	.4	.7	3.7	3.6	2.1	2.2	.9	.5
Springfield	2.9	4.8	2.6	4.4	(¹)	.2	2.6	1.8	1.6	1.2	.2	.3
.....	2.8	3.1	2.2	2.4	.5	.5	2.7	2.8	1.3	1.6	.6	.6
VIRGINIA												
Richmond	3.5	4.0	2.6	2.9	.6	.8	3.5	3.9	1.8	2.0	.9	.9
.....	2.0	2.0	1.5	1.7	(¹)	.2	2.0	2.0	.9	.9	.1	.5
WASHINGTON:												
Seattle—Everett ¹³	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
WISCONSIN												
Milwaukee	3.3	4.2	2.1	2.9	.8	.9	2.8	2.7	1.2	1.4	.7	.5
.....	3.1	3.8	2.2	2.8	.4	.5	3.0	2.6	1.2	1.2	.6	.4
WYOMING												
.....	8.0	10.3	7.2	10.0	.8	.3	6.4	8.1	4.6	5.6	.6	.2

- ¹ Less than 0.05.
- ² Excludes agricultural chemicals, and miscellaneous manufacturing.
- ³ Excludes canned fruits, vegetables, preserves, jams, and jellies.
- ⁴ Excludes canning and preserving, and sugar.
- ⁵ Excludes canning and preserving.
- ⁶ Excludes canning and preserving and newspapers.
- ⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.
- ⁸ Subarea of Rochester Standard Metropolitan Statistical Area.
- ⁹ Area included in New York and Nassau-Suffolk combined SMSA's.

