



EMPLOYMENT AND EARNINGS

December 1983

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Communications on material in this publication should be addressed to: Editors, *Employment and Earnings*, Bureau of Labor Statistics, Washington, D.C. 20212, or phone: Gloria P. Green (202) 523-1944. Send correspondence on circulation and subscription matters (including address changes) to the Superintendent of Documents.

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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	Jan., 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, weekly earnings data	Jan., Apr., July, Oct.

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Industry detail (final)	Mar.
Women employees detail (final)	Mar.
National data revised to reflect new benchmarks and new seasonal factors	June ¹
Revised historical national data	Supplement ²
State and area annual averages	May
Area definitions	May

State and area unemployment data

Annual averages	May
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¹ Issue varies. Latest revised data introduced June 1983.

² Month of publication varies. The latest supplement was published in July 1983.

Employment and Earnings

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Editors: Gloria Peterson Green, Rosalie K. Epstein

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Employment and Unemployment Developments, November 1983

Unemployment continued its marked decline in November and employment rose sharply. The overall unemployment rate, 8.2 percent, and the rate for civilian workers, 8.4 percent, both fell by about half a percentage point for the second straight month and were about two-and-a-half points below last December's recessionary highs.

Total civilian employment—as measured by the monthly survey of households—rose by 740,000 over the month to 102.7 million, seasonally adjusted, after showing little change in October. The number of employees on nonagricultural payrolls—as measured by the monthly survey of establishments—was up by 370,000 in November, following a smaller advance in the prior month. Since December, total civilian employment and nonfarm payroll employment have increased by 3.6 million and 2.8 million, respectively.

Unemployment

The number of unemployed persons fell by 520,000 in November to a seasonally adjusted level of 9.4 million, and the civilian worker unemployment rate declined from 8.8 to 8.4 percent. Since December 1982, the jobless total has fallen by nearly 2.7 million, and the unemployment rate has dropped by 2.4 percentage points.

The over-the-month improvement was shared by nearly all of the major demographic groups. Jobless rates for adult men (7.8 percent) and adult women (7.1 percent) both posted sharp declines for the second month in a row. The unemployment rate for teenagers, which had shown little recovery from recessionary high levels until recent months, fell by 1.7 percentage points to 19.9 percent in November. Over-the-month decreases also occurred in the rates for whites (7.3 percent) and blacks (17.3 percent). The rate for black workers has declined by 2.7 percentage points since August, with most of the improvement among adult men. (See tables A-32 and A-33.)

The jobless rate for workers in durable goods manufacturing industries, at 9.1 percent, was down 1.1 percentage points from October and was substantially below the December 1982 high of 17.1 percent. There was also an over-the-month drop in the rate for wholesale and retail trade workers. Unemployment among full-time workers decreased by half a point over

the month to 8.2 percent. (See table A-38.)

The number of newly unemployed—those jobless for less than 5 weeks—fell sharply for the second straight month, while there was little over-the-month change in the other duration categories. Both measures of the average duration of unemployment—the mean and median—were about unchanged in November at 20.2 and 9.4 weeks, respectively. (See table A-39.)

Unemployment declined sharply in November among persons who lost their last jobs, principally those who were permanently separated from their jobs. There was also an over-the-month decline in the number of persons looking for work after a period of absence from the labor force. Although there was little over-the-month change in the number of workers on layoff, this total has declined by nearly 1.2 million since last December, accounting for more than two-fifths of the unemployment drop during the recovery. (See table A-40.)

Civilian employment and the labor force

The number of employed civilians rose by 740,000 in November to 102.7 million, seasonally adjusted. Over-the-month gains occurred among each of the three major age-sex groups—adult men, adult women, and teenagers. Since last December, total employment has risen by 3.6 million; in addition to strong growth among private sector nonagricultural wage and salary workers, this also included a gain of half a million among the self-employed. (See tables A-32 and A-34.)

The civilian labor force rose slightly in November but was up by 1.3 million over the year. The number of adult men and women rose by 800,000 and 900,000, respectively, from their year-earlier levels, while there was a 420,000 reduction in the teenage labor force. This reduction stemmed both from their declining population and rate of labor force participation. The participation rate for adult women continued to move upward, though at a somewhat slower pace than in the 1970's, while adult men's participation sustained its slow long-term decline. (See table A-32.)

Industry payroll employment

Total nonagricultural payroll employment rose by 370,000 in November to 91.4 million, seasonally adjusted. As in the past several months, growth was particularly strong in durable goods manufacturing, serv-

ices, and construction. The November gains were widespread, as three-fifths of the 186 industries in the BLS index of diffusion registered increases. The diffusion index of over-the-month changes has exceeded 60 percent in each of the past 9 months. (See tables B-4 and B-7.)

The services industry was the biggest gainer in November, with an increase of 150,000 jobs. Manufacturing employment continued to advance (115,000), led by machinery and electrical equipment, and there was also an increase in finance, insurance, and real estate. Mining was the only industry division to post a decline.

Total nonfarm employment has risen by 2.8 million since last December's recessionary low and was only 60,000 short of the July 1981 pre-recession high. Most of this growth occurred in manufacturing (980,000), services (905,000), retail trade (315,000), and construction (285,000). Manufacturing employment, however, remained 1.2 million below its July 1981 level.

Weekly hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls edged down 0.1 hour from October to 35.2 hours, seasonally adjusted, the same level as in September. Weekly hours in manufacturing delined 0.1 hours as well, to 40.5 hours. Overtime hours in manufacturing also were off a tenth to 3.3 hours. (See table C-6.)

The index of aggregate weekly hours of production or

nonsupervisory workers rose 0.2 percent, seasonally adjusted, to 108.4 (1977 = 100), reflecting the increase in employment. The November index was at its highest level since August 1981. The index for manufacturing advanced 0.8 percent to 93.5 and was 12.5 percent above last December's low. (See table C-7.)

Hourly and weekly earnings

Average hourly earnings edged down 0.1 percent in November, and average weekly earnings decreased 0.4 percent, seasonally adjusted. Prior to adjustment for seasonality, average hourly earnings fell 1 cent in November to \$8.14, and average weekly earnings declined by \$1.17. Since November 1982, average hourly earnings have risen by 33 cents and average weekly earnings by \$15.52. (See tables C-1 and C-8.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 156.7 (1977 = 100) in November, seasonally adjusted, essentially unchanged from October. For the 12 months ended in November, the increase (before seasonal adjustment) was 3.7 percent. The HEI excludes the effects of two types of changes unrelated to underlying wage rate movements—fluctuations in overtime in manufacturing and interindustry employment shifts. In dollars of constant purchasing power, the HEI increased 1.4 percent during the 12-month period ended in October. (See table C-8.)

Next month, with the issuance of data for December, this publication will incorporate annual revisions in seasonally adjusted unemployment and other labor force series. Seasonally adjusted data for the most recent 5 years are subject to revision.

**HOUSEHOLD DATA
HISTORICAL**

A-1. Employment status of the noninstitutional population 16 years and over, 1950 to date

(Numbers in thousands)

Year and month	Noninstitutional population	Labor force									Not in labor force
		Number	Percent of population	Employed					Unemployed		
				Total	Resident Armed Forces	Civilian			Number	Percent of labor force	
						Total	Agriculture	Nonagricultural industries			
Annual averages											
1950	106,164	63,377	59.7	60,067	1,169	58,916	7,160	51,756	3,288	5.2	42,787
1951	106,764	64,160	60.1	62,104	2,143	59,961	6,728	53,235	2,055	3.2	42,604
1952	107,617	64,524	60.0	62,638	2,388	60,250	6,500	53,749	1,883	2.9	43,093
1953 ¹	109,267	65,246	59.7	63,410	2,231	61,179	6,260	54,919	1,834	2.8	44,041
1954	110,483	65,765	59.6	62,251	2,142	60,109	6,205	53,904	3,532	5.4	44,676
1955	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,860
1956	112,919	68,517	60.7	65,764	1,965	63,799	6,263	57,514	2,750	4.0	44,402
1957	114,213	68,677	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,338
1958	115,574	69,486	60.1	64,883	1,647	63,036	5,588	57,450	4,602	6.8	46,088
1959	117,117	70,157	59.9	66,418	1,766	64,630	5,565	59,065	3,740	5.3	46,960
1960 ¹	119,106	71,489	60.0	67,639	1,661	65,778	5,458	60,316	3,852	5.4	47,617
1961	120,671	72,359	60.0	67,648	1,900	65,748	5,200	60,548	4,714	6.5	48,312
1962 ¹	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539
1963	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583
1964	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,768	5.0	51,394
1965	128,459	76,401	59.5	73,034	1,948	71,088	4,361	66,726	3,366	4.4	52,058
1966	130,160	77,692	59.6	75,017	2,122	72,895	3,979	68,915	2,675	3.7	52,286
1967	132,092	79,585	60.2	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527
1968	134,261	80,990	60.3	78,173	2,259	75,920	3,617	72,103	2,617	3.5	53,291
1969	136,573	82,972	60.8	80,140	2,236	77,902	3,606	74,296	2,832	3.4	53,602
1970	139,203	84,889	61.0	80,796	2,116	78,678	3,483	75,215	4,093	4.8	54,315
1971	142,169	86,355	60.7	81,340	1,873	79,367	3,394	75,972	5,016	5.8	55,834
1972 ¹	145,939	86,647	60.9	83,966	1,813	82,153	3,464	78,688	4,682	5.5	57,091
1973 ¹	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667
1974	151,641	93,670	61.7	88,515	1,721	86,794	3,515	83,279	5,156	5.5	58,171
1975	154,631	95,453	61.8	87,524	1,676	85,846	3,408	82,438	7,929	8.3	59,377
1976	157,616	97,826	62.0	90,420	1,668	88,752	3,331	85,421	7,406	7.6	59,991
1977	160,669	100,665	62.6	93,673	1,656	92,017	3,283	88,734	8,991	6.9	60,025
1978 ¹	163,541	103,662	63.5	97,679	1,631	96,048	3,367	92,661	6,202	6.0	59,659
1979	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900
1980	169,349	106,544	64.1	100,907	1,604	99,303	3,364	95,936	7,837	7.0	60,806
1981	171,775	110,315	64.2	102,042	1,645	100,397	3,368	97,030	8,273	7.5	61,460
1982	173,939	111,672	64.3	101,194	1,668	99,526	3,401	96,125	10,676	9.5	62,067
Monthly data, seasonally adjusted²											
1982:											
November	174,716	112,702	64.5	100,796	1,660	99,136	3,466	95,670	11,806	10.6	62,016
December	174,864	112,784	64.5	100,758	1,665	99,093	3,411	95,682	12,036	10.7	62,070
1983:											
January	175,021	112,215	64.1	100,770	1,667	99,103	3,412	95,691	11,446	10.2	62,806
February	175,169	112,217	64.1	100,727	1,664	99,063	3,393	95,670	11,490	10.2	62,952
March	175,320	112,148	64.0	100,767	1,664	99,103	3,375	95,729	11,361	10.1	63,172
April	175,465	112,457	64.1	101,129	1,671	99,456	3,371	96,068	11,326	10.1	63,006
May	175,622	112,418	64.0	101,226	1,669	99,557	3,367	96,190	11,192	10.0	63,204
June	175,793	113,600	64.6	102,454	1,668	100,766	3,522	97,264	11,148	9.8	62,193
July	175,970	113,539	64.5	102,949	1,664	101,285	3,527	97,758	10,590	9.3	62,431
August	176,122	113,943	64.7	103,245	1,662	101,563	3,489	96,074	10,699	9.4	62,179
September	176,297	114,063	64.7	103,640	1,695	101,945	3,290	98,855	10,423	9.1	62,234
October	176,474	113,510	64.3	103,623	1,695	101,928	3,202	98,728	9,866	8.7	62,965
November	176,638	113,721	64.4	104,356	1,685	102,671	3,232	99,440	9,364	8.2	62,916

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

² The population and Armed Forces figures are not adjusted for seasonal variation.

**HOUSEHOLD DATA
HISTORICAL**

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1972 to date

(Numbers in thousands)

Sex, year, and month	Noninstitutional population	Labor force								Not in labor force	
		Number	Percent of population	Employed					Unemployed		
				Total	Resident Armed Forces	Civilian			Number		Percent of labor force
						Total	Agriculture	Nonagricultural industries			
Annual averages											
MEN											
1972 ¹	69,607	55,327	79.5	52,668	1,772	50,896	2,849	48,047	2,659	4.8	14,260
1973 ¹	71,017	56,349	79.3	54,074	1,725	52,349	2,847	49,502	2,275	4.0	14,667
1974	72,466	57,397	79.2	54,662	1,656	53,024	2,919	50,105	2,714	4.7	15,069
1975	73,891	57,899	78.4	53,457	1,800	51,657	2,824	49,032	4,442	7.7	15,993
1976	75,341	56,758	78.0	54,720	1,582	53,138	2,744	50,394	4,036	8.9	16,585
1977	76,756	59,959	78.1	56,291	1,563	54,728	2,671	52,057	3,667	6.1	16,797
1978 ¹	78,107	61,151	78.3	58,010	1,531	56,479	2,718	53,761	3,142	5.1	16,956
1979	79,509	62,215	78.2	59,096	1,469	57,607	2,666	54,921	3,120	5.0	17,293
1980	80,877	62,932	77.8	58,665	1,479	57,166	2,709	54,477	4,267	6.8	17,945
1981	82,023	63,466	77.4	58,909	1,512	57,397	2,700	54,697	4,577	7.2	18,537
1982	83,052	63,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,073
Monthly data, seasonally adjusted²											
1982:											
November	83,402	64,414	77.2	57,408	1,516	55,892	2,793	53,099	7,006	10.9	16,988
December	83,561	64,364	77.0	57,338	1,529	55,809	2,710	53,099	7,046	10.9	16,917
1983:											
January	83,852	63,916	76.4	57,283	1,531	55,752	2,728	53,024	6,833	10.4	16,736
February	83,720	63,996	76.4	57,234	1,528	55,706	2,652	53,054	6,762	10.6	16,724
March	83,769	63,857	76.3	57,300	1,528	55,772	2,671	53,101	6,657	10.4	16,832
April	83,856	64,207	76.6	57,476	1,530	55,946	2,663	53,263	6,731	10.5	16,849
May	83,931	64,276	76.6	57,858	1,528	58,128	2,718	53,411	6,620	10.3	16,655
June	84,014	64,816	77.1	58,464	1,525	58,939	2,624	54,115	6,351	9.6	16,198
July	84,099	64,664	77.1	58,625	1,521	57,104	2,844	54,260	6,236	9.6	16,235
August	84,173	64,814	77.0	58,570	1,536	57,032	2,798	54,234	6,244	9.6	16,356
September	84,261	64,944	77.1	58,628	1,549	57,277	2,667	54,610	6,118	9.4	16,317
October	84,344	64,690	76.7	58,912	1,543	57,369	2,576	54,792	5,776	8.9	16,654
November	84,423	64,885	76.9	58,438	1,534	57,904	2,549	55,355	5,447	8.4	16,538
Annual averages											
WOMEN											
1972 ¹	76,331	33,520	43.9	31,296	41	31,257	635	30,622	2,222	6.6	42,611
1973 ¹	77,853	34,853	44.8	32,764	49	32,715	622	32,093	2,069	6.0	43,000
1974	79,375	36,274	45.7	33,832	63	33,769	596	33,173	2,441	6.7	43,101
1975	80,838	37,553	46.4	34,067	76	33,989	584	33,404	3,486	9.3	43,368
1976	82,476	39,069	47.4	35,701	66	35,635	568	35,027	3,369	6.6	43,406
1977	83,932	40,705	48.5	37,361	92	37,269	812	36,677	3,324	8.2	43,227
1978 ¹	85,434	42,731	50.0	39,669	100	39,569	669	38,900	3,061	7.2	42,703
1979	86,851	44,343	51.0	41,325	108	41,217	661	40,558	3,016	6.8	42,608
1980	88,472	45,611	51.6	42,241	124	42,117	658	41,461	3,370	7.4	42,661
1981	89,751	46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,922
1982	90,667	47,694	52.7	43,395	139	43,258	685	42,591	4,499	9.4	42,993
Monthly data, seasonally adjusted²											
1982:											
November	91,316	46,266	52.9	43,368	144	43,244	673	42,571	4,900	10.1	43,026
December	91,263	46,410	53.0	43,420	138	43,284	701	42,583	4,990	10.3	42,673
1983:											
January	91,369	46,299	52.9	43,466	136	43,350	684	42,666	4,813	10.0	43,070
February	91,449	46,220	52.7	43,493	136	43,357	740	42,617	4,727	9.8	43,229
March	91,532	46,191	52.6	43,467	136	43,331	704	42,627	4,724	9.8	43,341
April	91,609	46,251	52.7	43,653	141	43,512	688	42,824	4,597	9.5	43,356
May	91,691	46,142	52.5	43,569	141	43,428	649	42,779	4,572	9.5	43,549
June	91,779	46,784	53.2	43,990	143	43,847	698	43,149	4,795	9.8	42,995
July	91,871	46,675	53.0	44,324	143	44,181	683	43,498	4,351	8.9	43,196
August	91,949	46,130	53.4	44,675	144	44,531	691	43,840	4,455	9.1	42,619
September	92,036	46,119	53.4	44,614	146	44,666	623	44,046	4,305	8.8	42,917
October	92,129	46,819	53.0	44,712	152	44,560	626	43,934	4,106	8.4	43,310
November	92,214	46,836	53.0	44,916	151	44,767	682	44,065	3,917	8.0	43,376

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

² The population and Armed Forces figures are not adjusted for seasonal variation.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	November 1983										
	Civilian noninstitutional population	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	174,951	112,147	84.1	103,018	9,129	8.1	62,804	31,845	9,722	2,510	18,727
16 to 19 years	15,072	7,677	50.9	6,093	1,584	20.8	7,395	536	6,332	17	510
18 to 17 years	7,289	2,611	38.8	2,178	633	22.5	4,479	118	4,189	8	165
18 to 19 years	7,782	4,866	62.5	3,915	951	19.5	2,918	418	2,143	11	345
20 to 24 years	20,754	15,918	76.7	13,942	1,974	12.4	4,838	1,933	2,212	66	628
25 to 54 years	91,003	73,383	80.6	68,503	4,881	6.7	17,619	13,106	1,134	851	2,529
25 to 34 years	39,426	32,341	82.0	29,712	2,829	8.1	7,084	5,206	811	179	888
25 to 29 years	20,839	16,972	82.2	15,484	1,487	8.8	3,866	2,569	558	74	467
30 to 34 years	18,787	15,389	81.8	14,228	1,141	7.4	3,418	2,638	253	106	422
35 to 44 years	29,412	24,173	82.2	22,769	1,384	5.7	5,239	4,096	244	237	662
35 to 39 years	16,233	13,396	82.5	12,544	851	6.4	2,838	2,279	143	103	330
40 to 44 years	13,179	10,778	81.8	10,245	532	4.9	2,401	1,832	102	134	333
45 to 54 years	22,165	16,866	76.1	16,001	868	5.1	5,297	3,805	79	433	979
45 to 49 years	11,155	8,844	79.3	8,400	444	5.0	2,311	1,707	45	180	379
50 to 54 years	11,010	8,024	72.9	7,600	424	5.3	2,986	2,098	34	254	599
55 to 64 years	22,019	12,069	54.8	11,481	589	4.9	9,950	5,735	37	858	3,520
55 to 59 years	11,344	7,309	64.4	6,996	313	4.3	4,035	2,590	19	335	1,090
60 to 64 years	10,675	4,760	44.8	4,485	275	5.8	5,915	3,145	17	323	2,430
65 years and over	26,104	3,102	11.9	3,000	102	3.3	23,001	10,535	8	918	11,540
65 to 69 years	8,908	1,799	20.2	1,733	65	3.8	7,109	3,288	4	225	3,594
70 years and over	17,196	1,304	7.8	1,266	37	2.8	15,892	7,249	4	693	7,946
Men											
16 years and over	82,889	63,018	76.0	57,789	5,227	8.3	19,873	463	4,995	1,482	12,933
16 to 19 years	7,562	4,020	53.2	3,158	662	21.4	3,541	32	3,209	10	291
16 to 17 years	3,701	1,443	39.0	1,102	340	23.6	2,259	7	2,147	4	100
18 to 19 years	3,860	2,577	66.8	2,058	522	20.2	1,283	24	1,062	8	190
20 to 24 years	10,128	8,444	83.4	7,326	1,118	13.2	1,882	25	1,243	45	368
25 to 54 years	44,281	41,511	93.7	38,699	2,812	6.8	2,789	102	532	592	1,544
25 to 34 years	19,288	18,179	94.3	16,877	1,502	8.3	1,109	42	421	124	522
25 to 29 years	10,111	9,455	93.5	8,582	672	9.2	858	19	311	49	278
30 to 34 years	9,177	8,724	95.1	8,094	630	7.2	453	24	110	75	244
35 to 44 years	14,303	13,647	95.4	12,856	791	5.8	658	22	83	165	386
35 to 39 years	7,898	7,570	95.8	7,079	491	6.5	328	9	50	75	195
40 to 44 years	6,405	6,077	94.9	5,777	300	4.9	328	13	33	90	192
45 to 54 years	10,890	9,665	90.6	9,187	519	5.4	1,004	38	29	302	636
45 to 49 years	5,405	5,021	92.9	4,754	267	5.3	384	13	12	122	237
50 to 54 years	5,285	4,665	88.3	4,412	252	5.4	620	25	17	181	398
55 to 64 years	10,268	7,181	69.7	6,789	372	5.2	3,106	87	7	431	2,582
55 to 59 years	5,341	4,335	81.2	4,139	196	4.5	1,007	35	1	233	737
60 to 64 years	4,926	2,827	57.4	2,650	177	6.3	2,100	52	6	198	1,845
65 years and over	10,653	1,879	17.6	1,817	62	3.3	8,774	217	4	405	8,148
65 to 69 years	3,968	1,052	26.5	1,017	34	3.2	2,916	66	3	122	2,725
70 years and over	6,885	827	12.4	799	28	3.4	5,858	150	1	283	5,423
Women											
16 years and over	92,063	49,131	53.4	45,229	3,902	7.9	42,931	31,383	4,727	1,028	5,794
16 to 19 years	7,510	3,657	48.7	2,935	722	19.7	3,853	504	3,123	8	219
16 to 17 years	3,588	1,368	38.1	1,076	292	21.4	2,220	111	2,041	3	65
18 to 19 years	3,922	2,289	58.4	1,859	430	18.8	1,633	393	1,081	5	154
20 to 24 years	10,628	7,472	70.3	6,616	856	11.5	3,158	1,907	968	21	260
25 to 54 years	46,722	31,871	68.2	29,803	2,068	6.5	14,850	13,004	602	259	985
25 to 34 years	20,138	14,162	70.3	13,036	1,126	8.0	5,975	5,163	390	55	368
25 to 29 years	10,528	7,517	71.4	6,902	615	8.2	3,010	2,550	247	25	189
30 to 34 years	9,610	8,645	89.1	8,134	511	7.7	2,965	2,614	143	31	178
35 to 44 years	15,109	10,526	69.7	9,933	593	5.6	4,583	4,074	161	72	275
35 to 39 years	8,335	5,826	69.9	5,485	380	6.2	2,510	2,255	93	26	135
40 to 44 years	6,774	4,701	69.4	4,488	232	4.9	2,073	1,819	69	44	141
45 to 54 years	11,475	7,183	62.8	6,634	349	4.9	4,292	3,787	50	131	344
45 to 49 years	5,750	3,623	63.0	3,646	177	4.8	1,927	1,694	33	58	142
50 to 54 years	5,725	3,359	58.7	3,188	172	5.1	2,366	2,073	17	73	201
55 to 64 years	11,752	4,908	41.8	4,692	217	4.4	6,843	5,648	30	227	938
55 to 59 years	6,003	2,975	49.6	2,857	118	4.0	3,026	2,555	18	102	353
60 to 64 years	5,749	1,934	33.8	1,835	99	5.1	3,816	3,093	12	126	585
65 years and over	15,451	1,223	7.9	1,183	40	3.3	14,228	10,318	4	513	3,392
65 to 69 years	4,840	747	15.1	716	31	4.1	4,193	3,220	1	103	869
70 years and over	10,511	477	4.5	487	9	2.0	10,034	7,099	3	410	2,523

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

(Numbers in thousands)

Age, sex, and race	November 1963										
	Civilian noninstitutional population	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					
WHITE											
18 years and over	151,324	97,705	64.6	90,793	8,912	7.1	53,819	27,881	7,483	1,938	18,337
16 to 19 years	12,422	8,754	54.4	5,585	1,188	17.8	5,668	407	4,894	15	352
16 to 17 years	5,995	2,557	42.7	2,049	508	19.9	3,437	96	3,208	5	128
18 to 19 years	6,427	4,196	65.3	3,516	680	18.2	2,231	311	1,686	9	224
20 to 24 years	17,409	13,704	78.7	12,324	1,380	10.1	3,706	1,478	1,759	44	426
25 to 54 years	78,208	63,568	81.3	59,794	3,774	5.9	14,840	11,267	778	632	1,862
25 to 34 years	33,400	27,715	83.0	25,734	1,981	7.1	5,685	4,374	548	118	644
25 to 29 years	17,454	14,552	83.4	13,474	1,078	7.4	2,901	2,151	385	42	324
30 to 34 years	15,948	13,183	82.5	12,260	903	6.9	2,784	2,223	163	78	320
35 to 44 years	25,442	20,973	82.4	19,887	1,088	5.2	4,469	3,806	170	188	506
35 to 39 years	14,061	11,635	82.7	10,968	670	6.3	2,425	2,007	101	79	247
40 to 44 years	11,381	9,339	82.1	8,922	417	4.5	2,043	1,618	89	108	259
45 to 54 years	19,366	14,880	76.8	14,173	706	4.7	4,486	3,287	60	327	812
45 to 49 years	9,702	7,777	80.2	7,430	347	4.5	1,927	1,480	37	128	313
50 to 54 years	9,683	7,104	73.5	6,743	360	4.9	2,559	1,854	23	202	499
55 to 64 years	19,666	10,838	55.1	10,355	483	4.5	8,828	5,174	23	499	3,132
55 to 59 years	10,107	8,557	84.9	8,298	259	3.9	3,550	2,317	17	248	969
60 to 64 years	9,559	4,281	44.8	4,057	224	5.2	5,278	2,857	7	252	2,162
65 years and over	23,820	2,842	12.0	2,755	87	3.1	20,777	9,557	8	747	10,485
65 to 69 years	8,052	1,644	20.4	1,587	57	3.5	6,407	2,967	4	172	3,263
70 years and over	15,568	1,198	7.7	1,188	30	2.5	14,370	8,590	4	574	7,202
Men											
16 years and over	72,131	55,430	76.8	51,379	4,052	7.3	16,700	358	3,838	1,151	11,353
16 to 19 years	6,222	3,512	56.4	2,651	680	18.8	2,711	22	2,476	8	204
16 to 17 years	3,039	1,303	42.9	1,022	281	21.6	1,735	4	1,648	3	80
18 to 19 years	3,184	2,208	69.4	1,829	379	17.2	975	18	828	5	124
20 to 24 years	8,557	7,263	84.9	6,455	808	11.1	1,295	12	1,012	32	239
25 to 54 years	38,478	36,423	94.7	34,201	2,222	6.1	2,055	71	343	452	1,188
25 to 34 years	18,553	15,797	85.4	14,828	1,169	7.4	757	28	277	80	372
25 to 29 years	8,675	6,232	94.9	7,556	678	8.2	443	14	209	27	184
30 to 34 years	7,878	7,565	96.0	7,072	493	6.5	314	14	68	53	178
35 to 44 years	12,509	12,018	96.1	11,390	628	5.2	491	15	48	131	296
35 to 39 years	6,907	6,662	96.5	6,278	384	5.8	245	7	30	57	151
40 to 44 years	5,601	5,356	95.6	5,112	244	4.6	246	9	18	74	145
45 to 54 years	9,418	8,608	91.4	8,184	424	4.9	807	28	18	242	519
45 to 49 years	4,732	4,438	93.8	4,229	209	4.7	295	9	9	92	184
50 to 54 years	4,883	4,171	89.1	3,955	218	5.2	512	19	9	150	335
55 to 64 years	9,223	6,501	70.5	6,191	311	4.8	2,722	68	3	339	2,312
55 to 59 years	4,791	3,934	82.1	3,783	171	4.4	856	23	1	181	651
60 to 64 years	4,433	2,587	57.9	2,428	139	5.4	1,866	45	1	158	1,681
65 years and over	9,851	1,732	17.9	1,680	52	3.0	7,918	185	4	319	7,410
65 to 69 years	3,613	969	26.8	941	28	2.9	2,643	50	3	92	2,498
70 years and over	8,038	783	12.6	739	24	3.1	5,275	135	1	226	4,912
Women											
16 years and over	79,183	42,275	53.4	39,414	2,860	8.8	36,919	27,523	3,825	787	4,963
16 to 19 years	8,199	3,242	52.3	2,714	528	18.3	2,957	385	2,416	7	148
16 to 17 years	2,956	1,254	42.4	1,027	227	18.1	1,702	92	1,560	2	48
18 to 19 years	3,244	1,988	61.3	1,687	301	15.1	1,258	293	858	5	100
20 to 24 years	8,652	8,441	72.8	5,889	572	8.9	2,411	1,464	747	12	187
25 to 54 years	39,730	27,145	88.3	25,593	1,552	5.7	12,585	11,196	435	180	774
25 to 34 years	18,848	11,918	70.7	11,108	611	8.8	4,928	4,347	272	38	272
25 to 29 years	8,779	6,320	72.0	5,918	402	6.4	2,458	2,137	178	15	130
30 to 34 years	8,068	5,598	69.4	5,188	410	7.3	2,470	2,209	95	23	142
35 to 44 years	12,934	8,956	69.2	8,497	459	5.1	3,978	3,590	121	57	210
35 to 39 years	7,154	4,973	69.5	4,888	288	5.7	2,180	1,991	71	22	96
40 to 44 years	5,780	3,983	68.9	3,810	173	4.3	1,797	1,599	51	34	114
45 to 54 years	9,950	8,271	83.0	5,989	282	4.5	3,679	3,259	42	65	292
45 to 49 years	4,970	3,339	67.2	3,201	138	4.1	1,832	1,442	28	34	129
50 to 54 years	4,960	2,933	58.9	2,788	144	4.9	2,047	1,818	14	52	184
55 to 64 years	10,443	4,337	41.5	4,164	173	4.0	6,106	5,106	21	160	820
55 to 59 years	5,317	2,622	49.3	2,535	88	3.3	2,694	2,294	15	67	316
60 to 64 years	5,127	1,714	33.4	1,829	85	5.0	3,412	2,812	5	93	502
65 years and over	13,989	1,110	7.9	1,075	35	3.2	12,859	9,372	4	428	3,055
65 to 69 years	4,439	675	15.2	646	29	4.3	3,764	2,917	1	80	785
70 years and over	9,530	435	4.8	429	8	1.4	9,095	6,455	3	348	2,280

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Age, sex, and race	November 1983										
	Civilian noninstitutional population	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					
BLACK											
16 years and over	19,057	11,580	80.8	9,829	1,950	16.8	7,477	3,197	1,712	538	2,030
16 to 19 years	2,202	743	33.7	385	358	48.2	1,459	109	1,203	2	145
16 to 17 years	1,075	199	18.5	65	114	57.3	876	19	822	1	34
18 to 19 years	1,127	544	48.3	300	244	44.9	583	89	380	1	112
20 to 24 years	2,751	1,838	66.8	1,298	540	29.4	912	383	326	20	184
25 to 54 years	9,985	7,754	77.7	6,799	954	12.3	2,231	1,378	170	206	475
25 to 34 years	4,665	3,685	79.0	3,115	570	15.5	979	583	130	59	207
25 to 29 years	2,501	1,960	78.4	1,594	366	18.7	542	302	84	29	128
30 to 34 years	2,163	1,726	79.8	1,521	204	11.8	437	281	46	29	81
35 to 44 years	3,054	2,471	80.9	2,227	244	9.9	583	373	34	47	128
35 to 39 years	1,680	1,382	82.3	1,229	152	11.0	298	197	18	21	61
40 to 44 years	1,374	1,090	79.3	997	92	8.4	265	178	16	28	67
45 to 54 years	2,266	1,597	70.5	1,457	140	8.8	669	422	6	100	140
45 to 49 years	1,173	852	72.8	766	86	10.1	321	211	4	50	55
50 to 54 years	1,092	745	66.2	691	55	7.4	347	211	2	50	85
55 to 64 years	1,968	1,028	52.1	838	88	8.5	942	459	13	150	320
55 to 59 years	1,044	646	61.9	599	47	7.3	398	222	3	61	93
60 to 64 years	924	380	41.1	339	41	10.8	544	237	10	70	227
65 years and over	2,152	219	10.2	210	9	4.3	1,933	868	-	180	906
65 to 69 years	732	129	17.6	122	7	5.4	602	273	-	50	278
70 years and over	1,421	90	6.3	87	2	2.2	1,330	594	-	108	627
Men											
16 years and over	8,511	5,965	70.1	4,958	1,006	16.9	2,546	97	818	306	1,326
16 to 19 years	1,077	398	37.0	215	183	45.9	879	10	593	1	75
16 to 17 years	534	106	19.9	50	56	52.8	426	3	407	-	18
18 to 19 years	543	292	53.7	165	127	43.5	251	6	185	1	59
20 to 24 years	1,268	971	76.8	695	275	28.4	297	14	155	13	116
25 to 54 years	4,459	3,940	88.4	3,451	488	12.4	519	29	66	127	296
25 to 34 years	2,098	1,664	86.9	1,579	285	15.3	233	13	51	41	129
25 to 29 years	1,126	986	87.4	818	169	17.1	142	4	43	19	76
30 to 34 years	989	676	90.6	781	117	13.3	91	9	8	21	54
35 to 44 years	1,358	1,233	90.8	1,107	125	10.2	126	8	13	32	74
35 to 39 years	749	695	92.8	609	86	12.4	54	2	8	16	30
40 to 44 years	809	538	66.2	498	39	7.3	72	5	8	18	44
45 to 54 years	1,003	843	84.1	765	78	9.3	180	10	2	54	93
45 to 49 years	521	446	85.5	399	47	10.5	75	4	1	26	44
50 to 54 years	461	397	82.5	366	32	8.0	84	6	1	28	49
55 to 64 years	656	534	62.4	483	51	9.8	322	14	4	85	219
55 to 59 years	453	335	74.0	316	19	5.8	118	9	-	48	61
60 to 64 years	402	196	49.3	167	32	18.0	204	5	4	38	157
65 years and over	651	122	14.3	114	8	6.4	730	30	-	80	820
65 to 69 years	307	68	22.3	63	5	(¹)	238	17	-	28	193
70 years and over	545	54	9.8	51	2	(¹)	491	13	-	51	427
Women											
16 years and over	10,546	5,815	53.2	4,671	944	16.6	4,931	3,100	895	233	703
16 to 19 years	1,125	345	30.7	169	175	50.9	780	99	810	1	70
16 to 17 years	541	92	17.0	34	58	82.8	449	16	415	1	16
18 to 19 years	584	252	43.2	135	118	48.6	331	83	195	-	53
20 to 24 years	1,483	968	58.5	603	265	30.5	615	369	171	7	68
25 to 54 years	5,526	3,814	89.0	3,346	466	12.2	1,712	1,349	104	79	179
25 to 34 years	2,567	1,821	70.9	1,536	285	15.8	748	570	79	18	78
25 to 29 years	1,373	974	70.9	778	197	20.3	400	298	41	10	50
30 to 34 years	1,194	848	71.0	780	87	10.3	348	272	38	8	27
35 to 44 years	1,698	1,239	73.0	1,120	119	9.8	457	367	21	15	54
35 to 39 years	931	687	73.7	620	66	9.8	244	195	12	5	31
40 to 44 years	765	552	72.2	499	53	9.5	213	171	8	10	23
45 to 54 years	1,283	754	59.7	693	62	8.2	509	412	4	46	47
45 to 49 years	852	406	62.3	367	39	9.6	246	207	3	24	11
50 to 54 years	611	348	56.9	325	23	6.5	263	205	1	22	36
55 to 64 years	1,112	492	44.2	455	38	7.4	820	445	9	65	101
55 to 59 years	590	310	52.8	283	27	8.8	280	213	3	33	31
60 to 64 years	522	182	34.8	173	9	5.0	340	232	6	32	70
65 years and over	1,301	87	7.5	85	2	1.7	1,203	838	-	80	286
65 to 69 years	425	61	14.3	59	2	(¹)	384	256	-	22	65
70 years and over	876	36	4.1	36	-	(¹)	839	581	-	58	200

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-4. Employment status of the black-and-other civilian noninstitutional population by age and sex

(Numbers in thousands)

Age and sex	November 1983								Not in labor force
	Civilian noninstitutional population	Civilian labor force							
		Total	Percent of population	Employed			Unemployed		
				Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL									
16 years and over	23,827	14,442	61.1	12,225	243	11,982	2,217	15.4	9,185
16 to 19 years	2,650	923	34.8	528	5	523	395	42.8	1,727
16 to 17 years	1,295	253	19.6	129	2	127	124	49.0	1,041
18 to 19 years	1,355	670	49.4	399	3	396	271	40.5	685
20 to 24 years	3,344	2,212	66.1	1,618	26	1,592	594	26.9	1,133
25 to 54 years	12,796	9,818	76.7	6,709	161	6,547	1,107	11.3	2,980
25 to 34 years	6,026	4,627	76.8	3,979	57	3,922	648	14.0	1,399
25 to 29 years	3,185	2,420	76.0	2,011	28	1,982	409	16.9	765
30 to 34 years	2,841	1,226	43.2	1,969	29	1,940	239	19.5	834
35 to 44 years	3,970	3,200	80.6	2,902	49	2,853	297	9.3	770
35 to 39 years	2,173	1,760	81.0	1,579	27	1,552	182	10.3	412
40 to 44 years	1,798	1,440	80.1	1,325	23	1,301	115	8.0	358
45 to 54 years	2,799	1,989	71.0	1,827	55	1,773	161	8.1	811
45 to 49 years	1,453	1,068	73.5	970	28	943	98	9.2	385
50 to 54 years	1,347	921	68.4	857	27	830	64	6.9	426
55 to 64 years	2,353	1,232	52.3	1,126	38	1,088	106	8.6	1,122
55 to 59 years	1,237	753	60.9	698	23	675	54	7.2	484
60 to 64 years	1,116	479	42.9	428	16	412	51	10.7	637
65 years and over	2,484	280	10.5	245	13	232	15	5.9	2,224
85 to 69 years	856	153	17.9	146	5	140	8	5.2	703
70 years and over	1,628	107	6.6	99	8	91	10	9.3	1,522
Men									
16 years and over	10,758	7,586	70.5	6,410	213	6,197	1,175	15.5	3,172
16 to 19 years	1,339	508	38.0	307	5	302	202	39.7	831
16 to 17 years	663	140	21.1	80	1	79	59	42.4	523
18 to 19 years	877	369	54.5	226	4	222	142	38.6	308
20 to 24 years	1,588	1,181	75.3	871	22	849	311	28.3	367
25 to 54 years	5,803	5,089	87.7	4,498	144	4,354	591	11.6	715
25 to 34 years	2,735	2,362	87.1	2,049	48	2,001	333	14.0	352
25 to 29 years	1,436	1,223	85.2	1,027	25	1,002	196	16.1	213
30 to 34 years	1,299	1,160	89.3	1,023	23	1,000	137	11.8	139
35 to 44 years	1,794	1,629	90.8	1,466	46	1,420	163	10.0	165
35 to 39 years	991	908	91.6	801	24	777	107	11.8	83
40 to 44 years	804	722	89.8	666	22	643	58	7.8	82
45 to 54 years	1,274	1,077	84.5	982	50	933	95	8.8	197
45 to 49 years	673	583	86.7	525	26	500	58	9.9	90
50 to 54 years	602	494	82.1	457	24	433	37	7.4	108
55 to 64 years	1,045	860	83.2	598	32	567	62	9.3	385
55 to 59 years	551	400	72.7	376	19	357	24	6.0	150
60 to 64 years	494	260	52.6	222	13	210	38	14.5	234
65 years and over	1,002	147	14.6	138	12	125	10	7.0	856
85 to 69 years	355	82	23.1	76	4	72	8	7.2	273
70 years and over	647	85	10.0	60	8	53	4	(¹)	563
Women									
16 years and over	12,869	6,857	53.3	5,815	29	5,785	1,042	15.2	6,013
18 to 19 years	1,311	415	31.6	221	-	222	194	46.7	896
16 to 17 years	632	114	18.0	49	1	48	65	57.2	518
18 to 19 years	679	301	44.3	172	-	174	129	42.8	378
20 to 24 years	1,776	1,030	58.0	747	4	743	283	27.5	745
25 to 54 years	6,993	4,727	67.8	4,211	17	4,193	516	10.9	2,265
25 to 34 years	3,292	2,244	68.2	1,929	9	1,920	315	14.0	1,047
25 to 29 years	1,749	1,197	68.4	984	3	980	213	17.8	552
30 to 34 years	1,542	1,047	67.9	946	6	940	102	9.7	495
35 to 44 years	2,178	1,570	72.2	1,436	3	1,433	134	8.5	605
35 to 39 years	1,182	852	72.1	778	3	775	75	8.8	329
40 to 44 years	994	718	72.2	659	1	658	59	8.3	276
45 to 54 years	1,525	912	59.8	845	5	840	67	7.3	613
45 to 49 years	780	485	62.2	445	2	443	40	8.2	295
50 to 54 years	745	427	57.3	400	3	397	27	6.3	318
55 to 64 years	1,308	571	43.7	528	7	521	44	7.7	737
55 to 59 years	886	352	39.7	322	4	318	30	8.6	334
60 to 64 years	623	219	35.2	206	3	202	14	6.2	403
65 years and over	1,482	113	7.7	108	1	107	5	4.5	1,368
85 to 69 years	501	71	14.2	70	1	68	2	(¹)	430
70 years and over	981	42	4.3	39	-	38	3	(¹)	939