- ¹⁰ Subarea of New York Standard Metropolitan Statistical Area.
 - ¹¹ Excludes new-hire rate for transportation equipment.
 - ¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.
 - ¹³ Excludes canning and preserving, printing and publishing.
- p=preliminary.
* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P
ALABAMA	1,623.3	1,623.8	1,639.8	108.3	107.8	128.7	6.7	6.6	7.8
Birmingham	374.7	377.1	381.0	20.9	22.0	25.7	5.6	5.8	6.7
Huntsville	135.8	136.7	139.9	9.9	8.6	12.3	7.3	6.3	8.8
Mobile	184.6	183.0	187.3	14.0	14.5	17.1	7.6	7.9	9.1
Montgomery	118.0	118.7	123.0	7.6	6.5	8.2	6.4	5.5	6.7
Tuscaloosa	51.7	51.8	50.7	4.1	3.2	3.3	7.9	6.2	6.5
ALASKA	190.5	191.0	194.2	21.6	17.0	16.8	11.4	8.9	8.6
ARIZONA	976.3	1,038.6	1,035.5	65.6	50.9	61.7	6.7	4.9	6.0
Phoenix	590.8	629.8	631.2	35.2	26.4	31.9	6.0	4.2	5.1
Tucson	175.7	186.8	184.2	10.9	7.7	8.6	6.2	4.1	4.6
ARKANSAS	942.4	N.A.	N.A.	57.0	N.A.	N.A.	6.0	N.A.	N.A.
Fayetteville-Springdale	70.3	N.A.	N.A.	3.4	N.A.	N.A.	4.8	N.A.	N.A.
Fort Smith ¹	84.5	N.A.	N.A.	5.0	N.A.	N.A.	6.0	N.A.	N.A.
Little Rock-North Little Rock	179.5	N.A.	N.A.	9.0	N.A.	N.A.	5.0	N.A.	N.A.
Pine Bluff	37.1	N.A.	N.A.	2.6	N.A.	N.A.	6.9	N.A.	N.A.
CALIFORNIA ²	10,649.6	10,731.9	10,878.4	764.8	600.8	640.3	7.2	5.6	5.9
Anaheim-Santa Ana-Garden Grove	1,007.2	1,046.1	1,069.7	51.4	38.3	47.0	5.1	3.7	4.4
Bakersfield	181.3	175.5	183.8	13.0	14.0	13.5	7.2	8.0	7.3
Fresno	260.0	260.5	267.5	18.9	19.9	18.3	7.3	7.6	6.9
Los Angeles-Long Beach ²	3,384.0	3,422.0	3,432.0	249.0	163.0	180.0	7.4	4.8	5.2
Modesto	137.9	132.3	135.2	22.7	16.7	16.8	16.4	12.6	12.4
Oxnard-Simi Valley-Ventura	215.7	212.3	217.8	15.2	11.4	15.9	7.1	5.4	7.3
Riverside-San Bernardino-Ontario	556.9	559.5	569.9	38.2	32.5	37.0	6.9	5.8	6.5
Sacramento	448.3	451.6	459.6	34.2	30.0	31.3	7.6	6.6	6.8
Salinas-Seaside-Monterey	130.6	130.0	132.3	8.2	8.8	8.1	6.3	6.8	6.1
San Diego	686.3	706.1	715.2	44.3	37.6	40.6	6.5	5.3	5.7
San Francisco-Oakland	1,569.3	1,578.2	1,592.4	96.1	79.2	82.7	6.1	5.0	5.2
San Jose	665.4	673.5	686.2	44.2	32.6	36.4	6.6	4.8	5.3
Santa Barbara-Santa Maria-Lompoc	142.7	139.3	140.7	10.1	7.3	8.1	7.1	5.2	5.8
Santa Rosa	119.5	120.5	121.8	8.4	7.4	7.5	7.0	6.1	6.1
Stockton	166.1	161.8	167.7	18.1	14.7	13.9	10.9	9.1	8.3
Vallejo-Fairfield-Napa	123.1	122.0	124.4	7.7	7.0	6.9	6.2	5.7	5.5
COLORADO	1,311.4	1,329.4	1,378.6	73.7	62.6	70.2	5.6	4.7	5.1
Denver-Boulder	764.9	781.7	805.1	40.8	33.7	39.4	5.3	4.3	4.9
CONNECTICUT	1,539.6	1,591.6	1,622.3	80.4	74.6	85.2	5.2	4.7	5.3
Bridgeport	188.5	190.9	194.7	10.9	10.1	10.2	5.8	5.3	5.2
Hartford	367.4	381.7	389.0	16.9	16.2	19.0	4.6	4.2	4.9
New Britain	71.6	74.9	76.0	3.7	3.5	4.2	5.2	4.7	5.5
New Haven-West Haven	198.3	207.4	211.1	9.8	9.7	11.3	4.9	4.7	5.3
Stamford	119.5	121.8	125.1	5.2	4.3	5.1	4.4	3.5	4.1
Waterbury	110.1	111.1	112.6	7.3	5.9	6.3	6.6	5.3	5.6
DELAWARE	278.4	272.6	275.6	21.5	18.2	21.2	7.7	6.7	7.7
Wilmington ¹	239.0	238.7	239.5	17.7	14.9	17.5	7.4	6.3	7.3
DISTRICT OF COLUMBIA	335.4	321.4	323.9	29.9	26.2	29.4	8.9	8.1	9.1
Washington SMSA ¹	1,588.6	1,585.0	1,611.5	82.1	68.9	81.5	5.2	4.3	5.1
FLORIDA ²	3,773.5	3,788.6	3,902.8	256.7	192.7	233.8	6.8	5.1	6.0
Fort Lauderdale-Hollywood	383.3	383.9	394.0	26.2	18.9	20.6	6.8	4.9	5.2
Jacksonville	309.2	305.2	317.8	20.8	15.4	19.9	6.7	5.0	6.3
Miami	701.6	700.0	726.3	52.4	38.1	41.6	7.5	5.4	5.7
Orlando	303.6	308.7	318.6	19.0	14.4	19.3	6.3	4.7	6.1
Pensacola	113.1	110.6	115.9	6.8	5.3	7.3	6.0	4.8	6.3
Tampa-St. Petersburg	577.6	576.5	589.7	34.8	26.4	30.0	6.0	4.6	5.1
West Palm Beach-Boca Raton	204.3	215.0	217.6	15.7	12.0	14.8	7.7	5.6	6.8
GEORGIA	2,335.4	2,338.6	2,360.9	135.8	111.0	132.2	5.8	4.7	5.6
Albany	47.0	51.0	51.0	3.5	2.8	3.3	7.5	5.4	6.5
Atlanta	914.1	918.1	920.5	51.2	40.9	48.6	5.6	4.5	5.3
Augusta	122.4	N.A.	N.A.	7.9	N.A.	N.A.	6.5	N.A.	N.A.
Columbus ¹	86.0	87.1	88.2	6.0	5.5	6.5	7.0	6.3	7.4
Macon	102.9	100.4	102.6	6.9	5.4	6.1	6.7	5.4	5.9
Savannah	91.1	90.6	91.9	5.9	5.1	5.6	6.5	5.7	6.1