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-5. Employment status of the civilian noninstitutional population by race, sex, and age

(Numbers in thousands)

Employment status and race	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years	
	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
TOTAL								
Civilian noninstitutional population	173,058	174,951	74,094	75,327	83,385	84,553	15,579	15,072
Civilian labor force	110,855	112,147	58,193	58,996	44,566	45,475	8,095	7,677
Percent of population	64.1	64.1	78.5	78.3	53.4	53.8	52.0	50.9
Employed	99,379	103,018	52,870	54,631	40,620	42,294	6,089	6,093
Agriculture	3,360	3,152	2,460	2,342	552	596	348	215
Nonagricultural industries	98,019	99,866	50,210	52,289	40,068	41,698	5,741	5,879
Unemployed	11,476	9,129	5,523	4,365	3,946	3,180	2,007	1,584
Unemployment rate	10.4	8.1	9.5	7.4	8.9	7.0	24.8	20.6
Not in labor force	62,203	62,804	15,900	16,331	38,819	39,078	7,484	7,395
White								
Civilian noninstitutional population	149,887	151,324	64,919	85,908	72,062	72,994	12,906	12,422
Civilian labor force	96,593	97,705	51,247	51,919	38,208	39,033	7,137	6,754
Percent of population	64.4	64.8	78.9	78.8	53.0	53.5	55.3	54.4
Employed	87,872	90,793	46,899	48,527	35,194	36,700	5,579	5,565
Agriculture	3,091	2,910	2,237	2,134	528	566	327	210
Nonagricultural industries	84,581	87,884	44,662	46,394	34,666	36,134	5,253	5,355
Unemployed	8,921	6,912	4,349	3,391	3,014	2,332	1,556	1,188
Unemployment rate	9.2	7.1	8.5	6.5	7.9	6.0	21.6	17.6
Not in labor force	53,294	53,619	13,672	13,990	33,854	33,961	5,769	5,668
Black								
Civilian noninstitutional population	18,723	19,057	7,256	7,434	9,233	9,421	2,232	2,202
Civilian labor force	11,447	11,580	5,476	5,566	5,188	5,271	782	743
Percent of population	61.1	60.8	75.4	74.9	56.2	55.9	35.0	33.7
Employed	9,210	9,629	4,462	4,743	4,365	4,502	383	385
Agriculture	203	165	170	150	14	17	19	-
Nonagricultural industries	9,007	9,464	4,291	4,593	4,352	4,485	364	385
Unemployed	2,237	1,950	1,014	823	823	769	400	356
Unemployment rate	19.5	16.8	18.5	14.8	15.9	14.8	51.1	48.2
Not in labor force	7,277	7,477	1,782	1,868	4,045	4,150	1,450	1,459

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-6. Employment status of the civilian noninstitutional population 16 to 21 years of age by major activity, sex, and race

(Numbers in thousands)

Employment status and major activity	November 1983								
	Total			White			Black		
	Both sexes	Men	Women	Both sexes	Men	Women	Both sexes	Men	Women
TOTAL									
Civilian noninstitutional population	23,107	11,480	11,827	19,129	9,502	9,628	3,304	1,591	1,713
Civilian labor force	13,543	7,072	6,471	11,765	6,098	5,667	1,453	778	675
Percent of population	58.6	61.6	55.7	61.5	64.2	58.9	44.0	48.9	39.4
Employed	11,096	5,704	5,393	9,985	5,078	4,907	852	463	389
Agriculture	355	301	54	336	284	52	5	3	2
Nonagricultural industries	10,742	5,403	5,339	9,649	4,793	4,855	847	460	387
Unemployed	2,447	1,369	1,078	1,780	1,020	759	601	315	286
Looking for full-time work	1,465	878	587	1,018	634	382	412	224	188
Looking for part-time work	981	490	491	763	386	377	189	91	98
Percent of labor force	18.1	19.4	16.7	15.1	16.7	13.4	41.4	40.5	42.4
Not in labor force	9,564	4,408	5,156	7,365	3,404	3,961	1,852	813	1,039
Major activity: Going to school									
Civilian noninstitutional population	12,155	6,195	5,960	9,981	5,091	4,890	1,758	867	891
Civilian labor force	4,493	2,261	2,232	3,996	1,993	2,003	375	203	172
Percent of population	37.0	36.5	37.4	40.0	39.1	41.0	21.3	23.5	19.3
Employed	3,569	1,768	1,801	3,300	1,618	1,684	173	98	75
Agriculture	113	95	18	107	90	17	-	-	-
Nonagricultural industries	3,455	1,673	1,783	3,192	1,526	1,667	173	98	75
Unemployed	924	493	431	896	377	319	202	106	96
Looking for full-time work	59	41	18	30	20	10	28	21	6
Looking for part-time work	865	452	413	666	357	309	174	84	90
Percent of labor force	20.6	21.8	19.3	17.4	18.9	15.9	53.8	52.2	56.1
Not in labor force	7,862	3,934	3,729	5,985	3,098	2,887	1,383	663	720
Major activity: Other									
Civilian noninstitutional population	10,952	5,285	5,667	9,149	4,411	4,738	1,546	724	822
Civilian labor force	9,050	4,811	4,239	7,769	4,105	3,664	1,077	574	503
Percent of population	82.6	91.0	74.8	84.9	93.1	77.3	69.7	79.3	61.2
Employed	7,528	3,936	3,592	6,685	3,462	3,223	676	365	314
Agriculture	242	206	36	229	194	35	5	3	2
Nonagricultural industries	7,286	3,730	3,556	6,456	3,268	3,189	674	362	312
Unemployed	1,523	875	647	1,064	643	441	399	210	189
Looking for full-time work	1,406	837	569	987	614	373	384	202	182
Looking for part-time work	116	38	78	97	29	68	15	7	8
Percent of labor force	16.8	18.2	15.3	13.9	15.7	12.0	37.0	36.6	37.7
Not in labor force	1,902	474	1,428	1,380	306	1,074	469	150	319

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-7. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
	Nov. 1982	Nov. 1983	Total		Employed		Unemployed			
			Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Number		Percent of labor force	
							Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
VETERANS										
Total, 25 years and over	8,263	7,896	7,774	7,390	7,056	6,870	718	520	9.2	7.0
25 to 39 years	6,643	5,744	6,349	5,514	5,727	5,091	622	423	9.8	7.7
25 to 29 years	1,016	807	945	561	797	495	148	66	15.7	11.8
30 to 34 years	2,825	2,000	2,492	1,915	2,265	1,739	227	176	9.1	9.2
35 to 39 years	3,002	3,137	2,912	3,038	2,665	2,857	247	181	8.5	6.0
40 years and over	1,620	2,152	1,425	1,876	1,329	1,779	96	97	6.7	5.2
NONVETERANS										
Total, 25 to 39 years	19,042	20,369	16,035	19,209	16,240	17,756	1,795	1,453	10.0	7.6
25 to 29 years	8,399	8,783	7,910	8,207	6,979	7,489	931	718	11.6	8.7
30 to 34 years	6,333	6,993	6,007	6,636	5,499	6,195	508	441	6.5	6.6
35 to 39 years	4,310	4,593	4,118	4,366	3,762	4,072	356	294	8.6	6.7

NOTE: Male Vietnam-era veterans are those who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data

are limited to those 25 to 39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

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

(Numbers in thousands)

Sex, age, and race	November 1983								
	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									
Total, 16 years and over	95,352	81,919	6,003	7,430	7.8	16,796	15,096	1,700	10.1
16 to 19 years	3,434	2,022	653	759	22.1	4,243	3,418	825	19.4
16 to 17 years	386	194	84	108	27.9	2,425	1,900	525	21.6
18 to 19 years	3,048	1,829	568	651	21.4	1,818	1,518	300	16.5
20 years and over	91,918	79,897	5,350	6,671	7.3	12,552	11,678	874	7.0
20 to 24 years	13,274	10,277	1,297	1,700	12.8	2,642	2,368	274	10.4
25 years and over	78,645	69,619	4,053	4,971	6.3	9,910	9,310	600	6.1
25 to 54 years	66,613	58,780	3,384	4,449	6.7	6,769	6,338	431	6.4
55 years and over	12,031	10,839	670	522	4.3	3,141	2,972	169	5.4
Men, 16 years and over	57,641	50,345	2,775	4,521	7.8	5,375	4,669	706	13.1
16 to 19 years	1,944	1,181	320	444	22.8	2,076	1,658	418	20.1
20 years and over	55,697	49,164	2,455	4,077	7.3	3,299	3,011	288	8.7
20 to 24 years	7,336	5,720	620	996	13.6	1,108	986	122	11.0
25 years and over	48,361	43,445	1,835	3,081	6.4	2,190	2,025	166	7.6
25 to 54 years	40,559	36,322	1,510	2,726	6.7	952	867	86	9.0
55 years and over	7,802	7,123	325	354	4.5	1,238	1,158	80	6.5
Women, 16 years and over	37,711	31,575	3,228	2,909	7.7	11,421	10,427	994	8.7
16 to 19 years	1,490	842	333	315	21.1	2,167	1,780	407	18.8
20 years and over	36,221	30,733	2,895	2,594	7.2	9,254	8,667	587	6.3
20 to 24 years	5,938	4,557	676	704	11.9	1,534	1,382	152	9.9
25 years and over	30,283	26,176	2,218	1,889	6.2	7,720	7,285	434	5.6
25 to 54 years	26,054	22,459	1,874	1,722	6.6	5,817	5,472	345	5.9
55 years and over	4,229	3,717	344	167	3.9	1,903	1,813	89	4.7
White									
Men, 16 years and over	50,644	44,917	2,243	3,485	6.9	4,786	4,219	566	11.8
16 to 19 years	1,677	1,085	263	329	19.6	1,835	1,504	331	18.1
20 years and over	48,968	43,832	1,980	3,156	6.4	2,951	2,716	235	8.0
20 to 24 years	6,305	5,088	504	713	11.3	958	863	95	9.9
25 years and over	42,663	38,744	1,475	2,444	5.7	1,993	1,853	140	7.0
25 to 54 years	35,575	32,216	1,211	2,147	6.0	849	774	74	8.7
55 years and over	7,089	6,528	264	297	4.2	1,144	1,079	66	5.8
Women, 16 years and over	31,830	27,119	2,670	2,041	6.4	10,445	9,626	819	7.8
16 to 19 years	1,292	780	293	219	16.9	1,950	1,641	309	15.9
20 years and over	30,538	26,339	2,376	1,822	6.0	8,495	7,985	510	6.0
20 to 24 years	5,072	4,049	572	451	8.9	1,369	1,247	121	8.9
25 years and over	25,466	22,290	1,804	1,371	5.4	7,126	6,737	389	5.5
25 to 54 years	21,768	18,998	1,525	1,244	5.7	5,377	5,068	308	5.7
55 years and over	3,698	3,292	279	127	3.4	1,749	1,689	81	4.6
Black									
Men, 16 years and over	5,532	4,202	441	888	16.1	432	314	118	27.3
16 to 19 years	221	70	47	104	47.1	177	99	79	44.4
20 years and over	5,311	4,133	394	784	14.8	255	216	39	15.3
20 to 24 years	861	510	93	257	29.9	110	92	18	16.6
25 years and over	4,451	3,623	301	527	11.8	145	125	21	14.5
25 to 54 years	3,868	3,138	250	480	12.4	72	63	9	(²)
55 years and over	583	485	51	47	8.1	73	82	12	(²)
Women, 16 years and over	4,870	3,584	488	797	16.4	745	598	147	19.7
16 to 19 years	165	43	35	86	52.4	180	91	89	49.5
20 years and over	4,705	3,541	453	711	15.1	565	508	58	10.2
20 to 24 years	751	411	96	243	32.4	117	96	22	18.5
25 years and over	3,954	3,130	357	444	11.2	448	411	36	8.0
25 to 54 years	3,505	2,774	297	434	12.4	308	276	31	10.1
55 years and over	449	356	60	10	2.2	140	135	5	3.6

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

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Family relationship	November 1983									
	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	112,147	64.1	103,018	9,129	8.1	82,804	31,845	9,722	2,510	18,727
Husbands	39,566	79.4	37,620	1,946	4.9	10,280	170	205	892	9,013
With employed wife	23,015	92.0	22,012	1,003	4.4	1,991	53	100	301	1,536
With unemployed wife	1,390	92.3	1,172	218	15.7	115	-	4	16	96
With wife not in labor force	15,161	65.0	14,436	725	4.8	8,173	116	101	575	7,381
Wives	26,511	53.2	25,006	1,505	5.7	23,335	20,894	402	255	1,983
With employed husband	23,184	61.6	22,012	1,172	5.1	14,436	13,310	333	65	728
With unemployed husband	1,221	62.7	1,003	218	17.8	725	666	20	12	27
With husband not in labor force	2,106	20.5	1,991	115	5.5	8,173	6,719	48	178	1,229
Relatives in married-couple families	13,411	61.1	11,350	2,061	15.4	8,538	877	6,057	266	1,338
16 to 19 years	5,075	50.5	4,166	910	17.9	4,967	136	4,559	11	281
20 to 24 years	5,406	75.2	4,651	755	14.0	1,786	163	1,358	31	234
25 years and over	2,930	62.1	2,533	396	13.5	1,785	578	140	224	843
Women who maintain families	5,878	60.1	5,263	615	10.5	3,908	3,008	181	142	576
Relatives in families maintained by women	5,079	58.2	3,934	1,145	22.5	3,645	841	1,646	246	913
16 to 19 years	1,342	48.2	911	430	32.1	1,564	100	1,280	5	160
20 to 24 years	1,624	73.3	1,263	360	22.2	592	131	290	15	156
25 years and over	2,113	58.7	1,760	355	16.8	1,489	610	76	226	577
Men who maintain families	1,888	75.2	1,710	178	9.4	624	33	41	75	474
Relatives in families maintained by men	1,714	61.4	1,433	281	16.4	1,077	407	355	56	259
16 to 19 years	354	55.6	274	81	22.7	283	19	245	-	19
20 to 24 years	491	74.3	396	96	19.4	170	50	77	2	41
25 years and over	869	58.3	763	104	12.0	624	338	33	54	199
Persons living alone	10,753	53.7	10,073	680	6.3	9,271	5,012	249	485	3,525
Men	5,811	72.7	5,353	459	7.9	2,187	160	157	178	1,691
Women	4,941	41.1	4,720	221	4.5	7,084	4,852	91	306	1,835
All others ¹	7,347	77.5	6,829	718	9.8	2,126	803	566	93	646

¹ The majority of these persons are living with nonrelatives. Also included are persons in married-couple families where the husband is in

the Armed Forces, persons in secondary families, and some whose family status is unknown.

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

Marital status, race, and age	Men				Women			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
Total, 16 years and over	6,660	5,227	10.7	8.3	4,816	3,902	9.9	7.9
Married, spouse present	2,868	2,097	7.1	5.2	2,199	1,631	8.3	6.0
Widowed, divorced, or separated	791	629	13.9	10.7	921	814	9.8	8.4
Single (never married)	3,000	2,501	18.7	15.2	1,697	1,457	13.6	11.8
White, 16 years and over	5,231	4,052	9.5	7.3	3,890	2,860	8.9	6.8
Married, spouse present	2,434	1,783	8.6	4.9	1,855	1,398	7.8	5.7
Widowed, divorced, or separated	606	457	13.1	9.3	667	587	8.9	7.5
Single (never married)	2,191	1,812	18.2	13.1	1,168	875	11.3	8.6
Black, 16 years and over	1,239	1,006	21.0	16.9	998	944	17.9	16.8
Married, spouse present	337	242	11.5	8.2	271	187	13.0	9.1
Widowed, divorced, or separated	189	145	18.7	16.5	225	210	13.4	12.7
Single (never married)	733	619	36.0	28.8	502	546	27.9	29.0
Total, 25 years and over	4,053	3,247	8.2	6.4	2,918	2,325	7.9	6.1
Married, spouse present	2,541	1,908	6.7	5.0	1,745	1,320	7.4	5.4
Widowed, divorced, or separated	722	585	13.4	10.3	810	692	9.2	7.6
Single (never married)	789	754	12.6	11.4	363	313	8.0	6.8
White, 25 years and over	3,230	2,584	7.4	5.8	2,271	1,760	7.1	5.4
Married, spouse present	2,150	1,619	6.3	4.7	1,469	1,127	7.0	5.2
Widowed, divorced, or separated	546	418	12.4	8.9	585	492	8.3	6.7
Single (never married)	535	547	10.4	10.0	218	141	6.0	3.9
Black, 25 years and over	701	548	15.8	11.9	549	504	12.9	11.4
Married, spouse present	301	221	10.9	7.9	212	150	11.4	7.9
Widowed, divorced, or separated	162	139	18.8	16.2	202	187	12.5	11.8
Single (never married)	238	187	27.0	20.2	135	167	16.7	18.4

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
Total, 16 years and over	11,476	9,129	10.4	8.1	10.7	8.3	9.9	7.9
Managerial and professional specialty	889	673	3.6	2.7	(¹)	2.6	(¹)	2.9
Executive, administrative, and managerial	444	355	4.0	3.1	(¹)	2.9	(¹)	3.7
Professional specialty	425	318	3.2	2.3	(¹)	2.3	(¹)	2.4
Technical, sales, and administrative support	2,229	1,852	6.7	5.5	(¹)	4.8	(¹)	5.9
Technicians and related support	152	146	4.8	4.6	(¹)	4.5	(¹)	4.6
Sales occupations	818	769	6.6	6.0	(¹)	4.5	(¹)	7.6
Administrative support, including clerical	1,259	937	7.1	5.3	(¹)	5.4	(¹)	5.3
Service occupations	1,708	1,549	11.2	9.9	(¹)	10.2	(¹)	9.7
Private household	85	75	7.0	7.1	(¹)	(¹)	(¹)	6.8
Protective service	127	93	7.0	5.2	(¹)	4.6	(¹)	9.0
Service, except private household and protective	1,497	1,381	12.2	10.8	(¹)	12.0	(¹)	10.1
Precision production, craft, and repair	1,531	1,117	11.7	7.9	(¹)	8.0	(¹)	7.7
Mechanics and repairers	354	258	8.5	5.7	(¹)	5.8	(¹)	2.5
Construction trades	746	520	15.8	10.0	(¹)	9.9	(¹)	17.3
Other precision production, craft, and repair	432	338	10.1	7.8	(¹)	7.9	(¹)	7.4
Operators, fabricators, and laborers	3,549	2,436	18.2	12.7	(¹)	12.7	(¹)	12.8
Machine operators, assemblers, and inspectors	1,785	1,135	19.4	12.3	(¹)	11.7	(¹)	13.1
Transportation and material moving occupations	671	470	13.9	9.8	(¹)	9.9	(¹)	8.3
Handlers, equipment cleaners, helpers, and laborers	1,093	831	20.0	16.3	(¹)	16.8	(¹)	13.3
Construction laborers	198	167	24.7	20.1	(¹)	19.0	(¹)	(¹)
Other handlers, equipment cleaners, helpers, and laborers	895	664	19.2	15.5	(¹)	16.3	(¹)	12.0
Farming, forestry, and fishing	442	405	10.9	10.8	(¹)	10.3	(¹)	13.2
No previous work experience	1,155	1,055	-	-	-	-	-	-
16 to 19 years	862	705	-	-	-	-	-	-
20 to 24 years	168	243	-	-	-	-	-	-
25 years and over	125	106	-	-	-	-	-	-

¹ Data for 1982 are not shown because they do not meet reliability standards for publication.

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

A-12. Unemployed persons by industry and sex

Industry	Thousands of persons		Unemployment rates					
	Total		Total		Men		Women	
	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
Total, 16 years and over	11,476	9,129	10.4	8.1	10.7	8.3	9.9	7.9
Nonagricultural private wage and salary workers	8,956	6,824	11.0	8.3	11.6	8.6	10.2	7.8
Mining	166	115	15.9	11.4	18.2	12.6	1.9	6.1
Construction	1,014	759	19.4	13.6	19.9	13.7	13.5	12.8
Manufacturing	3,145	1,911	14.2	8.7	13.3	8.4	16.0	9.3
Durable goods	2,167	1,163	16.4	8.9	15.8	9.0	17.9	8.6
Lumber and wood products	117	78	17.7	11.6	17.9	11.6	17.1	11.5
Furniture and fixtures	82	63	15.3	10.5	13.5	10.2	19.3	11.2
Stone, clay, and glass products	103	54	18.7	9.2	16.1	7.5	19.0	14.7
Primary metal industries	288	157	26.7	15.9	26.3	15.3	29.9	20.8
Fabricated metal products	251	166	18.2	11.3	18.1	11.2	18.3	11.6
Machinery, except electrical	452	206	18.1	7.8	15.8	8.1	17.3	7.0
Electrical machinery, equipment, and supplies	331	144	13.0	6.1	10.7	5.5	16.0	7.0
Transportation equipment	368	198	17.5	7.7	16.3	8.0	22.2	6.5
Automobiles	238	104	23.1	6.5	20.4	8.5	34.9	8.6
Other transportation equipment	131	91	12.2	6.9	12.2	7.5	11.5	4.5
Professional and photographic equipment	69	48	10.5	6.5	9.5	6.8	11.8	6.2
Other durable goods industries	105	53	12.7	9.9	7.2	9.7	19.5	10.2
Nondurable goods	977	748	11.0	8.5	8.8	7.3	14.1	10.1
Food and kindred products	255	226	13.1	12.6	11.0	11.0	17.3	15.8
Textile mill products	80	41	10.8	5.2	10.2	4.5	11.2	5.9
Apparel and other textile products	205	136	16.0	10.1	14.5	12.5	16.4	9.5
Paper and allied products	56	38	7.4	5.6	6.9	4.0	9.2	11.1
Printing and publishing	103	79	8.6	4.8	6.5	4.1	6.7	5.8
Chemicals and allied products	96	77	7.9	8.4	6.0	5.5	12.1	8.5
Rubber and miscellaneous plastics products	92	90	12.9	11.5	10.4	8.0	17.5	17.6
Other nondurable goods industries	91	60	14.0	10.8	8.4	11.0	21.2	10.8
Transportation and public utilities	459	359	7.9	6.3	8.2	6.9	6.9	4.6
Transportation	385	280	11.7	7.2	11.7	7.9	11.4	4.5
Communications and other public utilities	74	79	2.9	3.1	2.6	2.9	3.6	3.6
Wholesale and retail trade	2,202	1,905	10.4	8.9	9.5	8.1	11.4	9.8
Wholesale trade	316	289	7.9	6.5	7.5	5.8	8.7	8.4
Retail trade	1,886	1,636	11.0	9.5	10.1	9.0	11.7	9.9
Finance, insurance, and real estate	331	258	5.6	4.2	5.7	4.3	5.5	4.1
Service industries	1,642	1,518	8.1	7.3	9.0	8.1	7.5	6.7
Professional services	613	573	5.2	4.8	5.0	4.6	5.3	4.9
Other service industries	1,029	945	12.1	10.4	12.6	10.8	11.6	10.0
Agricultural wage and salary workers	328	300	17.8	17.7	16.7	16.6	22.3	22.0
Government, self-employed, and unpaid family workers	1,035	951	3.9	3.6	3.7	3.6	4.2	3.5
No previous work experience	1,155	1,055	-	-	-	-	-	-

NOTE: Data for 1982 are not fully comparable with 1983 data as a result of revisions in industrial classifications in 1983.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Reason for unemployment	Total unemployed		Men, 20 years and over		Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
NUMBER OF UNEMPLOYED												
Total unemployed	11,476	9,129	5,523	4,365	3,946	3,180	2,007	1,584	8,921	6,912	2,237	1,950
Job losers	7,029	5,007	4,449	3,281	2,097	1,399	484	327	5,546	3,918	1,386	1,039
On layoff	2,261	1,228	1,518	793	616	378	127	57	1,931	1,010	297	190
Other job losers	4,768	3,779	2,931	2,488	1,481	1,021	357	270	3,615	2,908	1,090	848
Job leavers	795	874	284	341	377	398	134	135	668	753	16	14
Reentrants	2,502	2,193	673	599	1,298	1,178	532	416	1,931	1,547	507	556
New entrants	1,149	1,055	118	144	175	205	857	706	775	694	328	342
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	61.3	54.8	80.6	75.2	53.1	44.0	24.2	20.7	62.1	56.7	62.0	53.3
On layoff	19.7	13.4	27.5	18.2	15.6	11.9	6.4	3.6	21.6	14.6	13.3	9.8
Other job losers	41.6	41.4	53.1	57.0	37.5	32.1	17.8	17.1	40.5	42.1	48.7	43.5
Job leavers	6.9	9.6	5.1	7.8	9.6	12.5	6.7	8.5	7.5	10.9	.7	.7
Reentrants	21.8	24.0	12.2	13.7	32.9	37.0	26.5	26.3	21.6	22.4	22.7	28.5
New entrants	10.0	11.6	2.1	3.3	4.4	6.4	42.7	44.6	8.7	10.0	14.7	17.5
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE												
Job losers	6.3	4.5	7.6	5.5	4.7	3.0	6.0	4.2	5.7	4.0	12.1	9.0
Job leavers .....	.7	.8	.5	.6	.8	.9	1.7	1.8	.7	.8	.1	.1
Reentrants	2.3	2.0	1.2	1.0	2.9	2.6	6.6	5.4	2.0	1.6	4.4	4.8
New entrants	1.0	.9	.2	.2	.4	.5	10.6	9.2	.6	.7	2.9	3.0

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

(Percent distribution)

Reason, sex, and age	November 1983						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over	9,129	100.0	36.0	29.1	34.8	13.3	21.6
Job losers	5,007	100.0	29.5	27.5	43.0	13.8	29.3
On layoff	1,228	100.0	43.7	26.2	28.1	7.7	20.5
Other job losers	3,779	100.0	24.2	27.9	47.9	15.8	32.1
Job leavers	874	100.0	45.2	28.4	26.4	14.2	12.2
Reentrants	2,193	100.0	44.4	32.3	23.2	10.6	12.7
New entrants	1,055	100.0	41.8	31.2	27.0	15.6	11.4
Men, 20 years and over	4,365	100.0	28.7	26.6	44.6	14.0	30.7
Job losers	3,281	100.0	26.8	26.2	47.0	13.5	33.5
On layoff	793	100.0	42.9	25.5	31.6	7.5	24.1
Other job losers	2,488	100.0	21.7	26.4	51.9	15.4	36.5
Job leavers	341	100.0	32.7	30.6	36.7	17.0	19.7
Reentrants	599	100.0	36.8	27.7	35.4	13.2	22.2
New entrants	144	100.0	28.0	23.3	48.7	21.0	27.7
Women, 20 years and over	3,180	100.0	41.7	29.0	29.3	12.3	17.1
Job losers	1,399	100.0	32.1	28.0	39.9	14.8	25.1
On layoff	378	100.0	49.0	26.5	24.5	8.4	16.1
Other job losers	1,021	100.0	25.8	28.6	45.6	17.1	28.5
Job leavers	398	100.0	53.2	23.7	23.1	13.9	9.2
Reentrants	1,178	100.0	49.0	31.3	19.7	9.3	10.4
New entrants	205	100.0	42.9	32.5	24.8	8.9	15.7
Both sexes, 16 to 19 years	1,584	100.0	44.7	36.4	18.9	13.3	5.6
Job losers	327	100.0	45.0	37.9	17.1	12.6	4.5
On layoff	57	100.0	(¹)	(¹)	(¹)	(¹)	(¹)
Other job losers	270	100.0	41.4	38.8	19.8	14.3	5.6
Job leavers	135	100.0	53.0	36.8	10.2	7.9	2.3
Reentrants	416	100.0	42.5	41.8	15.7	10.3	5.4
New entrants	706	100.0	44.3	32.4	23.3	16.5	6.8

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

A-15. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
	Total, 16 years and over	11,476	9,129	100.0	100.0	9,528	7,430	100.0	100.0
Less than 5 weeks	3,908	3,287	34.1	36.0	2,957	2,405	31.0	32.4
5 to 14 weeks	3,530	2,661	30.8	29.1	2,673	2,113	30.2	28.4
5 to 10 weeks	2,468	1,932	21.5	21.2	1,974	1,509	20.7	20.3
11 to 14 weeks	1,062	729	9.3	8.0	899	603	9.4	8.1
15 weeks and over	4,038	3,181	35.2	34.8	3,699	2,912	38.8	39.2
15 to 26 weeks	1,914	1,211	16.7	13.3	1,687	1,061	17.7	14.3
27 weeks and over	2,124	1,970	18.5	21.6	2,012	1,851	21.1	24.9
27 to 51 weeks	1,060	693	9.2	7.6	1,007	649	10.6	8.7
52 weeks and over	1,063	1,277	9.3	14.0	1,006	1,202	10.6	16.2
Average (mean) duration, in weeks	16.9	19.6	-	-	18.4	21.8	-	-
Median duration, in weeks	9.5	8.9	-	-	10.5	10.2	-	-

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-16. Unemployed persons by sex, age, race, marital status, and duration of unemployment

Sex, age, race, and marital status	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
								Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
	November 1983										
Total, 16 years and over	9,129	3,287	2,661	1,211	1,970	19.6	8.9	34.1	36.0	35.2	34.8
16 to 19 years	1,584	708	576	211	88	10.4	6.1	43.2	44.7	24.5	18.9
20 to 24 years	1,974	802	590	249	333	16.2	7.7	35.8	40.6	32.5	29.5
25 to 34 years	2,629	935	741	365	588	20.4	9.3	31.1	35.6	36.6	36.3
35 to 44 years	1,384	402	361	171	450	25.4	11.4	30.6	29.1	38.8	44.9
45 to 54 years	868	235	237	118	278	25.8	12.8	28.6	27.1	43.5	45.7
55 to 64 years	589	177	129	77	206	28.9	13.8	30.4	30.1	46.1	48.0
65 years and over	102	29	27	19	28	23.3	10.6	44.7	28.0	38.9	45.3
Men, 16 years and over	5,227	1,611	1,480	739	1,396	23.3	10.6	31.6	30.8	37.9	40.9
16 to 19 years	862	358	317	129	57	11.7	6.8	42.0	41.6	25.0	21.6
20 to 24 years	1,118	400	352	158	209	17.9	8.9	32.3	35.7	35.5	32.8
25 to 34 years	1,502	442	392	229	439	25.3	12.2	27.7	29.4	40.5	44.5
35 to 44 years	791	203	183	89	316	30.4	16.3	26.8	25.6	41.6	51.2
45 to 54 years	519	109	143	75	192	29.1	16.2	29.3	21.0	45.8	51.4
55 to 64 years	372	86	76	46	164	35.0	21.2	31.1	23.1	47.0	56.4
65 years and over	62	13	16	14	19	(¹)	(¹)	43.9	(¹)	44.2	(¹)
Women, 16 years and over	3,902	1,676	1,181	472	574	14.7	6.9	37.5	42.9	31.5	26.8
16 to 19 years	722	350	259	82	31	8.9	5.3	44.9	48.5	23.7	15.6
20 to 24 years	856	402	238	92	124	14.0	5.9	40.8	47.0	28.2	25.2
25 to 34 years	1,126	492	349	137	149	13.9	6.7	35.9	43.7	31.2	25.3
35 to 44 years	593	199	178	82	133	18.8	8.8	35.9	33.6	35.0	36.4
45 to 54 years	349	126	94	43	86	20.9	10.3	27.7	36.0	40.6	37.1
55 to 64 years	217	91	52	31	42	18.5	8.4	29.4	42.1	44.7	33.7
65 years and over	40	15	11	5	9	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	6,912	2,586	1,983	897	1,445	19.0	8.6	34.2	37.4	34.1	33.9
Men	4,052	1,300	1,152	545	1,055	22.5	10.1	31.5	32.1	37.5	39.5
Women	2,860	1,286	831	353	391	14.1	6.4	38.1	45.0	29.3	26.0
Black, 16 years and over	1,950	586	599	285	480	22.3	9.6	31.9	30.1	40.9	39.2
Men	1,006	250	282	168	305	27.2	12.8	30.7	24.9	40.5	47.1
Women	944	336	317	117	175	17.1	7.5	33.4	35.6	41.3	30.9
Men, 16 years and over:											
Married, spouse present	2,097	591	524	291	691	26.9	13.2	30.6	28.2	40.7	46.8
Widowed, divorced, or separated	629	149	154	93	234	28.1	16.6	27.8	23.6	40.8	51.9
Single (never married)	2,501	872	803	355	472	19.1	8.9	33.4	34.8	34.3	33.1
Women, 16 years and over:											
Married, spouse present	1,631	731	467	189	244	14.2	6.6	36.9	44.8	30.3	26.6
Widowed, divorced, or separated	814	290	257	105	161	18.7	9.1	34.6	35.7	36.1	32.7
Single (never married)	1,457	654	457	178	168	13.0	6.2	39.9	44.9	30.6	23.7

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

A-17. Unemployed persons by occupation, industry, and duration of unemployment

Occupation and industry	Thousands of persons					Weeks		Percent of unemployed in group			
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unemployed less than 5 weeks		Unemployed 15 weeks and over	
	November 1983							Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
OCCUPATION											
Managerial and professional specialty	673	221	167	103	182	21.6	11.2	27.9	32.9	37.0	42.3
Technical, sales, and administrative support	1,852	689	578	264	320	16.2	8.3	34.7	37.2	34.6	31.6
Service occupations	1,549	564	517	208	260	16.1	8.6	37.0	36.4	29.2	30.2
Precision production, craft, and repair	1,117	382	276	130	329	24.1	10.1	31.3	34.2	37.2	41.0
Operators, fabricators, and laborers	2,436	794	660	285	696	24.8	10.0	31.4	32.6	39.6	40.3
Farming, forestry, and fishing	405	188	116	45	55	15.3	6.3	53.2	46.5	21.7	24.9
INDUSTRY¹											
Agriculture	300	151	78	37	33	13.4	5.0	56.3	50.4	20.6	23.5
Construction	807	297	228	101	180	20.1	8.4	36.1	36.8	31.8	34.9
Manufacturing	1,920	521	495	229	675	27.7	13.1	30.1	27.1	41.7	47.1
Durable goods	1,167	273	284	133	477	31.9	17.4	27.6	23.4	45.2	52.3
Nondurable goods	753	248	211	96	198	21.1	10.0	35.5	33.0	34.2	39.0
Transportation and public utilities	412	119	123	53	116	25.3	10.9	31.9	29.0	41.0	41.1
Wholesale and retail trade	1,928	787	560	246	335	15.9	7.8	36.4	40.8	30.9	30.1
Finance and service industries	2,114	778	656	306	374	17.5	8.5	33.4	36.8	33.4	32.2
Public administration	283	82	104	40	57	19.7	10.1	29.1	28.9	36.9	34.4
No previous work experience	1,055	441	329	165	120	14.5	7.2	38.2	41.8	32.6	27.0

¹ Includes wage and salary workers only.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-18. Unemployed jobseekers by sex, age, race, and jobsearch methods used

Sex, age, and race	November 1983								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	9,129	7,789	23.4	4.3	79.7	33.3	16.7	4.2	1.62
16 to 19 years	1,584	1,493	14.5	2.1	85.1	25.5	13.7	3.5	1.44
20 to 24 years	1,974	1,766	24.6	3.2	77.7	34.8	15.7	2.6	1.59
25 to 34 years	2,629	2,168	27.5	5.8	78.9	35.5	16.0	4.0	1.68
35 to 44 years	1,384	1,104	27.0	5.3	79.9	39.0	18.9	5.6	1.76
45 to 54 years	868	668	25.3	6.4	79.6	29.0	22.5	4.6	1.68
55 to 64 years	589	487	18.9	3.5	74.3	35.7	19.5	9.7	1.82
65 years and over	102	83	13.3	2.4	89.9	30.1	22.9	3.6	1.42
Men, 16 years and over	5,227	4,329	25.9	4.6	80.6	31.0	19.7	5.2	1.67
16 to 19 years	862	806	15.4	1.7	86.6	22.7	16.7	3.8	1.47
20 to 24 years	1,118	985	28.7	3.7	79.4	31.1	18.2	3.0	1.64
25 to 34 years	1,502	1,189	29.4	5.8	79.6	34.4	18.8	5.0	1.73
35 to 44 years	791	626	33.4	5.4	80.7	38.0	22.8	7.2	1.88
45 to 54 years	519	380	26.8	8.4	79.5	26.1	25.8	5.8	1.72
55 to 64 years	372	312	19.9	3.5	74.0	32.4	21.2	12.2	1.63
65 years and over	62	51	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Women, 16 years and over	3,902	3,440	20.2	3.9	78.5	36.2	13.1	3.0	1.55
16 to 19 years	722	686	13.6	2.6	83.5	28.9	10.1	3.4	1.42
20 to 24 years	856	801	19.6	2.6	75.8	39.3	12.6	2.1	1.52
25 to 34 years	1,126	979	25.2	5.7	78.0	36.9	12.7	2.8	1.61
35 to 44 years	593	477	18.7	4.8	79.0	40.5	13.8	3.6	1.60
45 to 54 years	349	288	23.3	3.5	79.9	33.0	18.4	3.1	1.61
55 to 64 years	217	176	17.0	3.4	74.4	41.5	16.5	5.1	1.58
65 years and over	40	33	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
White, 16 years and over	6,912	5,793	22.2	4.6	79.4	34.9	17.2	4.5	1.63
Men	4,052	3,305	24.9	5.3	81.2	32.8	19.7	5.4	1.69
Women	2,860	2,488	18.6	3.7	77.1	37.7	13.9	3.2	1.54
Black, 16 years and over	1,950	1,746	25.9	3.5	80.4	14.8	28.3	3.3	1.56
Men	1,006	880	28.3	2.4	78.9	18.8	23.9	4.1	1.56
Women	944	866	23.6	4.6	82.0	10.9	32.8	2.7	1.56

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

NOTE: The jobseekers total is less than the total unemployed because persons on layoff or waiting to begin a new 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.

A-19. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used

Sex and reason	November 1983								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	9,129	7,769	23.4	4.3	79.7	33.3	16.7	4.2	1.62
Job losers ¹	5,007	3,774	29.1	5.3	80.8	34.9	20.3	4.3	1.75
Job leavers	874	853	19.3	4.6	79.7	38.8	18.3	1.9	1.63
Reentrants	2,193	2,097	19.1	3.5	75.0	31.5	11.7	5.5	1.46
New entrants	1,055	1,045	14.8	2.0	84.9	26.8	12.7	3.3	1.44
Men, 16 years and over	5,227	4,329	25.9	4.6	80.6	31.0	19.7	5.2	1.67
Job losers ¹	3,491	2,653	29.6	5.2	81.5	32.4	21.5	5.3	1.76
Job leavers	406	401	20.9	4.5	82.5	36.9	21.4	2.7	1.69
Reentrants	837	788	21.3	3.8	73.0	28.0	14.6	8.1	1.49
New entrants	490	486	17.1	2.5	86.6	23.7	16.7	1.6	1.48
Women, 16 years and over	3,902	3,440	20.2	3.9	78.5	36.2	13.1	3.0	1.55
Job losers ¹	1,516	1,121	27.7	5.3	79.1	40.9	17.6	2.0	1.73
Job leavers	466	452	17.9	4.6	77.2	40.5	15.5	1.1	1.57
Reentrants	1,356	1,310	17.7	3.4	76.3	33.6	10.1	3.9	1.45
New entrants	565	559	12.9	1.6	83.4	29.5	9.1	4.7	1.41

¹ Data on the number of jobseekers and the jobsearch methods used exclude persons on layoff.

NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within

30 days, groups for whom jobseeking information is not collected. The percent using each method will always total more than 100 because many jobseekers use more than one method.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-20. Employed civilians in agriculture and nonagricultural industries by age and sex

(In thousands)

Industry and age	Total		Men		Women	
	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
All industries	99,379	103,018	55,707	57,789	43,672	45,229
16 to 19 years	6,089	6,093	3,037	3,158	3,052	2,935
16 to 17 years	2,251	2,178	1,122	1,102	1,128	1,076
18 to 19 years	3,838	3,915	1,915	2,056	1,923	1,859
20 to 24 years	13,510	13,942	7,015	7,326	6,495	6,616
25 to 54 years	65,379	68,503	37,111	38,699	28,269	29,803
25 to 34 years	28,353	29,712	15,965	16,677	12,388	13,036
35 to 44 years	21,177	22,789	11,980	12,856	9,197	9,933
45 to 54 years	15,848	16,001	9,166	9,167	6,683	6,834
55 to 64 years	11,481	11,481	6,777	6,789	4,704	4,692
55 to 59 years	6,944	6,996	4,084	4,139	2,859	2,857
60 to 64 years	4,537	4,485	2,693	2,650	1,845	1,835
65 years and over	2,920	3,000	1,767	1,817	1,153	1,183
Agriculture	3,360	3,152	2,739	2,524	620	629
16 to 19 years	348	215	280	182	68	33
16 to 17 years	150	85	127	76	24	9
18 to 19 years	197	130	153	106	44	24
20 to 24 years	433	392	356	328	77	63
25 to 54 years	1,801	1,756	1,431	1,372	369	382
25 to 34 years	720	719	591	591	129	128
35 to 44 years	576	577	446	440	130	136
45 to 54 years	505	459	394	341	110	118
55 to 64 years	465	502	409	392	76	110
55 to 59 years	262	284	214	211	49	74
60 to 64 years	223	217	195	181	27	36
65 years and over	294	289	264	249	30	40
Nonagricultural industries	96,019	99,866	52,968	55,265	43,051	44,600
16 to 19 years	5,741	5,879	2,758	2,976	2,983	2,902
16 to 17 years	2,100	2,093	996	1,026	1,104	1,067
18 to 19 years	3,641	3,785	1,762	1,950	1,879	1,836
20 to 24 years	13,077	13,550	6,659	6,998	6,418	6,552
25 to 54 years	63,579	66,747	35,679	37,327	27,900	29,421
25 to 34 years	27,634	28,993	15,374	16,086	12,260	12,907
35 to 44 years	20,601	22,213	11,534	12,416	9,067	9,797
45 to 54 years	15,344	15,541	8,771	8,825	6,573	6,716
55 to 64 years	10,996	10,979	6,368	6,397	4,628	4,582
55 to 59 years	6,881	6,712	3,871	3,928	2,810	2,783
60 to 64 years	4,315	4,267	2,498	2,469	1,817	1,798
65 years and over	2,626	2,711	1,504	1,568	1,123	1,143

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(In thousands)

Occupation	Total		Men				Women			
	16 years and over		16 years and over		20 years and over		16 years and over		20 years and over	
	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
Total	99,379	103,018	55,707	57,789	52,670	54,631	43,672	45,229	40,620	42,294
Managerial and professional specialty	23,573	24,166	13,843	14,178	13,776	14,093	9,731	9,988	9,642	9,911
Executive, administrative, and managerial	10,620	10,951	7,219	7,403	7,183	7,372	3,400	3,549	3,369	3,529
Officials and administrators, public administration	(¹)	473	(¹)	327	(¹)	327	(¹)	146	(¹)	146
Other executive, administrative, and managerial	(¹)	7,552	(¹)	5,361	(¹)	5,331	(¹)	2,191	(¹)	2,182
Management-related occupations	(¹)	2,926	(¹)	1,714	(¹)	1,714	(¹)	1,212	(¹)	1,201
Professional specialty	12,954	13,214	6,623	6,775	6,594	6,720	6,330	6,439	6,273	6,382
Engineers	1,506	1,587	1,397	1,487	1,394	1,487	110	99	109	98
Mathematical and computer scientists	551	435	410	311	410	312	142	124	142	124
Natural scientists	364	330	283	253	283	251	81	76	80	76
Health diagnosing occupations	704	706	616	606	616	606	88	101	88	100
Health assessment and treating occupations	1,875	1,909	300	300	299	299	1,576	1,609	1,568	1,606
Teachers, college and university	643	649	405	409	404	408	238	240	233	233
Teachers, except college and university	3,566	3,578	1,047	1,063	1,044	1,046	2,519	2,515	2,499	2,484
Lawyers and judges	615	655	539	543	539	542	76	112	76	112
Other professional specialty occupations	3,128	3,366	1,627	1,803	1,604	1,770	1,501	1,563	1,479	1,549
Technical, sales, and administrative support	31,017	31,691	11,055	11,137	10,556	10,596	19,962	20,555	18,454	19,060
Technicians and related support	3,015	3,047	1,610	1,589	1,587	1,562	1,405	1,458	1,374	1,429
Health technologists and technicians	1,028	1,113	170	181	169	167	858	932	841	914
Engineering and science technicians	1,148	1,011	882	811	868	803	266	200	257	197
Technicians, except health, engineering, and science	839	923	557	596	549	591	282	326	275	318
Sales occupations	11,542	12,017	6,226	6,182	5,919	5,837	5,316	5,835	4,503	5,042
Supervisors and proprietors	2,641	2,969	2,243	2,139	2,232	2,122	598	830	583	814
Sales representatives, finance and business services	1,752	1,891	1,118	1,160	1,113	1,156	635	732	616	725
Sales representatives, commodities, except retail	1,467	1,402	1,239	1,162	1,227	1,152	228	240	217	236
Sales workers, retail and personal services	5,457	5,687	1,617	1,688	1,337	1,377	3,840	3,999	3,072	3,235
Sales-related occupations	25	68	10	34	10	30	15	34	15	32
Administrative support, including clerical	16,460	16,627	3,219	3,365	3,050	3,197	13,241	13,262	12,577	12,588
Supervisors	(¹)	667	(¹)	295	(¹)	295	(¹)	371	(¹)	371
Computer equipment operators	603	696	211	262	199	254	392	434	378	409
Secretaries, stenographers, and typists	4,927	4,942	86	87	81	79	4,841	4,855	4,575	4,604
Financial records processing	2,451	2,470	235	273	230	270	2,216	2,197	2,152	2,127
Mail and message distributing	817	832	567	567	537	532	250	265	238	253
Other administrative support, including clerical	(¹)	7,021	(¹)	1,881	(¹)	1,768	(¹)	5,140	(¹)	4,824
Service occupations	13,578	14,141	5,341	5,557	4,530	4,667	8,237	8,584	7,114	7,528
Private household	1,119	990	43	33	30	19	1,076	957	858	742
Protective service	1,672	1,706	1,470	1,497	1,441	1,474	202	209	193	199
Service, except private household and protective	10,786	11,444	3,827	4,027	3,059	3,174	6,958	7,418	6,064	6,587
Food service	4,865	5,042	1,704	1,853	1,155	1,222	3,161	3,189	2,535	2,587
Health service	1,721	1,764	195	164	174	161	1,526	1,600	1,408	1,503
Cleaning and building service	2,537	2,700	1,582	1,656	1,411	1,459	955	1,044	888	989
Personal service	1,663	1,939	346	354	319	332	1,316	1,585	1,234	1,507
Precision production, craft, and repair	11,611	12,956	10,686	11,799	10,362	11,458	925	1,157	902	1,117
Mechanics and repairers	3,802	4,276	3,673	4,132	3,546	4,042	129	144	126	141
Construction trades	3,981	4,668	3,849	4,574	3,710	4,381	132	95	125	89
Other precision production, craft, and repair	3,828	4,012	3,164	3,093	3,106	3,035	664	919	651	887
Operators, fabricators, and laborers	15,950	16,723	11,714	12,317	10,722	11,263	4,236	4,406	3,997	4,178
Machine operators, assemblers, and inspectors	7,437	8,109	4,357	4,736	4,164	4,534	3,081	3,373	2,965	3,268
Manufacturing industries	6,214	6,766	3,543	3,873	3,423	3,733	2,671	2,894	2,579	2,815
Durable goods	3,391	3,711	2,228	2,567	2,153	2,494	1,163	1,144	1,126	1,116
Nondurable goods	2,823	3,056	1,315	1,306	1,271	1,240	1,508	1,750	1,453	1,699
Nonmanufacturing industries	1,223	1,343	813	864	741	801	410	479	386	452
Transportation and material moving occupations	4,149	4,342	3,831	4,005	3,707	3,883	317	337	298	321
Motor vehicle operators	2,948	3,084	2,669	2,808	2,578	2,709	279	276	259	262
Other transportation and material moving occupations	1,201	1,258	1,162	1,197	1,129	1,174	39	61	39	59
Handlers, equipment cleaners, helpers, and laborers	4,364	4,272	3,526	3,576	2,850	2,847	838	696	734	590
Construction laborers	604	665	582	659	512	589	22	6	18	6
Other handlers, equipment cleaners, helpers, and laborers	3,759	3,608	2,943	2,917	2,339	2,258	816	690	717	584
Farming, forestry, and fishing	3,622	3,342	3,064	2,802	2,722	2,554	557	540	494	500
Farm operators and managers	1,485	1,446	1,308	1,244	1,294	1,230	177	202	177	198
Other farming, forestry, and fishing occupations	2,137	1,897	1,756	1,558	1,428	1,325	380	339	316	302

¹ Data for 1982 are not shown because they do not meet reliability standards for publication.

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Percent distribution)

Occupation and race	Total		Men		Women	
	November 1982	November 1983	November 1982	November 1983	November 1982	November 1983
TOTAL						
Total, 16 years and over (thousands)	99,379	103,018	55,707	57,789	43,672	45,229
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	23.7	23.5	24.9	24.5	22.3	22.1
Executive, administrative, and managerial	10.7	10.6	13.0	12.8	7.8	7.8
Professional specialty	13.0	12.8	11.9	11.7	14.5	14.2
Technical, sales, and administrative support	31.2	30.8	19.8	19.3	45.7	45.4
Technicians and related support	3.0	3.0	2.9	2.7	3.2	3.2
Sales occupations	11.6	11.7	11.2	10.7	12.2	12.9
Administrative support, including clerical	16.6	16.1	5.8	5.8	30.3	29.3
Service occupations	13.7	13.7	9.6	9.6	18.9	19.0
Private household	1.1	1.0	.1	.1	2.5	2.1
Protective service	1.7	1.7	2.6	2.6	.5	.5
Service, except private household and protective	10.9	11.1	6.9	7.0	15.9	16.4
Precision production, craft, and repair	11.7	12.6	19.2	20.4	2.1	2.6
Operators, fabricators, and laborers	16.1	16.2	21.0	21.3	9.7	9.7
Machine operators, assemblers, and inspectors	7.5	7.9	7.8	8.2	7.1	7.5
Transportation and material moving occupations	4.2	4.2	6.9	6.9	.7	.7
Handlers, equipment cleaners, helpers, and laborers	4.4	4.1	6.3	6.2	1.9	1.5
Farming, forestry, and fishing	3.6	3.2	5.5	4.8	1.3	1.2
White						
Total, 16 years and over (thousands)	87,672	90,793	49,684	51,379	37,988	39,414
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	24.7	24.4	26.0	25.7	23.0	22.9
Executive, administrative, and managerial	11.4	11.2	13.8	13.5	8.2	8.3
Professional specialty	13.3	13.2	12.2	12.2	14.7	14.6
Technical, sales, and administrative support	31.9	31.5	20.3	19.8	47.0	46.8
Technicians and related support	3.1	2.9	2.9	2.8	3.2	3.1
Sales occupations	12.3	12.3	11.8	11.4	12.9	13.6
Administrative support, including clerical	16.6	16.2	5.6	5.6	30.9	30.1
Service occupations	12.4	12.5	8.6	8.7	17.5	17.4
Private household .....	.9	.8	.1	(¹)	2.0	1.7
Protective service	1.6	1.6	2.5	2.5	.4	.4
Service, except private household and protective	9.9	10.2	6.0	6.2	15.0	15.3
Precision production, craft, and repair	12.1	13.0	19.7	21.0	2.1	2.5
Operators, fabricators, and laborers	15.2	15.3	19.9	20.0	9.0	9.1
Machine operators, assemblers, and inspectors	7.0	7.3	7.4	7.7	6.5	6.9
Transportation and material moving occupations	4.1	4.1	6.6	6.6	.7	.7
Handlers, equipment cleaners, helpers, and laborers	4.1	3.9	5.9	5.7	1.8	1.5
Farming, forestry, and fishing	3.7	3.3	5.5	4.9	1.3	1.3
Black						
Total, 16 years and over (thousands)	9,210	9,629	4,646	4,958	4,564	4,671
Percent	100.0	100.0	100.0	100.0	100.0	100.0
Managerial and professional specialty	(²)	13.6	(²)	11.9	(²)	15.4
Executive, administrative, and managerial	(²)	5.2	(²)	5.9	(²)	4.5
Professional specialty	(²)	8.4	(²)	5.9	(²)	10.9
Technical, sales, and administrative support	(²)	25.1	(²)	14.3	(²)	36.5
Technicians and related support	(²)	2.7	(²)	1.6	(²)	3.8
Sales occupations	(²)	5.9	(²)	4.4	(²)	7.4
Administrative support, including clerical	(²)	16.6	(²)	8.3	(²)	25.3
Service occupations	(²)	24.3	(²)	17.6	(²)	31.4
Private household	(²)	3.0	(²)	.2	(²)	6.1
Protective service	(²)	2.6	(²)	4.3	(²)	.9
Service, except private household and protective	(²)	18.7	(²)	13.2	(²)	24.5
Precision production, craft, and repair	(²)	9.5	(²)	16.3	(²)	2.2
Operators, fabricators, and laborers	(²)	25.1	(²)	35.5	(²)	14.1
Machine operators, assemblers, and inspectors	(²)	12.3	(²)	13.2	(²)	11.3
Transportation and material moving occupations	(²)	6.0	(²)	10.7	(²)	.9
Handlers, equipment cleaners, helpers, and laborers	(²)	6.9	(²)	11.6	(²)	1.9
Farming, forestry, and fishing	(²)	2.4	(²)	4.4	(²)	.3

¹ Less than 0.05 percent.

² Data for 1982 are not shown because they do not meet reliability

standards for publication.

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

(In thousands)

Age and sex	November 1983								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self-employed workers	Unpaid family workers	Wage and salary workers	Self-employed workers	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	91,594	1,227	15,790	74,578	7,822	449	1,392	1,551	210
16 to 19 years	5,743	285	326	5,133	98	38	139	25	50
16 to 17 years	2,027	193	82	1,752	61	6	50	5	30
18 to 19 years	3,717	92	244	3,381	37	32	89	20	20
20 to 24 years	13,161	151	1,240	11,770	368	20	271	101	20
25 to 34 years	26,923	152	4,535	22,236	1,998	72	411	279	29
35 to 44 years	20,040	149	4,277	15,614	2,040	132	228	315	34
45 to 54 years	13,897	174	3,007	10,716	1,544	101	148	278	32
55 to 64 years	9,714	193	2,043	7,477	1,200	65	148	328	26
55 to 59 years	6,010	102	1,323	4,585	667	35	94	174	16
60 to 64 years	3,704	92	720	2,892	533	30	54	154	10
65 years and over	2,116	124	361	1,631	575	20	47	224	18
Men, 16 years and over	49,971	172	7,693	42,105	5,240	55	1,130	1,316	78
16 to 19 years	2,888	63	130	2,696	59	28	113	22	47
16 to 17 years	980	40	32	908	40	6	41	5	29
18 to 19 years	1,908	23	98	1,787	19	22	72	17	18
20 to 24 years	6,734	28	543	6,162	260	4	228	83	17
25 to 34 years	14,756	14	2,146	12,596	1,320	9	340	244	7
35 to 44 years	11,070	11	2,104	8,956	1,345	-	181	259	-
45 to 54 years	7,813	30	1,545	6,237	1,007	5	114	226	1
55 to 64 years	5,534	10	1,037	4,486	857	6	111	280	-
55 to 59 years	3,459	7	667	2,785	467	2	61	149	-
60 to 64 years	2,074	3	370	1,701	390	4	50	132	-
65 years and over	1,176	16	168	972	390	2	41	202	5
Women, 16 years and over	41,624	1,055	8,096	32,472	2,583	394	262	235	132
16 to 19 years	2,855	222	196	2,437	36	9	26	3	3
16 to 17 years	1,046	153	50	844	20	-	9	-	1
18 to 19 years	1,809	69	146	1,594	18	9	17	4	3
20 to 24 years	6,428	123	697	5,606	108	16	43	18	3
25 to 34 years	12,167	137	2,389	9,640	677	63	71	35	22
35 to 44 years	8,970	138	2,173	6,658	695	132	46	57	33
45 to 54 years	6,064	143	1,462	4,479	536	96	34	53	31
55 to 64 years	4,160	183	1,006	2,990	343	59	37	48	26
55 to 59 years	2,551	95	657	1,800	199	33	33	25	16
60 to 64 years	1,629	89	350	1,191	143	26	4	23	10
65 years and over	940	106	174	658	185	18	6	21	13

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-24. Employed civilians by Industry and occupation

(In thousands)

Industry	November 1983												
	Total employed	Managerial and professional specialty		Technical, sales, and administrative support			Service occupations		Precision production, craft, and repair	Operators, fabricators, and laborers			Farming, forestry, and fishing
		Executive, administrative, and managerial	Professional specialty	Technicians and related support	Sales	Administrative support, including clerical	Private household	Other service ¹		Machine operators, assemblers, and inspectors	Transportation and material moving	Handlers, equipment cleaners, helpers, and laborers	
Agriculture	3,152	41	61	9	21	102	-	19	54	12	19	2,766	
Mining	916	134	95	38	5	142	-	5	289	32	140	2	
Construction	6,603	709	124	56	49	414	-	33	3,889	87	475	12	
Manufacturing	20,574	2,036	1,613	718	695	2,529	-	367	4,001	6,766	822	93	
Durable goods	12,293	1,182	1,124	515	311	1,454	-	204	2,807	3,711	426	81	
Nondurable goods	8,281	854	489	202	384	1,076	-	164	1,194	3,056	396	11	
Transportation and public utilities	7,048	728	417	179	241	1,904	-	196	1,244	128	1,546	11	
Wholesale and retail trade	21,673	1,764	382	69	8,780	2,263	-	4,111	1,415	315	828	26	
Wholesale trade	4,191	462	58	25	1,603	777	-	47	308	148	438	15	
Retail trade	17,482	1,302	324	44	7,177	1,486	-	4,064	1,107	167	390	11	
Finance, insurance, and real estate	6,688	1,600	145	115	1,528	2,805	-	281	126	16	10	41	
Services	31,640	2,984	9,762	1,632	673	5,149	990	6,973	1,693	702	424	359	
Private households	1,233	-	17	26	-	14	990	42	3	-	10	101	
Other service industries	30,407	2,984	9,745	1,606	673	5,135	-	6,933	1,690	702	414	258	
Professional services	20,947	1,652	8,831	1,359	150	3,835	-	4,202	367	158	255	70	
Public administration	4,724	955	615	231	27	1,319	-	1,165	244	51	46	33	

¹ Includes protective service, not shown separately.

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
	Nov. 1982	Nov. 1983	Total		Wage and salary workers ¹			
			Nov. 1982	Nov. 1983	Paid absences		Unpaid absences	
					Nov. 1982	Nov. 1983	Nov. 1982	Nov. 1983
Total, 16 years and over	3,718	3,639	3,569	3,510	1,712	1,634	1,373	1,417
Vacation	1,368	1,386	1,329	1,359	939	987	254	250
Illness	1,289	1,236	1,250	1,207	586	492	563	629
Bad weather	76	94	42	54	(²)	(²)	(²)	(²)
Industrial dispute	52	48	52	48	(²)	(²)	(²)	(²)
All other reasons	932	873	895	842	187	155	556	538
Men, 16 years and over	2,023	2,041	1,892	1,934	1,017	1,039	585	625
Vacation	870	862	835	842	648	681	95	110
Illness	649	675	617	651	296	312	266	297
All other reasons ²	504	504	439	440	73	66	224	218
Women, 16 years and over	1,695	1,598	1,677	1,576	694	595	787	793
Vacation	499	524	493	517	291	326	158	140
Illness	639	563	633	556	290	180	297	332
All other reasons ²	557	511	551	504	113	90	333	320

¹ Excludes private household workers.

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

³ Includes bad weather and industrial dispute, not shown separately.
NOTE: Estimates for "all other reasons" by pay status may be biased because of high response variance; data should be used with caution.

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

Hours of work	November 1983					
	Thousands of persons			Percent distribution		
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries
Total, 16 years and over	99,379	3,023	96,356	100.0	100.0	100.0
1 to 34 hours	31,265	959	30,306	31.5	31.7	31.5
1 to 4 hours	902	47	855	.9	1.6	.9
5 to 14 hours	4,874	249	4,625	4.9	8.2	4.8
15 to 29 hours	13,948	448	13,500	14.0	14.8	14.0
30 to 34 hours	11,541	215	11,326	11.6	7.1	11.8
35 hours and over	68,114	2,064	66,049	68.5	68.3	68.5
35 to 39 hours	6,574	158	6,416	6.6	5.2	6.7
40 hours	36,810	543	36,268	37.0	18.0	37.6
41 hours and over	24,730	1,363	23,365	24.9	45.1	24.2
41 to 48 hours	9,072	217	8,854	9.1	7.2	9.2
49 to 59 hours	9,061	464	8,597	9.1	15.3	8.9
60 hours and over	6,597	682	5,914	6.6	22.6	6.1
Average hours, total at work	37.6	42.2	37.5	-	-	-
Average hours, workers on full-time schedules	42.3	50.0	42.1	-	-	-

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

(Numbers in thousands)

Reason for working less than 35 hours	November 1983					
	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	31,265	12,832	18,433	30,306	12,447	17,859
Economic reasons	6,002	1,810	4,192	5,700	1,660	4,040
Slack work	2,675	1,465	1,210	2,473	1,346	1,127
Material shortages or repairs to plant and equipment	42	42	-	41	41	-
New job started during week	183	183	-	172	172	-
Job terminated during week	121	121	-	103	103	-
Could find only part-time work	2,982	-	2,982	2,912	-	2,912
Other reasons	25,262	11,021	14,241	24,603	10,784	13,819
Does not want, or unavailable for, full-time work	11,905	-	11,905	11,587	-	11,587
Vacation	1,014	1,014	-	994	994	-
Illness	1,467	1,307	160	1,426	1,281	145
Bad weather	451	451	-	373	373	-
Industrial dispute	17	17	-	17	17	-
Legal or religious holiday	6,910	6,910	-	6,890	6,890	-
Full time for this job	1,555	-	1,555	1,516	-	1,516
All other reasons	1,942	1,322	620	1,803	1,232	571
Average hours:						
Economic reasons	21.6	24.3	20.4	21.7	24.6	20.5
Other reasons	22.8	28.5	18.4	22.9	28.6	18.5
Worked 30 to 34 hours:						
Economic reasons	1,701	780	921	1,635	737	898
Other reasons	9,840	7,631	2,209	9,691	7,531	2,160

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

A-28. Persons at work in nonagricultural industries by class of worker and full- or part-time status

(Numbers in thousands)

Industry	November 1983								
	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	96,356	5,700	13,819	76,837	53,472	8,854	14,511	37.5	42.1
Wage and salary workers	88,501	4,996	12,313	71,192	50,777	8,247	12,168	37.3	41.7
Mining	849	23	13	813	228	109	239	44.3	45.4
Construction	5,065	439	262	4,364	3,254	468	642	37.8	40.6
Manufacturing	19,458	691	674	18,093	12,744	2,687	2,662	40.5	42.0
Durable goods	11,616	277	306	11,033	7,755	1,651	1,627	41.0	41.9
Nondurable goods	7,842	414	369	7,059	4,987	1,036	1,036	39.9	42.0
Transportation and public utilities	6,354	211	299	5,844	4,097	623	1,124	40.4	42.1
Wholesale and retail trade	19,046	1,740	4,499	12,807	8,229	1,836	2,742	35.7	43.1
Finance, insurance, and real estate	5,890	140	566	5,184	3,941	504	739	37.7	40.0
Service industries	27,345	1,676	5,683	19,986	14,684	1,762	3,540	35.3	41.6
Private households	1,197	265	563	369	243	35	91	23.0	44.9
All other industries	26,148	1,411	5,120	19,617	14,441	1,727	3,449	35.9	41.5
Public administration	4,493	77	317	4,099	3,362	258	479	36.3	38.0
Self-employed workers	7,406	667	1,314	5,425	2,585	583	2,257	39.6	47.4
Unpaid family workers	449	36	192	221	111	24	86	33.4	45.9

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

(Numbers in thousands)

Sex, age, race, and marital status	November 1983							
	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								
Total, 16 years and over	96,356	5,700	13,819	76,837	53,472	23,365	37.5	42.1
16 to 19 years	5,742	633	3,235	1,874	1,473	401	24.1	40.2
16 to 17 years	2,047	79	1,796	172	156	16	16.1	37.2
18 to 19 years	3,695	552	1,439	1,704	1,319	385	28.5	40.5
20 years and over	90,614	5,068	10,584	74,962	51,997	22,965	38.3	42.1
20 to 24 years	13,192	1,239	2,249	9,704	7,158	2,546	35.6	41.3
25 years and over	77,423	3,830	8,335	65,258	44,840	20,418	38.8	42.2
25 to 44 years	49,519	2,557	4,464	42,498	28,747	13,751	39.3	42.4
45 to 64 years	25,399	1,165	2,634	21,600	15,275	6,325	36.7	41.9
65 years and over	2,505	107	1,237	1,161	820	341	28.6	42.0
Men, 16 years and over	53,332	2,533	4,134	46,665	29,426	17,239	40.4	43.5
16 to 19 years	2,900	300	1,538	1,062	802	260	25.0	40.6
16 to 17 years	1,001	31	871	99	89	10	16.4	38.0
18 to 19 years	1,899	269	667	963	713	250	29.6	40.9
20 years and over	50,432	2,233	2,596	45,603	28,624	16,979	41.3	43.5
20 to 24 years	6,820	570	924	5,326	3,622	1,704	37.4	42.4
25 years and over	43,613	1,663	1,672	40,278	25,003	15,275	42.0	43.7
25 to 44 years	27,627	1,120	623	25,884	15,662	10,222	42.6	44.0
45 to 64 years	14,540	479	423	13,638	6,842	4,796	41.8	43.2
65 years and over	1,446	64	625	757	500	257	30.8	43.2
Women, 16 years and over	43,024	3,168	9,685	30,171	24,045	6,126	33.8	39.9
16 to 19 years	2,842	332	1,697	813	670	143	23.1	39.6
16 to 17 years	1,046	48	925	73	66	7	15.8	(¹)
18 to 19 years	1,796	283	772	741	606	135	27.3	39.9
20 years and over	40,182	2,835	7,988	29,359	23,375	5,984	34.6	39.9
20 to 24 years	6,372	671	1,325	4,376	3,534	842	33.7	40.0
25 years and over	33,810	2,166	6,664	24,980	19,837	5,143	34.7	39.9
25 to 44 years	21,894	1,438	3,841	16,615	13,085	3,530	35.3	40.0
45 to 64 years	10,858	685	2,211	7,962	6,432	1,530	34.6	39.6
65 years and over	1,059	43	612	404	320	84	25.7	39.7
RACE								
White, 16 years and over	84,784	4,671	12,662	67,451	45,768	21,663	37.6	42.3
Men	47,328	2,055	3,727	41,546	25,458	16,088	40.7	43.7
Women	37,457	2,617	8,935	25,905	20,310	5,595	33.7	40.1
Black, 16 years and over	9,123	887	841	7,395	6,166	1,229	36.2	40.0
Men	4,651	403	286	3,962	3,126	636	38.1	41.2
Women	4,472	485	554	3,433	3,041	392	34.3	38.5
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present	35,500	1,133	1,221	33,146	20,353	12,793	42.3	43.8
Widowed, divorced, or separated	4,631	287	240	4,304	2,702	1,602	41.0	43.4
Single (never married)	13,001	1,113	2,673	9,215	6,370	2,845	35.3	42.4
Women, 16 years and over:								
Married, spouse present	24,044	1,550	5,730	16,764	13,535	3,229	33.7	39.7
Widowed, divorced, or separated	8,443	680	1,125	6,638	5,118	1,520	36.2	40.4
Single (never married)	10,536	936	2,830	6,770	5,393	1,377	32.2	40.0

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

**HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Occupation and sex	November 1983								
	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	96,195	5,870	13,757	76,768	53,317	8,878	14,574	37.5	42.1
Managerial and professional specialty	23,467	533	2,305	20,630	12,629	2,277	5,724	40.5	43.5
Executive, administrative, and managerial	10,632	152	525	9,958	5,682	1,196	3,078	42.6	44.1
Professional specialty	12,638	381	1,780	10,674	6,947	1,081	2,647	38.7	42.8
Technical, sales, and administrative support	30,809	1,449	5,664	23,496	17,326	2,503	3,668	36.1	41.1
Technicians and related support	2,953	87	335	2,532	1,982	248	301	37.4	40.4
Sales occupations	11,581	804	2,519	8,258	4,593	1,143	2,522	37.7	45.0
Administrative support, including clerical	18,075	558	2,810	12,707	10,750	1,112	844	34.7	38.8
Service occupations	13,641	1,611	4,053	7,977	6,115	768	1,094	32.1	41.5
Private household	965	199	476	290	187	27	76	23.4	45.6
Protective service	1,608	48	151	1,409	919	205	285	40.4	43.5
Service, except private household and protective	11,068	1,384	3,426	6,278	5,009	536	733	31.6	40.9
Precision production, craft, and repair	12,451	745	434	11,273	7,798	1,439	2,036	40.2	42.1
Operators, fabricators, and laborers	16,026	1,333	1,302	13,392	9,451	1,888	2,053	38.5	42.0
Machine operators, assemblers, and inspectors	7,786	502	293	6,991	5,199	1,020	772	39.4	41.3
Transportation and material moving occupations	4,127	278	289	3,559	2,093	488	978	41.1	44.5
Handlers, equipment cleaners, helpers, and laborers	4,113	553	720	2,841	2,159	380	303	34.0	40.6
Men, 16 years and over	53,082	2,499	4,050	48,533	29,245	5,839	11,449	40.5	43.5
Managerial and professional specialty	13,787	236	668	12,883	7,062	1,396	4,425	43.4	45.1
Executive, administrative, and managerial	7,190	96	226	6,869	3,546	814	2,508	44.3	45.5
Professional specialty	6,597	141	442	6,014	3,515	581	1,918	42.3	44.7
Technical, sales, and administrative support	10,781	297	1,079	9,384	5,503	1,256	2,626	40.9	44.2
Technicians and related support	1,547	25	114	1,407	1,028	156	224	39.3	41.5
Sales occupations	5,987	179	606	5,202	2,411	781	2,031	43.1	46.8
Administrative support, including clerical	3,227	93	359	2,775	2,064	340	371	37.7	40.8
Service occupations	5,372	419	1,128	3,828	2,754	425	649	35.6	42.5
Private household	33	9	13	12	9	2	1	(¹)	(¹)
Protective service	1,407	33	90	1,284	821	185	278	41.8	43.8
Service, except private household and protective	3,932	377	1,023	2,532	1,924	238	370	33.4	41.8
Precision production, craft, and repair	11,345	686	327	10,332	7,078	1,343	1,911	40.4	42.2
Operators, fabricators, and laborers	11,817	861	851	10,106	8,848	1,420	1,838	39.3	42.6
Machine operators, assemblers, and inspectors	4,559	172	97	4,291	3,048	629	613	40.9	42.0
Transportation and material moving occupations	3,807	250	187	3,390	1,972	466	951	42.0	44.7
Handlers, equipment cleaners, helpers, and laborers	3,452	440	587	2,426	1,827	324	274	34.2	40.8
Women, 16 years and over	43,113	3,171	9,707	30,235	24,073	3,036	3,126	33.8	39.9
Managerial and professional specialty	9,680	296	1,637	7,747	5,567	881	1,299	36.4	40.8
Executive, administrative, and managerial	3,441	56	298	3,087	2,135	382	570	39.0	41.2
Professional specialty	6,239	241	1,338	4,680	3,431	500	729	34.9	40.5
Technical, sales, and administrative support	19,848	1,152	4,585	14,112	11,823	1,247	1,042	33.5	39.1
Technicians and related support	1,406	62	221	1,124	954	92	78	35.4	39.0
Sales occupations	5,594	825	1,913	3,056	2,183	382	491	31.9	41.9
Administrative support, including clerical	12,848	465	2,451	9,932	8,686	773	473	34.0	38.2
Service occupations	8,289	1,192	2,928	4,149	3,361	343	445	29.8	40.7
Private household	932	191	464	278	178	26	74	23.3	45.4
Protective service	201	14	61	125	98	20	7	30.9	40.1
Service, except private household and protective	7,136	987	2,403	3,746	3,085	298	363	30.6	40.3
Precision production, craft, and repair	1,107	59	107	941	720	96	125	38.2	41.2
Operators, fabricators, and laborers	4,209	472	451	3,286	2,602	468	215	36.1	40.1
Machine operators, assemblers, and inspectors	3,227	331	196	2,701	2,151	391	159	37.4	40.2
Transportation and material moving occupations	321	28	122	170	120	22	27	30.7	41.6
Handlers, equipment cleaners, helpers, and laborers	661	113	133	415	331	55	29	32.6	39.4

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-31. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted

(Numbers in thousands)

Employment status and sex	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
TOTAL													
Noninstitutional population ¹	174,718	174,864	175,021	175,169	175,320	175,465	175,622	175,793	175,970	176,122	176,297	176,474	176,636
Labor force ¹	112,702	112,794	112,215	112,217	112,148	112,457	112,418	113,600	113,539	113,943	114,063	113,510	113,721
Percent of population ²	64.5	64.5	64.1	64.1	64.0	64.1	64.0	64.6	64.5	64.7	64.7	64.3	64.4
Total employed ¹	100,796	100,758	100,770	100,727	100,767	101,129	101,226	102,454	102,949	103,245	103,640	103,623	104,356
Employment-population ratio ³	57.7	57.6	57.6	57.5	57.5	57.6	57.6	58.3	58.5	58.6	58.8	58.7	59.1
Resident Armed Forces	1,660	1,665	1,667	1,664	1,664	1,671	1,669	1,668	1,664	1,682	1,695	1,695	1,685
Civilian employed	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285	101,563	101,945	101,928	102,671
Agriculture	3,466	3,411	3,412	3,393	3,375	3,371	3,367	3,522	3,527	3,489	3,290	3,202	3,232
Nonagricultural industries	95,670	95,682	95,691	95,670	95,729	96,088	96,190	97,264	97,758	98,074	98,655	98,726	99,440
Unemployed	11,906	12,036	11,446	11,490	11,381	11,328	11,192	11,146	10,590	10,699	10,423	9,866	9,364
Unemployment rate ⁴	10.6	10.7	10.2	10.2	10.1	10.1	10.0	9.8	9.3	9.4	9.1	8.7	8.2
Not in labor force	62,016	62,070	62,606	62,952	63,172	63,008	63,204	62,193	62,431	62,179	62,234	62,965	62,916
Men													
Noninstitutional population ¹	83,402	83,581	83,652	83,720	83,789	83,856	83,931	84,014	84,099	84,173	84,261	84,344	84,423
Labor force ¹	64,414	64,384	63,916	63,996	63,957	64,207	64,276	64,816	64,864	64,814	64,944	64,690	64,885
Percent of population ²	77.2	77.0	76.4	76.4	76.3	76.6	76.6	77.1	77.1	77.0	77.1	76.7	76.9
Total employed ¹	57,408	57,338	57,283	57,234	57,300	57,476	57,656	58,464	58,625	58,570	58,826	58,912	59,438
Employment-population ratio ³	68.8	68.6	68.5	68.4	68.4	68.5	68.7	69.6	69.7	69.6	69.8	69.8	70.4
Resident Armed Forces	1,516	1,529	1,531	1,528	1,528	1,530	1,528	1,525	1,521	1,538	1,549	1,543	1,534
Civilian employed	55,892	55,809	55,752	55,706	55,772	55,946	56,128	56,939	57,104	57,032	57,277	57,369	57,904
Unemployed	7,006	7,046	6,633	6,762	6,657	6,731	6,620	6,351	6,238	6,244	6,118	5,778	5,447
Unemployment rate ⁴	10.9	10.9	10.4	10.6	10.4	10.5	10.3	9.8	9.6	9.6	9.4	8.9	8.4
Not in labor force	18,988	19,197	19,736	19,724	19,832	19,649	19,655	19,198	19,235	19,359	19,317	19,654	19,538
Women													
Noninstitutional population ¹	91,316	91,283	91,369	91,449	91,532	91,609	91,691	91,779	91,871	91,949	92,036	92,129	92,214
Labor force ¹	48,288	48,410	48,299	48,220	48,191	48,251	48,142	48,784	48,675	49,130	49,119	48,819	48,836
Percent of population ²	52.9	53.0	52.9	52.7	52.6	52.7	52.5	53.2	53.0	53.4	53.4	53.0	53.0
Total employed ¹	43,388	43,420	43,486	43,493	43,467	43,653	43,569	43,990	44,324	44,675	44,814	44,712	44,918
Employment-population ratio ³	47.5	47.6	47.6	47.6	47.5	47.7	47.5	47.9	48.2	48.6	48.7	48.5	48.7
Resident Armed Forces	144	136	136	136	136	141	141	143	143	144	146	152	151
Civilian employed	43,244	43,284	43,350	43,357	43,331	43,512	43,428	43,847	44,181	44,531	44,668	44,560	44,767
Unemployed	4,900	4,990	4,813	4,727	4,724	4,597	4,572	4,795	4,351	4,455	4,305	4,108	3,917
Unemployment rate ⁴	10.1	10.3	10.0	9.8	9.8	9.5	9.5	9.8	8.9	9.1	8.8	8.4	8.0
Not in labor force	43,028	42,873	43,070	43,229	43,341	43,358	43,549	42,995	43,196	42,819	42,917	43,310	43,378

¹ Includes members of the Armed Forces stationed in the United States.