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P
HAWAII	404.5	395.8	401.7	34.2	26.5	28.8	8.4	6.7	7.2
Honolulu	318.6	311.7	315.6	26.0	20.1	22.0	8.2	6.5	7.0
IDAHO	420.9	422.6	434.4	22.1	21.9	21.2	5.3	5.2	4.9
Boise City	87.3	89.8	92.9	3.0	3.5	3.7	3.5	3.9	3.9
ILLINOIS ²	5,398.3	5,182.0	5,419.5	332.1	245.0	323.1	6.2	4.7	6.0
Bloomington—Normal	57.6	58.2	57.6	2.4	2.1	2.7	4.2	3.6	4.7
Champaign—Urbana—Rantoul	76.7	75.2	78.9	4.0	2.6	4.0	5.2	3.5	5.1
Chicago	3,437.9	3,309.2	3,461.8	209.4	150.8	196.8	6.1	4.6	5.7
Davenport—Rock Island—Moline ¹	182.4	180.1	185.4	10.0	6.3	7.9	5.5	3.5	4.3
Decatur	59.6	57.5	60.6	3.9	3.0	4.1	6.6	5.1	6.8
Peoria	176.6	170.5	178.9	8.8	7.2	9.6	5.0	4.2	5.3
Rockford	138.9	133.3	140.5	7.5	5.5	7.9	5.4	4.1	5.6
Springfield	98.0	91.9	97.0	5.7	4.3	6.0	5.8	4.7	6.2
INDIANA	2,610.7	2,632.4	2,652.4	151.2	133.5	156.2	5.8	5.1	5.9
Anderson	61.3	60.3	60.4	3.7	3.1	3.2	6.0	5.2	5.4
Evansville ¹	144.0	N.A.	N.A.	6.2	N.A.	N.A.	4.3	N.A.	N.A.
Fort Wayne	188.7	193.1	196.0	9.8	8.5	10.2	5.2	4.4	5.2
Gary—Hammond—East Chicago	295.0	293.4	298.9	18.6	13.8	19.5	6.3	4.7	6.5
Indianapolis	584.9	590.2	598.8	32.2	24.8	31.6	5.5	4.2	5.3
Lafayette—West Lafayette	58.9	62.2	61.3	2.6	3.1	3.0	4.3	5.1	4.8
Muncie	56.4	57.7	56.9	4.6	3.1	3.7	8.2	5.3	6.6
South Bend	142.4	144.1	144.5	8.6	7.2	8.6	6.0	5.0	6.0
Terre Haute	80.7	81.7	82.4	4.8	3.7	4.2	5.9	4.5	5.1
IOWA	1,478.4	1,462.9	1,483.2	60.0	42.5	48.6	4.1	2.9	3.3
Cedar Rapids	85.7	87.3	88.3	3.3	2.5	2.9	3.8	2.9	3.3
Des Moines	182.3	182.0	182.7	7.8	5.3	5.9	4.3	2.9	3.2
Dubuque	45.4	45.9	45.9	2.8	2.0	2.0	6.3	4.4	4.4
Sioux City ¹	57.6	56.4	57.0	3.3	3.5	3.5	5.8	6.3	6.1
Waterloo—Cedar Falls	66.1	70.2	69.2	3.4	2.7	2.7	5.2	3.8	3.9
KANSAS	1,192.8	1,201.2	1,223.2	36.8	35.4	43.5	3.1	2.9	3.6
Topeka	98.4	97.5	100.3	3.3	3.5	4.9	3.4	3.6	4.9
Wichita	221.3	228.0	232.8	7.8	7.4	8.9	3.5	3.3	3.8
KENTUCKY	1,588.9	1,521.2	1,543.6	79.4	64.1	74.3	5.0	4.2	4.8
Lexington—Fayette	160.3	N.A.	N.A.	5.9	N.A.	N.A.	3.7	N.A.	N.A.
Louisville ¹	417.8	N.A.	N.A.	22.1	N.A.	N.A.	5.3	N.A.	N.A.
Owensboro	38.3	N.A.	N.A.	2.0	N.A.	N.A.	5.1	N.A.	N.A.
LOUISIANA	1,653.7	1,655.0	1,677.9	133.6	90.1	113.5	8.1	5.4	6.8
Alexandria	68.0	68.0	69.4	6.8	4.4	5.4	10.0	6.4	7.8
Baton Rouge	205.6	203.1	204.6	15.7	11.7	14.7	7.6	5.7	7.2
Lafayette	65.2	69.3	69.7	3.8	3.0	3.3	5.8	4.4	4.8
Lake Charles	68.3	65.8	67.3	6.9	3.4	4.5	10.0	5.1	6.7
Monroe	52.8	53.1	53.3	4.3	3.0	3.7	8.1	5.7	7.0
New Orleans	471.9	467.1	473.0	36.7	23.3	30.6	7.8	5.0	6.5
Shreveport	151.3	149.6	153.2	11.1	7.4	9.2	7.4	4.9	6.0
MAINE	486.2	482.1	494.6	27.0	32.3	33.5	5.6	6.7	6.8
Lewiston—Auburn	36.7	37.6	37.8	1.7	2.3	2.5	4.6	6.0	6.6
Portland	85.3	84.3	85.5	4.1	4.3	4.9	4.8	5.1	5.7
MARYLAND	2,082.5	2,095.0	2,138.5	120.9	105.4	124.1	5.8	5.0	5.8
Baltimore	1,056.3	1,057.6	1,078.3	69.3	57.9	67.9	6.6	5.5	6.3
MASSACHUSETTS ²	2,933.4	2,855.6	2,947.3	203.0	142.7	150.3	6.9	5.0	5.1
Boston	1,411.6	1,372.8	1,413.8	97.4	66.4	70.6	6.9	4.8	5.0
Brockton	81.8	84.5	83.3	5.8	4.5	5.0	7.1	5.3	6.0
Fall River ¹	81.2	81.5	83.1	5.5	4.8	4.7	6.8	5.9	5.7
Lawrence—Haverhill ¹	144.9	142.8	142.4	10.4	7.7	8.4	7.2	5.4	5.9
Lowell	117.3	114.6	123.7	9.1	5.9	6.6	7.7	5.2	5.3
New Bedford	84.8	83.4	87.3	7.3	5.9	5.0	8.6	7.0	5.8
Springfield—Chicopee—Holyoke	281.5	277.6	289.5	17.7	11.7	12.5	6.3	4.2	4.3
Worcester	200.8	198.2	205.1	11.8	8.2	8.5	5.9	4.1	4.2
MICHIGAN ²	4,251.0	4,327.5	4,383.1	299.5	311.2	316.9	7.0	7.2	7.2
Ann Arbor	133.0	142.5	143.7	7.4	7.8	8.0	5.6	5.4	5.6

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		
	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P
MICHIGAN—Continued									
Battle Creek	82.8	82.5	82.9	5.6	5.5	5.3	6.8	6.7	6.4
Bay City	55.1	53.5	53.8	3.6	3.8	3.8	6.6	7.1	7.1
Detroit	2,023.7	2,061.5	2,089.9	138.6	144.4	148.8	6.9	7.0	7.1
Flint	227.0	225.5	229.6	16.7	16.3	17.0	7.3	7.2	7.4
Grand Rapids	293.2	301.3	304.3	15.9	15.9	17.0	5.4	5.3	5.6
Jackson	66.5	69.1	70.0	4.1	4.9	5.0	6.2	7.2	7.1
Kalamazoo—Portage	131.6	131.0	132.8	8.0	7.5	8.0	6.1	5.8	6.0
Lansing—East Lansing	228.9	237.4	240.6	14.0	13.7	14.6	6.1	5.8	6.1
Muskegon—Norton Shores—Muskegon Heights	78.5	77.3	78.5	6.6	6.7	7.3	8.4	8.7	9.3
Saginaw	105.2	104.8	105.0	6.4	6.9	7.0	6.1	6.6	6.7
MINNESOTA									
Duluth—Superior ¹	2,058.9	N.A.	N.A.	80.5	N.A.	N.A.	3.9	N.A.	N.A.
St. Joseph	121.5	N.A.	N.A.	6.3	N.A.	N.A.	5.2	N.A.	N.A.
Minneapolis—St. Paul	1,086.2	N.A.	N.A.	37.5	N.A.	N.A.	3.5	N.A.	N.A.
MISSISSIPPI									
Jackson	988.4	993.4	1,004.8	80.9	51.3	63.3	8.2	5.2	6.3
Jackson	145.4	147.2	150.0	8.8	5.1	5.9	6.1	3.5	3.9
MISSOURI									
Kansas City ¹	2,289.3	2,329.0	2,358.2	110.5	83.1	94.9	4.8	3.6	4.0
St. Joseph	698.9	696.5	706.8	29.8	23.1	27.5	4.3	3.3	3.9
St. Louis ¹	45.8	43.9	44.7	2.5	1.8	2.0	5.4	4.2	4.4
St. Louis ¹	1,102.0	1,091.7	1,113.8	60.0	46.1	56.4	5.4	4.2	5.1
Springfield	101.2	102.4	103.7	4.1	3.1	3.3	4.1	3.0	3.2
MONTANA									
Billings	395.1	386.2	400.3	23.7	16.2	19.1	6.0	4.2	4.8
Billings	55.7	55.2	55.2	2.7	1.6	2.0	4.8	2.9	3.6
Great Falls	37.1	36.1	37.0	2.7	1.8	2.4	7.4	5.0	6.6
NEBRASKA									
Lincoln	803.6	776.9	795.8	22.6	19.5	26.2	2.8	2.5	3.3
Lincoln	109.4	110.1	112.8	2.5	2.5	3.4	2.3	2.3	3.0
Omaha ¹	285.4	274.0	279.3	11.5	10.5	13.4	4.0	3.8	4.8
NEVADA									
Las Vegas	336.1	343.5	350.1	14.4	17.3	20.4	4.3	5.0	5.8
Las Vegas	178.3	182.9	185.4	9.1	10.6	13.1	5.1	5.8	7.0
Reno	98.9	102.2	104.2	2.3	3.2	3.6	2.3	3.2	3.4
NEW HAMPSHIRE									
Manchester	436.8	443.7	457.1	16.6	13.7	16.1	3.8	3.1	3.5
Manchester	83.1	82.0	84.7	3.6	2.3	3.1	4.3	2.8	3.7
Nashua	57.8	59.3	61.7	2.1	1.7	2.1	3.7	2.8	3.4
NEW JERSEY									
Atlantic City	3,420.7	3,465.0	3,587.5	259.1	247.0	253.2	7.6	7.1	7.1
Atlantic City	90.5	94.2	100.3	7.9	9.1	8.8	8.7	9.7	8.7
Jersey City	253.6	243.8	249.6	31.3	25.9	26.1	12.3	10.6	10.4
Long Branch—Asbury Park	228.2	218.6	231.5	18.0	15.2	16.2	7.9	7.0	7.0
Newark	946.2	952.5	977.9	69.4	67.0	67.1	7.3	7.0	6.9
New Brunswick—Perth Amboy—Sayreville	306.7	316.5	328.2	22.4	19.8	22.2	7.3	6.3	6.8