² Labor force as a percent of the noninstitutional population.

³ Total employment as a percent of the noninstitutional population.

⁴ Unemployment as a percent of the labor force (including the resident

Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-31 through A-40 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-32. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted

(Numbers in thousands)

Employment status, sex, and age	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
TOTAL													
Civilian noninstitutional population ¹	173,058	173,199	173,354	173,505	173,656	173,794	173,953	174,125	174,306	174,440	174,602	174,779	174,951
Civilian labor force	111,042	111,129	110,548	110,553	110,484	110,786	110,749	111,932	111,875	112,261	112,368	111,815	112,036
Percent of population	64.2	64.2	63.8	63.7	63.6	63.7	63.7	64.3	64.2	64.4	64.4	64.0	64.0
Employed	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285	101,563	101,945	101,928	102,671
Employment-population ratio ²	57.3	57.2	57.2	57.1	57.1	57.2	57.2	57.9	58.1	58.2	58.4	58.3	58.7
Unemployed	11,906	12,036	11,446	11,490	11,381	11,328	11,192	11,146	10,590	10,699	10,423	9,886	9,364
Unemployment rate	10.7	10.8	10.4	10.4	10.3	10.2	10.1	10.0	9.5	9.5	9.3	8.8	8.4
Men, 20 years and over													
Civilian noninstitutional population ¹	74,094	74,236	74,339	74,434	74,528	74,611	74,712	74,814	74,927	75,012	75,115	75,216	75,327
Civilian labor force	58,454	58,443	58,048	58,177	58,170	58,454	58,506	58,804	59,016	58,945	59,053	58,947	59,103
Percent of population	78.9	78.7	78.1	78.2	78.1	78.3	78.3	78.6	78.8	78.6	78.6	78.4	78.5
Employed	52,589	52,534	52,452	52,428	52,589	52,752	52,901	53,516	53,808	53,771	53,928	54,121	54,503
Employment-population ratio ²	71.0	70.8	70.6	70.4	70.6	70.7	70.8	71.5	71.8	71.7	71.8	72.0	72.4
Agriculture	2,434	2,389	2,426	2,374	2,420	2,404	2,443	2,529	2,544	2,496	2,431	2,362	2,319
Nonagricultural industries	50,155	50,145	50,025	50,054	50,169	50,348	50,458	50,987	51,264	51,275	51,497	51,758	52,185
Unemployed	5,865	5,909	5,597	5,749	5,581	5,702	5,605	5,288	5,208	5,174	5,125	4,826	4,600
Unemployment rate	10.0	10.1	9.6	9.9	9.6	9.8	9.6	9.0	8.8	8.8	8.7	8.2	7.8
Not in labor force	15,640	15,793	16,291	16,257	16,358	16,157	16,208	16,010	15,911	16,067	16,062	18,269	16,224
Women, 20 years and over													
Civilian noninstitutional population ¹	83,385	83,383	83,490	83,593	83,699	83,794	83,899	84,008	84,122	84,224	84,333	84,443	84,553
Civilian labor force	44,112	44,286	44,201	44,216	44,166	44,238	44,228	44,648	44,685	45,003	45,132	44,930	44,936
Percent of population	52.9	53.1	52.9	52.9	52.8	52.8	52.7	53.1	53.1	53.4	53.5	53.2	53.1
Employed	40,123	40,215	40,238	40,291	40,277	40,509	40,484	40,789	41,164	41,394	41,614	41,583	41,765
Employment-population ratio ²	48.1	48.2	48.2	48.2	48.1	48.3	48.3	48.6	48.9	49.1	49.3	49.2	49.4
Agriculture	590	628	625	657	647	622	597	636	607	630	574	581	643
Nonagricultural industries	39,533	39,587	39,613	39,634	39,630	39,886	39,887	40,153	40,557	40,764	41,040	41,002	41,122
Unemployed	3,989	4,071	3,983	3,925	3,889	3,729	3,744	3,859	3,521	3,609	3,518	3,347	3,170
Unemployment rate	9.0	9.2	9.0	8.9	8.8	8.4	8.5	8.6	7.9	8.0	7.8	7.4	7.1
Not in labor force	39,273	39,097	39,289	39,377	39,533	39,556	39,671	39,360	39,437	39,221	39,201	39,513	39,617
Both sexes, 16 to 19 years													
Civilian noninstitutional population ¹	15,579	15,580	15,525	15,478	15,429	15,389	15,342	15,303	15,257	15,204	15,154	15,120	15,072
Civilian labor force	8,476	8,400	8,299	8,160	8,148	8,094	8,015	8,480	8,173	8,313	8,184	7,938	7,997
Percent of population	54.4	53.9	53.5	52.7	52.8	52.6	52.2	55.4	53.6	54.7	54.0	52.5	53.1
Employed	6,424	6,344	6,413	6,345	6,237	6,197	6,172	6,481	6,313	6,397	6,404	6,225	6,403
Employment-population ratio ²	41.2	40.7	41.3	41.0	40.4	40.3	40.2	42.4	41.4	42.1	42.3	41.2	42.5
Agriculture	442	394	361	362	308	344	327	357	376	362	285	259	270
Nonagricultural industries	5,982	5,950	6,052	5,983	5,929	5,853	5,845	6,124	5,937	6,035	6,119	5,966	6,133
Unemployed	2,052	2,056	1,886	1,815	1,911	1,897	1,843	1,999	1,860	1,916	1,780	1,713	1,594
Unemployment rate	24.2	24.5	22.7	22.2	23.5	23.4	23.0	23.6	22.8	23.0	21.8	21.6	19.9
Not in labor force	7,103	7,180	7,226	7,318	7,281	7,295	7,327	6,823	7,084	6,891	6,970	7,182	7,075

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional population.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
WHITE													
Civilian noninstitutional population ¹	149,887	150,058	150,129	150,187	150,382	150,518	150,671	150,810	150,959	151,003	151,021	151,175	151,324
Civilian labor force	96,719	96,864	96,176	95,987	95,996	96,287	96,362	97,250	97,341	97,602	97,605	97,300	97,631
Percent of population	64.5	64.6	64.1	63.9	63.8	64.0	64.0	64.5	64.5	64.6	64.8	64.4	64.5
Employed	87,435	87,443	87,466	87,194	87,324	87,709	87,777	88,880	89,382	89,573	89,719	89,798	90,552
Employment-population ratio ²	58.3	58.3	58.3	58.1	58.1	58.3	58.3	58.9	59.2	59.3	59.4	59.4	59.8
Unemployed	9,284	9,421	8,711	8,793	8,872	8,577	8,585	8,370	7,959	8,029	7,885	7,502	7,079
Unemployment rate	9.6	9.7	9.1	9.2	9.0	8.9	8.9	8.6	8.2	8.2	8.1	7.7	7.3
Men, 20 years and over													
Civilian labor force	51,531	51,562	51,033	51,151	51,214	51,459	51,589	51,771	51,919	51,888	51,913	51,902	52,090
Percent of population	79.4	79.3	78.4	78.5	78.4	78.7	78.7	78.9	79.0	79.0	79.0	78.9	79.0
Employed	46,837	46,823	46,752	46,682	46,883	47,049	47,150	47,710	47,935	47,892	47,864	48,101	48,479
Employment-population ratio ²	72.1	72.0	71.8	71.6	71.8	71.9	72.0	72.7	73.0	72.9	72.9	73.1	73.6
Unemployed	4,694	4,739	4,281	4,469	4,332	4,409	4,440	4,080	3,984	3,997	4,049	3,800	3,611
Unemployment rate	9.1	9.2	8.4	8.7	8.5	8.6	8.6	7.8	7.7	7.7	7.8	7.3	6.9
Women, 20 years and over													
Civilian labor force	37,762	37,934	37,794	37,588	37,509	37,683	37,703	38,124	38,242	38,433	38,540	38,427	38,513
Percent of population	52.4	52.6	52.4	52.1	51.9	52.1	52.0	52.6	52.8	52.8	52.9	52.7	52.8
Employed	34,749	34,847	34,834	34,695	34,723	34,972	34,961	35,287	35,688	35,843	35,987	36,016	36,229
Employment-population ratio ²	48.2	48.3	48.3	48.1	48.0	48.3	48.3	48.6	49.1	49.3	49.4	49.4	49.6
Unemployed	3,013	3,087	2,960	2,893	2,787	2,711	2,742	2,837	2,574	2,590	2,553	2,411	2,264
Unemployment rate	8.0	8.1	7.8	7.7	7.4	7.2	7.3	7.4	6.7	6.7	6.6	6.3	5.9
Both sexes, 16 to 19 years													
Civilian labor force	7,426	7,368	7,349	7,248	7,273	7,145	7,069	7,355	7,180	7,281	7,151	6,971	7,028
Percent of population	57.5	57.1	57.1	56.5	56.9	56.0	55.7	58.2	57.1	56.0	57.2	56.0	56.6
Employed	5,849	5,773	5,880	5,817	5,719	5,688	5,668	5,883	5,779	5,839	5,868	5,661	5,844
Employment-population ratio ²	45.3	44.8	45.7	45.4	44.8	44.6	44.6	48.5	45.9	46.5	47.0	45.6	47.0
Unemployed	1,577	1,595	1,469	1,431	1,554	1,457	1,403	1,472	1,401	1,442	1,283	1,290	1,184
Unemployment rate	21.2	21.6	20.0	19.7	21.4	20.4	19.8	20.0	19.5	19.8	17.9	18.5	16.8
Men	22.6	22.8	21.2	21.1	22.9	21.7	20.2	19.8	20.4	21.1	18.7	20.1	17.2
Women	19.8	20.4	18.7	18.2	19.7	19.0	19.4	20.2	18.5	18.4	17.1	16.7	16.4
BLACK													
Civilian noninstitutional population ¹	18,723	18,740	18,768	18,796	18,823	18,851	18,880	18,911	18,942	18,966	18,994	19,028	19,057
Civilian labor force	11,475	11,522	11,542	11,548	11,554	11,631	11,672	11,783	11,764	11,745	11,729	11,502	11,582
Percent of population	61.3	61.5	61.5	61.4	61.4	61.7	61.8	62.3	62.1	61.9	61.7	60.5	60.8
Employed	9,159	9,127	9,142	9,276	9,253	9,209	9,270	9,352	9,489	9,398	9,505	9,420	9,576
Employment-population ratio ²	48.9	48.7	48.7	49.4	49.2	48.8	49.1	49.5	50.0	49.6	50.0	49.5	50.3
Unemployed	2,316	2,395	2,400	2,271	2,302	2,423	2,402	2,432	2,295	2,347	2,224	2,082	2,005
Unemployment rate	20.2	20.8	20.8	19.7	19.9	20.8	20.6	20.6	19.5	20.0	19.0	18.1	17.3
Men, 20 years and over													
Civilian labor force	5,488	5,483	5,459	5,441	5,439	5,540	5,512	5,597	5,611	5,584	5,541	5,461	5,564
Percent of population	75.6	75.6	75.1	74.7	74.5	75.7	75.1	76.1	76.1	75.6	74.9	73.6	74.8
Employed	4,437	4,358	4,385	4,423	4,416	4,415	4,418	4,522	4,564	4,556	4,603	4,585	4,724
Employment-population ratio ²	61.1	60.1	60.3	60.7	60.5	60.3	60.2	61.5	61.9	61.7	62.2	61.8	63.5
Unemployed	1,051	1,125	1,075	1,018	1,023	1,125	1,094	1,075	1,047	1,028	938	876	840
Unemployment rate	19.2	20.5	19.7	18.7	18.8	20.3	19.8	19.2	18.7	18.4	16.9	16.0	15.1
Women, 20 years and over													
Civilian labor force	5,157	5,207	5,295	5,353	5,350	5,265	5,348	5,283	5,328	5,322	5,372	5,258	5,235
Percent of population	55.9	56.5	57.3	57.8	57.7	56.6	57.4	56.6	57.0	56.8	57.2	55.9	55.6
Employed	4,305	4,349	4,329	4,441	4,404	4,372	4,431	4,384	4,477	4,447	4,509	4,429	4,431
Employment-population ratio ²	46.6	47.1	46.8	48.0	47.5	47.0	47.6	47.0	47.9	47.5	48.0	47.1	47.0
Unemployed	852	858	965	912	946	893	917	900	851	874	862	828	804
Unemployment rate	16.5	16.5	18.2	17.0	17.7	17.0	17.1	17.0	16.0	16.4	16.1	15.8	15.4

See footnotes at end of table.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-33. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted—Continued

(Numbers in thousands)

Employment status, race, sex, age, and Hispanic origin	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
BLACK—Continued													
Both sexes, 16 to 19 years													
Civilian labor force	830	832	788	754	765	827	812	903	825	839	816	783	783
Percent of population	37.2	36.8	35.0	33.5	34.1	37.0	36.4	40.5	37.1	37.8	36.9	35.5	35.6
Employed	417	420	428	412	432	422	421	446	428	394	392	405	421
Employment-population ratio ²	18.7	18.6	19.0	18.3	19.3	18.9	20.0	19.2	17.8	17.7	18.3	19.1	19.1
Unemployed	413	412	360	342	333	405	391	457	397	445	424	378	362
Unemployment rate	49.8	49.5	45.7	45.4	43.5	49.0	48.2	50.6	48.1	53.0	52.0	48.3	46.2
Men	53.0	52.5	45.9	45.3	44.5	48.0	53.1	51.1	47.6	56.8	54.8	43.9	43.4
Women	46.2	46.2	45.5	45.4	42.3	50.0	42.3	50.0	48.8	48.9	48.7	53.3	49.6
HISPANIC ORIGIN													
Civilian noninstitutional population ¹	9,355	9,301	9,328	9,368	9,551	9,665	9,747	9,738	9,640	9,690	9,700	9,745	9,677
Civilian labor force	5,923	5,898	5,981	5,992	6,074	6,206	6,167	6,253	6,079	6,124	6,200	6,142	6,222
Percent of population	63.3	63.4	64.1	64.0	63.6	64.2	63.3	64.2	63.1	63.2	63.9	63.0	64.3
Employed	5,012	4,998	5,053	5,042	5,088	5,304	5,318	5,379	5,331	5,333	5,390	5,385	5,455
Employment-population ratio ²	53.6	53.7	54.2	53.8	53.3	54.9	54.6	55.2	55.3	55.0	55.6	55.3	56.4
Unemployed	911	900	929	950	986	902	849	874	748	790	811	756	767
Unemployment rate	15.4	15.3	15.5	15.8	16.2	14.5	13.8	14.0	12.3	12.9	13.1	12.3	12.3

¹ The population figures are not adjusted for seasonal variation.

² Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

A-34. Employed civilians by selected social and economic categories, seasonally adjusted

(In thousands)

Category	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
CHARACTERISTIC													
Total	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,265	101,563	101,945	101,928	102,671
Married men, spouse present	37,641	37,507	37,450	37,428	37,452	37,523	37,560	37,925	38,293	38,308	38,253	38,241	38,406
Married women, spouse present	23,985	24,155	24,205	24,070	24,171	24,371	24,229	24,335	24,640	24,972	24,996	24,971	25,083
Women who maintain families	5,025	4,985	5,038	5,050	5,097	4,944	4,942	5,016	5,088	5,104	5,124	5,187	5,258
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,584	1,547	1,637	1,624	1,515	1,560	1,595	1,636	1,663	1,664	1,585	1,481	1,456
Self-employed workers	1,628	1,627	1,587	1,541	1,585	1,607	1,558	1,608	1,583	1,566	1,473	1,514	1,559
Unpaid family workers	241	224	231	223	260	208	229	263	259	245	237	224	220
Nonagricultural industries:													
Wage and salary workers	87,936	87,978	87,813	87,794	87,912	88,187	88,395	89,354	89,765	89,995	90,813	90,663	91,129
Government	15,514	15,477	15,386	15,501	15,452	15,518	15,523	15,498	15,615	15,697	15,549	15,594	15,618
Private industries	72,422	72,499	72,427	72,293	72,459	72,668	72,872	73,856	74,150	74,299	75,265	75,069	75,511
Private households	1,221	1,163	1,162	1,232	1,235	1,205	1,228	1,317	1,286	1,290	1,295	1,291	1,197
Other industries	71,201	71,336	71,265	71,061	71,225	71,463	71,644	72,539	72,864	73,009	73,969	73,778	74,314
Self-employed workers	7,349	7,335	7,465	7,385	7,453	7,526	7,408	7,493	7,598	7,658	7,660	7,703	7,646
Unpaid family workers	382	383	380	353	342	353	335	345	320	376	376	415	480
PERSONS AT WORK¹													
Nonagricultural industries	90,236	90,219	90,903	90,207	90,271	92,267	90,941	90,539	92,253	91,986	93,737	93,324	94,042
Full-time schedules	71,442	71,499	71,786	71,564	71,878	73,594	72,975	72,978	74,004	73,495	74,883	75,167	75,553
Part time for economic reasons	6,411	6,425	8,845	6,461	6,202	6,082	5,928	5,729	5,636	5,789	6,106	5,670	5,693
Usually work full time	2,228	2,153	2,200	2,097	1,927	1,871	1,685	1,702	1,809	1,718	1,798	1,575	1,736
Usually work part time	4,183	4,272	4,645	4,384	4,275	4,211	4,243	4,027	3,826	4,071	4,309	4,095	4,156
Part time for noneconomic reasons	12,365	12,295	12,271	12,162	12,191	12,592	12,038	11,833	12,614	12,701	12,748	12,488	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
SEASONALLY ADJUSTED

A-35. Employed civilians by sex and age, seasonally adjusted

(In thousands)

Sex and age	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	99,136	99,093	99,103	99,063	99,103	99,458	99,557	100,786	101,285	101,563	101,945	101,928	102,671
16 to 24 years	19,934	19,903	19,887	19,863	19,732	19,729	19,623	20,328	20,231	20,187	20,254	20,009	20,337
16 to 19 years	6,424	6,344	6,413	6,345	6,237	6,197	6,172	6,481	6,313	6,397	6,404	6,225	6,403
16 to 17 years	2,426	2,364	2,438	2,362	2,307	2,279	2,272	2,303	2,262	2,348	2,329	2,228	2,350
18 to 19 years	3,984	3,982	3,982	3,992	3,952	3,929	3,913	4,152	4,070	4,019	4,082	3,986	4,063
20 to 24 years	13,510	13,559	13,474	13,518	13,494	13,532	13,451	13,847	13,917	13,790	13,850	13,784	13,934
25 years and over	79,182	79,165	79,240	79,165	79,386	79,679	79,848	80,533	81,101	81,498	81,713	81,949	82,369
25 to 54 years	64,858	64,890	65,005	64,902	65,184	65,582	65,807	66,404	66,831	67,267	67,386	67,543	67,954
55 years and over	14,315	14,272	14,233	14,179	14,138	14,067	14,094	14,127	14,229	14,212	14,418	14,379	14,383
Men, 16 years and over	55,892	55,809	55,752	55,706	55,772	55,946	56,128	56,939	57,104	57,032	57,277	57,369	57,904
16 to 24 years	10,388	10,357	10,368	10,327	10,229	10,270	10,283	10,815	10,619	10,570	10,636	10,530	10,794
16 to 19 years	3,303	3,275	3,301	3,279	3,183	3,194	3,228	3,423	3,297	3,261	3,349	3,248	3,401
16 to 17 years	1,258	1,233	1,295	1,260	1,212	1,158	1,188	1,218	1,189	1,203	1,224	1,154	1,236
18 to 19 years	2,027	2,038	2,009	2,037	1,990	2,045	2,051	2,179	2,113	2,042	2,131	2,093	2,167
20 to 24 years	7,085	7,082	7,067	7,048	7,046	7,076	7,056	7,392	7,322	7,310	7,287	7,282	7,394
25 years and over	45,496	45,430	45,393	45,372	45,552	45,854	45,770	46,206	46,474	46,535	46,655	46,857	47,144
25 to 54 years	36,988	36,947	36,968	36,913	37,135	37,278	37,477	37,780	37,947	38,068	38,166	38,334	38,573
55 years and over	8,508	8,471	8,446	8,415	8,400	8,378	8,345	8,436	8,489	8,461	8,518	8,497	8,570
Women, 16 years and over	43,244	43,284	43,350	43,357	43,331	43,512	43,428	43,847	44,181	44,531	44,668	44,560	44,787
16 to 24 years	9,546	9,546	9,519	9,536	9,503	9,459	9,340	9,512	9,612	9,617	9,617	9,479	9,543
16 to 19 years	3,121	3,069	3,112	3,066	3,054	3,004	2,944	3,056	3,017	3,136	3,054	2,977	3,002
16 to 17 years	1,168	1,131	1,143	1,102	1,095	1,121	1,064	1,065	1,073	1,145	1,105	1,074	1,112
18 to 19 years	1,957	1,944	1,973	1,955	1,962	1,884	1,862	1,973	1,957	1,977	1,951	1,893	1,896
20 to 24 years	6,425	6,477	6,407	6,470	6,448	6,455	6,395	6,455	6,595	6,480	6,563	6,503	6,541
25 years and over	33,688	33,735	33,847	33,792	33,834	34,025	34,078	34,328	34,627	34,963	35,057	35,092	35,226
25 to 54 years	27,870	27,943	28,037	27,989	28,049	28,304	28,330	28,624	28,884	29,199	29,219	29,209	29,361
55 years and over	5,807	5,801	5,787	5,764	5,738	5,689	5,749	5,691	5,740	5,752	5,901	5,882	5,813

A-36. Unemployed persons by sex and age, seasonally adjusted

(In thousands)

Sex and age	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	11,906	12,036	11,446	11,490	11,381	11,328	11,192	11,146	10,590	10,699	10,423	9,886	9,364
16 to 24 years	4,685	4,642	4,462	4,444	4,375	4,353	4,332	4,332	4,087	4,260	3,999	3,902	3,661
16 to 19 years	2,052	2,056	1,866	1,815	1,911	1,897	1,843	1,999	1,860	1,916	1,780	1,713	1,594
16 to 17 years	866	893	774	721	774	812	805	799	768	770	730	700	626
18 to 19 years	1,174	1,169	1,104	1,091	1,162	1,095	1,047	1,200	1,088	1,136	1,043	1,015	960
20 to 24 years	2,633	2,586	2,576	2,629	2,464	2,456	2,489	2,333	2,227	2,344	2,219	2,189	2,067
25 years and over	7,194	7,402	7,000	7,054	7,029	6,954	6,889	6,863	6,479	6,413	6,402	5,968	5,683
25 to 54 years	6,330	6,512	6,208	6,194	6,206	6,079	6,134	6,016	5,688	5,680	5,651	5,217	4,939
55 years and over	862	880	812	802	803	832	795	834	803	757	780	755	742
Men, 16 years and over	7,006	7,046	6,633	6,762	6,657	6,731	6,620	6,351	6,238	6,244	6,118	5,778	5,447
16 to 24 years	2,697	2,670	2,548	2,544	2,479	2,478	2,523	2,444	2,398	2,447	2,276	2,214	2,019
16 to 19 years	1,141	1,137	1,036	1,013	1,076	1,029	1,015	1,063	1,030	1,070	993	952	847
16 to 17 years	493	503	419	389	425	429	449	414	460	427	376	364	330
18 to 19 years	642	642	617	622	656	604	577	646	568	634	617	586	515
20 to 24 years	1,556	1,533	1,512	1,531	1,403	1,449	1,508	1,381	1,368	1,377	1,283	1,262	1,172
25 years and over	4,292	4,388	4,078	4,230	4,199	4,237	4,102	3,918	3,808	3,790	3,830	3,551	3,411
25 to 54 years	3,750	3,619	3,541	3,678	3,652	3,646	3,599	3,443	3,325	3,328	3,351	3,073	2,910
55 years and over	580	570	519	507	520	562	515	483	481	475	507	464	497
Women, 16 years and over	4,900	4,990	4,813	4,727	4,724	4,597	4,572	4,795	4,351	4,455	4,305	4,108	3,917
16 to 24 years	1,968	1,972	1,914	1,900	1,896	1,874	1,809	1,868	1,689	1,813	1,723	1,688	1,642
16 to 19 years	911	919	850	802	835	868	828	936	830	846	787	761	747
16 to 17 years	373	390	355	332	349	383	356	385	308	343	354	336	298
18 to 19 years	532	527	487	469	506	491	470	554	520	502	426	429	445
20 to 24 years	1,077	1,053	1,064	1,098	1,061	1,006	981	952	859	967	936	927	895
25 years and over	2,902	3,014	2,922	2,824	2,830	2,717	2,787	2,945	2,671	2,623	2,573	2,417	2,273
25 to 54 years	2,560	2,693	2,667	2,516	2,554	2,434	2,536	2,572	2,363	2,352	2,300	2,144	2,029
55 years and over	302	310	293	294	283	270	260	351	322	282	273	271	245

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-37. Unemployment rates by sex and age, seasonally adjusted

(Civilian workers)

Sex and age	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	10.7	10.8	10.4	10.4	10.3	10.2	10.1	10.0	9.5	9.5	9.3	8.8	8.4
16 to 24 years	19.0	18.9	18.3	18.3	18.1	18.1	18.1	17.6	16.8	17.4	16.5	16.3	15.3
16 to 19 years	24.2	24.5	22.7	22.2	23.5	23.4	23.0	23.6	22.8	23.0	21.8	21.6	19.9
16 to 17 years	26.3	27.4	24.1	23.4	25.1	26.3	26.2	25.8	25.3	24.7	23.9	23.9	21.1
18 to 19 years	22.8	22.7	21.7	21.5	22.7	21.8	21.1	22.4	21.1	22.0	20.4	20.3	19.1
20 to 24 years	16.3	16.0	16.1	16.3	15.4	15.4	15.6	14.4	13.8	14.5	13.8	13.7	12.9
25 years and over	8.3	8.6	8.1	8.2	8.1	8.0	7.9	7.9	7.4	7.3	7.3	6.8	6.5
25 to 54 years	8.9	9.1	8.7	8.7	8.7	8.5	8.5	8.3	7.6	7.8	7.7	7.2	6.8
55 years and over	5.7	5.8	5.4	5.4	5.4	5.6	5.3	5.6	5.3	5.1	5.1	5.0	4.9
Men, 16 years and over	11.1	11.2	10.6	10.8	10.7	10.7	10.6	10.0	9.8	9.9	9.7	9.2	8.6
16 to 24 years	20.6	20.5	19.7	19.8	19.5	19.4	19.7	18.4	18.4	18.6	17.6	17.4	15.8
16 to 19 years	25.7	25.8	23.9	23.6	25.3	24.4	23.9	23.7	23.8	24.7	22.9	22.7	19.9
16 to 17 years	28.2	29.0	24.4	23.6	26.0	27.0	27.4	25.4	27.9	26.2	23.5	24.0	21.0
18 to 19 years	24.1	24.0	23.5	23.4	24.8	22.8	22.0	22.9	21.2	23.7	22.5	21.9	19.2
20 to 24 years	18.0	17.8	17.6	17.8	16.6	17.0	17.6	15.7	15.7	15.9	15.0	14.8	13.7
25 years and over	8.6	8.8	8.2	8.5	8.4	8.5	8.2	7.8	7.6	7.5	7.6	7.0	6.7
25 to 54 years	9.2	9.4	8.7	9.1	9.0	8.9	8.8	8.4	8.1	6.0	8.1	7.4	7.0
55 years and over	6.2	6.3	5.8	5.7	5.8	6.3	5.6	5.4	5.4	5.3	5.6	5.4	5.5
Women, 16 years and over	10.2	10.3	10.0	9.8	9.8	9.6	9.5	9.9	9.0	9.1	8.6	8.4	8.0
16 to 24 years	17.2	17.1	16.7	16.6	16.6	16.5	16.2	16.6	14.9	15.9	15.2	15.1	14.7
16 to 19 years	22.6	23.0	21.5	20.7	21.5	22.4	21.9	23.4	21.8	21.2	20.5	20.4	19.9
16 to 17 years	24.2	25.6	23.7	23.2	24.2	25.5	24.7	26.2	22.3	23.1	24.3	23.8	21.1
18 to 19 years	21.4	21.3	19.8	19.3	20.5	20.7	20.2	21.9	21.0	20.3	17.9	18.5	19.0
20 to 24 years	14.4	14.0	14.2	14.5	14.1	13.5	13.3	12.9	11.5	13.0	12.5	12.5	12.0
25 years and over	7.9	8.2	7.9	7.7	7.7	7.4	7.6	7.9	7.2	7.0	6.8	6.4	6.1
25 to 54 years	8.5	8.6	8.7	8.2	8.3	7.9	8.2	8.2	7.6	7.5	7.3	6.8	6.5
55 years and over	4.9	5.1	4.8	4.9	4.7	4.5	4.6	5.8	5.3	4.7	4.4	4.4	4.0

A-38. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Category	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
CHARACTERISTIC													
Total (all civilian workers)	10.7	10.8	10.4	10.4	10.3	10.2	10.1	10.0	9.5	9.5	9.3	8.8	8.4
Men, 20 years and over	10.0	10.1	9.6	9.9	9.6	9.8	9.6	9.0	8.8	8.8	8.7	8.2	7.8
Women, 20 years and over	9.0	9.2	9.0	8.9	8.8	8.4	8.5	8.6	7.9	8.0	7.8	7.4	7.1
Both sexes, 16 to 19 years	24.2	24.5	22.7	22.2	23.5	23.4	23.0	23.6	22.8	23.0	21.8	21.6	19.9
White	9.6	9.7	9.1	9.2	9.0	8.9	8.9	8.6	8.2	8.2	8.1	7.7	7.3
Black and other	18.5	18.8	19.0	18.0	18.5	18.8	18.6	18.9	17.9	18.1	17.2	16.6	15.8
Black	20.2	20.8	20.8	19.7	19.9	20.8	20.6	20.6	19.5	20.0	19.0	16.1	17.3
Hispanic origin	15.4	15.3	15.5	15.8	16.2	14.5	13.8	14.0	12.3	12.9	13.1	12.3	12.3
Married men, spouse present	7.6	7.8	7.1	7.2	7.1	7.1	7.0	6.6	6.1	6.3	6.1	5.8	5.5
Married women, spouse present	8.2	8.2	7.8	7.6	7.5	7.3	7.5	7.8	7.0	6.9	6.6	6.3	5.9
Women who maintain families	12.5	13.2	13.2	13.0	13.5	13.2	12.9	12.8	11.6	11.6	12.2	11.1	10.3
Full-time workers	10.6	10.8	10.3	10.4	10.3	10.2	9.9	9.7	9.4	9.4	9.2	8.7	8.2
Part-time workers	11.3	11.1	10.6	10.1	10.5	10.6	11.0	12.1	10.2	10.1	10.0	9.8	9.6
Unemployed 15 weeks and over ¹	4.1	4.3	4.2	4.2	4.2	3.9	4.1	4.1	3.9	3.6	3.4	3.2	3.1
Labor force time lost ²	12.4	12.7	11.7	12.0	11.8	11.4	11.5	10.8	10.4	10.6	10.6	10.0	9.6
INDUSTRY													
Nonagricultural private wage and salary workers	11.4	11.6	10.8	10.8	10.8	10.5	10.5	10.0	9.6	9.8	9.4	9.0	6.5
Mining	18.1	18.1	17.1	18.4	18.6	20.3	22.7	18.2	16.6	14.8	17.2	11.3	12.5
Construction	21.8	22.0	20.0	19.7	20.3	20.3	20.4	18.1	16.0	18.1	16.2	15.2	15.0
Manufacturing	14.8	14.8	13.0	13.3	12.8	12.4	12.3	11.5	10.5	11.2	10.2	9.5	9.0
Durable goods	17.0	17.1	14.7	14.7	14.1	13.5	13.5	12.2	11.2	11.6	10.9	10.2	9.1
Nondurable goods	11.4	11.4	10.5	11.4	11.1	10.8	10.5	10.4	9.6	10.6	9.2	8.5	8.7
Transportation and public utilities	8.3	8.0	7.8	8.0	7.8	7.7	7.0	7.8	7.0	8.0	7.4	7.4	6.6
Wholesale and retail trade	10.6	11.0	10.8	10.9	11.2	10.4	10.1	10.2	9.7	9.8	9.6	9.9	9.1
Finance and service industries	7.7	7.9	7.6	7.3	7.2	7.3	7.5	7.2	7.3	7.2	7.1	6.9	6.6
Agricultural wage and salary workers	15.6	16.5	16.0	16.4	16.3	17.2	17.0	17.0	14.2	14.6	16.1	17.1	15.6

¹ Unemployment as a percent of the civilian labor force.

² Aggregate hours lost by the unemployed and persons on part time

for economic reasons as a percent of potentially available labor force hours.