Paterson—Clifton—Passaic	212.3	215.4	222.2	17.8	19.9	19.9	8.4	9.2	8.9
Trenton	156.2	158.2	162.0	8.7	6.5	8.7	5.5	5.4	5.3
Vineland—Millville—Bridgeton	61.0	60.0	62.7	6.0	5.1	5.8	9.8	8.6	9.2
NEW MEXICO									
Albuquerque	537.1	528.9	544.3	33.3	29.0	34.6	6.2	5.5	6.4
Albuquerque	197.9	196.4	200.6	12.6	10.6	12.6	6.4	5.4	6.3
NEW YORK²									
Albany—Schenectady—Troy	7,870.5	7,853.6	8,056.7	576.1	460.0	559.1	7.3	5.9	6.9
Albany—Schenectady—Troy	370.7	370.7	378.2	23.3	15.3	17.4	6.3	4.1	4.6
Binghamton ¹	138.1	141.2	146.3	8.4	5.9	7.3	6.1	4.2	5.0
Buffalo	565.0	570.1	586.1	42.6	28.7	33.4	7.5	5.0	5.7
Elmira	39.4	39.9	41.2	3.0	1.9	2.2	7.6	4.8	5.5
Nassau—Suffolk	1,250.6	1,267.0	1,303.8	82.3	56.4	67.6	6.6	4.5	5.2
New York	3,634.8	3,575.9	3,648.2	291.7	262.2	330.2	8.0	7.3	9.0
New York City ²	3,049.0	2,984.0	3,041.0	257.0	240.0	304.0	8.4	8.0	10.0
Poughkeepsie	102.2	104.7	107.8	5.3	3.5	4.0	5.2	3.3	3.7
Rochester	455.7	464.4	479.5	25.9	17.7	21.3	5.7	3.8	4.4
Syracuse	297.5	299.2	306.1	20.0	13.9	15.5	6.7	4.6	5.1
Utica—Rome	135.8	137.2	142.2	8.9	6.3	7.0	6.3	4.6	5.0
NORTH CAROLINA									
Asheville	2,722.9	2,715.2	2,768.3	121.9	122.5	138.7	4.5	4.5	5.0
Asheville	84.0	82.3	85.3	3.2	3.4	3.6	3.8	4.1	4.2
Charlotte—Gastonia	334.4	334.3	337.6	11.7	8.9	10.6	3.5	2.6	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		
	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P
NORTH CAROLINA—Continued									
Greensboro—Winston-Salem—High Point	417.8	421.2	425.3	15.2	17.3	19.2	3.6	4.1	4.5
Raleigh—Durham	273.7	278.0	281.5	8.8	9.0	10.2	3.2	3.2	3.6
NORTH DAKOTA									
Fargo—Moorehead ¹	307.1	322.6	327.6	14.1	12.3	11.5	4.6	3.8	3.5
	71.5	N.A.	N.A.	3.1	N.A.	N.A.	4.3	N.A.	N.A.
OHIO²									
Akron	4,971.8	4,993.1	5,066.5	269.0	246.0	293.7	5.4	4.9	5.8
Canton	299.4	299.9	302.2	17.5	16.3	18.7	5.9	5.4	6.2
Cincinnati ¹	177.5	179.8	182.7	9.0	8.4	10.1	5.0	4.7	5.5
Cleveland	652.8	N.A.	N.A.	33.1	N.A.	N.A.	5.1	N.A.	N.A.
Columbus	932.4	927.3	935.9	45.1	39.4	44.9	4.8	4.2	4.8
Dayton	532.2	536.0	544.5	25.4	22.3	27.6	4.8	4.2	5.1
Toledo ¹	379.5	386.9	392.6	17.8	21.9	26.5	4.7	5.7	6.7
Youngstown—Warren	365.8	367.4	375.1	22.9	21.2	26.2	6.3	5.8	7.0
	236.1	235.5	236.8	18.3	14.4	16.4	7.8	6.1	6.9
OKLAHOMA									
Oklahoma City	1,284.7	1,290.9	1,311.4	52.0	39.8	45.5	4.1	3.1	3.5
Tulsa	386.7	396.4	404.6	14.8	11.3	12.9	3.8	2.8	3.2
	304.7	302.0	308.6	11.5	8.8	10.3	3.8	2.9	3.3
OREGON									
Eugene—Springfield	1,216.3	1,196.5	1,228.3	69.1	80.3	78.1	5.7	6.7	6.4
Portland ¹	126.3	126.2	129.1	8.4	10.0	10.0	6.7	8.0	7.7
Salem	581.8	575.4	588.8	29.7	30.5	31.8	5.1	5.3	5.4
	115.3	112.0	116.8	6.9	7.9	7.5	6.0	7.1	6.4
PENNSYLVANIA²									
Allentown—Bethlehem—Easton ¹	5,301.9	5,216.7	5,322.6	347.6	294.3	383.9	6.6	5.6	7.2
Altoona	294.6	292.0	299.4	17.1	15.1	19.6	5.8	5.2	6.5
Erie	56.8	56.6	58.6	4.1	4.1	5.1	7.2	7.3	8.7
Harrisburg	124.4	124.6	127.6	8.2	7.7	10.0	6.6	6.2	7.8
Johnstown	218.0	213.4	218.4	10.7	8.2	12.0	4.9	3.8	5.5
Lancaster	107.7	106.1	109.8	9.5	7.0	9.1	8.8	6.6	8.3
Northeast Pennsylvania	172.5	173.5	177.0	7.9	6.4	8.9	4.6	3.7	5.0
Philadelphia ¹	277.8	276.0	282.7	19.9	19.0	24.1	7.2	6.9	8.5
Pittsburgh	2,088.4	2,082.5	2,126.1	155.5	130.6	158.9	7.4	6.3	7.5
Reading	1,000.1	989.8	1,018.9	56.7	47.7	64.1	5.7	4.8	6.3
Williamsport	147.4	151.2	154.9	8.1	7.1	9.8	5.5	4.7	6.4
York	52.3	54.2	55.7	3.4	3.9	4.9	6.5	7.1	8.9
	167.8	167.5	172.1	9.0	7.0	9.7	5.4	4.2	5.6
RHODE ISLAND									
Providence—Warwick—Pawtucket ¹	436.6	445.4	454.7	28.3	27.8	32.4	6.5	6.3	7.1
	441.9	445.9	454.1	29.3	27.8	32.0	6.6	6.2	7.1
SOUTH CAROLINA									
Charleston—North Charleston	1,334.7	N.A.	N.A.	80.9	N.A.	N.A.	6.1	N.A.	N.A.
Columbia	156.0	N.A.	N.A.	11.1	N.A.	N.A.	7.1	N.A.	N.A.
Greenville—Spartanburg	169.3	N.A.	N.A.	8.3	N.A.	N.A.	4.9	N.A.	N.A.
	261.2	N.A.	N.A.	12.6	N.A.	N.A.	4.8	N.A.	N.A.
SOUTH DAKOTA									
Sioux Falls	352.2	341.5	360.2	11.4	9.9	14.1	3.2	2.9	3.9
	63.2	61.8	65.1	2.1	1.6	2.1	3.3	2.6	3.2
TENNESSEE									
Chattanooga ¹	1,941.8	1,956.8	1,992.6	107.2	94.6	118.9	5.5	4.8	6.0
Knoxville	188.1	187.7	190.8	10.9	9.7	11.7	5.8	5.1	6.1
Memphis ¹	204.6	207.0	208.7	8.8	7.2	9.2	4.3	3.5	4.4
Nashville—Davidson	376.7	N.A.	N.A.	21.7	N.A.	N.A.	5.8	N.A.	N.A.
	397.0	398.8	405.4	19.6	13.4	18.9	4.9	3.4	4.7
TEXAS²									
Amarillo	6,113.7	6,025.7	6,222.9	319.2	255.0	300.1	5.2	4.2	4.8
Austin	87.1	85.6	88.4	3.4	2.9	3.6	3.9	3.3	4.1
Beaumont—Port Arthur—Orange	238.1	240.5	246.1	8.8	6.6	8.7	3.7	2.7	3.5
Corpus Christi	168.3	159.6	164.7	12.0	10.1	11.4	7.1	6.3	6.9
Dallas—Fort Worth	133.9	130.9	134.2	8.3	6.2	8.0	6.2	4.8	5.9
El Paso	1,421.9	1,427.5	1,478.1	63.7	48.4	58.9	4.5	3.4	4.0
Galveston—Texas City	168.7	165.6	172.2	16.9	13.4	15.4	10.0	8.1	8.9
Houston	85.2	81.1	83.5	5.9	4.6	5.1	6.9	5.6	6.1
Lubbock	1,374.8	1,355.1	1,400.9	63.5	47.0	54.3	4.6	3.5	3.9
San Antonio	100.7	101.2	102.0	4.4	3.8	4.3	4.4	3.8	4.3
Waco	416.4	400.5	414.5	30.1	23.3	27.9	7.2	5.8	6.7
Wichita Falls	76.7	76.3	78.2	4.0	3.1	3.7	5.2	4.1	4.7
	60.3	58.3	60.1	2.4	2.0	2.2	3.9	3.4	3.7