A-39. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

Weeks of unemployment	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
DURATION													
Less than 5 weeks	3,963	4,019	3,536	3,731	3,440	3,547	3,519	3,655	3,498	3,660	3,774	3,512	3,274
5 to 14 weeks	3,549	3,460	3,328	3,106	3,140	3,154	2,979	2,915	2,794	3,026	2,810	2,746	2,619
15 weeks and over	4,524	4,732	4,634	4,618	4,615	4,356	4,517	4,589	4,417	4,020	3,850	3,613	3,527
15 to 26 weeks	2,191	2,125	1,928	1,928	1,875	1,882	1,731	1,638	1,830	1,573	1,344	1,363	1,369
27 weeks and over	2,333	2,607	2,706	2,689	2,740	2,694	2,786	2,951	2,587	2,447	2,506	2,250	2,158
Average (mean) duration, in weeks	17.3	18.0	19.4	19.0	19.1	19.0	20.4	22.0	21.7	19.9	20.2	20.1	20.2
Median duration, in weeks	10.0	10.1	11.5	9.6	10.3	11.3	12.3	11.8	9.9	8.9	9.1	9.3	9.4
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	32.9	32.9	30.8	32.6	30.7	32.1	31.9	32.8	32.7	34.2	36.2	35.6	34.8
5 to 14 weeks	29.5	28.3	28.9	27.1	28.1	28.5	27.0	26.1	26.1	28.3	26.9	27.8	27.8
15 weeks and over	37.6	38.8	40.3	40.3	41.2	39.4	41.0	41.1	41.2	37.5	36.9	36.6	37.4
15 to 26 weeks	18.2	17.4	16.8	16.8	16.7	15.0	15.7	14.7	17.1	14.7	12.9	13.8	14.5
27 weeks and over	19.4	21.3	23.5	23.5	24.5	24.4	25.3	26.4	24.2	22.9	24.0	22.8	22.9

A-40. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

Reasons for unemployment	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
NUMBER OF UNEMPLOYED													
Job losers	7,369	7,295	6,704	6,809	6,823	6,750	6,766	6,513	6,193	6,202	6,002	5,542	5,157
On layoff	2,531	2,468	2,131	2,024	1,945	1,948	1,943	1,822	1,719	1,858	1,591	1,373	1,313
Other job losers	4,838	4,827	4,573	4,784	4,878	4,803	4,823	4,691	4,474	4,545	4,411	4,169	3,843
Job leavers	794	826	839	848	901	815	801	782	738	767	866	889	881
Reentrants	2,546	2,629	2,623	2,491	2,426	2,488	2,365	2,425	2,429	2,524	2,351	2,375	2,213
New entrants	1,244	1,288	1,174	1,161	1,155	1,245	1,251	1,440	1,225	1,214	1,247	1,102	1,134
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	61.6	60.6	59.1	60.2	60.4	59.7	60.5	58.4	58.5	57.9	57.3	55.9	54.9
On layoff	21.2	20.5	18.8	17.9	17.2	17.2	17.4	16.3	16.2	15.5	15.2	13.9	14.0
Other job losers	40.5	40.1	40.3	42.3	43.1	42.5	43.1	42.0	42.3	42.4	42.1	42.1	41.0
Job leavers	6.6	6.9	7.4	7.5	8.0	7.2	7.2	7.0	7.0	7.2	8.3	9.0	9.4
Reentrants	21.3	21.8	23.1	22.0	21.5	22.0	21.1	21.7	22.9	23.6	22.5	24.0	23.6
New entrants	10.4	10.7	10.4	10.3	10.2	11.0	11.2	12.9	11.6	11.3	11.9	11.1	12.1
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	6.6	6.6	6.1	6.2	6.2	6.1	6.1	5.8	5.5	5.5	5.3	5.0	4.6
On layoff .....	.7	.7	.8	.8	.8	.7	.7	.7	.7	.7	.8	.8	.8
Other job losers	2.3	2.4	2.4	2.3	2.2	2.2	2.1	2.2	2.2	2.2	2.1	2.1	2.0
Job leavers	1.1	1.2	1.1	1.1	1.0	1.1	1.1	1.3	1.1	1.1	1.1	1.0	1.0

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	TOTAL	99,541	89,466	91,213	91,693	92,128	-	-	-	-	-
	PRIVATE SECTOR	73,576	73,463	75,738	75,869	76,110	59,495	59,292	61,313	61,428	61,600
	MINING	1,077	1,065	1,030	1,038	1,036	774	765	732	740	735
	METAL MINING	59.3	60.4	60.6	61.9	-	41.7	43.1	44.5	45.1	-
101	Iron ores	0.0	6.3	6.0	7.4	-	3.6	4.0	4.1	5.0	-
102	Copper ores	19.9	20.3	20.1	19.9	-	14.1	14.8	14.2	13.9	-
11, 12	COAL MINING	229.7	222.7	212.5	212.0	-	186.2	179.8	171.6	171.2	-
12	BITUMINOUS COAL AND LIGNITE MINING	226.3	219.3	209.9	209.4	-	183.2	176.8	169.3	168.9	-
13	OIL AND GAS EXTRACTION	572.5	669.5	639.4	646.0	-	457.5	456.7	425.1	433.1	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	279.4	279.9	279.5	277.7	-	130.9	132.2	129.6	127.5	-
138	Oil and gas field services	393.3	389.6	359.9	368.3	-	326.6	324.5	296.5	305.6	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	115.5	112.5	117.9	118.0	-	88.5	85.7	90.3	90.1	-
142	Crushed and broken stone	38.4	37.4	41.2	41.0	-	30.9	29.6	32.8	32.4	-
144	Sand and gravel	34.6	33.8	37.2	37.3	-	-	-	-	-	-
147	Chemical and fertilizer minerals	23.2	22.6	20.2	20.6	-	-	-	-	-	-
	CONSTRUCTION	4,370	3,984	4,280	4,297	4,251	3,166	3,083	3,352	3,375	3,323
15	GENERAL BUILDING CONTRACTORS	1,012.7	996.1	1,101.4	1,105.2	-	758.2	743.0	831.2	833.3	-
152	Residential building construction	465.1	453.6	533.8	527.6	-	336.4	326.2	392.6	386.0	-
153	Operative builders	46.1	46.4	60.3	60.9	-	22.1	23.0	34.1	34.4	-
154	Nonresidential building construction	501.5	496.1	507.3	516.7	-	399.7	393.8	404.5	412.9	-
16	HEAVY CONSTRUCTION CONTRACTORS	389.7	851.8	871.4	877.2	-	717.6	682.9	710.4	719.4	-
161	Highway and street construction	254.1	228.2	269.2	267.6	-	216.0	190.7	231.1	229.6	-
162	Heavy construction, except highway	535.0	623.6	602.2	609.6	-	501.6	492.2	479.3	489.8	-
17	SPECIAL TRADE CONTRACTORS	2,167.9	2,135.6	2,307.1	2,314.9	-	1,690.1	1,656.8	1,810.1	1,821.8	-
171	Plumbing, heating, air conditioning	459.6	496.9	511.4	515.5	-	364.1	363.5	371.2	376.4	-
172	Painting, paper hanging, decorating	129.8	124.6	140.1	139.4	-	107.8	102.4	117.7	117.6	-
173	Electrical work	408.2	405.4	412.9	413.9	-	312.8	309.4	316.1	316.7	-
174	Masonry, stonework, and plastering	317.7	320.8	355.5	356.1	-	269.2	271.8	302.6	304.2	-
175	Carpentering and flooring	105.9	105.8	124.7	127.2	-	79.2	79.2	94.8	97.2	-
176	Roofing and sheet metal work	167.1	165.0	169.4	172.7	-	134.3	132.1	136.5	140.1	-
	MANUFACTURING	13,504	13,299	13,144	13,212	13,253	12,505	12,319	13,125	13,188	13,220
24, 25, 32-39	DURABLE GOODS	10,736	10,610	11,203	11,288	11,344	7,039	6,926	7,494	7,574	7,619
20-23, 26-31	NONDURABLE GOODS	7,766	7,689	7,941	7,924	7,909	5,466	5,393	5,631	5,614	5,601
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	514.1	606.6	726.3	720.4	711.5	503.5	497.3	610.8	605.0	596.2
241	Logging camps and logging contractors	82.3	79.8	94.5	92.9	-	63.4	60.9	75.3	73.8	-
242	Sawmills and planing mills	180.8	178.5	215.2	212.8	-	158.2	156.1	191.5	189.2	-
2421	Sawmills and planing mills, general	151.4	149.0	180.0	177.0	-	132.8	130.6	160.5	157.6	-
2426	Hardwood dimension and flooring	25.8	25.9	30.2	30.8	-	22.2	22.3	26.5	27.2	-
243	Millwork, plywood, and structural members	179.5	180.7	218.3	217.9	-	145.7	146.8	182.1	181.5	-
2431	Millwork	67.8	68.1	84.8	84.2	-	53.2	53.7	68.9	68.2	-
2434	Wood kitchen cabinets	40.5	41.3	51.9	52.0	-	31.4	32.1	41.8	41.8	-
2435	Hardwood veneer and plywood	21.4	21.3	23.8	24.0	-	18.7	18.4	21.0	21.2	-
2436	Softwood veneer and plywood	35.8	36.1	38.4	38.6	-	31.7	32.0	34.5	34.8	-
244	Wood containers	38.6	36.9	41.6	40.5	-	32.4	30.8	35.4	34.3	-
245	Wood buildings and mobile homes	61.9	60.4	81.1	79.6	-	45.2	44.7	63.8	62.6	-
2451	Mobile homes	43.8	42.2	58.5	57.5	-	33.6	32.7	47.5	46.7	-
249	Miscellaneous wood products	71.0	70.3	75.6	76.7	-	58.6	58.0	62.7	63.6	-
25	FURNITURE AND FIXTURES	430.9	431.9	464.5	470.1	472.8	340.6	341.2	370.8	375.5	379.0
251	Household furniture	267.7	268.6	283.7	287.4	-	220.5	221.5	235.9	239.2	-
2511	Wood household furniture	123.5	121.1	126.2	127.7	-	103.2	103.8	109.4	110.6	-
2512	Upholstered household furniture	83.2	84.0	92.0	93.5	-	67.2	67.9	74.9	76.4	-
2514	Metal household furniture	25.6	26.2	26.5	27.7	-	20.3	20.9	21.0	22.1	-
2515	Mattresses and bedsprings	27.7	27.4	29.6	29.2	-	20.7	20.5	22.6	22.2	-
252	Office furniture	54.2	54.3	61.0	62.1	-	41.7	41.7	47.4	48.4	-
253	Public building and related furniture	20.8	21.0	22.0	21.9	-	15.3	15.4	16.1	16.1	-
254	Partitions and fixtures	57.1	56.7	63.0	63.6	-	42.0	41.4	47.3	47.7	-
259	Miscellaneous furniture and fixtures	31.1	31.3	34.8	35.1	-	21.1	21.2	24.1	24.1	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
32	STONE, CLAY, AND GLASS PRODUCTS	576.1	565.2	600.9	601.0	599.2	437.7	427.8	463.3	464.4	463.6
321	Flat glass	16.4	16.1	17.7	17.8	-	12.9	12.7	14.0	14.1	-
322	Glass and glassware, pressed or blown	107.5	105.0	105.6	105.1	-	90.2	88.0	89.5	89.2	-
3221	Glass containers	61.1	60.1	57.6	57.0	-	53.8	53.0	50.8	50.2	-
3229	Pressed and blown glass, nec	46.4	44.9	48.0	48.1	-	36.4	35.0	38.8	39.0	-
323	Products of purchased glass	40.5	40.2	43.9	44.5	-	26.8	26.2	29.4	30.1	-
324	Cement, hydraulic	25.8	27.3	26.3	26.1	-	21.2	21.0	20.7	20.6	-
325	Structural clay products	34.2	33.8	38.8	38.9	-	25.0	24.6	29.8	29.9	-
326	Pottery and related products	39.1	38.6	40.1	40.5	-	31.5	31.0	31.6	32.2	-
327	Concrete, gypsum, and plaster products	187.5	182.5	201.8	200.7	-	143.2	138.8	157.6	156.5	-
3271	Concrete block and brick	18.2	17.9	19.2	19.0	-	12.3	12.0	13.3	13.1	-
3272	Concrete products, nec	59.0	57.5	64.2	64.0	-	44.0	42.1	48.6	48.4	-
3273	Ready-mixed concrete	92.2	89.5	99.8	99.1	-	72.9	70.6	80.7	80.0	-
329	Misc. nonmetallic mineral products	113.6	111.2	116.3	117.0	-	78.7	76.7	82.9	83.6	-
3291	Abrasive products	22.4	22.0	22.6	22.8	-	13.7	13.5	14.8	15.0	-
3292	Asbestos products	12.9	12.5	13.5	13.5	-	9.6	9.2	10.1	10.2	-
3296	Mineral wool	27.0	26.7	27.2	27.4	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	832.8	815.3	855.4	858.4	857.4	608.9	593.5	642.8	645.7	644.3
331	Blast furnace and basic steel products	341.5	334.0	338.7	338.4	-	248.9	242.6	255.9	255.7	-
3312	Blast furnaces and steel mills	279.5	274.1	275.4	275.0	-	204.4	199.8	203.2	208.8	-
3317	Steel pipe and tubes	23.7	22.7	23.1	23.2	-	16.9	16.0	16.5	16.8	-
332	Iron and steel foundries	133.6	137.3	146.1	148.3	-	104.8	103.0	115.0	115.4	-
3321	Gray iron foundries	66.8	84.9	96.4	97.0	-	67.4	65.7	77.0	77.8	-
3322	Malleable iron foundries	10.1	10.2	11.3	11.6	-	7.2	7.4	8.3	8.5	-
3325	Steel foundries, nec	32.9	32.5	31.2	30.5	-	23.8	23.6	23.2	22.6	-
333	Primary nonferrous metals	50.4	49.8	51.6	52.8	-	36.2	35.2	37.9	36.7	-
3334	Primary aluminum	26.0	26.1	27.5	28.4	-	19.3	18.9	21.1	21.9	-
335	Nonferrous rolling and drawing	182.2	178.0	186.6	186.4	-	127.9	124.3	132.3	132.1	-
3351	Copper rolling and drawing	25.2	24.8	27.2	27.2	-	18.3	18.0	20.2	20.2	-
3353	Aluminum sheet, plate, and foil	29.8	29.1	30.4	30.6	-	23.0	22.2	23.8	23.7	-
3357	Nonferrous wire drawing and insulating	75.6	74.2	77.1	77.6	-	53.4	51.9	54.1	54.6	-
336	Nonferrous foundries	77.6	76.5	87.7	88.9	-	60.9	59.7	70.4	71.5	-
3361	Aluminum foundries	44.9	44.5	52.8	53.6	-	36.1	35.6	43.4	44.1	-
34	FABRICATED METAL PRODUCTS	1,386.1	1,371.2	1,428.3	1,438.8	1,447.7	995.6	983.7	1,041.3	1,052.6	1,058.5
341	Metal cans and shipping containers	61.7	61.3	63.5	61.8	-	51.9	51.7	53.7	52.1	-
3411	Metal cans	49.9	49.7	50.9	49.5	-	42.8	42.8	43.9	42.6	-
342	Cutlery, hand tools, and hardware	135.5	134.9	142.1	142.7	-	97.5	97.1	104.6	105.6	-
3423,5	Hand and edge tools, and hand saws and blades	44.7	44.5	45.2	45.3	-	32.2	32.3	32.8	33.1	-
3429	Hardware, nec	77.8	77.6	84.2	84.7	-	56.4	56.2	63.2	63.8	-
343	Plumbing and heating, except electric	60.8	61.5	65.1	65.9	-	42.5	43.1	46.1	47.0	-
3432	Plumbing fittings and brass goods	22.2	22.4	24.1	24.4	-	17.3	17.4	18.1	18.4	-
3433	Heating equipment, except electric	29.4	29.8	31.2	31.5	-	19.1	19.5	21.0	21.3	-
344	Fabricated structural metal products	445.2	440.2	444.9	447.5	-	299.7	295.5	301.5	303.3	-
3441	Fabricated structural metal	84.6	82.4	78.8	78.9	-	58.4	56.8	54.7	54.9	-
3442	Metal doors, sash, and trim	76.6	76.9	87.8	88.1	-	56.2	56.1	65.0	65.4	-
3443	Fabricated plate work (boiler shops)	123.9	121.7	110.2	110.3	-	73.4	71.9	63.2	63.2	-
3444	Sheet metal work	98.8	98.5	106.1	107.1	-	70.6	70.3	77.0	77.8	-
3446	Architectural metal work	28.2	28.5	28.5	28.6	-	19.5	19.8	19.7	19.7	-
345	Screw machine products, bolts, etc.	84.8	83.7	86.2	89.7	-	62.5	61.6	66.1	67.6	-
3451	Screw machine products	40.0	39.2	42.6	43.2	-	31.1	30.4	33.7	34.4	-
3452	Bolts, nuts, rivets, and washers	44.8	44.5	45.6	46.5	-	31.4	31.2	32.4	33.2	-
346	Metal forgings and stampings	221.0	216.9	240.4	243.2	-	171.2	167.8	191.6	194.5	-
3462	Iron and steel forgings	34.3	32.5	33.0	33.6	-	25.0	23.8	24.8	25.4	-
3465	Automotive stampings	79.3	77.3	92.6	94.2	-	65.8	63.9	79.1	80.6	-
3469	Metal stampings, nec	96.6	96.2	103.8	104.4	-	72.4	72.0	79.3	80.2	-
347	Metal services, nec	91.0	90.0	94.3	95.5	-	71.6	70.6	74.8	76.3	-
3471	Plating and polishing	63.8	63.2	66.8	67.8	-	51.5	50.9	54.0	55.3	-
3479	Metal coating and allied services	27.2	26.8	27.5	27.7	-	20.1	19.7	20.8	21.0	-
348	Ordnance and accessories, nec	65.4	65.7	66.0	66.6	-	41.6	42.5	42.1	42.9	-
3483	Ammunition, exc. for small arms, nec	28.1	28.4	29.6	30.0	-	17.6	18.2	18.9	19.7	-
349	Misc. fabricated metal products	220.7	217.0	223.8	225.9	-	156.9	153.8	160.3	163.2	-
3494	Valves and pipe fittings	87.1	85.5	81.8	82.1	-	56.9	55.7	53.5	53.9	-
3496	Misc. fabricated wire products	49.5	48.3	54.2	55.7	-	37.3	36.2	41.3	42.0	-
35	MACHINERY, EXCEPT ELECTRICAL	2,114.2	2,084.1	2,114.7	2,125.1	2,157.2	1,237.3	1,212.1	1,243.3	1,257.9	1,283.7
351	Engines and turbines	104.0	102.1	93.4	94.7	-	61.8	60.1	53.6	54.5	-
3511	Turbines and turbine generator sets	41.4	40.8	36.1	36.9	-	22.2	22.0	17.4	18.0	-
3519	Internal combustion engines, nec	62.6	61.3	57.3	57.8	-	39.6	38.1	36.2	36.5	-
352	Farm and garden machinery	128.3	124.3	130.9	129.9	-	80.5	77.3	84.4	83.1	-
3523	Farm machinery and equipment	112.7	108.1	112.7	111.4	-	70.1	66.4	71.6	70.0	-
353	Construction and related machinery	283.6	273.8	269.4	269.9	-	161.4	150.9	154.8	156.5	-
3531	Construction machinery	85.0	80.6	93.3	92.7	-	42.5	35.9	50.5	51.0	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	42.8	43.3	48.3	48.0	-	29.0	29.2	32.4	32.3	-
3792	Travel trailers and campers	15.6	15.3	20.8	20.5	-	11.8	11.5	16.3	16.2	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	704.1	700.3	697.6	698.5	699.6	396.4	393.2	392.0	393.4	394.0
381	Measuring and controlling devices	80.1	79.9	81.2	81.9	-	37.0	36.9	37.3	37.4	-
382	Environmental controls	239.7	237.7	238.3	239.3	-	142.4	140.7	140.4	142.1	-
3822	Process control instruments	41.6	41.6	46.0	46.6	-	26.5	26.6	30.1	30.7	-
3823	Instruments to measure electricity	57.5	57.1	53.8	53.7	-	28.7	28.3	25.5	25.5	-
3825	Optical instruments and lenses	100.5	99.7	99.2	99.4	-	60.4	59.7	58.3	59.3	-
383	Medical instruments and supplies	33.1	32.9	34.0	34.0	-	18.1	17.7	17.5	17.7	-
384	Surgical and medical instruments	157.5	156.8	162.4	161.9	-	95.9	95.2	99.3	98.7	-
3841	Surgical appliances and supplies	75.9	75.4	78.2	77.3	-	43.4	43.1	45.8	44.9	-
3842	Ophthalmic goods	67.1	67.2	70.3	70.6	-	43.9	43.7	45.5	45.7	-
385	Photographic equipment and supplies	36.4	36.2	37.3	37.6	-	24.7	24.6	25.7	25.8	-
386	Watches, clocks, and watchcases	138.6	138.6	127.2	126.7	-	65.6	65.9	59.8	59.6	-
387	Watches, clocks, and watchcases	18.5	18.2	17.2	17.1	-	12.7	12.2	12.0	12.1	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	388.8	382.8	390.8	398.2	397.6	282.0	276.2	284.5	291.4	291.0
391	Jewelry, precious metal	58.7	58.7	57.5	59.0	-	42.0	42.0	40.7	42.3	-
3911	Musical instruments	38.5	38.6	38.2	39.5	-	27.5	27.6	27.1	28.3	-
393	Toys and sporting goods	19.0	19.0	20.3	20.4	-	15.0	14.9	16.0	16.1	-
394	Dolls, games, toys, and children's vehicles	110.6	106.3	113.6	115.9	-	81.6	77.1	83.4	85.4	-
3942, 4	Sporting and athletic goods, nec	59.3	55.2	60.4	61.5	-	42.2	38.1	43.4	44.5	-
3949	Pens, pencils, office and art supplies	51.5	51.1	53.4	54.4	-	39.4	39.0	40.0	40.9	-
395	Costume jewelry and notions	30.6	30.6	30.7	30.8	-	20.6	20.9	21.4	21.3	-
396	Costume jewelry	40.3	40.3	40.1	42.3	-	31.2	31.2	30.8	33.1	-
3961	Miscellaneous manufactures	21.4	21.5	20.9	22.9	-	17.1	17.0	16.1	18.1	-
399	Signs and advertising displays	129.4	127.9	128.4	129.8	-	91.6	90.1	92.2	93.2	-
3993	Signs and advertising displays	46.9	46.6	48.3	49.5	-	33.1	32.7	34.0	34.9	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	1,556.2	1,652.6	1,731.5	1,689.8	1,656.2	1,185.3	1,141.7	1,218.6	1,180.8	1,147.5
201	Meat packing plants	347.0	351.3	351.2	353.4	-	289.5	292.9	293.7	296.8	-
2011	Sausages and other prepared meats	144.5	146.6	144.7	145.8	-	118.6	119.5	117.8	119.6	-
2013	Poultry dressing plants	70.5	71.9	71.2	70.8	-	51.7	53.3	52.3	52.6	-
2016	Dairy products	115.6	117.3	119.1	120.0	-	105.6	106.4	108.6	109.7	-
202	Cheese, natural and processed	165.6	164.6	167.3	165.6	-	92.4	91.9	96.1	94.7	-
2022	Fluid milk	35.8	35.8	35.6	35.7	-	27.2	27.1	27.3	27.3	-
2026	Preserved fruits and vegetables	92.7	92.0	91.8	91.8	-	41.7	41.6	42.9	42.7	-
203	Canned specialties	280.4	241.0	312.2	262.8	-	236.8	200.3	267.9	220.7	-
2032	Frozen fruits and vegetables	25.8	23.9	25.5	25.6	-	19.1	18.2	20.4	19.5	-
2033	Frozen fruits and vegetables	113.6	85.2	139.6	94.1	-	96.5	69.2	122.8	79.4	-
2037	Grain mill products	57.4	50.7	57.5	54.4	-	50.3	44.3	50.3	47.3	-
204	Flour and other grain mill products	134.4	136.4	136.9	135.9	-	90.5	88.8	92.4	91.4	-
2041	Prepared feeds, nec	25.4	26.0	27.2	27.0	-	14.9	14.3	16.2	15.9	-
2048	Bakery products	50.9	50.0	49.4	48.9	-	32.6	31.9	31.4	30.9	-
205	Bread, cake, and related products	219.0	219.3	219.8	218.6	-	129.1	129.4	130.4	129.7	-
2051	Cookies and crackers	175.3	175.9	175.4	175.1	-	93.7	94.3	94.7	94.9	-
2052	Sugar and confectionery products	43.7	43.4	44.4	43.5	-	35.4	35.1	35.7	34.8	-
206	Cane and beet sugar	114.0	112.7	108.4	120.0	-	91.2	89.5	84.5	95.0	-
2061-3	Confectionery products	34.9	33.7	26.8	35.6	-	28.6	27.2	20.9	28.6	-
2065	Fats and oils	58.5	58.9	61.0	64.3	-	48.3	48.6	49.7	52.9	-
207	Beverages	39.1	39.3	35.6	36.9	-	29.3	29.7	26.1	27.4	-
208	Malt beverages	230.0	228.2	230.0	227.7	-	100.0	99.1	98.0	97.1	-
2082	Bottled and canned soft drinks	49.0	48.8	47.8	47.5	-	31.1	31.0	28.6	28.6	-
2086	Misc. foods and kindred products	133.3	132.6	134.9	133.1	-	42.9	42.7	43.6	42.5	-
209	Misc. foods and kindred products	166.7	159.8	170.1	168.9	-	126.5	120.1	129.5	128.0	-
TOBACCO MANUFACTURES											
21	Cigarettes	70.2	66.6	67.9	68.0	64.9	55.3	51.4	52.7	52.9	49.4
211	Cigarettes	45.0	46.3	43.6	43.4	-	34.5	35.0	32.5	32.4	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	737.8	730.9	760.1	763.0	763.1	633.7	627.2	658.3	660.7	661.7
221	Weaving mills, synthetics	124.1	122.4	123.9	124.0	-	109.6	107.8	110.8	110.8	-
222	Weaving and finishing mills, wool	92.3	91.4	92.7	92.7	-	82.4	81.3	83.2	83.1	-
223	Narrow fabric mills	15.9	15.7	17.9	17.9	-	13.2	13.1	15.0	15.1	-
224	Knitting mills	22.2	22.1	22.1	22.4	-	19.1	19.1	19.0	19.3	-
225	Women's hosiery, except socks	205.8	203.9	211.1	211.9	-	177.7	175.8	183.1	184.1	-
2251	Hosiery, nec	31.6	31.7	34.5	34.8	-	28.3	28.4	31.0	31.3	-
2252	Knit outerwear mills	31.4	31.4	33.1	32.9	-	28.4	28.4	29.9	29.7	-
2253	Knit underwear mills	68.7	67.8	65.4	65.6	-	59.2	58.3	56.4	56.6	-
2254	Knit underwear mills	28.9	29.2	30.8	31.2	-	24.2	24.6	26.1	26.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	33.3	32.9	31.5	31.5	-	20.5	20.3	18.9	18.7	-
2861.9	Gum, wood, and industrial organic chemicals, nec.	135.1	134.5	129.5	129.4	-	64.1	64.7	63.4	63.7	-
287	Agricultural chemicals	62.4	62.5	58.5	59.0	-	37.3	37.4	34.9	35.3	-
289	Miscellaneous chemical products	50.1	49.2	46.8	47.1	-	26.2	26.0	24.6	24.5	-
	PETROLEUM AND COAL PRODUCTS	203.0	200.9	197.3	196.1	193.4	122.5	120.5	119.5	118.3	116.3
291	Petroleum refining	163.7	163.4	156.6	155.9	-	94.5	94.3	89.9	89.2	-
295	Paving and roofing materials	27.7	26.0	29.3	28.8	-	21.0	19.4	22.5	22.0	-
	RUBBER AND MISC. PLASTICS PRODUCTS	593.1	686.1	751.3	757.3	763.0	530.8	524.2	585.1	590.8	595.7
301	Tires and inner tubes	103.7	102.5	102.2	102.7	-	74.6	73.6	73.3	73.9	-
302	Rubber and plastics footwear	19.5	19.8	18.9	17.8	-	16.8	17.2	15.9	14.9	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting	21.0	20.5	22.2	22.7	-	14.6	14.3	15.5	15.9	-
306	Fabricated rubber products, nec	95.6	94.0	103.3	104.2	-	72.4	70.8	79.5	80.5	-
307	Miscellaneous plastics products	433.3	449.3	504.7	509.9	-	352.4	348.3	400.9	405.6	-
	LEATHER AND LEATHER PRODUCTS	219.4	219.2	221.6	220.6	222.4	183.3	182.9	186.4	186.0	188.2
311	Leather tanning and finishing	18.5	18.6	19.7	19.4	-	15.2	15.4	16.5	16.3	-
314	Footwear, except rubber	136.4	136.7	134.8	133.7	-	115.9	116.4	115.5	114.7	-
3143	Men's footwear, except athletic	54.3	54.0	53.6	52.9	-	44.2	44.0	43.7	43.2	-
3144	Women's footwear, except athletic	53.0	54.1	51.8	51.7	-	46.6	47.7	46.0	46.0	-
316	Luggage	13.3	13.7	13.7	13.4	-	9.7	9.5	10.1	10.0	-
317	Handbags and personal leather goods	27.7	26.9	29.2	29.4	-	22.8	22.0	23.9	24.2	-
	TRANSPORTATION AND PUBLIC UTILITIES	5,077	5,051	5,081	5,065	5,048	4,189	4,164	4,189	4,175	4,160
	RAILROAD TRANSPORTATION	415.4	405.5	385.7	386.4	-	-	-	-	-	-
4011	Class I railroads ²	385.5	376.3	355.4	356.0	-	-	-	-	-	-
	LOCAL AND INTERURBAN PASSENGER TRANSIT	278.2	276.8	273.4	279.5	-	260.2	258.3	254.0	260.1	-
411	Local and suburban transportation	65.2	85.2	87.3	87.8	-	78.5	78.4	80.4	81.1	-
412	Taxicabs	40.5	41.1	39.0	39.0	-	-	-	-	-	-
413	Intercity highway transportation	37.5	36.3	35.7	33.9	-	34.5	33.3	32.9	30.9	-
415	School buses	95.6	95.6	91.8	98.0	-	-	-	-	-	-
	TRUCKING AND WAREHOUSING	1,224.8	1,212.8	1,249.7	1,257.1	-	1,064.5	1,053.2	1,089.5	1,097.8	-
421.3	Trucking and trucking terminals	1,135.5	1,122.7	1,168.0	1,169.4	-	988.7	976.5	1,020.9	1,023.5	-
422	Public warehousing	89.3	90.1	81.7	87.7	-	75.8	76.7	68.6	74.3	-
	WATER TRANSPORTATION	195.5	196.1	199.3	185.9	-	-	-	-	-	-
	TRANSPORTATION BY AIR	445.0	443.2	459.5	449.5	-	-	-	-	-	-
451.2	Air transportation	394.7	393.4	405.4	394.9	-	-	-	-	-	-
	PIPE LINES, EXCEPT NATURAL GAS	21.9	21.8	21.8	21.7	-	15.2	15.3	15.4	15.3	-
	TRANSPORTATION SERVICES	216.7	216.5	220.8	220.7	-	-	-	-	-	-
	COMMUNICATION	1,404.6	1,402.0	1,380.1	1,375.2	-	1,066.5	1,063.3	1,048.3	1,043.2	-
481	Telephone communication	1,050.7	1,046.1	1,001.0	997.8	-	775.1	770.9	745.7	742.3	-
483	Radio and television broadcasting	223.0	224.1	231.9	231.7	-	181.8	183.0	183.6	185.7	-
	ELECTRIC, GAS, AND SANITARY SERVICES	874.6	876.7	890.2	889.2	-	704.0	706.2	709.5	707.9	-
491	Electric services	425.0	428.0	435.6	435.7	-	336.5	340.3	343.6	343.2	-
492	Gas production and distribution	176.6	176.5	174.6	174.8	-	142.0	141.7	139.1	139.2	-
493	Combination utility services	197.4	197.3	203.7	202.6	-	160.8	160.2	160.3	159.4	-
495	Sanitary services	51.2	50.6	52.2	52.3	-	44.8	44.4	46.7	46.8	-
	WHOLESALE AND RETAIL TRADE	20,421	20,549	20,746	20,738	20,901	17,847	17,968	18,135	18,118	18,259
	WHOLESALE TRADE	5,259	5,231	5,285	5,309	5,306	4,247	4,219	4,253	4,280	4,269
	WHOLESALE TRADE - DURABLE GOODS	3,051	3,038	3,093	3,110	-	2,442	2,428	2,475	2,490	-
501	Motor vehicles and automotive equipment	401.9	401.6	409.7	410.2	-	323.4	322.9	328.7	329.5	-
502	Furniture and home furnishing	113.4	114.3	116.1	116.9	-	93.3	94.4	94.5	95.8	-
503	Lumber and construction materials	179.4	179.7	196.1	197.1	-	145.9	146.5	151.9	162.9	-
504	Sporting goods, toys, and hobby goods	72.3	71.7	73.4	73.3	-	58.3	57.3	59.1	58.9	-
505	Metals and minerals, except petroleum	134.5	133.1	131.4	131.8	-	105.9	104.8	105.1	105.0	-
506	Electrical goods	426.8	426.3	435.4	439.3	-	340.1	338.4	347.7	350.8	-
507	Hardware, plumbing, and heating equipment	234.7	234.2	238.4	240.4	-	189.3	188.5	193.7	194.6	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,315.2	1,305.3	1,313.0	1,319.7	-	1,043.0	1,034.2	1,036.5	1,040.3	-
509	Miscellaneous durable goods	172.8	171.4	179.6	181.5	-	142.4	141.3	149.8	151.7	-
51	WHOLESALE TRADE-NONDURABLE GOODS ..	2,208	2,193	2,192	2,199	-	1,805	1,791	1,782	1,790	-
511	Paper and paper products	158.6	158.6	162.8	164.5	-	127.6	127.5	132.5	133.9	-
512	Drugs, proprietaries, and sundries	154.8	155.6	153.1	153.5	-	130.4	131.0	128.2	128.0	-
513	Apparel, piece goods, and notions	171.4	171.6	170.3	170.9	-	134.3	134.7	128.6	128.5	-
514	Groceries and related products	571.1	665.8	668.1	666.4	-	575.5	570.5	572.7	570.8	-
516	Chemicals and allied products	132.9	133.0	134.3	135.6	-	93.9	93.9	93.6	95.1	-
517	Petroleum and petroleum products	220.5	220.9	217.7	215.5	-	165.9	166.2	165.3	163.6	-
518	Beer, wine, and distilled beverages	145.0	145.4	147.1	146.9	-	120.3	120.8	122.5	122.5	-
519	Miscellaneous nondurable goods	394.3	389.5	390.2	391.3	-	322.5	318.4	315.5	317.9	-
52-59	RETAIL TRADE	15,102	15,318	15,461	15,429	15,595	13,600	13,749	13,878	13,838	13,990
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	587.5	588.2	613.4	614.4	-	494.9	495.6	517.1	518.0	-
521	Lumber and other building materials	300.4	301.2	323.9	324.3	-	253.0	254.1	275.4	275.7	-
525	Hardware stores	147.6	148.2	151.9	152.1	-	125.8	126.5	128.7	129.2	-
53	GENERAL MERCHANDISE STORES	2,194.3	2,293.9	2,189.1	2,228.6	-	2,040.4	2,139.8	2,049.7	2,086.3	-
531	Department stores	1,853.0	1,943.6	1,863.1	1,897.8	-	1,732.7	1,822.9	1,755.3	1,788.4	-
533	Variety stores	225.9	232.9	210.6	213.8	-	208.4	215.5	193.8	196.2	-
539	Misc. general merchandise stores	115.4	117.4	115.4	117.0	-	99.3	101.4	100.6	101.7	-
54	FOOD STORES	2,476.0	2,494.4	2,507.9	2,517.0	-	2,296.7	2,312.6	2,330.9	2,340.0	-
541	Grocery stores	2,171.2	2,179.5	2,195.6	2,205.5	-	2,021.5	2,027.2	2,053.4	2,058.7	-
542	Meat markets and freezer provisioners	57.1	58.0	59.8	59.6	-	-	-	-	-	-
546	Retail bakeries	130.9	131.9	135.0	135.8	-	120.0	121.1	123.3	124.5	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,610.7	1,608.9	1,638.8	1,639.2	-	1,355.3	1,353.3	1,379.1	1,380.1	-
551.2	New and used car dealers	730.1	734.4	763.0	765.3	-	603.6	602.4	627.7	630.3	-
553	Auto and home supply stores	260.2	261.6	263.4	264.1	-	223.5	224.8	227.4	227.9	-
554	Gasoline service stations	539.6	539.8	533.9	533.0	-	468.4	468.0	461.2	460.5	-
56	APPAREL AND ACCESSORY STORES	933.2	960.2	944.5	950.9	-	791.0	816.8	797.4	804.7	-
561	Men's and boys' clothing and furnishings	116.9	120.8	114.1	115.2	-	99.0	103.0	95.7	96.7	-
562	Women's ready-to-wear stores	339.6	349.4	349.3	353.3	-	291.7	300.2	296.0	300.7	-
565	Family clothing stores	172.2	180.2	168.9	170.6	-	149.9	157.8	147.6	149.2	-
566	Shoe stores	196.3	201.1	201.9	201.1	-	159.9	163.0	163.8	163.7	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	575.9	578.4	594.9	601.8	-	475.4	478.3	493.5	500.9	-
571	Furniture and home furnishings stores	345.0	347.2	354.5	360.3	-	285.0	287.7	294.9	299.0	-
572	Household appliance stores	75.6	74.8	75.9	76.3	-	64.6	63.7	64.9	65.5	-
573	Radio, television, and music stores	155.3	156.4	164.5	165.2	-	125.8	126.9	134.6	136.4	-
58	EATING AND DRINKING PLACES	4,862.4	4,822.2	5,040.3	4,918.7	-	4,471.8	4,431.0	4,636.8	4,510.7	-
59	MISCELLANEOUS RETAIL	1,921.7	1,972.2	1,932.2	1,958.2	-	1,674.8	1,721.9	1,673.1	1,696.9	-
591	Drug stores and proprietary stores	488.4	494.6	490.0	491.8	-	436.8	442.8	434.5	434.4	-
592	Liquor stores	127.6	129.4	124.4	126.5	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	623.6	652.3	637.2	644.4	-	534.8	562.9	541.5	549.5	-
596	Nonstore retailers	257.2	264.7	261.0	269.6	-	238.7	246.1	241.5	249.8	-
598	Fuel and ice dealers	100.5	102.9	97.1	100.0	-	83.4	85.8	79.7	82.4	-
599	Retail stores, nec.	262.0	265.5	258.9	261.6	-	219.8	221.4	216.1	219.1	-
	FINANCE, INSURANCE, AND REAL										
	ESTATE ²	5,334	5,335	5,504	5,487	5,500	3,980	3,976	4,103	4,086	4,090
60	BANKING	1,546.9	1,647.8	1,662.2	1,657.9	-	1,231.0	1,230.8	1,237.7	1,233.4	-
602	Commercial and stock savings banks	1,497.8	1,498.8	1,508.7	1,503.9	-	1,112.3	1,112.4	1,116.4	1,111.5	-
61	CREDIT AGENCIES OTHER THAN BANKS	579.9	584.5	623.6	625.0	-	437.3	440.9	474.3	475.7	-
612	Savings and loan associations	271.3	274.1	296.7	300.1	-	206.6	208.9	229.4	230.5	-
614	Personal credit institutions	193.5	193.9	196.9	197.0	-	147.2	147.4	150.4	150.7	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	274.0	278.2	319.1	320.6	-	-	-	-	-	-
621	Security brokers and dealers	224.0	227.7	258.3	259.6	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,232.3	1,232.0	1,230.7	1,230.7	-	839.0	838.3	833.5	833.6	-
631	Life insurance	544.0	544.3	536.3	536.3	-	334.6	334.2	324.9	325.1	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	142.2	142.5	146.3	146.7	-	113.2	113.4	116.9	117.4	-
633	Fire, marine, and casualty insurance	474.5	473.7	467.7	466.8	-	336.4	335.3	327.9	327.2	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	475.4	476.1	482.1	481.3	-	-	-	-	-	-
65	REAL ESTATE	370.1	959.8	1,030.9	1,014.5	-	-	-	-	-	-
651	Real estate operators and lessors	482.0	476.6	514.2	505.3	-	-	-	-	-	-
653	Real estate agents and managers	353.3	351.7	369.2	365.4	-	-	-	-	-	-
655	Subdividers and developers	116.3	113.1	125.1	121.5	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	17.8	17.8	16.3	16.5	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES.	137.8	138.3	139.5	140.6	-	-	-	-	-	-
	SERVICES...	19,195	19,180	19,953	20,032	20,121	17,034	17,017	17,681	17,746	17,813
70	HOTELS AND OTHER LODGING PLACES	1,393.5	1,065.3	1,156.4	1,124.3	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,061.1	1,035.0	1,114.0	1,091.8	-	971.2	945.8	1,014.2	991.3	-
72	PERSONAL SERVICES	929.7	937.2	922.0	932.2	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	347.4	348.7	347.1	348.6	-	309.5	310.2	308.2	309.6	-
723	Beauty shops	286.5	292.0	300.9	303.0	-	265.2	269.8	277.7	279.6	-
726	Funeral service and crematories	71.1	71.3	72.2	71.8	-	-	-	-	-	-
73	BUSINESS SERVICES	3,351.9	3,367.3	3,718.8	3,773.4	-	2,925.2	2,936.5	3,236.5	3,285.7	-
731	Advertising	162.3	162.9	167.8	167.9	-	123.9	124.5	125.2	126.0	-
732	Credit reporting and collection	74.6	75.2	75.9	79.7	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	135.8	138.7	147.1	152.1	-	-	-	-	-	-
734	Services to buildings	223.0	521.4	555.2	557.2	-	476.1	475.1	506.2	507.2	-
736	Personnel supply services	583.0	580.4	787.5	814.6	-	-	-	-	-	-
737	Computer and data processing services	366.7	371.9	404.0	412.1	-	301.2	306.0	334.6	342.1	-
75	AUTO REPAIR, SERVICES, AND GARAGES	578.9	577.4	596.5	594.1	-	489.4	487.3	504.7	503.3	-
753	Automotive repair shops	363.3	360.7	369.2	367.1	-	303.8	301.0	309.1	307.8	-
76	MISCELLANEOUS REPAIR SERVICES	278.4	274.9	276.7	276.6	-	234.7	231.8	230.9	230.5	-
78	MOTION PICTURES	205.3	203.8	215.9	208.5	-	174.9	172.7	187.5	179.2	-
781	Motion picture production and services	82.7	85.1	90.6	91.4	-	66.6	68.2	76.7	76.4	-
783	Motion picture theaters	112.0	108.0	115.0	106.7	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	773.6	743.2	902.0	816.8	-	702.6	673.5	824.4	736.1	-
80	HEALTH SERVICES	5,359.6	5,868.6	5,984.5	5,985.0	-	5,243.4	5,253.6	5,361.2	5,359.9	-
801	Offices of physicians	834.9	836.2	866.7	864.7	-	683.3	685.2	727.4	726.1	-
802	Offices of dentists	389.7	391.8	412.4	414.8	-	344.7	346.3	364.9	367.3	-
805	Nursing and personal care facilities	1,075.6	1,077.5	1,108.1	1,108.4	-	973.3	974.5	1,001.1	1,001.0	-
806	Hospitals	3,032.5	3,032.0	3,027.8	3,022.1	-	2,782.8	2,784.7	2,777.0	2,776.3	-
81	LEGAL SERVICES	573.6	577.9	608.4	614.8	-	482.8	487.3	512.1	516.5	-
82	EDUCATIONAL SERVICES	1,280.2	1,296.7	1,175.3	1,297.2	-	-	-	-	-	-
821	Elementary and secondary schools	328.0	331.0	314.6	326.6	-	-	-	-	-	-
822	Colleges and universities	952.5	965.7	860.7	970.6	-	-	-	-	-	-
83	SOCIAL SERVICES	1,181.0	1,189.8	1,266.9	1,282.2	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,528.5	1,529.6	1,512.2	1,519.9	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	1,044.6	1,044.3	1,066.8	1,071.7	-	850.6	850.2	876.4	880.5	-
891	Engineering and architectural services	567.1	565.4	583.0	584.1	-	464.4	463.2	488.7	490.7	-
893	Accounting, auditing, and bookkeeping	352.3	352.4	359.9	362.0	-	281.4	281.1	283.9	286.4	-
	GOVERNMENT **	15,863	16,003	15,475	15,824	16,018	-	-	-	-	-
	FEDERAL GOVERNMENT ***	2,721	2,726	2,745	2,749	2,752	-	-	-	-	-
	Executive, by agency ⁴	2,567.1	2,671.9	2,689.2	-	-	-	-	-	-	-
	Department of Defense	334.0	940.4	941.0	-	-	-	-	-	-	-
	Postal Service	260.6	662.8	660.1	-	-	-	-	-	-	-
	Other executive agencies	1,372.5	1,068.7	1,088.1	-	-	-	-	-	-	-
	Legislative	38.4	38.0	39.1	-	-	-	-	-	-	-
	Judicial	15.8	15.8	16.4	-	-	-	-	-	-	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	FEDERAL GOVERNMENT—Continued										
	Federal Government, by industry										
—	Manufacturing activities	133.8	135.1	136.4	136.8	—	—	—	—	—	
3731	Shipbuilding and repairing	81.8	82.2	82.0	82.2	—	—	—	—	—	
—	Transportation and public utilities, except										
—	Postal Service	40.9	40.6	39.1	38.2	—	—	—	—	—	
—	Services	388.6	388.2	397.2	392.4	—	—	—	—	—	
806	Federal government hospitals	233.2	234.4	236.9	237.0	—	—	—	—	—	
—	STATE AND LOCAL GOVERNMENT	13,142	13,277	12,730	13,075	13,266	—	—	—	—	
—	State government	3,704.8	3,724.9	3,573.4	3,699.7	—	—	—	—	—	
806	State government hospitals	493.8	492.4	474.4	474.8	—	—	—	—	—	
82	State education	1,541.7	1,566.5	1,409.3	1,558.0	—	—	—	—	—	
—	General administration including executive,										
—	legislative, and judicial functions	1,063.9	1,062.9	1,081.5	1,066.2	—	—	—	—	—	
—	Local government	9,437.1	9,551.7	9,156.1	9,375.6	—	—	—	—	—	
—	Transportation and public utilities	532.3	532.4	538.5	536.8	—	—	—	—	—	
806	Local government hospitals	630.6	636.3	636.8	639.4	—	—	—	—	—	
82	Local education	5,214.5	5,319.2	4,833.3	5,136.0	—	—	—	—	—	
—	General administration including executive,										
—	legislative, and judicial functions	2,779.2	2,785.6	2,839.8	2,783.4	—	—	—	—	—	

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

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

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

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

— Data not available.

p = preliminary.

NOTE: Data from April 1982 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" under the Establishment Data section of the Explanatory Notes.

**Corrected data for August 1983

Industry	August 1983
Total	89,612
Government	14,867
Federal Government	2,779
Executive, by agency	2,722.5
Department of Defense	960.8
Postal Service	660.1
Other executive agencies	1,101.4
Legislative	40.4
Judicial	16.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	Aug. 1982	Sept. 1982	July 1983	Aug. 1983	Sept. 1983
	TOTAL	38,185	38,917	38,980	38,819	39,936
	PRIVATE SECTOR	31,447	31,605	32,039	31,939	32,523
	MINING	137	134	125	126	124
10	METAL MINING	5.8	5.7	5.7	5.7	5.5
11, 12	COAL MINING	11.7	11.6	11.1	11.1	11.1
13	OIL AND GAS EXTRACTION	109.4	106.9	99.7	99.9	98.3
131, 2	Crude petroleum, natural gas, and natural gas liquids	68.1	66.5	66.6	66.2	65.1
138	Oil and gas field services	41.3	40.4	33.1	33.7	33.2
14	NONMETALLIC MINERALS, EXCEPT FUELS	9.7	9.4	8.8	9.1	9.2
142	Crushed and broken stone	2.8	2.8	2.9	3.0	2.9
144	Sand and gravel	3.3	3.2	3.0	3.0	3.3
	CONSTRUCTION	385	380	396	400	400
15	GENERAL BUILDING CONTRACTORS	121.5	120.8	132.2	133.1	133.2
152	Residential building construction	66.8	66.1	75.7	76.3	76.4
153	Operative builders	13.2	13.4	14.8	14.9	14.9
154	Nonresidential building construction	41.5	41.3	41.7	41.9	41.9
16	HEAVY CONSTRUCTION CONTRACTORS	67.1	65.0	63.6	64.2	64.0
161	Highway and street construction	16.4	16.0	16.8	17.3	17.1
162	Heavy construction, except highway	50.7	49.0	46.8	46.9	46.9
17	SPECIAL TRADE CONTRACTORS	196.5	194.5	201.8	202.6	202.7
171	Plumbing, heating, air conditioning	52.3	51.8	53.4	53.7	53.6
172	Painting, paper hanging, decorating	11.6	11.5	11.6	11.9	11.9
173	Electrical work	38.7	38.1	39.2	39.2	39.2
174	Masonry, stonework, and plastering	21.6	21.6	22.5	22.4	22.4
175	Carpentering and flooring	12.7	12.8	14.6	14.7	14.7
176	Roofing and sheet metal work	12.9	12.7	13.4	13.1	13.2
	MANUFACTURING	6,016	6,037	5,978	6,108	6,202
24, 25, 32-39	DURABLE GOODS	2,803	2,812	2,818	2,842	2,905
20-23, 26-31	NONDURABLE GOODS	3,213	3,225	3,160	3,266	3,297
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	91.4	92.2	101.4	103.1	104.7
241	Logging camps and logging contractors	6.1	5.9	6.4	6.5	6.6
242	Sawmills and planing mills	16.5	17.2	18.9	19.2	19.3
2421	Sawmills and planing mills, general	11.5	12.0	13.2	13.4	13.5
243	Millwork, plywood, and structural members	36.6	36.6	42.3	43.2	43.6
244	Wood containers	6.3	6.3	6.1	6.0	6.0
245	Wood buildings and mobile homes	7.5	7.6	9.0	8.9	9.2
249	Miscellaneous wood products	18.4	18.6	18.7	19.3	20.0
25	FURNITURE AND FIXTURES	128.2	129.5	133.1	135.4	138.2
251	Household furniture	86.4	87.7	90.1	90.9	92.5
2511	Wood household furniture	37.8	38.5	38.4	38.8	39.4
2512	Upholstered household furniture	29.0	29.1	31.1	31.5	32.2
2515	Mattresses and bedsprings	7.6	7.6	8.3	8.5	8.5
252	Office furniture	13.8	13.8	13.8	14.5	15.1
253	Public building and related furniture	4.9	4.7	4.8	4.9	4.9
254	Partitions and fixtures	10.4	10.4	10.6	10.8	11.0
259	Miscellaneous furniture and fixtures	12.7	12.9	13.8	14.3	14.7
32	STONE, CLAY, AND GLASS PRODUCTS	114.6	114.9	111.5	112.4	114.2
322	Glass and glassware, pressed or blown	36.1	36.3	33.6	34.1	34.7
3221	Glass containers	21.1	20.9	18.6	19.0	18.6
3229	Pressed and blown glass, nec	15.0	15.4	15.0	15.1	16.1
323	Products of purchased glass	12.0	11.9	12.4	12.8	12.9
324	Cement, hydraulic	1.6	1.6	1.5	1.5	1.5
325	Structural clay products	5.4	5.5	5.8	5.9	6.0
326	Pottery and related products	13.6	14.2	13.6	13.5	14.1
327	Concrete, gypsum, and plaster products	15.3	15.3	15.8	15.6	15.6
329	Misc. nonmetallic mineral products	27.4	27.1	25.8	26.1	26.4
33	PRIMARY METAL INDUSTRIES	102.2	100.9	97.7	97.8	100.0
331	Blast furnace and basic steel products	29.4	28.3	26.3	26.2	25.9
3312	Blast furnaces and steel mills	21.1	20.1	19.0	18.9	18.6
332	Iron and steel foundries	14.6	14.2	13.3	13.4	13.6

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

(In thousands)

1972 SIC Code	Industry	Aug. 1982	Sept. 1982	July 1983	Aug. 1983	Sept. 1983
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	6.8	6.7	6.2	6.3	6.5
3322	Malleable iron foundries .....	.9	.6	.9	.9	.9
3325	Steel foundries, nec	3.9	3.6	3.4	3.4	3.4
333	Primary nonferrous metals	3.8	3.7	3.4	3.4	3.6
3334	Primary aluminum	1.7	1.6	1.4	1.4	1.5
335	Nonferrous rolling and drawing	34.2	34.6	34.5	34.1	35.8
3351	Copper rolling and drawing	3.2	3.2	3.2	3.3	3.3
3353	Aluminum sheet, plate, and foil	3.2	3.1	3.3	3.3	3.3
3357	Nonferrous wire drawing and insulating	20.5	20.7	20.1	19.6	21.0
336	Nonferrous foundries	14.8	14.8	15.1	15.5	16.0
3361	Aluminum foundries	8.0	8.0	7.7	8.0	8.4
34	FABRICATED METAL PRODUCTS	298.2	300.1	300.3	306.6	311.9
341	Metal cans and shipping containers	11.2	11.0	10.6	10.7	10.7
3411	Metal cans	9.4	9.2	8.8	9.0	9.0
342	Cutlery, hand tools, and hardware	46.2	46.3	46.8	48.0	49.2
3423, 5	Hand and edge tools, and hand saws and blades	13.1	13.1	13.1	13.2	13.3
3429	Hardware, nec	27.2	27.4	28.4	29.3	30.4
343	Plumbing and heating, except electric	14.6	15.2	15.6	16.0	16.1
344	Fabricated structural metal products	66.0	66.1	66.8	67.8	67.9
3441	Fabricated structural metal	6.9	6.8	6.3	6.3	6.2
3442	Metal doors, sash, and trim	19.9	20.0	22.9	23.4	23.6
3443	Fabricated plate work (boiler shops)	16.7	16.6	14.2	14.2	14.1
3444	Sheet metal work	14.1	14.3	15.0	15.2	15.2
345	Screw machine products, bolts, etc.	19.9	19.8	19.5	19.7	20.2
3451	Screw machine products	9.9	9.9	9.9	9.9	10.3
3452	Bolts, nuts, rivets, and washers	10.0	9.9	9.6	9.8	9.9
346	Metal forgings and stampings	46.4	47.4	46.0	47.4	49.2
3462	Iron and steel forgings	3.6	3.7	3.1	3.0	3.0
3465	Automotive stampings	11.7	12.3	12.2	12.8	13.5
3469	Metal stampings, nec	28.7	29.2	28.5	29.4	30.4
347	Metal services, nec	21.9	21.9	22.6	23.2	23.7
3471	Plating and polishing	16.4	16.5	16.6	17.2	17.4
3479	Metal coating and allied services	5.5	5.4	6.0	6.0	6.3
348	Ordnance and accessories, nec	18.5	18.5	19.1	18.8	19.2
349	Misc. fabricated metal products	53.5	53.9	53.3	55.0	55.7
3494	Valves and pipe fittings	19.8	19.7	18.8	19.0	19.2
3496	Misc. fabricated wire products	13.2	13.3	13.4	14.3	14.7
35	MACHINERY, EXCEPT ELECTRICAL	466.8	467.1	455.4	458.0	463.0
351	Engines and turbines	20.5	20.7	18.9	17.3	17.0
3511	Turbines and turbine generator sets	6.1	6.0	5.3	5.1	4.9
3519	Internal combustion engines, nec	14.4	14.7	13.6	12.2	12.1
352	Farm and garden machinery	20.9	21.6	20.8	21.4	21.7
3523	Farm machinery and equipment	16.7	17.1	15.6	15.1	16.1
353	Construction and related machinery	45.3	43.2	35.8	35.8	35.8
3531	Construction machinery	11.7	11.4	9.4	9.5	9.5
3533	Oil field machinery	16.9	15.6	11.9	11.9	11.8
354	Metalworking machinery	47.0	47.7	46.2	46.7	46.5
3541	Machine tools, metal cutting types	8.2	7.9	6.8	6.9	6.9
3544	Special dies, tools, jigs, and fixtures	14.2	14.0	14.5	14.7	14.6
3545	Machine tool accessories	11.2	10.9	10.1	10.3	10.2
355	Special industry machinery	26.2	25.8	25.0	25.1	25.2
3551	Food products machinery	5.0	5.0	4.7	4.7	4.7
3552	Textile machinery	4.1	4.0	3.8	3.8	3.8
3555	Printing trades machinery	6.7	6.7	6.7	6.7	6.6
356	General industrial machinery	55.0	53.8	50.4	51.1	51.9
3561	Pumps and pumping equipment	10.2	9.9	9.2	9.4	9.4
3562	Ball and roller bearings	12.0	11.7	10.8	11.0	11.4
357	Office and computing machines	176.9	178.0	182.6	184.3	185.4
3573	Electronic computing equipment	152.2	152.5	158.5	160.5	160.7
358	Refrigeration and service machinery	31.9	32.9	34.0	35.0	36.2
3585	Refrigeration and heating equipment	21.0	21.5	23.1	24.0	24.9
359	Misc. machinery, except electrical	43.1	43.4	41.7	42.3	43.3
3599	Machinery, except electrical, nec	34.6	34.7	33.1	33.4	34.1
36	ELECTRIC AND ELECTRONIC EQUIPMENT	843.0	842.0	856.2	858.3	867.2
361	Electric distributing equipment	41.5	42.3	42.5	42.8	43.8
3612	Transformers	17.9	18.2	17.2	17.4	17.5
3613	Switchgear and switchboard apparatus	23.6	24.1	25.3	25.4	26.3
362	Electrical industrial apparatus	74.0	72.8	70.5	70.7	72.2
3621	Motors and generators	37.7	37.6	38.8	38.8	39.3
3622	Industrial controls	25.8	24.7	21.8	22.0	22.6
363	Household appliances	48.5	50.1	51.3	51.7	54.7
3632	Household refrigerators and freezers	6.4	6.1	6.1	5.2	5.8
3633	Household laundry equipment	3.3	3.5	4.8	5.2	5.1
3634	Electric housewares and fans	24.5	26.0	23.2	25.0	25.9
364	Electric lighting and wiring equipment	82.2	82.5	80.8	82.1	84.5
3641	Electric lamps	18.6	17.8	15.9	15.4	16.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1982	Sept. 1982	July 1983	Aug. 1983	Sept. 1983
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	36.6	36.7	36.4	36.8	38.0
365	Radio and TV receiving equipment	46.7	47.8	44.3	46.2	47.8
3651	Radio and TV receiving sets	35.8	35.9	32.7	34.0	35.6
366	Communication equipment	214.6	213.6	216.3	206.2	216.0
3661	Telephone and telegraph apparatus	70.1	69.3	67.5	57.3	66.4
3662	Radio and TV communication equipment	144.5	144.3	148.8	148.9	149.6
367	Electronic components and accessories	281.6	278.0	296.3	302.6	309.3
3671-3	Electronic tubes	15.6	15.7	16.6	16.7	16.9
3674	Semiconductors and related devices	105.4	103.3	111.3	112.7	114.7
3679	Electronic components, nec.	116.6	115.5	122.6	126.3	129.4
369	Misc. electrical equipment and supplies	53.9	54.9	54.2	56.0	58.9
3694	Engine electrical equipment	22.9	23.3	23.0	23.7	25.7
37	TRANSPORTATION EQUIPMENT	281.0	285.6	300.0	299.0	309.7
371	Motor vehicles and equipment	98.7	102.5	111.8	112.4	121.7
3711	Motor vehicles and car bodies	34.5	37.3	44.4	43.7	47.7
3713	Truck and bus bodies	3.0	3.3	3.2	3.3	3.4
3714	Motor vehicle parts and accessories	58.3	58.5	59.8	60.8	65.0
372	Aircraft and parts	112.3	113.4	112.3	111.0	112.5
3721	Aircraft	62.2	62.5	62.2	62.1	62.0
3724	Aircraft engines and engine parts	24.2	25.0	24.2	23.4	24.5
3728	Aircraft equipment, nec.	25.9	25.9	25.9	25.5	26.0
373	Ship and boat building and repairing	23.5	23.4	24.4	23.7	23.6
3731	Ship building and repairing	17.3	17.2	17.0	16.2	15.9
374	Railroad equipment	3.9	3.9	3.3	3.3	3.2
376	Guided missiles, space vehicles, parts	30.9	31.0	34.2	34.4	34.5
3761	Guided missiles and space vehicles	25.4	25.5	28.0	28.1	28.2
379	Miscellaneous transportation equipment	7.3	7.4	9.1	9.2	9.5
38	INSTRUMENTS AND RELATED PRODUCTS	301.1	299.7	290.0	293.6	296.3
381	Engineering and scientific instruments	25.7	25.0	24.6	24.5	24.2
382	Measuring and controlling devices	102.3	101.7	99.3	100.4	101.8
3822	Environmental controls	20.5	20.5	21.5	22.1	22.8
3823	Process control instruments	19.2	18.6	17.4	17.5	17.6
3825	Instruments to measure electricity	46.5	46.0	44.9	40.9	45.1
383	Optical instruments and lenses	11.8	11.8	11.2	11.2	11.5
384	Medical instruments and supplies	85.9	86.4	87.2	88.3	89.0
3841	Surgical and medical instruments	42.2	42.3	44.1	44.6	44.4
3842	Surgical appliances and supplies	36.3	36.9	36.6	37.1	37.9
385	Ophthalmic goods	23.0	22.6	22.0	22.4	22.6
386	Photographic equipment and supplies	41.5	40.7	36.2	36.4	36.7
387	Watches, clocks, and watchcases	10.9	11.5	9.5	10.6	10.5
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	176.9	180.2	172.1	177.5	179.7
391	Jewelry, silverware, and plated ware	24.9	25.7	23.4	26.1	26.9
393	Musical instruments	8.5	8.5	8.9	9.3	9.3
394	Toys and sporting goods	59.5	60.9	58.7	58.4	58.4
3942, 4	Dolls, games, toys, and children's vehicles	34.7	36.1	34.2	34.2	33.8
3949	Sporting and athletic goods, nec.	24.8	24.8	24.5	24.2	24.6
395	Pens, pencils, office and art supplies	16.3	16.2	16.1	15.9	16.0
396	Costume jewelry and notions	21.9	22.2	19.6	21.2	22.2
399	Miscellaneous manufactures	45.8	46.7	45.4	46.6	46.9
NONDURABLE GOODS						
20	FOOD AND KINDRED PRODUCTS	548.2	551.2	517.7	549.0	553.4
201	Meat products	116.3	116.6	117.0	117.0	117.5
2011	Meat packing plants	26.6	26.9	26.9	26.8	26.8
2013	Sausages and other prepared meats	21.8	21.9	21.9	21.7	21.5
2016	Poultry dressing plants	60.0	60.1	60.3	60.4	61.1
202	Dairy products	37.3	36.4	36.7	37.3	36.2
2026	Fluid milk	16.2	15.8	15.6	15.4	15.1
203	Preserved fruits and vegetables	148.6	148.5	110.3	139.8	139.5
2032	Canned specialties	9.3	9.9	8.3	9.0	10.1
2033	Canned fruits and vegetables	76.3	72.7	39.2	67.3	63.7
2037	Frozen fruits and vegetables	24.8	27.8	23.5	23.7	27.3
204	Grain mill products	28.2	28.3	29.1	29.2	29.5
205	Bakery products	58.9	59.5	60.3	59.3	59.9
2051	Bread, cake, and related products	39.0	39.0	39.4	38.7	39.0
2052	Cookies and crackers	19.9	20.5	20.9	20.6	20.9
206	Sugar and confectionery products	39.9	42.6	42.3	43.4	47.0
207	Fats and oils	5.3	5.4	5.0	5.0	5.0
208	Beverages	42.8	42.9	43.9	43.4	44.1
2082	Malt beverages	8.6	8.2	9.4	9.2	9.4
2086	Bottled and canned soft drinks	19.0	18.9	19.2	19.1	19.0
209	Misc. foods and kindred products	70.9	71.0	73.1	74.6	74.7
21	TOBACCO MANUFACTURES	25.6	25.6	20.0	23.1	24.8
211	Cigarettes	14.2	13.8	13.4	13.7	13.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1982	Sept. 1982	July 1983	Aug. 1983	Sept. 1983
22	TEXTILE MILL PRODUCTS	353.0	354.7	348.3	358.9	362.6
221	Weaving mills, cotton	53.6	53.9	52.5	53.2	54.1
222	Weaving mills, synthetics	38.0	38.6	36.9	37.9	37.9
223	Weaving and finishing mills, wool	6.2	6.3	6.5	6.9	7.1
224	Narrow fabric mills	13.1	12.9	11.9	12.8	12.7
225	Knitting mills	132.7	133.5	131.8	134.4	135.5
2251	Women's hosiery, except socks	24.5	24.7	26.1	27.0	27.3
2252	Hosiery, nec	22.5	22.4	23.1	23.7	23.7
2253	Knit outerwear mills	47.5	47.6	42.4	42.9	43.8
2254	Knit underwear mills	21.4	21.6	22.7	23.2	22.9
2257	Circular knit fabric mills	9.6	10.0	10.1	10.1	10.2
226	Textile finishing, except wool	19.8	19.6	19.2	19.8	20.0
2261	Finishing plants, cotton	9.2	9.1	8.8	9.0	8.9
2262	Finishing plants, synthetic	5.1	4.8	4.9	5.0	5.0
227	Floor covering mills	19.6	19.7	20.3	21.5	21.8
228	Yarn and thread mills	53.4	53.9	53.2	55.9	56.4
2281	Yarn mills, except wool	34.7	34.9	34.8	36.4	36.6
2282	Throwing and winding mills	9.5	9.8	9.8	10.4	10.6
229	Miscellaneous textile goods	16.6	16.3	16.0	16.5	17.1
23	APPAREL AND OTHER TEXTILE PRODUCTS	931.2	939.9	915.3	953.3	966.1
231	Men's and boys' suits and coats	57.0	58.1	52.4	52.5	54.2
232	Men's and boys' furnishings	270.6	272.1	268.1	281.1	284.2
2321	Men's and boys' shirts and nightwear	79.9	79.8	79.6	81.3	82.5
2327	Men's and boys' separate trousers	54.3	53.9	51.1	55.4	55.9
2328	Men's and boys' work clothing	75.3	77.0	77.7	82.3	82.7
233	Women's and misses' outerwear	326.3	328.4	315.5	328.9	330.6
2331	Women's and misses' blouses and waists	56.6	56.1	54.5	55.6	55.8
2335	Women's and misses' dresses	109.7	111.2	102.7	108.7	108.6
2337	Women's and misses' suits and coats	48.1	47.9	46.6	49.8	49.9
2339	Women's and misses' outerwear, nec	111.9	113.2	111.7	114.8	116.3
234	Women's and children's undergarments	70.5	71.9	69.5	73.5	75.0
2341	Women's and children's underwear	55.1	60.6	58.1	61.7	62.9
2342	Brassieres and allied garments	11.4	11.3	11.4	11.8	12.1
236	Children's outerwear	52.5	52.2	53.6	53.2	54.2
2361	Children's dresses and blouses	23.6	23.3	22.8	23.2	23.7
238	Misc. apparel and accessories	38.3	38.0	34.1	36.5	36.8
239	Misc. fabricated textile products	102.4	105.6	108.2	112.9	116.4
2391	Curtains and draperies	17.6	18.0	18.2	19.3	19.7
2392	House furnishings, nec	31.1	32.0	32.5	34.3	35.3
2396	Automotive and apparel trimmings	15.2	16.1	17.2	17.7	18.9
26	PAPER AND ALLIED PRODUCTS	152.4	152.1	152.8	155.0	156.0
261, 2,6	Paper and pulp mills	27.5	26.8	27.4	27.3	27.1
262	Paper mills, except building paper	24.8	24.3	24.7	24.5	24.5
263	Paperboard mills	5.4	5.4	5.5	5.5	5.4
264	Misc. converted paper products	74.8	74.9	76.0	77.2	77.5
265	Paperboard containers and boxes	44.7	45.0	43.9	45.0	46.0
27	PRINTING AND PUBLISHING	511.1	511.9	521.4	523.5	525.8
271	Newspapers	161.5	161.6	166.8	167.2	168.0
272	Periodicals	57.9	57.6	59.5	59.3	59.4
273	Books	52.9	51.8	50.9	50.3	49.3
274	Miscellaneous publishing	27.9	27.6	29.7	29.7	29.6
275	Commercial printing	134.6	136.3	137.7	139.7	141.6
2751	Commercial printing, letterpress	50.3	52.2	51.6	52.8	53.5
2752	Commercial printing, lithographic	77.7	78.2	80.0	80.7	81.8
276	Manifold business forms	15.4	15.5	15.7	15.8	16.0
278	Blankbooks and bookbinding	33.0	33.1	33.0	33.3	33.1
279	Printing trade services	13.0	13.2	14.3	14.3	14.6
28	CHEMICALS AND ALLIED PRODUCTS	282.1	280.2	280.3	280.7	280.9
281	Industrial inorganic chemicals	25.3	25.0	25.6	25.7	25.1
2819	Industrial inorganic chemicals, nec	16.9	16.7	17.4	17.5	17.1
282	Plastics materials and synthetics	40.3	39.5	37.8	38.0	37.6
2821	Plastics materials and resins	11.1	10.9	11.3	11.3	11.3
2824	Organic fibers, noncellulosic	21.0	20.8	18.7	18.9	18.8
283	Drugs	86.1	85.6	87.5	87.0	86.9
2834	Pharmaceutical preparations	71.6	71.3	72.5	72.3	72.4
284	Soap, cleaners, and toilet goods	61.5	61.3	63.7	63.5	64.6
2841	Soap and other detergents	10.3	10.0	10.5	10.4	10.3
2844	Toilet preparations	38.6	38.4	40.3	40.1	41.1
285	Paints and allied products	11.8	11.7	11.9	12.1	11.9
286	Industrial organic chemicals	27.0	27.1	25.5	25.5	25.6
2861,9	Gum, wood, and industrial organic chemicals, nec	22.8	22.9	21.2	21.2	21.3
287	Agricultural chemicals	9.7	9.6	8.7	8.7	8.7
289	Miscellaneous chemical products	20.4	20.4	19.6	20.2	20.5

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1982	Sept. 1982	July 1983	Aug. 1983	Sept. 1983
29	PETROLEUM AND COAL PRODUCTS	31.4	31.4	30.7	30.6	30.3
291	Petroleum refining	26.3	26.3	25.7	25.6	25.3
30	RUBBER AND MISC. PLASTICS PRODUCTS	244.1	245.0	252.8	260.7	264.9
301	Tires and inner tubes	9.3	9.4	8.6	8.6	8.7
302	Rubber and plastics footwear	11.5	11.5	10.8	11.0	11.0
303,4	Reclaimed rubber, and rubber and plastics hose and belting	5.4	5.5	5.4	5.6	5.7
306	Fabricated rubber products, nec	34.4	34.3	34.4	35.4	36.1
307	Miscellaneous plastics products	183.5	184.3	193.6	200.1	203.4
31	LEATHER AND LEATHER PRODUCTS	134.0	132.6	120.9	131.4	131.7
311	Leather tanning and finishing	2.8	2.7	2.4	2.7	2.8
314	Footwear, except rubber	92.0	91.2	81.1	88.7	88.3
3143	Men's footwear, except athletic	34.2	33.9	30.1	32.7	32.9
3144	Women's footwear, except athletic	37.8	37.2	33.8	36.5	35.7
316	Luggage	7.4	7.1	7.2	7.7	7.7
317	Handbags and personal leather goods	18.8	18.6	18.0	19.2	19.8
	TRANSPORTATION AND PUBLIC UTILITIES	1,322	1,343	1,314	1,012	1,354
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	44.6	77.5	46.7	45.0	75.6
411	Local and suburban transportation	16.5	16.9	16.5	16.3	18.1
412	Taxicabs	5.8	6.1	5.4	5.4	5.6
413	Intercity highway transportation	5.0	5.2	4.4	4.5	4.5
415	School buses	14.0	45.6	16.4	14.4	43.2
42	TRUCKING AND WAREHOUSING	155.0	154.0	156.6	157.5	157.8
421,3	Trucking and trucking terminals	138.0	136.8	139.6	139.4	140.3
422	Public warehousing	17.0	17.2	17.0	18.1	17.5
44	WATER TRANSPORTATION	26.7	25.8	26.5	26.5	25.6
45	TRANSPORTATION BY AIR	148.1	148.1	152.0	154.4	154.1
451,2	Air transportation	138.4	138.5	141.9	144.0	143.7
46	PIPE LINES, EXCEPT NATURAL GAS	3.1	3.0	2.8	2.8	2.7
47	TRANSPORTATION SERVICES	112.4	111.4	121.7	120.5	121.0
48	COMMUNICATION	634.3	628.6	611.3	307.8	618.1
481	Telephone communication	523.7	516.8	485.7	180.9	490.2
483	Radio and television broadcasting	73.8	74.0	78.6	78.5	78.6
49	ELECTRIC, GAS, AND SANITARY SERVICES	175.3	171.9	176.1	176.9	178.2
491	Electric services	84.1	83.4	88.5	88.4	88.1
492	Gas production and distribution	40.6	39.3	39.3	39.2	38.5
493	Combination utility services	38.7	37.6	35.3	36.3	38.9
495	Sanitary services	6.3	6.2	7.1	7.1	7.1
	WHOLESALE AND RETAIL TRADE	9,048	9,107	9,162	9,219	9,282
50,51	WHOLESALE TRADE	1,387	1,392	1,394	1,402	1,416
50	WHOLESALE TRADE-DURABLE GOODS	760	757	764	768	771
501	Motor vehicles and automotive equipment	87.8	87.2	88.4	89.3	88.9
502	Furniture and home furnishings	44.4	44.4	45.0	45.8	46.3
503	Lumber and construction materials	36.5	36.6	38.2	38.7	38.9
504	Sporting goods, toys, and hobby goods	24.4	24.8	26.0	26.0	26.5
505	Metals and minerals, except petroleum	26.9	26.5	24.7	24.7	24.5
506	Electrical goods	126.6	126.5	128.9	129.0	131.3
507	Hardware, plumbing, and heating equipment	63.7	63.7	63.4	64.0	64.2
508	Machinery, equipment, and supplies	307.0	304.8	306.5	307.4	307.1
509	Miscellaneous durable goods	42.7	42.8	42.5	42.9	43.0
51	WHOLESALE TRADE-NONDURABLE GOODS	627	635	630	634	645
511	Paper and paper products	51.6	51.9	53.0	53.2	53.3
512	Drugs, proprietaries, and sundries	68.2	68.8	68.3	67.7	67.9
513	Apparel, piece goods, and notions	84.7	85.2	82.6	84.6	85.1
514	Groceries and related products	154.4	155.3	157.5	158.0	162.2
516	Chemicals and allied products	37.1	37.3	39.1	39.3	39.1
517	Petroleum and petroleum products	53.6	53.1	52.3	52.3	52.2
518	Beer, wine, and distilled beverages	22.0	22.1	22.3	22.3	22.1
519	Miscellaneous nondurable goods	120.4	122.6	119.5	119.5	121.8

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Aug. 1982	Sept. 1982	July 1983	Aug. 1983	Sept. 1983
52-59	RETAIL TRADE	7,661	7,715	7,768	7,817	7,866
52	BUILDING MATERIALS AND GARDEN SUPPLIES	155.2	156.1	164.0	163.5	163.5
521	Lumber and other building materials	61.5	61.1	67.6	67.9	67.8
525	Hardware stores	55.9	55.5	57.7	57.4	56.7
53	GENERAL MERCHANDISE STORES	1,449.2	1,461.2	1,475.5	1,477.0	1,488.8
531	Department stores	1,200.8	1,212.5	1,243.4	1,241.8	1,254.0
533	Variety stores	171.4	172.2	157.6	159.8	160.6
539	Misc. general merchandise stores	77.0	76.5	74.5	75.4	74.2
54	FOOD STORES	1,087.4	1,097.2	1,112.1	1,114.8	1,121.9
541	Grocery stores	911.4	919.9	931.9	933.5	941.6
542	Meat markets and freezer provisioners	17.6	18.0	18.5	18.2	17.9
546	Retail bakeries	81.4	83.1	86.5	87.8	89.0
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	317.1	315.7	320.6	322.7	323.6
551,2	New and used car dealers	108.9	108.6	111.5	112.1	113.6
553	Auto and home supply stores	47.8	48.1	49.5	49.1	48.5
554	Gasoline service stations	145.6	144.9	143.2	145.1	145.4
56	APPAREL AND ACCESSORY STORES	653.5	653.3	651.2	659.7	658.6
561	Men's and boys' clothing and furnishings	51.9	52.7	51.7	52.0	51.5
562	Women's ready-to-wear stores	303.2	303.0	307.6	311.5	312.7
565	Family clothing stores	131.8	130.6	129.0	130.5	127.3
566	Shoe stores	86.9	85.5	85.1	86.3	85.1
57	FURNITURE AND HOME FURNISHING STORES	198.0	199.5	208.7	211.7	214.3
571	Furniture and home furnishings stores	126.4	127.7	130.8	132.9	133.0
572	Household appliance stores	22.1	22.0	25.9	25.5	26.2
573	Radio, television, and music stores	49.5	49.8	52.0	53.3	55.1
58	EATING AND DRINKING PLACES	2,761.3	2,777.1	2,784.4	2,805.0	2,808.1
59	MISCELLANEOUS RETAIL	1,039.2	1,054.4	1,051.8	1,062.4	1,087.1
591	Drug stores and proprietary stores	309.6	311.2	309.1	310.5	312.4
592	Liquor stores	34.5	35.0	34.9	35.0	35.8
594	Miscellaneous shopping goods stores	370.4	378.9	384.3	389.2	399.5
596	Nonstore retailers	152.6	156.7	149.3	153.3	161.8
598	Fuel and ice dealers	23.4	22.8	22.6	22.8	22.9
599	Retail stores, nec	127.3	127.9	126.4	128.1	131.5
	FINANCE, INSURANCE, AND REAL ESTATE	3,221	3,200	3,303	3,307	3,297
60	BANKING	1,182.3	1,172.1	1,188.3	1,185.8	1,180.9
602	Commercial and stock savings banks	1,085.5	1,075.9	1,087.4	1,085.0	1,081.0
61	CREDIT AGENCIES OTHER THAN BANKS	404.6	403.7	433.2	434.9	436.4
612	Savings and loan associations	202.9	203.1	226.2	227.6	228.3
614	Personal credit institutions	128.8	128.8	125.1	125.7	125.7
62	SECURITY, COMMODITY BROKERS, AND SERVICES	119.6	118.7	138.1	138.7	139.4
621	Security brokers and dealers	97.1	96.3	112.1	112.4	113.3
63	INSURANCE CARRIERS	751.5	746.7	746.1	745.2	743.0
631	Life insurance	304.3	302.4	297.9	297.2	295.6
632	Medical service and health insurance	102.0	101.8	105.0	105.1	105.1
633	Fire, marine, and casualty insurance	297.8	295.0	289.7	288.4	287.8
64	INSURANCE AGENTS, BROKERS, AND SERVICE	302.5	300.8	306.0	306.9	306.1
65	REAL ESTATE	377.7	375.0	408.1	411.3	407.4
651	Real estate operators and lessors	162.6	161.1	179.6	181.2	180.4
653	Real estate agents and managers	167.7	166.8	177.9	179.5	176.0
655	Subdividers and developers	33.8	33.6	34.5	34.1	34.2
66	COMBINED REAL ESTATE, INSURANCE, ETC	10.8	10.7	10.6	10.6	10.3
67	HOLDING AND OTHER INVESTMENT OFFICES	72.2	72.2	72.6	73.1	73.0
	SERVICES	11,318	11,404	11,759	11,767	11,864
70	HOTELS AND OTHER LODGING PLACES	678.0	625.9	667.3	680.5	634.4
701	Hotels, motels, and tourist courts	636.2	603.4	628.4	637.2	611.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Aug. 1982	Sept. 1982	July 1963	Aug. 1963	Sept. 1983
72	PERSONAL SERVICES	629.2	643.2	627.5	629.0	638.6
721	Laundry, cleaning, and garment services	217.7	218.5	215.7	216.7	217.7
723	Beauty shops	254.2	256.4	264.8	265.3	268.6
726	Funeral service and crematories	20.1	20.4	22.1	21.7	21.2
73	BUSINESS SERVICES	1,449.7	1,453.3	1,619.0	1,630.7	1,660.8
731	Advertising	79.9	80.6	83.9	84.4	84.7
732	Credit reporting and collection	53.2	53.2	57.3	57.2	57.1
733	Mailing, reproduction, stenographic	64.0	65.8	67.7	69.1	72.7
734	Services to buildings	200.5	200.6	208.6	208.2	210.4
736	Personnel supply services	357.2	358.1	470.3	472.9	484.8
737	Computer and data processing services	171.2	172.7	188.4	187.8	187.0
75	AUTO REPAIR, SERVICES, AND GARAGES	101.9	101.1	103.3	104.3	104.5
753	Automotive repair shops	51.1	50.6	51.0	51.6	51.6
76	MISCELLANEOUS REPAIR SERVICES	55.9	55.2	53.7	53.8	54.8
78	MOTION PICTURES	87.5	82.9	89.0	88.9	84.3
781	Motion picture production and services	27.2	26.8	28.0	28.6	29.8
783	Motion picture theaters	54.3	50.0	55.2	54.5	48.6
79	AMUSEMENT AND RECREATION SERVICES	370.8	341.6	405.9	400.3	363.2
80	HEALTH SERVICES	4,760.0	4,758.5	4,891.5	4,892.9	4,890.6
801	Offices of physicians	651.3	650.3	686.8	688.8	690.4
802	Offices of dentists	328.5	330.1	351.6	352.9	352.8
805	Nursing and personal care facilities	952.3	953.0	977.6	980.3	979.8
806	Hospitals	2,453.5	2,449.6	2,453.2	2,448.0	2,441.2
81	LEGAL SERVICES	401.5	401.6	433.6	431.4	431.1
82	EDUCATIONAL SERVICES	530.4	630.4	524.0	519.2	626.4
821	Elementary and secondary schools	171.1	208.2	167.4	166.7	204.4
822	Colleges and universities	294.7	356.4	288.5	284.6	351.6
83	SOCIAL SERVICES	844.1	884.5	905.0	907.8	936.4
89	MISCELLANEOUS SERVICES	356.1	353.4	369.3	370.5	368.8
891	Engineering and architectural services	130.4	126.4	131.8	132.2	131.1
893	Accounting, auditing, and bookkeeping	169.2	170.8	178.8	179.4	180.0
	GOVERNMENT	6,738	7,312	6,941	6,880	7,413
	FEDERAL GOVERNMENT	898	876	969	963	951
	STATE AND LOCAL GOVERNMENT	5,840	6,436	5,972	5,917	6,462
	State government	1,504.8	1,587.2	1,461.4	1,468.4	1,546.2
	Hospitals	306.6	305.2	297.4	297.0	296.8
	State education	532.2	635.4	546.2	549.5	634.7
	General administration including executive, legislative, and judicial functions	443.2	435.1	404.4	406.7	403.3
	Local government	4,335.3	4,848.3	4,510.7	4,448.3	4,915.7
	Transportation and public utilities	88.6	88.9	94.4	94.0	93.1
	Hospitals	518.9	517.8	521.2	521.1	518.1
	Local education	2,471.4	3,076.8	2,634.4	2,587.9	3,147.9
	General administration including executive, legislative, and judicial functions	1,047.6	977.9	1,054.5	1,041.1	966.5

c = corrected.