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P	JUN. 1978	MAY. 1979	JUN. 1979P
UTAH	542.8	575.9	588.7	20.9	18.6	23.1	3.9	3.2	3.9
Salt Lake City—Ogden	357.8	379.7	386.5	14.0	12.1	15.1	3.9	3.2	3.9
VERMONT	238.8	238.8	241.9	15.3	12.1	12.1	6.4	5.1	5.0
VIRGINIA	2,476.4	2,468.5	2,512.9	132.2	104.8	123.3	5.3	4.2	4.9
Lynchburg	73.2	73.5	74.7	3.6	2.5	3.0	4.9	3.3	4.0
Newport News—Hampton	158.9	159.1	164.1	10.2	7.4	9.3	6.4	4.6	5.6
Norfolk—Virginia Beach—Portsmouth ¹	323.8	319.9	327.1	20.8	16.4	20.7	6.4	5.1	6.3
Petersburg—Colonial Heights—Hopewell	60.7	59.8	60.9	3.7	2.7	3.2	6.1	4.5	5.3
Richmond	321.1	320.5	324.2	13.0	9.6	11.8	4.0	3.0	3.6
Roanoke	111.6	108.8	110.4	5.3	4.0	4.6	4.8	3.7	4.1
WASHINGTON	1,798.5	1,828.7	1,885.7	123.4	120.2	125.9	6.9	6.6	6.7
Seattle—Everett	766.9	796.9	815.6	47.6	42.9	45.2	6.2	5.4	5.5
Spokane	145.2	144.8	149.1	9.1	8.9	9.9	6.3	6.2	6.6
Tacoma	167.5	168.9	174.2	13.3	12.3	13.1	7.9	7.3	7.5
WEST VIRGINIA	721.9	726.8	733.1	33.7	41.7	41.4	4.7	5.7	5.7
Charleston	117.6	117.5	118.2	3.9	4.1	5.2	3.3	3.5	4.4
Huntington—Ashland ¹	114.9	N.A.	N.A.	5.2	N.A.	N.A.	4.5	N.A.	N.A.
Parkersburg—Marietta ¹	65.3	67.9	69.2	2.7	3.0	3.7	4.2	4.4	5.3
Wheeling ¹	75.1	78.2	78.5	3.6	3.9	4.4	4.8	5.0	5.6
WISCONSIN	2,342.9	2,347.6	2,392.9	118.4	84.5	98.7	5.1	3.6	4.1
Appleton—Oshkosh	147.5	147.4	151.0	7.3	5.1	5.8	5.0	3.4	3.8
Eau Claire	51.7	54.7	55.3	3.2	2.6	2.7	6.2	4.7	4.9
Green Bay	88.6	86.8	89.5	4.7	3.8	4.7	5.3	4.4	5.3
Kenosha	61.5	59.2	61.0	5.8	2.3	2.4	9.4	3.8	4.0
La Crosse	44.6	46.8	46.8	2.2	1.8	1.9	4.9	3.9	4.0
Madison	175.7	176.6	178.3	6.7	5.3	6.0	3.8	3.0	3.4
Milwaukee	720.3	719.5	736.3	32.5	22.1	28.9	4.5	3.1	3.9
Racine	92.6	88.7	91.1	5.9	3.0	3.5	6.4	3.4	3.8
WYOMING	218.2	219.8	236.9	7.0	4.9	6.0	3.2	2.2	2.5