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	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. p	Nov. p
TOTAL	88,785	88,665	88,885	88,746	88,814	89,090	89,421	89,844	90,152	89,748	90,851	91,055	91,425
GOODS-PRODUCING	23,131	23,061	23,186	23,049	23,030	23,159	23,347	23,518	23,724	23,830	23,935	24,164	24,309
MINING	1,066	1,053	1,037	1,014	1,006	997	994	1,003	1,017	1,023	1,026	1,043	1,036
CONSTRUCTION	3,843	3,815	3,905	3,790	3,757	3,786	3,860	3,933	3,974	4,014	4,038	4,061	4,099
MANUFACTURING	18,222	18,193	18,244	18,245	18,267	18,376	18,493	18,582	18,733	18,793	18,871	19,060	19,174
DURABLE GOODS	10,577	10,559	10,594	10,608	10,617	10,689	10,788	10,844	10,961	11,022	11,081	11,231	11,312
Lumber and wood products	608	614	625	631	638	651	662	679	688	699	703	710	714
Furniture and fixtures	427	429	430	427	433	440	446	450	459	457	459	465	468
Stone, clay, and glass products	559	554	557	557	559	565	570	573	577	582	585	589	592
Primary metal industries	623	816	617	810	616	820	828	830	839	840	849	866	866
Fabricated metal products	1,362	1,359	1,364	1,364	1,362	1,369	1,379	1,384	1,391	1,410	1,411	1,430	1,439
Machinery, except electrical	2,088	2,066	2,048	2,042	2,030	2,031	2,064	2,066	2,094	2,109	2,115	2,131	2,162
Electric and electronic equipment	1,975	1,957	1,974	1,981	1,988	1,999	2,010	2,030	2,047	2,043	2,082	2,107	2,129
Transportation equipment	1,661	1,696	1,710	1,729	1,723	1,743	1,757	1,762	1,794	1,807	1,801	1,848	1,853
Instruments and related products	700	695	695	693	691	690	689	687	687	692	696	699	700
Miscellaneous manufacturing ind.	374	373	374	374	377	381	383	383	385	383	380	386	389
NONDURABLE GOODS	7,645	7,634	7,650	7,637	7,650	7,687	7,705	7,738	7,772	7,771	7,790	7,829	7,862
Food and kindred products	1,632	1,626	1,626	1,620	1,619	1,633	1,632	1,643	1,638	1,627	1,630	1,630	1,635
Tobacco manufactures	63	69	69	67	67	66	66	65	65	62	63	64	62
Textile mill products	727	727	726	726	730	733	736	745	746	752	753	758	759
Apparel and other textile products	1,141	1,140	1,150	1,148	1,143	1,149	1,153	1,159	1,180	1,175	1,177	1,191	1,201
Paper and allied products	654	653	653	652	652	654	656	657	658	659	662	666	669
Printing and publishing	1,263	1,263	1,266	1,264	1,269	1,274	1,276	1,281	1,284	1,289	1,290	1,296	1,302
Chemicals and allied products	1,064	1,059	1,057	1,056	1,056	1,058	1,058	1,056	1,059	1,056	1,050	1,061	1,062
Petroleum and coal products	200	199	200	199	199	199	198	198	197	195	195	194	192
Rubber and misc. plastic products	685	685	688	691	699	707	716	721	732	739	742	752	761
Leather and leather products	216	213	215	214	216	214	214	213	213	217	218	217	219
SERVICE-PRODUCING	65,654	65,604	65,699	65,697	65,784	65,931	66,074	66,326	66,428	65,918	66,916	66,891	67,116
TRANSPORTATION AND PUBLIC UTILITIES	5,019	5,006	4,979	4,966	4,963	4,988	4,993	4,992	4,984	4,341	5,031	5,020	5,018
WHOLESALE AND RETAIL TRADE	20,320	20,256	20,355	20,343	20,350	20,329	20,356	20,494	20,529	20,580	20,512	20,656	20,665
WHOLESALE TRADE	5,212	5,192	5,185	5,181	5,176	5,180	5,197	5,222	5,229	5,249	5,274	5,288	5,285
RETAIL TRADE	15,108	15,064	15,170	15,162	15,174	15,149	15,159	15,272	15,300	15,331	15,338	15,368	15,380
FINANCE, INSURANCE, AND REAL ESTATE	5,356	5,367	5,374	5,384	5,391	5,425	5,435	5,451	5,465	5,488	5,499	5,504	5,522
SERVICES	19,187	19,215	19,238	19,262	19,356	19,478	19,546	19,668	19,770	19,835	19,913	19,972	20,121
GOVERNMENT	15,772	15,758	15,753	15,742	15,724	15,713	15,744	15,721	15,680	15,674	15,861	15,739	15,790
FEDERAL	2,746	2,747	2,748	2,742	2,742	2,738	2,756	2,742	2,738	2,746	2,778	2,768	2,771
STATE AND LOCAL	13,026	13,011	13,005	13,000	12,982	12,975	12,988	12,979	12,942	12,928	13,083	12,971	13,019

¹ August 1983 estimates for total nonfarm payroll, service-producing, total government, and Federal Government employment have been corrected.

p = preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT**

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

[In thousands]

Industry division and group	1982				1983								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL ¹	38,952	38,907	38,884	38,847	38,955	38,977	39,048	39,176	39,306	39,458	39,736	39,556	39,958
GOODS-PRODUCING	6,438	6,390	6,353	6,336	6,376	6,376	6,390	6,433	6,466	6,505	6,561	6,569	6,606
MINING	134	132	130	129	129	128	127	126	123	122	123	124	124
CONSTRUCTION	376	375	375	377	379	379	380	380	382	384	389	391	396
MANUFACTURING	5,928	5,883	5,848	5,830	5,868	5,869	5,883	5,927	5,961	5,999	6,049	6,054	6,086
DURABLE GOODS	2,787	2,748	2,729	2,717	2,732	2,738	2,748	2,769	2,792	2,808	2,842	2,851	2,876
Lumber and wood products	90	90	91	92	93	94	95	96	97	100	101	101	102
Furnitures and fixtures	129	128	129	128	130	129	131	133	134	135	138	137	137
Stone, clay, and glass products	113	111	109	108	108	107	108	110	111	110	111	111	112
Primary metal industries	100	97	94	94	95	96	96	96	96	97	97	97	99
Fabricated metal products	297	292	290	291	293	295	296	298	301	303	304	308	308
Machinery, except electrical	468	458	453	450	447	445	443	445	451	452	459	464	463
Electric and electronic equipment	836	827	826	814	822	826	831	837	844	851	853	861	881
Transportation equipment	282	279	275	280	283	286	287	291	295	296	301	303	306
Instruments and related products	299	296	294	292	292	291	291	290	289	289	291	294	296
Miscellaneous manufacturing ind.	173	170	168	168	169	169	170	173	174	175	177	175	172
NONDURABLE GOODS	3,141	3,135	3,119	3,113	3,136	3,131	3,135	3,158	3,169	3,191	3,207	3,203	3,210
Food and kindred products	496	499	497	495	499	498	497	505	505	513	507	498	498
Tobacco manufactures	23	23	22	24	24	23	23	23	23	23	22	21	22
Textile mill products	350	350	347	346	346	345	348	349	350	355	355	357	358
Apparel and other textile products	926	926	921	917	932	928	924	929	933	937	954	950	952
Paper and allied products	151	150	150	150	150	149	150	151	151	152	153	153	154
Printing and publishing	514	512	511	512	513	513	515	518	520	523	524	526	527
Chemicals and allied products	279	277	276	275	274	275	275	276	276	277	278	278	280
Petroleum and coal products	31	31	31	31	31	31	31	31	30	30	30	30	30
Rubber and misc. plastics products	241	238	235	236	238	241	244	249	253	254	257	262	260
Leather and leather products	130	129	129	127	129	128	128	127	128	127	127	128	129
SERVICE-PRODUCING ¹	32,514	32,517	32,531	32,511	32,579	32,601	32,658	32,743	32,840	32,953	33,175	32,987	33,352
TRANSPORTATION AND PUBLIC UTILITIES	1,335	1,332	1,330	1,331	1,328	1,328	1,328	1,332	1,329	1,333	1,326	1,021	1,346
WHOLESALE AND RETAIL TRADE	9,049	9,045	9,033	8,997	9,063	9,068	9,088	9,094	9,099	9,167	9,208	9,225	9,216
WHOLESALE TRADE	1,389	1,387	1,380	1,378	1,374	1,375	1,372	1,377	1,381	1,396	1,401	1,408	1,412
RETAIL TRADE	7,660	7,658	7,653	7,619	7,689	7,693	7,716	7,717	7,718	7,771	7,807	7,817	7,804
FINANCE, INSURANCE, AND REAL ESTATE	3,206	3,203	3,207	3,212	3,218	3,220	3,227	3,251	3,255	3,263	3,277	3,287	3,304
SERVICES	11,394	11,410	11,431	11,456	11,474	11,500	11,536	11,603	11,654	11,708	11,759	11,802	11,852
GOVERNMENT ¹	7,530	7,527	7,530	7,515	7,496	7,485	7,479	7,463	7,503	7,482	7,605	7,652	7,634
FEDERAL	889	887	894	894	892	891	902	910	928	935	947	951	965
STATE AND LOCAL	6,641	6,640	6,636	6,621	6,604	6,594	6,577	6,553	6,575	6,547	6,658	6,701	6,669

¹ August 1983 estimates for total nonfarm payroll, service-producing, total government, and Federal Government employment have been corrected.

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^P	Nov. P
TOTAL PRIVATE	58,800	58,704	58,939	58,801	58,689	59,150	59,462	59,871	60,182	59,751	60,607	60,897	61,143
GOODS-PRODUCING	15,961	15,908	16,019	15,900	15,681	16,016	16,183	16,349	16,538	16,626	16,705	16,930	17,058
MINING	763	750	736	715	707	701	699	710	721	724	728	742	734
CONSTRUCTION	2,946	2,917	2,992	2,882	2,651	2,880	2,953	3,024	3,061	3,099	3,118	3,145	3,174
MANUFACTURING	12,252	12,241	12,291	12,303	12,323	12,435	12,531	12,615	12,756	12,803	12,859	13,043	13,150
DURABLE GOODS	6,900	6,892	6,931	6,949	6,961	7,035	7,115	7,169	7,278	7,329	7,378	7,521	7,591
Lumber and wood products	500	506	515	522	529	540	550	566	575	584	588	595	600
Furniture and fixtures	337	338	339	337	342	349	354	357	365	364	365	370	375
Stone, clay, and glass products	422	416	421	421	423	429	434	436	440	446	448	453	457
Primary metal industries	601	596	598	595	601	606	615	616	625	629	636	652	653
Fabricated metal products	375	373	381	383	382	387	396	400	409	413	425	444	450
Machinery, except electrical	1,215	1,199	1,186	1,179	1,171	1,175	1,201	1,204	1,227	1,241	1,247	1,263	1,288
Electric and electronic equipment	1,178	1,161	1,182	1,187	1,193	1,204	1,213	1,226	1,242	1,238	1,270	1,293	1,311
Transportation equipment	1,010	1,044	1,055	1,073	1,066	1,085	1,093	1,103	1,134	1,141	1,134	1,176	1,181
Instruments and related products	394	390	387	385	384	384	384	382	382	386	391	395	394
Miscellaneous manufacturing ind.	268	267	267	267	270	274	275	276	279	277	274	280	282
NONDURABLE GOODS	5,352	5,349	5,360	5,354	5,362	5,400	5,416	5,446	5,478	5,474	5,481	5,522	5,959
Food and kindred products	1,123	1,119	1,119	1,115	1,114	1,126	1,126	1,136	1,133	1,120	1,120	1,122	1,128
Tobacco manufactures	48	54	54	52	52	51	51	50	47	48	48	49	46
Textile mill products	623	623	622	622	627	631	634	643	643	650	650	655	657
Apparel and other textile products	962	963	973	970	965	972	976	980	999	994	995	1,008	1,018
Paper and allied products	487	486	486	486	486	488	491	491	494	492	495	499	503
Printing and publishing	694	695	694	694	694	699	701	705	705	708	708	713	718
Chemicals and allied products	592	589	588	587	585	587	585	586	589	588	589	591	594
Petroleum and coal products	120	119	120	121	122	122	120	119	119	118	117	116	115
Rubber and misc. plastics products	523	524	525	529	538	546	554	558	568	575	576	586	595
Leather and leather products	180	177	179	178	179	178	178	178	178	182	183	183	185
SERVICE-PRODUCING	42,889	42,856	42,920	42,901	43,008	43,134	43,279	43,522	43,644	43,125	43,902	43,967	44,085
TRANSPORTATION AND PUBLIC UTILITIES	4,135	4,125	4,103	4,087	4,086	4,106	4,111	4,110	4,103	3,461	4,143	4,134	4,131
WHOLESALE AND RETAIL TRADE	17,738	17,689	17,774	17,769	17,776	17,754	17,797	17,910	17,958	18,000	18,018	18,042	18,035
WHOLESALE TRADE	4,201	4,183	4,171	4,166	4,156	4,165	4,182	4,203	4,207	4,225	4,250	4,259	4,252
RETAIL TRADE	13,537	13,506	13,603	13,603	13,620	13,589	13,615	13,707	13,751	13,775	13,768	13,783	13,783
FINANCE, INSURANCE, AND REAL ESTATE	3,993	3,997	3,996	4,003	4,012	4,037	4,049	4,065	4,071	4,090	4,095	4,098	4,106
SERVICES	17,043	17,045	17,045	17,042	17,134	17,237	17,322	17,437	17,512	17,574	17,646	17,653	17,813

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

p = preliminary.

ESTABLISHMENT DATA

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

Time span	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Over 1-month span	1981.....	57.8	52.4	52.2	65.6	60.2	58.9	62.6	49.5	42.2	33.3	29.3	30.9
	1982.....	28.5	45.4	36.0	39.0	47.6	32.8	38.4	37.1	34.1	29.3	32.0	42.2
	1983.....	56.5	45.7	62.4	69.1	71.0	64.5	68.5	68.0	60.8	70.2p	60.5p	
Over 3-month span	1981.....	58.3	54.6	59.1	65.9	67.5	66.7	60.5	50.5	33.3	30.1	24.5	23.4
	1982.....	25.3	28.8	32.0	34.1	32.5	33.6	27.2	27.2	26.1	25.5	24.7	40.6
	1983.....	45.4	55.1	65.6	75.8	76.1	77.2	73.9	79.6	79.0p	72.0p		
Over 6-month span	1981.....	68.5	65.3	63.7	69.4	64.2	58.6	45.7	34.4	29.6	24.2	25.0	22.0
	1982.....	20.2	23.7	25.3	29.8	26.1	26.1	23.4	19.1	21.2	26.1	26.6	35.8
	1983.....	50.5	63.2	73.4	76.3	79.3	83.6	83.3p	80.9p				
Over 12-month span	1981.....	74.5	71.2	70.4	58.1	47.6	41.4	34.9	29.8	27.4	23.7	25.3	23.1
	1982.....	22.0	20.7	18.0	19.4	18.3	20.7	20.7	22.8	24.2	31.5	37.6	44.1
	1983.....	48.9	58.3	62.6	72.8p	75.5p							

¹ Number of employees, seasonally adjusted for 1, 3, and 6 month spans, on payrolls of 186 private nonagricultural industries.
p = preliminary.

NOTE: Figures are the percent of industries with employment rising. (Half of the unchanged components are counted as rising.) Data are centered within the spans.

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		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
1 ALABAMA	1,309.8	1,314.3	1,319.1	15.8	14.2	14.0	59.5	61.0	60.9	328.1	334.6	335.2
2 Birmingham	332.4	333.6	334.5	8.2	6.7	6.4	17.1	18.3	18.1	48.9	48.2	48.2
3 Huntsville	126.9	132.5	132.6	(1)	(1)	(1)	3.8	4.3	4.3	38.1	41.5	41.8
4 Mobile	147.0	144.4	146.7	(1)	(1)	(1)	9.5	9.9	9.7	27.0	26.1	26.5
5 Montgomery	104.1	104.4	105.1	(1)	(1)	(1)	5.5	6.2	6.2	14.9	14.7	14.7
6 Tuscaloosa	50.2	49.3	49.9	2.5	2.0	2.1	2.1	2.0	1.8	7.4	8.0	7.9
7 ALASKA	205.7	223.6	217.1	8.0	8.5	8.0	20.6	23.6	22.1	11.8	14.8	11.6
8 ARIZONA	1,032.5	1,053.1	1,066.6	15.6	15.5	15.6	64.2	75.9	76.4	150.7	156.1	156.3
9 Phoenix	655.9	670.6	680.9	.6	.5	.6	43.0	51.6	51.9	108.6	111.7	111.8
10 Tucson	192.1	196.9	198.8	3.9	3.4	3.4	12.1	15.1	15.1	25.2	26.7	26.8
11 ARKANSAS	727.9	743.9	745.7	5.7	5.8	5.7	30.5	32.3	31.2	195.0	207.0	207.7
12 Fayetteville—Springdale	65.8	68.0	68.0	(1)	(1)	(1)	2.4	2.3	2.2	18.5	18.3	18.3
13 Fort Smith	65.2	67.8	67.6	1.2	1.1	1.1	2.2	2.3	2.2	20.1	22.6	22.5
14 Little Rock—North Little Rock	177.2	180.0	180.1	(1)	(1)	(1)	8.5	8.8	8.6	26.1	26.1	26.2
15 Pine Bluff	29.3	29.6	30.2	(1)	(1)	(1)	1.2	1.2	1.2	5.7	5.9	6.0
16 CALIFORNIA	9,807.6	9,973.7	10,047.8	49.1	47.6	47.3	359.8	399.5	401.1	1,908.1	1,928.0	1,926.8
17 Anaheim—Santa Ana—Garden Grove	844.3	836.1	843.4	3.4	3.2	3.2	36.9	30.8	30.9	209.6	211.5	211.7
18 Bakersfield	137.9	138.0	138.8	14.4	14.4	14.2	6.7	6.2	6.2	9.6	9.6	9.5
19 Fresno	176.3	178.3	177.7	1.0	1.1	1.1	8.4	8.4	8.5	21.5	24.0	23.2
20 Los Angeles—Long Beach	3,554.2	3,579.9	3,630.9	14.3	14.1	14.0	102.9	102.2	103.4	847.8	849.6	859.3
21 Modesto	88.9	90.2	86.0	.1	.1	.1	3.9	4.1	4.2	20.9	23.9	20.0
22 Oxnard—Simi Valley—Ventura	161.3	161.8	161.9	3.1	3.1	3.0	5.3	5.6	5.4	26.5	26.2	26.3
23 Riverside—San Bernardino—Ontario	429.9	428.3	434.7	1.2	.9	.9	20.0	19.7	19.8	57.1	58.2	57.8
24 Sacramento	408.9	411.7	412.9	.8	.8	.8	16.2	17.6	17.7	27.1	29.4	27.8
25 Salinas—Seaside—Monterey	90.6	91.4	91.4	.4	.4	.4	2.9	3.1	3.1	9.8	9.7	9.6
26 San Diego	662.7	672.5	672.8	.5	.5	.5	27.1	27.0	27.7	107.1	107.0	107.2
27 San Francisco—Oakland	1,567.4	1,553.8	1,569.8	4.5	4.4	4.5	72.7	71.8	71.7	187.4	181.1	182.4
28 San Jose	698.1	696.1	700.3	.1	.1	.1	22.5	24.1	24.3	259.3	255.4	253.4
29 Santa Barbara—Santa Maria—Lompoc	125.3	124.1	125.7	1.5	1.3	1.2	4.7	4.4	4.4	18.3	19.6	19.5
30 Santa Rosa	97.4	97.5	98.0	.5	.6	.6	4.9	5.2	5.2	15.9	15.8	15.8
31 Stockton	123.2	122.3	119.8	.1	.1	.1	5.2	5.4	5.4	22.4	23.4	19.5
32 Vallejo—Fairfield—Napa	103.3	102.6	103.6	.5	.5	.5	4.6	4.7	4.7	10.9	11.2	10.7
33 COLORADO	1,313.9	1,346.7	1,348.6	41.1	39.6	39.3	81.1	89.7	88.8	179.9	182.2	183.3
34 Denver—Boulder	845.0	866.2	867.2	28.9	27.5	27.4	48.3	52.3	51.2	123.2	126.5	127.3
35 CONNECTICUT	1,431.6	1,442.1	1,449.7	(2)	(2)	(2)	53.5	54.0	53.8	406.0	404.6	406.4
36 Bridgeport	168.1	165.4	166.7	(2)	(2)	(2)	5.2	5.3	5.3	59.5	57.8	58.1
37 Hartford	399.4	401.8	402.5	(2)	(2)	(2)	12.1	12.2	12.2	88.0	87.3	87.3
38 New Britain	59.8	59.1	59.4	(2)	(2)	(2)	2.3	2.2	2.3	24.8	24.1	24.1
39 New Haven—West Haven	190.1	185.5	186.0	(2)	(2)	(2)	6.5	6.6	6.6	39.9	36.7	37.1
40 Stamford	114.2	115.8	115.3	(2)	(2)	(2)	5.2	5.4	5.3	32.0	31.6	31.8
41 Waterbury	85.5	85.2	85.8	(2)	(2)	(2)	3.0	3.2	3.1	29.2	28.3	28.6
42 DELAWARE	261.7	262.9	264.2	(1)	(1)	(1)	16.0	16.7	16.7	69.4	68.4	68.2
43 Wilmington	232.7	231.2	233.1	(1)	(1)	(1)	19.4	19.4	19.4	61.9	59.5	59.2
44 DISTRICT OF COLUMBIA	589.8	588.6	589.5	(1)	(1)	(1)	10.4	10.4	10.4	13.5	13.5	13.8
45 Washington SMSA	1,593.8	1,620.4	1,625.2	(1)	(1)	(1)	69.6	74.9	75.1	61.0	64.2	65.5
46 FLORIDA	3,740.0	3,877.2	3,916.7	9.6	9.4	9.4	243.1	260.6	263.8	453.8	477.5	482.6
47 Daytona Beach	82.7	84.6	85.5	(1)	(1)	(1)	4.3	4.2	4.2	9.1	10.5	10.5
48 Fort Lauderdale—Hollywood	354.3	365.6	367.7	(1)	(1)	(1)	24.5	26.4	26.3	38.7	40.2	40.5
49 Fort Myers—Cape Coral	75.7	77.8	77.6	(1)	(1)	(1)	8.8	9.6	9.5	4.1	4.1	4.1
50 Gainesville	67.5	70.5	70.4	(1)	(1)	(1)	3.6	4.4	4.3	4.1	4.2	4.2
51 Jacksonville	308.4	317.6	317.3	(1)	(1)	(1)	18.4	19.6	19.7	32.9	31.9	32.0
52 Lakeland—Winter Haven	116.1	113.9	114.7	4.5	4.3	4.3	7.2	6.5	6.4	19.1	18.3	18.7
53 Melbourne—Titusville—Cocoa	108.9	114.5	115.3	(1)	(1)	(1)	5.6	6.2	6.2	23.8	25.3	25.7
54 Miami	724.8	733.9	734.2	(1)	(1)	(1)	33.0	35.7	36.2	94.0	95.5	95.7
55 Orlando	321.0	337.7	339.9	(1)	(1)	(1)	24.4	26.3	25.9	39.0	39.7	40.0
56 Pensacola	101.1	106.8	106.9	(1)	(1)	(1)	7.5	8.7	8.9	12.5	12.5	12.5
57 Sarasota	73.8	77.8	78.6	(1)	(1)	(1)	6.5	7.1	7.5	5.5	5.9	6.0
58 Tallahassee	76.7	75.2	75.3	(1)	(1)	(1)	3.4	3.9	4.1	3.2	3.3	3.3
59 Tampe—St Petersburg	586.8	602.2	605.8	(1)	(1)	(1)	39.5	42.1	42.4	78.1	80.5	80.6
60 West Palm Beach—Boca Raton	217.8	223.5	228.1	(1)	(1)	(1)	17.6	17.5	17.8	28.3	30.5	30.7

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			
OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	
69.7	70.7	71.2	267.0	267.2	268.2	58.9	59.2	59.0	218.4	217.6	217.5	292.4	289.8	293.1	1
28.2	29.9	29.8	79.2	78.6	78.6	23.2	23.8	23.8	72.3	73.5	73.7	55.3	54.6	55.9	2
2.7	2.7	2.7	22.6	23.3	23.2	3.5	3.5	3.4	20.4	21.1	20.9	35.8	36.1	36.3	3
9.8	9.5	9.6	36.8	37.1	37.3	7.0	6.7	6.6	31.4	31.3	31.0	25.5	23.8	26.0	4
4.5	4.5	4.4	23.4	23.9	23.9	6.1	6.2	6.2	20.8	20.7	20.8	28.9	28.2	28.9	5
1.8	1.6	1.6	9.9	10.2	10.2	1.6	1.6	1.6	6.4	6.5	6.5	18.5	17.4	18.2	6
18.7	19.7	18.6	39.1	43.3	43.0	9.9	11.0	10.9	36.1	41.1	39.2	61.5	61.6	63.7	7
56.4	55.9	55.8	253.8	254.6	257.8	61.7	62.9	63.0	221.3	224.7	229.0	208.8	207.5	212.7	8
35.5	35.4	35.5	169.2	169.5	172.1	48.0	48.4	48.6	146.5	148.8	153.2	104.5	104.7	107.2	9
9.1	8.8	8.7	43.2	42.8	43.1	8.7	9.4	9.4	43.2	44.2	44.8	46.7	46.5	47.5	10
43.8	42.7	43.4	159.1	160.7	160.2	32.2	32.5	32.5	119.3	121.8	121.8	142.3	141.1	143.2	11
4.1	4.6	4.6	16.3	16.7	16.7	2.2	2.5	2.5	9.8	10.1	10.1	12.5	13.5	13.6	12
3.6	3.6	3.6	14.1	14.4	14.3	2.5	2.6	2.6	12.2	12.2	12.3	9.3	9.0	9.0	13
13.3	13.3	13.3	42.5	43.6	43.5	13.3	13.0	13.0	36.8	38.4	38.3	36.7	36.8	37.2	14
3.4	3.3	3.3	5.8	5.7	5.8	1.3	1.3	1.3	5.5	5.6	5.7	6.4	6.6	6.9	15
542.5	547.5	545.1	2,269.8	2,346.6	2,356.9	643.1	660.7	658.5	2,296.3	2,367.8	2,372.2	1,738.9	1,676.0	1,739.9	16
29.4	28.4	28.7	209.5	209.3	209.3	59.5	60.6	60.6	191.0	195.9	195.3	105.0	96.4	103.7	17
7.7	7.8	7.8	35.4	35.9	36.2	5.4	5.5	5.5	25.5	25.7	25.8	33.2	32.9	33.6	18
10.4	10.7	10.7	46.5	46.4	46.0	11.3	11.5	11.5	37.6	37.6	37.4	39.6	38.6	39.3	19
196.0	197.8	194.8	817.3	835.8	839.5	236.1	243.5	242.3	872.0	909.3	907.9	467.8	427.6	469.7	20
4.2	4.1	4.1	22.5	21.7	21.9	3.4	3.4	3.4	17.5	17.7	17.6	16.4	15.2	14.7	21
6.5	6.8	6.9	38.8	40.1	39.9	10.4	10.4	10.4	33.2	33.6	33.8	37.5	36.0	36.2	22
25.3	25.2	25.1	108.3	109.8	110.8	19.0	18.8	18.9	97.1	96.8	99.2	101.9	98.9	102.2	23
21.8	22.0	21.8	96.0	97.0	97.2	22.8	22.8	22.7	79.5	80.9	80.8	144.7	141.2	144.1	24
4.7	4.7	4.7	24.4	24.6	24.3	4.2	4.3	4.3	21.0	21.4	21.2	23.2	23.2	23.8	25
29.3	29.2	29.4	153.4	157.6	157.6	41.8	42.3	42.4	162.4	167.7	166.6	141.1	141.2	141.4	26
125.3	124.4	124.0	360.8	360.2	362.0	153.2	153.5	153.5	380.7	384.7	389.9	282.8	273.7	281.8	27
22.4	22.0	22.0	127.3	130.5	132.0	28.5	28.8	28.7	159.9	160.7	163.5	78.1	74.5	76.3	28
5.4	5.3	5.3	30.2	29.8	29.9	6.2	6.3	6.4	34.7	34.2	34.5	24.3	23.2	24.5	29
4.7	4.8	4.9	23.9	23.8	23.8	6.1	6.1	6.1	21.1	21.6	21.4	20.3	19.6	20.2	30
7.8	8.2	7.9	29.2	27.9	28.8	6.2	6.2	6.2	24.8	24.2	24.6	27.5	26.9	27.3	31
4.5	4.5	4.5	22.6	23.3	23.3	3.5	3.5	3.5	21.0	20.4	21.1	35.7	34.5	35.3	32
85.3	85.4	83.7	322.5	330.4	330.7	83.4	86.2	86.5	277.1	291.1	288.5	243.7	242.0	247.8	33
61.3	62.8	61.3	201.7	205.1	205.6	59.9	62.3	62.6	185.0	194.1	193.4	136.6	135.5	138.6	34
62.3	62.1	61.8	307.0	313.7	313.8	114.2	118.0	118.0	305.4	311.5	312.0	183.2	178.2	183.9	35
6.6	6.6	6.6	35.6	35.8	36.0	7.8	7.9	7.9	37.4	36.5	36.6	16.0	15.5	16.2	36
14.1	13.9	13.9	84.0	84.9	84.7	66.3	67.4	67.5	81.8	83.9	84.6	53.1	52.2	52.3	37
3.6	3.6	3.7	10.0	10.1	10.1	1.9	1.8	1.8	10.9	11.1	11.1	6.3	6.2	6.3	38
15.7	15.7	15.5	42.2	41.2	41.3	10.9	11.2	11.0	51.0	51.0	51.0	23.9	23.1	23.5	39
4.6	4.6	4.6	25.9	26.8	26.7	9.1	9.3	9.2	27.1	27.8	27.4	10.3	10.3	10.3	40
3.3	3.5	3.4	16.4	16.6	16.7	3.9	4.0	4.0	18.7	18.8	18.9	11.0	10.8	11.1	41
11.6	11.2	11.4	57.2	58.8	57.9	13.3	13.9	13.9	50.3	51.5	52.0	44.0	42.5	44.0	42
11.3	10.9	11.0	47.5	48.5	48.9	12.2	12.6	12.6	45.1	46.1	46.6	35.3	34.2	35.4	43
25.8	25.4	25.7	60.1	59.1	58.7	33.3	33.1	33.1	192.8	189.1	189.7	253.9	258.0	258.1	44
74.2	76.3	77.1	302.3	308.1	308.8	90.5	92.5	92.0	470.7	476.6	476.9	525.5	527.8	529.8	45
229.4	233.2	232.8	992.1	1,038.0	1,049.2	280.8	294.9	295.4	897.7	932.5	937.9	633.5	631.1	645.6	46
3.3	3.1	3.0	23.2	23.4	23.8	5.1	5.5	5.6	22.3	22.6	22.8	15.4	15.3	15.6	47
18.2	17.9	17.8	105.1	110.4	111.9	30.7	33.2	33.2	89.2	90.2	90.6	47.9	47.3	47.4	48
4.2	4.2	4.2	22.3	22.8	22.8	6.9	7.2	7.1	16.9	17.2	17.2	12.5	12.7	12.7	49
1.6	1.6	1.6	14.3	14.1	14.1	3.0	2.8	2.8	14.5	14.2	14.2	26.4	29.2	29.2	50
24.9	25.3	25.4	80.6	83.7	83.5	27.8	28.2	28.2	70.5	74.2	74.0	53.3	54.7	54.5	51
4.9	4.9	4.7	29.1	28.6	28.7	9.5	10.1	10.1	25.1	25.0	25.3	16.7	16.2	16.5	52
5.0	4.7	4.7	24.3	27.0	27.5	4.1	4.3	4.3	27.5	28.0	28.1	18.6	19.0	18.8	53
72.6	70.4	70.5	192.4	194.4	194.4	57.7	58.7	58.7	179.8	184.7	183.7	95.3	94.5	95.0	54
15.3	15.4	15.4	86.7	93.4	94.8	21.2	21.3	21.3	88.5	94.9	94.5	45.9	46.7	48.0	55
5.0	6.0	6.0	24.0	25.4	25.3	4.4	4.4	4.4	21.9	23.7	23.4	25.8	26.1	26.4	56
3.3	3.4	3.5	22.4	22.6	22.7	6.2	6.7	6.7	19.7	21.8	21.9	10.2	10.3	10.3	57
2.5	2.6	2.6	16.0	15.9	16.0	3.5	3.5	3.4	14.8	14.5	14.7	33.3	31.5	31.2	58
33.7	33.5	33.3	158.7	160.2	161.8	43.2	45.4	45.3	147.9	152.8	154.4	85.7	87.7	88.0	59
9.6	10.2	10.2	55.6	57.4	59.4	18.9	19.5	19.6	55.8	58.7	57.6	32.0	29.7	32.8	60

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
1 GEORGIA	2,215.3	2,269.4	2,279.5	7.4	7.5	7.6	103.5	107.6	108.3	499.1	513.0	515.0
2 Albany	43.4	43.8	44.3	(1)	(1)	(1)	1.8	1.9	1.8	11.9	11.4	11.5
3 Athens	53.6	52.8	55.3	-	-	-	1.7	1.8	1.9	14.0	14.6	14.7
4 Atlanta	1,016.8	1,036.9	1,041.4	(1)	(1)	(1)	45.9	46.8	47.2	142.6	142.2	142.6
5 Augusta	123.3	123.6	123.6	(1)	(1)	(1)	5.7	4.7	4.6	33.2	34.0	34.2
6 Columbus	78.0	80.0	80.5	(1)	(1)	(1)	3.5	4.2	4.2	19.6	20.7	20.9
7 Macon	99.3	99.9	100.0	(1)	(1)	(1)	3.7	3.7	3.7	16.3	16.7	16.7
8 Savannah	88.5	89.0	89.5	(1)	(1)	(1)	5.6	4.9	5.0	16.7	16.7	17.0
9 HAWAII	398.1	389.3	396.5	-	-	-	17.0	16.6	16.6	21.3	21.3	21.2
10 Honolulu	324.8	317.0	324.3	-	-	-	13.7	13.4	13.5	15.5	15.5	15.5
11 IDAHO	317.6	326.0	325.3	3.6	4.6	4.5	15.1	14.4	14.0	50.1	52.1	51.4
12 Boise City	76.8	78.1	78.5	(1)	(1)	(1)	5.2	4.8	4.8	8.5	9.0	9.1
13 ILLINOIS	4,559.7	4,540.3	4,528.0	27.2	26.3	26.3	166.7	163.5	165.5	969.4	990.4	989.7
14 Bloomington—Normal	50.2	49.9	50.3	(2)	(2)	(2)	1.2	1.4	1.3	5.4	5.4	5.4
15 Champaign—Urbana—Rantoul	76.4	75.1	76.3	(2)	(2)	(2)	1.6	1.8	1.7	6.7	6.9	6.9
16 Chicago—Gary	3,299.9	3,280.4	3,252.9	2.9	3.3	3.3	120.1	122.2	122.2	747.3	733.4	734.9
17 Chicago SMSA ³	3,075.5	3,058.2	3,031.8	2.8	3.2	3.2	108.1	110.5	110.4	674.9	663.0	665.0
18 Davenport—Rock Island—Moline	148.6	148.4	147.9	(2)	(2)	(2)	6.7	6.2	6.5	37.4	38.2	37.3
19 Decatur	49.5	52.9	53.0	(2)	(2)	(2)	2.2	2.4	2.3	14.7	18.0	17.9
20 Kankakee	31.8	30.7	30.9	(2)	(2)	(2)	1.4	1.3	1.3	7.0	6.3	6.3
21 Peoria	123.1	130.5	129.4	(2)	(2)	(2)	7.8	6.9	6.9	25.4	35.1	34.1
22 Rockford	104.1	108.3	107.8	(2)	(2)	(2)	3.2	3.2	3.1	38.0	42.6	42.2
23 Springfield	87.5	86.0	85.9	(2)	(2)	(2)	3.6	3.5	3.6	5.5	5.4	5.4
24 INDIANA	2,003.8	2,025.1	2,023.7	10.4	9.6	9.6	79.9	79.0	78.9	561.9	579.2	579.7
25 Anderson	42.4	45.1	44.6	(1)	(1)	(1)	1.0	1.1	1.1	16.8	18.5	18.0
26 Elkhart	67.3	77.5	77.2	(1)	(1)	(1)	1.6	2.2	2.1	33.7	41.2	40.8
27 Evansville	121.8	123.7	124.4	2.8	2.8	2.8	6.0	6.3	6.5	32.5	33.4	33.4
28 Fort Wayne	160.0	158.0	158.3	(1)	(1)	(1)	6.0	6.1	6.1	46.1	44.6	44.7
29 Gary—Hammond—East Chicago ³	224.3	222.2	221.1	(1)	(1)	(1)	12.0	11.7	11.8	72.4	70.4	69.9
30 Indianapolis	505.8	509.5	509.3	(1)	(1)	(1)	20.6	21.1	20.9	108.4	107.9	107.6
31 Lafayette—West Lafayette	57.4	58.0	58.4	(1)	(1)	(1)	1.8	1.7	1.6	10.2	10.7	10.9
32 Muncie	45.9	46.5	46.9	(1)	(1)	(1)	1.3	1.4	1.3	10.0	11.0	11.2
33 South Bend	106.1	107.9	108.7	(1)	(1)	(1)	3.7	4.4	4.3	28.4	28.0	28.3
34 Terre Haute	59.5	59.4	59.2	1.3	1.2	1.2	2.7	3.3	3.1	13.7	12.6	12.6
35 IOWA	1,033.8	1,023.8	1,031.2	2.0	1.9	1.9	38.2	33.4	33.1	201.5	204.2	205.1
36 Cedar Rapids	75.2	72.6	72.5	(1)	(1)	(1)	2.4	2.1	2.1	22.2	21.2	20.7
37 Des Moines	170.0	167.2	168.2	(1)	(1)	(1)	5.6	5.2	5.1	19.9	19.7	19.9
38 Dubuque	36.6	38.4	38.9	(1)	(1)	(1)	1.2	1.1	1.1	9.7	11.6	12.0
39 Sioux City	47.5	46.2	47.0	(1)	(1)	(1)	1.9	1.6	1.7	9.3	8.5	8.9
40 Waterloo—Cedar Falls	59.6	56.1	55.8	(1)	(1)	(1)	1.8	1.6	1.5	19.3	16.9	16.6
41 KANSAS	911.9	915.1	919.3	17.3	17.4	17.7	38.0	37.2	36.9	156.4	163.0	164.2
42 Lawrence	27.8	27.5	27.5	(2)	(2)	(2)	.8	.7	.7	4.3	4.0	4.0
43 Topeka	82.7	82.8	83.1	(2)	(2)	(2)	3.0	3.1	3.2	8.5	8.9	8.8
44 Wichita	189.1	194.4	195.3	3.6	3.4	3.6	8.7	8.0	8.1	47.7	50.9	51.7
45 KENTUCKY	1,171.8	1,176.9	1,180.7	51.6	51.9	51.4	53.8	55.6	56.0	239.9	250.5	250.9
46 Lexington—Fayette	144.3	142.3	145.4	(1)	(1)	(1)	6.7	5.7	6.3	25.9	27.1	27.1
47 Louisville	363.4	366.5	365.6	(1)	(1)	(1)	16.7	17.0	16.9	81.3	85.3	85.5
48 Owensboro	30.3	30.2	30.4	1.0	1.1	1.1	1.6	1.5	1.5	5.9	5.9	6.0
49 LOUISIANA	1,608.5	1,587.2	1,596.0	95.8	90.6	91.1	121.4	115.0	116.4	201.2	192.6	194.2
50 Alexandria	54.6	55.5	55.4	(1)	(1)	(1)	3.6	3.8	3.7	5.7	5.8	5.8
51 Baton Rouge	207.5	210.1	211.4	1.5	1.4	1.5	20.8	21.6	22.0	25.1	24.4	24.6
52 Lafayette	99.3	94.6	94.6	19.2	16.8	17.0	6.7	6.1	6.1	5.2	5.0	5.1
53 Lake Charles	62.8	60.8	60.9	2.5	2.4	2.4	5.4	4.4	4.3	10.7	9.7	9.8
54 Monroe	51.5	50.9	50.3	.6	.6	.6	3.8	3.7	3.6	7.1	7.3	7.3
55 New Orleans	513.1	501.7	506.5	20.7	20.5	20.8	31.3	31.1	31.9	46.5	43.6	43.9
56 Shreveport	150.2	149.5	149.9	7.9	7.0	7.0	8.0	8.6	8.4	25.1	24.3	24.1
57 MAINE	416.3	422.9	422.3	(1)	(1)	(1)	18.9	18.8	19.0	108.1	108.8	108.5
58 Lewiston—Auburn	34.0	34.9	34.6	(1)	(1)	(1)	1.4	1.5	1.4	10.9	11.7	11.6
59 Portland	96.2	98.6	100.4	(1)	(1)	(1)	4.4	4.4	4.4	16.9	16.9	16.8
60 MARYLAND	1,673.9	1,687.6	1,693.9	(1)	(1)	(1)	90.3	89.8	91.0	208.3	209.8	208.4
61 Baltimore SMSA	926.8	924.7	930.6	(1)	(1)	(1)	41.8	41.0	41.6	137.3	138.7	137.1
62 Baltimore City	430.7	428.0	427.1	(1)	(1)	(1)	13.7	12.6	13.4	56.0	55.6	54.0