¹ Includes interstate portion of area located in adjacent State.

² Data are obtained directly from the Current Population Survey. (See "Explanatory Notes" for State and Area Unemployment Data in Employment and Earnings, monthly.)

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

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

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

be vacant or otherwise not eligible for interview.

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

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 and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

Table A. Standard errors of major employment status categories

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
<i>(In thousands)</i>		
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, 15 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 $0.09 \times 1.26 = 0.11$ 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 95,676,000 in the civilian labor force, and that a year prior to this the unemployment rate was 6.1 percent based on a total of 94,254,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.5 percent with a base of 94,965,000, is obtained from table E (0.11 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	OCCUPATION—Continued		
Males, 20 years and over . . . . .	.13	.13	Blue collar workers—Continued		
Females, 20 years and over . . . . .	.17	.18	Operatives, except transport . . . . .	.35	.40
Both sexes, 16-19 years . . . . .	.55	.65	Transport equipment operatives . . . . .	.49	.55
White workers . . . . .	.11	.11	Nonfarm laborers . . . . .	.62	.71
Black (and other) workers . . . . .	.45	.47	Service workers . . . . .	.31	.34
Married men, spouse present . . . . .	.12	.13	Farm workers . . . . .	.55	.62
Married women, spouse present . . . . .	.21	.22			
Full-time workers . . . . .	.11	.12	INDUSTRY		
Part-time workers . . . . .	.32	.40	Nonagricultural private wage and salary workers . . . . .	.12	.13
Unemployed 15 weeks and over . . . . .	.06	.07	Construction . . . . .	.58	.66
OCCUPATION			Manufacturing . . . . .	.22	.24
White-collar workers . . . . .	.12	.13	Durable goods . . . . .	.27	.30
Professional and technical . . . . .	.18	.20	Nondurable goods . . . . .	.36	.40
Managers and administrators, except farm . . . . .	.19	.21	Transportation and public utilities . . . . .	.31	.35
Sales workers . . . . .	.37	.41	Wholesale and retail trade . . . . .	.25	.28
Clerical workers . . . . .	.23	.26	Finance and service industries . . . . .	.17	.19
Blue-collar workers . . . . .	.20	.22	Government workers . . . . .	.21	.23
Craft and kindred workers . . . . .	.27	.30	Agricultural wage and salary workers	1.09	1.24

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

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

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

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

(In thousands)

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

¹ See footnote 1, table C.

² Part-time labor force for unemployment also includes persons

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

Table E. Standard errors of unemployment rates

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

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

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

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

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

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

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

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

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

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

Establishment data

(B, C, and D tables)

COLLECTION

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

Federal-State cooperation

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

See footnotes at end of table.

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

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

¹ 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.

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

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

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 1977¹

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	11,160,000	56
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	40,800	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) ²	3,700	2,714,000	100
State and local	12,100	6,836,000	55

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

² National estimates of Federal employment are provided to the BLS by the Civil Service Commission. State and area estimates are based on a sample of 3,700 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 division¹

[In percent]

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

¹ Based on 1967 SIC.

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

³ Relative errors relate to March 1971 data.

⁴ 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 earnings¹

Size of employment estimate	Root-mean-square error of employment estimates ²	Relative errors ³ (in percent)	
		Average weekly hours	Average hourly earnings
50,000	1,900	0.9	1.5
100,000	2,700	.7	1.1
200,000	4,100	.5	.9
500,000	9,600	.4	.8
1,000,000	13,000	.3	.5
2,000,000	16,800	.3	.5

¹ Based on 1967 SIC.

² Assuming 12-month intervals between benchmark revisions.

³ Relative errors relate to March 1971 data.

Table P. Errors of preliminary employment estimates¹

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

¹ 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:

$U = A(X + E) + BX$, 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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