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(in thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	
145.1	148.0	148.1	524.9	542.4	543.5	116.7	121.1	121.0	377.6	396.3	395.8	441.1	433.4	440.2	1
2.3	2.2	2.2	8.9	9.4	9.5	2.2	2.3	2.3	5.8	5.9	5.9	10.5	10.7	11.2	2
1.5	1.6	1.5	10.3	10.8	11.1	1.7	1.6	1.7	7.1	7.1	7.1	17.2	15.2	17.4	3
92.0	93.0	93.2	284.3	293.1	293.2	70.0	72.4	72.1	218.7	226.0	227.8	163.2	163.4	165.4	4
4.3	4.2	4.2	24.6	24.9	24.8	4.5	4.6	4.6	19.3	20.1	20.0	31.6	31.2	31.3	5
3.2	3.1	3.1	16.3	16.9	17.0	5.3	5.4	5.3	11.1	10.8	10.7	19.0	18.9	19.3	6
4.7	4.5	4.4	21.0	21.3	21.5	6.0	6.2	6.1	18.0	17.9	17.8	29.7	29.7	29.9	7
7.6	9.0	9.1	21.4	21.1	21.2	4.2	4.2	4.2	16.7	17.1	17.0	16.4	16.0	16.1	8
31.7	30.2	30.1	105.4	106.8	106.7	31.4	31.3	31.2	101.0	99.3	100.7	90.3	83.8	90.0	9
26.3	25.0	25.0	87.0	88.0	88.1	27.0	27.1	26.9	78.9	77.8	79.1	76.4	70.2	76.2	10
19.2	19.2	19.1	78.2	80.7	80.9	22.6	23.4	23.4	59.3	62.6	62.2	69.5	69.0	69.8	11
5.3	5.2	5.2	19.3	19.6	19.6	7.7	7.9	7.9	15.3	16.2	16.2	15.5	15.4	15.7	12
273.9	268.5	269.4	1,079.1	1,074.2	1,081.0	325.2	324.7	322.7	986.7	979.8	981.1	731.5	712.9	692.3	13
3.4	3.2	3.3	11.9	11.8	11.8	8.1	8.2	8.2	8.6	8.6	8.5	11.6	11.3	11.8	14
2.5	2.3	2.3	19.8	19.4	19.5	2.4	2.4	2.4	11.9	12.2	12.1	31.5	30.1	31.4	15
196.3	196.8	197.1	794.5	795.2	796.9	251.7	249.3	248.2	761.9	763.0	765.0	425.1	417.2	385.3	16
182.7	183.7	184.0	747.1	746.7	749.3	242.7	240.5	239.4	722.6	723.9	725.7	394.6	386.7	354.8	17
6.7	6.6	6.7	38.9	39.1	39.0	7.1	7.2	7.1	26.1	25.6	25.5	25.7	25.5	25.8	18
4.4	4.7	4.7	11.2	11.1	11.1	2.6	2.6	2.6	8.9	8.9	9.0	5.5	5.2	5.4	19
1.4	1.3	1.3	6.7	6.6	6.7	1.4	1.4	1.4	6.4	6.2	6.3	7.5	7.6	7.6	20
7.5	7.3	7.2	32.5	32.1	32.2	6.7	6.6	6.6	26.9	26.1	26.1	16.3	16.4	16.3	21
4.2	4.2	4.2	22.9	23.0	23.0	4.7	4.5	4.5	18.9	18.6	18.6	12.2	12.2	12.2	22
4.5	4.2	4.2	19.0	18.8	18.7	6.3	6.3	6.2	18.1	18.3	18.3	30.5	29.5	29.5	23
103.0	101.6	101.0	455.7	449.2	445.6	101.9	105.5	104.7	355.7	368.2	367.7	335.3	332.7	336.5	24
1.1	1.2	1.2	9.1	9.5	9.6	1.5	1.6	1.5	7.8	8.1	8.1	5.1	5.1	5.1	25
2.4	2.4	2.5	13.2	14.5	14.4	2.0	2.1	2.1	9.3	10.0	10.0	5.1	5.1	5.3	26
7.0	6.7	6.7	30.4	31.7	31.8	4.5	4.6	4.6	26.3	26.2	26.4	12.3	12.0	12.2	27
10.4	10.2	10.1	40.0	39.4	39.4	10.4	10.3	10.3	29.4	29.6	29.8	17.9	17.8	17.7	28
13.6	13.1	13.1	47.4	48.5	47.6	9.0	8.8	8.8	39.4	39.2	39.4	30.5	30.5	30.5	29
30.7	30.9	31.0	128.2	128.6	128.6	38.5	39.1	38.9	98.0	100.4	100.5	81.4	81.5	81.8	30
1.7	1.6	1.6	11.7	11.8	11.8	2.5	2.6	2.6	9.4	9.5	9.6	20.1	20.1	20.3	31
2.0	2.0	2.0	11.2	11.3	11.3	1.5	1.5	1.5	8.8	8.9	8.8	11.1	10.4	10.8	32
4.7	4.7	4.6	25.7	27.2	27.3	5.1	5.2	5.2	25.9	26.6	26.5	12.6	11.8	12.5	33
3.3	3.2	3.2	14.2	15.0	14.8	1.9	1.9	1.9	10.1	10.4	10.3	12.3	11.8	12.1	34
51.8	50.4	50.2	263.8	262.5	261.7	58.7	59.7	59.8	212.5	210.1	211.8	205.4	201.6	207.9	35
3.8	3.6	3.7	17.9	17.0	17.0	4.2	4.2	4.2	15.8	15.4	15.8	8.9	9.1	9.0	36
11.2	11.1	11.0	43.4	42.1	42.4	21.6	21.9	21.9	40.8	40.6	40.3	27.5	26.4	27.5	37
1.6	1.6	1.6	8.7	8.6	8.8	1.3	1.3	1.3	10.4	10.6	10.5	3.8	3.6	3.6	38
3.6	3.5	3.5	11.9	11.8	11.8	2.7	2.7	2.7	11.8	12.1	12.3	6.3	6.0	6.2	39
2.1	2.1	2.0	12.9	12.5	12.4	2.1	2.1	2.1	10.8	10.6	10.6	10.6	10.3	10.4	40
62.5	63.9	64.0	226.5	227.0	228.2	48.9	48.1	47.7	173.7	173.5	173.3	188.6	185.0	187.3	41
1.4	1.5	1.5	5.5	5.8	5.8	.9	.8	.8	4.1	4.1	4.1	10.8	10.6	10.6	42
8.2	7.7	7.8	18.1	18.6	18.7	5.9	5.9	5.8	17.5	17.5	17.4	21.3	21.1	21.4	43
10.3	10.5	10.3	44.5	45.8	46.0	10.0	10.1	10.0	39.3	39.6	39.2	25.0	26.1	26.4	44
65.5	63.3	63.7	263.2	261.7	263.8	52.5	51.7	51.2	217.4	222.8	224.1	227.9	219.4	219.6	45
7.5	7.2	7.2	31.5	30.9	31.9	7.1	7.2	7.1	33.0	32.9	34.3	32.6	31.3	31.5	46
22.8	21.5	21.4	85.9	85.0	84.6	23.4	24.1	24.1	78.2	80.4	80.2	55.0	53.2	52.9	47
2.4	2.3	2.3	7.4	7.1	7.3	1.1	1.2	1.2	6.1	6.3	6.2	4.8	4.8	4.8	48
128.4	124.0	124.2	368.5	367.4	368.3	79.6	80.2	80.0	303.9	307.8	307.7	309.7	309.6	314.1	49
2.5	2.5	2.4	12.3	12.6	12.5	3.0	3.0	3.0	11.6	11.8	11.9	15.9	16.0	16.1	50
10.4	10.0	10.2	46.9	48.3	49.0	12.0	12.0	12.1	37.2	38.5	38.4	53.6	53.9	53.6	51
7.8	7.5	7.7	24.6	23.8	23.7	3.5	3.8	3.8	21.1	20.4	20.0	11.2	11.2	11.1	52
4.9	4.9	4.9	15.0	15.1	15.1	3.0	3.1	3.1	10.7	11.1	11.1	10.6	10.1	10.2	53
2.7	2.7	2.8	13.2	13.7	13.6	3.9	4.0	4.0	9.9	9.9	9.7	10.3	9.0	8.7	54
50.1	47.5	47.2	129.8	127.6	128.5	31.4	30.9	30.9	123.4	123.5	123.7	79.9	77.0	79.6	55
9.4	8.8	8.8	34.5	34.6	35.0	7.8	8.0	7.9	31.7	31.8	31.7	25.8	26.4	27.0	56
18.0	18.5	18.1	88.5	93.7	91.3	17.8	18.4	18.3	81.2	84.5	82.8	83.8	80.2	84.3	57
1.3	1.3	1.3	8.2	8.1	8.0	1.6	1.7	1.7	7.5	7.5	7.4	3.1	3.1	3.2	58
6.0	6.2	6.1	25.6	26.5	26.7	8.4	8.9	8.9	21.1	23.0	23.3	13.8	12.7	14.2	59
86.7	85.9	87.3	408.7	415.5	414.7	94.8	96.9	95.6	391.4	403.4	402.5	393.7	386.3	394.4	60
58.2	56.2	57.1	220.4	222.1	221.3	58.4	58.4	58.0	205.9	211.1	213.1	204.8	197.2	202.4	61
36.2	35.3	35.2	92.0	92.1	90.5	38.9	39.2	39.0	112.3	113.5	115.9	81.6	79.7	79.1	62

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
1 MASSACHUSETTS	2,630.6	2,636.1	2,650.8	(1)	(1)	(1)	82.7	78.1	78.5	623.9	629.0	633.5
2 Boston	1,479.9	1,484.0	1,497.7	(1)	(1)	(1)	45.9	46.4	46.1	283.5	287.2	288.1
3 Brockton	56.8	56.3	56.8	(1)	(1)	(1)	1.6	1.6	1.6	11.3	11.2	11.3
4 Fall River	53.2	51.8	52.3	(1)	(1)	(1)	1.8	2.1	2.1	18.6	19.6	19.9
5 Lawrence—Haverhill	112.6	113.8	114.6	(1)	(1)	(1)	3.3	3.5	3.5	41.9	41.7	42.0
6 Lowell	80.8	81.5	83.4	(1)	(1)	(1)	2.7	2.5	2.5	30.5	33.0	33.7
7 New Bedford	63.3	64.4	64.6	(1)	(1)	(1)	1.6	1.7	1.6	23.9	24.7	24.9
8 Springfield—Chicopee—Holyoke	229.5	228.1	229.3	(1)	(1)	(1)	5.7	5.7	5.8	57.0	55.9	56.1
9 Worcester	160.2	158.8	160.9	(1)	(1)	(1)	5.2	5.1	5.2	41.7	41.1	41.5
10 MICHIGAN	3,181.3	3,244.0	3,260.3	9.7	10.8	10.6	99.4	97.5	97.3	838.5	913.9	920.2
11 Ann Arbor	129.4	136.1	138.8	(1)	(1)	(1)	1.9	2.1	2.2	27.9	34.9	35.6
12 Battle Creek	59.7	61.9	61.5	(1)	(1)	(1)	1.8	1.9	1.8	17.4	18.3	17.9
13 Bay City	32.4	32.8	32.6	(1)	(1)	(1)	.8	1.1	1.1	8.5	8.6	8.8
14 Benton Harbor	54.5	54.8	55.9	(1)	(1)	(1)	1.8	2.0	2.1	18.3	19.0	19.1
15 Detroit	1,544.5	1,570.6	1,578.3	1.2	.9	.9	43.9	43.6	44.1	400.6	431.7	437.1
16 Flint	170.2	184.3	185.1	(1)	(1)	(1)	3.4	4.4	4.1	59.0	69.1	69.8
17 Grand Rapids	263.2	266.4	267.8	(1)	(1)	(1)	10.2	10.0	10.0	84.8	88.7	89.0
18 Jackson	46.1	45.9	46.1	(1)	(1)	(1)	1.1	1.3	1.3	11.2	10.8	10.9
19 Kalamazoo—Portage	105.4	105.4	105.8	(1)	(1)	(1)	3.2	3.3	3.3	30.5	31.2	31.2
20 Lansing—East Lansing	188.9	188.9	194.7	(1)	(1)	(1)	4.2	4.0	4.1	38.1	41.4	41.7
21 Muskegon—Norton Shores—Musk. Hts.	55.9	57.5	56.4	(1)	(1)	(1)	2.0	2.1	2.0	18.2	19.4	18.6
22 Saginaw	77.4	80.1	80.9	(1)	(1)	(1)	1.9	2.5	2.6	24.1	26.0	26.3
23 MINNESOTA	1,712.9	1,732.8	1,741.6	6.9	7.6	7.7	65.9	71.6	71.7	343.3	350.2	345.4
24 Duluth—Superior	54.0	52.8	53.1	(1)	(1)	(1)	1.9	1.5	1.5	5.1	4.8	4.7
25 Minneapolis—St. Paul	1,063.3	1,075.5	1,086.2	(1)	(1)	(1)	38.0	40.7	41.1	230.5	234.6	234.5
26 Rochester	51.7	52.7	52.7	(2)	(2)	(2)	1.8	1.7	1.6	10.0	10.3	10.2
27 St. Cloud	56.6	56.9	57.4	(1)	(1)	(1)	3.0	3.2	3.2	9.9	10.1	10.1
28 MISSISSIPPI	795.0	794.8	799.3	11.7	11.0	11.1	41.8	38.7	38.7	199.4	206.9	207.3
29 Jackson	145.8	146.7	147.9	2.0	2.0	2.0	5.9	6.7	7.1	16.0	16.3	16.1
30 MISSOURI	1,924.0	1,939.0	1,938.3	7.2	7.0	7.0	80.1	80.8	79.9	401.8	412.1	413.2
31 Kansas City	600.4	600.2	599.3	.5	.5	.5	20.3	22.4	22.9	108.4	110.8	111.1
32 St. Joseph	36.7	36.5	36.6	(2)	(2)	(2)	1.5	1.2	1.1	8.7	9.4	9.3
33 St. Louis	985.3	988.7	991.8	3.1	3.0	2.9	48.0	48.4	48.0	214.7	218.5	218.4
34 Springfield	87.9	92.1	92.3	(2)	(2)	(2)	3.3	3.9	3.9	17.0	18.4	18.6
35 MONTANA	275.8	271.9	271.8	9.0	7.2	7.2	13.6	12.7	11.7	20.9	20.9	21.3
36 NEBRASKA	604.2	602.3	605.9	1.8	1.6	1.6	22.8	21.5	21.4	84.7	83.5	85.1
37 Lincoln	96.2	95.6	96.1	(2)	(2)	(2)	2.9	2.7	2.8	12.1	11.8	11.9
38 Omaha	257.5	260.0	262.1	(2)	(2)	(2)	9.1	8.6	8.7	31.3	33.5	34.0
39 NEVADA	410.1	424.0	424.4	6.5	6.6	6.6	21.5	23.7	23.5	18.4	18.7	18.7
40 Las Vegas	229.7	238.4	239.5	.4	.4	.4	12.8	13.8	13.6	6.5	6.9	7.0
41 Reno	114.8	118.2	118.3	.6	.8	.8	5.3	6.3	6.3	7.7	7.8	7.7
42 NEW HAMPSHIRE	394.8	403.6	400.7	(2)	(2)	(2)	23.7	25.5	25.3	111.4	114.2	114.5
43 Manchester	76.4	77.5	77.8	(2)	(2)	(2)	3.3	3.2	3.3	16.7	17.1	17.1
44 Nashua	69.6	72.0	72.3	(2)	(2)	(2)	3.0	3.3	3.3	32.2	33.8	34.0
45 NEW JERSEY	3,095.5	3,124.4	3,132.4	2.2	2.3	2.2	113.8	113.8	115.4	721.9	717.0	719.3
46 Atlantic City	101.2	106.1	105.7	-	-	-	4.5	4.4	4.6	7.1	7.2	7.2
47 Camden ⁵	346.7	347.0	348.3	.1	.1	.1	13.4	13.6	14.0	68.2	69.1	69.4
48 Hackensack ⁶	404.9	396.9	400.9	(1)	(1)	(1)	14.6	13.8	13.2	104.0	100.6	100.4
49 Jersey City ⁶	216.1	214.8	215.8	-	-	-	4.3	3.7	3.8	59.8	60.5	60.5
50 Long Branch—Asbury Park	168.5	171.4	170.2	(1)	(1)	(1)	6.7	7.5	7.6	23.7	23.4	22.6
51 New Bruns.—Perth Amboy—Sayreville ⁶ ..	295.2	289.8	292.1	(1)	(1)	(1)	10.2	9.5	9.5	80.7	77.4	77.0
52 Newark ⁶	946.4	942.6	950.0	.8	.8	.8	32.6	29.7	30.0	229.8	227.6	227.2
53 Paterson—Clifton—Passaic ⁶	186.0	189.8	190.9	(1)	(1)	(1)	7.0	8.1	8.2	62.2	63.8	63.8
54 Trenton	162.9	160.4	160.2	(1)	(1)	(1)	3.1	3.1	3.0	30.8	29.9	30.2
55 Vineland—Millville—Bridgeton	52.6	49.0	49.6	(1)	(1)	(1)	1.5	1.4	1.4	16.6	13.6	13.7
56 NEW MEXICO	477.2	487.4	486.3	24.2	20.8	21.1	32.5	36.9	35.9	34.7	34.5	34.6
57 Albuquerque	192.1	199.2	198.3	(1)	(1)	(1)	12.2	12.9	12.8	18.2	18.4	18.6
58 Las Cruces	32.0	33.4	34.3	(1)	(1)	(1)	1.6	2.3	2.1	3.2	3.3	3.2
59 NEW YORK	7,259.2	7,212.6	7,269.0	6.7	6.8	6.8	227.4	230.3	230.3	1,348.1	1,320.9	1,324.3
60 Albany—Schenectady—Troy	336.0	331.0	334.1	(1)	(1)	(1)	10.9	11.5	11.6	51.4	50.8	50.9
61 Binghamton	117.1	115.8	116.8	(1)	(1)	(1)	3.9	4.1	4.2	42.4	41.4	41.3
62 Buffalo	470.9	459.4	461.9	(1)	(1)	(1)	17.1	16.6	16.3	107.6	103.4	102.9

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	
119.7	118.8	118.4	570.2	580.2	573.5	167.5	175.2	171.6	697.4	699.1	707.6	369.2	355.7	367.7	1
70.9	70.3	69.9	318.9	323.1	322.8	115.8	123.1	121.5	460.9	456.2	468.9	184.0	177.7	180.1	2
3.7	3.7	3.7	15.6	15.6	15.5	2.2	2.3	2.2	11.0	10.9	11.2	11.4	11.0	11.3	3
1.7	1.6	1.7	11.3	10.8	10.5	3.0	2.6	2.6	9.8	8.9	8.8	7.0	6.2	6.7	4
4.7	4.8	4.8	22.4	23.1	23.2	4.3	4.5	4.4	20.0	21.1	20.8	16.0	15.1	15.9	5
3.3	2.9	3.3	16.5	16.3	16.2	2.2	2.3	2.3	13.6	13.5	13.6	12.0	11.0	11.8	6
2.2	2.1	2.1	12.1	12.1	11.9	2.1	2.2	2.2	10.7	11.3	11.3	10.7	10.3	10.6	7
8.9	8.4	8.5	48.0	47.6	47.2	13.5	13.7	13.6	48.8	50.0	49.1	47.6	46.8	49.0	8
7.3	7.0	7.0	33.9	33.7	33.3	10.3	10.5	10.2	38.6	39.2	40.7	23.2	22.2	23.0	9
139.6	136.6	137.1	696.7	691.4	688.8	150.9	151.8	150.6	656.4	666.4	667.2	590.2	575.5	588.5	10
3.1	2.8	3.1	20.2	20.2	20.3	3.8	4.2	4.2	25.6	25.7	25.8	46.7	46.2	47.5	11
2.2	2.1	2.1	10.2	11.2	11.2	4.0	4.1	4.1	12.0	12.4	12.4	12.1	12.0	12.0	12
1.6	1.5	1.5	8.7	8.9	8.8	1.3	1.3	1.3	6.6	6.6	6.6	4.9	4.9	4.6	13
2.0	2.0	2.0	10.9	10.7	10.7	1.9	1.9	1.9	12.0	11.4	12.1	7.6	7.8	8.2	14
73.1	71.3	71.6	351.6	346.5	346.3	87.0	88.8	88.4	354.9	362.3	363.8	232.2	225.4	226.0	15
6.3	5.6	5.7	38.3	40.0	39.5	6.2	6.3	6.3	29.5	30.8	30.4	27.5	28.2	29.2	16
11.2	11.3	11.3	64.3	65.4	65.7	10.9	10.9	10.9	52.3	51.1	52.1	29.5	29.0	28.9	17
5.0	5.1	5.1	9.7	9.5	9.5	1.5	1.6	1.6	9.6	9.5	9.6	8.1	8.0	8.2	18
3.8	3.6	3.6	22.0	21.9	21.5	4.0	4.0	4.0	21.6	21.1	21.3	20.4	20.3	20.9	19
5.2	5.1	5.2	35.6	36.6	36.9	9.5	9.6	9.5	31.2	32.3	32.5	65.1	59.8	64.9	20
2.9	2.9	2.9	11.0	11.3	11.1	1.5	1.5	1.5	10.9	11.1	11.0	9.4	9.3	9.2	21
4.5	4.5	4.5	17.0	17.2	17.1	3.8	3.6	3.6	14.5	14.7	14.5	11.5	11.5	12.2	22
95.8	94.9	95.5	430.0	442.2	439.4	97.9	99.4	99.4	383.4	395.3	395.6	289.8	271.6	287.0	23
5.0	5.3	5.3	14.5	14.5	14.4	2.0	2.1	2.1	13.8	13.8	13.9	11.6	10.7	11.1	24
60.8	59.9	60.2	260.7	267.0	266.6	72.8	73.7	73.6	250.4	257.0	257.5	150.1	142.8	152.6	25
1.9	1.9	1.9	10.2	10.1	10.3	1.5	1.5	1.5	20.9	21.6	21.4	5.3	5.7	5.7	26
3.3	3.4	3.3	15.4	15.9	15.9	1.9	2.1	2.1	11.0	10.9	11.0	12.0	11.4	11.8	27
40.6	38.7	39.5	162.8	163.0	163.1	33.0	33.1	33.1	123.9	122.9	124.2	181.9	180.5	182.1	28
10.2	9.9	9.9	34.9	34.7	34.9	11.4	11.3	11.3	31.2	31.0	31.5	34.2	34.8	35.0	29
130.8	127.1	126.9	460.5	461.8	458.5	108.0	107.2	106.4	408.4	417.4	414.6	327.2	325.6	331.8	30
49.7	47.4	47.4	155.0	156.5	156.2	43.6	44.2	44.1	132.5	134.5	133.0	90.4	83.9	84.1	31
2.2	1.9	1.9	8.9	9.0	8.9	2.0	2.1	2.1	7.3	7.1	7.2	6.1	5.8	6.1	32
69.0	69.1	69.0	230.4	229.3	229.0	58.2	58.0	57.9	226.7	229.7	230.8	135.2	132.7	135.8	33
7.0	7.2	7.1	24.1	25.2	25.2	3.6	3.7	3.7	20.8	22.2	22.1	12.1	11.5	11.7	34
21.4	20.7	20.1	74.2	73.2	72.5	12.4	13.0	12.8	55.2	55.3	54.3	69.0	69.0	71.9	35
43.8	42.1	42.3	157.4	155.6	156.4	41.1	41.6	41.6	123.9	124.7	123.9	128.7	131.6	133.6	36
6.9	6.4	6.6	21.2	20.4	20.6	7.0	7.1	7.2	18.1	18.9	19.1	28.1	28.2	28.1	37
22.8	22.3	22.4	67.0	65.9	66.6	23.7	24.1	24.0	63.1	64.2	63.4	40.5	41.4	43.0	38
24.7	24.0	24.2	80.7	84.5	84.4	17.9	18.6	18.6	181.6	190.3	189.9	58.8	57.6	58.5	39
13.9	13.5	13.8	45.7	47.9	48.1	10.2	10.7	10.7	112.0	118.0	118.0	28.2	27.2	27.9	40
8.0	7.8	7.7	24.8	25.9	25.9	6.0	6.2	6.1	45.7	46.9	47.1	16.7	16.5	16.7	41
14.9	15.1	15.1	88.6	90.9	89.3	21.0	21.1	21.1	79.0	82.2	79.7	56.2	54.6	55.7	42
5.0	5.3	5.2	20.1	20.5	20.7	6.3	6.4	6.3	16.1	16.6	16.6	8.9	8.4	8.6	43
2.1	2.2	2.2	13.6	14.0	14.1	2.1	2.1	2.1	10.9	11.2	11.1	5.7	5.4	5.5	44
198.7	201.2	200.5	703.1	717.4	712.9	166.9	168.6	168.3	667.1	691.0	686.1	521.8	513.1	527.7	45
4.6	4.8	4.8	18.9	20.9	19.4	4.8	4.9	5.0	45.1	47.1	47.9	16.2	16.8	16.8	46
15.8	15.7	15.6	91.2	91.2	91.0	17.1	17.6	17.5	73.1	73.1	73.0	67.8	66.6	67.7	47
21.2	21.2	21.4	122.0	120.6	121.6	19.1	19.7	19.6	81.0	80.1	81.0	43.0	40.9	43.7	48
25.1	24.2	24.2	45.6	45.2	46.1	8.1	8.1	8.0	33.7	33.0	33.0	39.5	40.1	40.2	49
6.5	6.8	6.8	42.7	44.6	44.0	8.0	8.2	8.2	45.5	47.2	46.9	35.4	33.7	34.1	50
25.1	24.9	25.0	72.1	71.4	71.4	13.4	14.2	13.9	46.9	48.2	48.5	46.7	44.2	46.8	51
74.8	74.8	74.9	184.2	185.6	189.3	67.8	67.2	67.5	210.5	214.2	214.2	145.7	142.7	146.1	52
6.7	6.9	6.9	40.8	41.6	42.4	9.6	9.3	9.3	34.9	35.5	35.3	24.8	24.6	25.0	53
5.5	5.3	5.3	25.3	25.5	25.5	8.0	8.2	8.2	43.1	40.9	40.9	47.2	47.5	47.1	54
2.7	2.7	2.7	9.3	8.7	8.8	2.7	2.7	2.7	9.0	9.3	9.4	10.7	10.6	10.9	55
30.1	29.3	29.2	111.4	114.2	113.8	21.8	23.1	23.1	95.2	98.7	98.3	127.3	129.9	130.3	56
12.3	11.7	11.7	48.2	50.0	50.0	11.0	11.6	11.6	47.7	50.0	50.1	42.5	44.6	43.5	57
1.2	1.2	1.2	5.9	6.5	6.6	1.2	1.3	1.3	4.2	4.3	4.7	14.7	14.5	15.2	58
422.8	414.1	413.2	1,462.0	1,464.6	1,470.3	672.6	685.0	682.5	1,834.8	1,853.0	1,865.3	1,284.8	1,238.0	1,276.1	59
15.1	14.2	14.3	66.7	67.1	67.3	16.5	16.5	16.5	76.3	76.5	77.2	99.0	94.4	96.3	60
4.6	4.5	4.5	21.1	21.3	21.2	3.9	4.0	4.0	19.5	19.7	19.9	21.7	20.8	21.8	61
25.9	24.9	24.8	108.4	107.3	106.8	22.6	22.8	22.7	106.5	106.1	107.2	82.6	78.4	81.3	62

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
NEW YORK—Continued												
1 Elmira	34.1	33.6	34.1	(1)	(1)	(1)	1.3	1.3	1.3	8.2	8.0	8.2
2 Monroe County ⁷	346.4	332.4	337.0	(1)	(1)	(1)	9.7	8.8	8.9	136.4	126.9	127.3
3 Nassau—Suffolk ⁸	950.5	955.1	964.1	(1)	(1)	(1)	38.6	38.7	39.0	167.6	167.7	168.0
4 New York—Northeastern New Jersey	6,809.7	6,786.3	6,837.3	2.2	2.4	2.4	215.2	211.8	212.0	1,250.2	1,227.6	1,229.9
5 New York and Nassau—Suffolk ⁸	4,761.2	4,751.6	4,786.7	1.8	1.9	1.9	146.4	146.9	147.2	713.8	697.7	700.9
6 New York SMSA ⁹	3,810.7	3,796.5	3,822.6	1.6	1.7	1.7	107.8	108.2	108.3	546.2	530.0	532.9
7 New York City ⁹	3,357.5	3,347.2	3,371.0	1.3	1.4	1.4	86.9	87.4	87.2	459.4	444.7	447.9
8 Poughkeepsie	104.0	102.6	103.9	(1)	(1)	(1)	2.8	3.0	2.9	34.5	33.8	34.1
9 Rochester	423.3	408.8	413.7	(1)	(1)	(1)	11.8	11.1	11.1	156.1	147.2	147.7
10 Rockland County ⁹	84.2	84.2	83.6	(1)	(1)	(1)	2.7	3.0	3.0	15.7	15.5	14.9
11 Syracuse	260.8	260.8	262.9	(1)	(1)	(1)	12.8	14.1	14.1	54.7	57.0	56.5
12 Utica—Rome	112.4	110.8	112.0	(1)	(1)	(1)	2.9	2.7	2.7	26.7	26.9	26.9
13 Westchester County ⁷	356.1	352.7	355.7	(1)	(1)	(1)	17.4	17.1	17.3	69.6	68.4	68.8
NORTH CAROLINA												
14 Asheville	71.2	72.4	71.6	(1)	(1)	(1)	2.7	2.9	3.0	20.1	20.3	20.3
16 Charlotte—Gastonia	335.0	337.0	339.8	(1)	(1)	(1)	16.2	17.7	17.7	90.0	90.8	91.5
17 Greensboro—Winston-Salem—High Pt.	381.2	388.0	390.9	(1)	(1)	(1)	16.0	17.2	17.2	140.2	143.6	144.4
18 Raleigh—Durham	279.9	283.6	287.8	(1)	(1)	(1)	14.2	15.2	14.9	45.3	46.5	47.0
NORTH DAKOTA												
19 Fargo—Moorhead	255.0	256.4	258.9	7.9	7.5	7.6	18.5	19.7	19.3	15.1	15.6	15.8
20 Fargo—Moorhead	63.1	61.9	64.4	(2)	(2)	(2)	2.9	2.7	2.7	4.8	4.7	4.8
OHIO												
21 Akron	4,139.2	4,167.2	4,181.3	30.3	30.0	29.8	147.2	141.7	142.5	1,073.5	1,109.0	1,114.2
22 Akron	252.5	256.1	255.6	(*)	(*)	(*)	8.2	7.9	7.9	67.4	68.0	68.2
23 Canton	148.3	150.3	150.1	(*)	(*)	(*)	5.2	5.5	5.4	45.8	46.6	46.3
24 Cincinnati	579.0	578.2	582.1	(*)	(*)	(*)	21.8	21.0	21.2	147.0	145.9	148.8
25 Cleveland	842.3	836.6	837.3	(*)	(*)	(*)	27.1	26.7	26.5	216.1	214.6	215.4
26 Columbus	503.5	505.2	513.6	(*)	(*)	(*)	16.1	15.8	15.9	86.3	89.0	90.4
27 Dayton	338.1	340.3	341.7	(*)	(*)	(*)	10.2	10.0	10.1	85.8	89.1	89.2
28 Toledo	285.5	289.4	291.7	(*)	(*)	(*)	11.7	10.5	10.7	67.4	73.3	73.5
29 Youngstown—Warren	180.9	186.3	185.8	(*)	(*)	(*)	5.8	5.3	5.4	51.4	56.4	56.5
OKLAHOMA												
30 Enid	1,221.9	1,208.6	1,208.0	96.8	77.4	76.9	57.4	52.8	51.2	174.1	171.4	172.4
31 Enid	27.5	28.4	28.4	3.2	3.1	3.1	1.8	2.0	2.0	2.2	2.4	2.4
32 Lawton	30.8	30.8	31.2	(1)	(1)	(1)	1.4	1.6	1.5	3.2	3.3	3.2
33 Oklahoma City	447.9	456.6	455.2	33.8	31.0	31.2	19.7	20.4	19.4	52.7	56.1	56.6
34 Tulsa	318.5	314.2	313.4	28.7	26.4	26.3	15.8	15.2	15.0	58.8	54.5	54.5
OREGON												
35 Eugene—Springfield	966.6	967.0	969.8	1.9	1.6	1.7	30.6	32.1	32.3	190.0	197.7	195.4
36 Eugene—Springfield	91.5	91.0	93.0	(1)	(1)	(1)	2.7	2.6	2.4	17.1	19.3	19.1
37 Medford	-	-	-	-	-	-	-	-	-	6.7	8.1	8.3
38 Portland	521.2	511.7	511.4	(1)	(1)	(1)	17.0	16.3	16.3	98.8	95.3	95.0
39 Salem	85.1	86.7	86.0	(1)	(1)	(1)	2.7	2.8	2.7	15.6	17.1	15.9
PENNSYLVANIA												
40 Allentown—Bethlehem—Easton	4,523.1	4,485.1	4,520.7	45.1	43.7	43.7	176.5	160.8	163.4	1,118.9	1,109.3	1,110.1
41 Allentown—Bethlehem—Easton	249.5	246.2	246.7	(1)	(1)	(1)	7.4	7.0	7.0	90.9	87.6	87.8
42 Altoona	45.5	46.7	45.8	(1)	(1)	(1)	2.0	2.0	1.9	11.3	11.2	11.1
43 Delaware Valley ¹⁰	1,557.6	1,543.4	1,564.9	(1)	(1)	(1)	57.0	54.3	55.8	324.8	318.1	321.1
44 Erie	106.4	104.5	104.9	(1)	(1)	(1)	3.0	2.6	2.6	36.0	34.9	34.9
45 Harrisburg	218.3	223.2	223.4	(1)	(1)	(1)	7.6	7.0	7.4	38.8	40.9	40.7
46 Johnstown	75.0	75.4	75.2	6.7	6.5	6.6	2.5	2.5	2.5	12.9	12.7	12.6
47 Lancaster	149.1	149.7	151.3	(1)	(1)	(1)	6.0	5.9	5.8	54.3	56.0	55.4
48 Northeast Pennsylvania	233.0	230.2	232.0	1.0	.7	.7	11.2	10.0	9.1	63.8	62.6	62.4
49 Philadelphia SMSA	1,902.3	1,890.3	1,913.1	(1)	(1)	(1)	70.3	67.9	69.8	392.5	387.5	390.6
50 Philadelphia City ¹¹	756.7	741.8	754.1	(1)	(1)	(1)	18.0	17.7	19.4	114.8	113.0	114.7
51 Pittsburgh	860.8	843.8	846.0	9.1	7.9	7.9	43.5	41.4	41.2	172.6	165.3	164.4
52 Reading	135.1	137.0	139.8	(1)	(1)	(1)	4.2	4.3	4.3	49.4	51.9	53.0
53 Sharon	41.3	38.9	38.6	(1)	(1)	(1)	1.2	1.0	1.0	11.7	10.3	10.1
54 State College	46.9	45.8	47.4	-	-	-	1.3	1.2	1.2	7.1	7.2	7.1
55 Williamsport	44.8	42.8	43.3	(1)	(1)	(1)	1.3	1.2	1.2	15.2	13.7	14.0
56 York	148.5	150.2	150.7	(1)	(1)	(1)	6.2	5.6	5.6	57.8	58.2	59.0
RHODE ISLAND												
57 Providence—Warwick—Pawtucket	394.5	396.4	398.8	(1)	(1)	(1)	12.6	13.0	13.0	118.7	119.3	120.7
58 Providence—Warwick—Pawtucket	399.8	400.8	404.1	(1)	(1)	(1)	12.6	13.1	13.2	131.2	131.4	133.5
SOUTH CAROLINA												
59 Charleston—North Charleston	1,161.5	1,181.4	1,182.3	1.7	1.8	1.8	65.0	68.7	68.6	355.3	359.1	360.2
60 Charleston—North Charleston	150.7	153.3	153.9	-	-	-	11.2	10.6	10.7	18.5	19.8	19.5
61 Columbia	182.1	183.8	186.0	-	-	-	9.1	10.7	11.4	25.7	26.0	26.1
62 Greenville—Spartanburg	258.2	260.6	260.9	-	-	-	15.7	14.6	14.4	95.9	95.4	95.1

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	
1.4	1.3	1.3	8.3	8.5	8.5	1.1	1.1	1.1	7.7	7.2	7.5	6.2	6.1	6.1	1
10.5	10.1	10.1	62.7	62.9	63.3	14.5	14.8	14.7	74.1	73.3	74.5	38.6	35.6	38.2	2
43.2	43.3	43.8	247.0	254.9	254.2	53.0	53.0	52.7	231.0	237.5	237.3	170.0	159.9	169.1	3
469.5	464.0	464.5	1,421.1	1,421.7	1,435.0	683.7	693.7	691.5	1,711.7	1,730.2	1,741.2	1,056.2	1,034.9	1,060.8	4
316.6	312.1	312.1	956.3	957.6	964.2	565.8	575.2	573.1	1,304.1	1,318.7	1,328.9	756.5	741.6	758.3	5
273.4	268.7	268.3	709.3	702.7	710.0	512.8	522.1	520.4	1,073.3	1,081.4	1,091.8	586.5	581.7	589.2	6
249.5	245.1	244.7	603.3	598.1	604.8	489.7	498.8	497.2	957.5	964.6	974.5	509.9	507.1	513.3	7
3.0	2.9	2.9	16.9	17.3	17.2	3.0	3.1	3.1	20.1	20.0	20.5	23.7	22.5	23.2	8
13.1	12.7	12.6	80.1	80.5	80.7	16.1	16.4	16.3	86.7	85.9	86.6	59.5	55.1	58.7	9
3.5	3.5	3.5	18.4	18.0	18.1	2.8	2.9	2.9	19.7	19.9	20.1	21.4	21.4	21.3	10
14.8	14.7	14.7	57.1	57.6	57.4	16.8	17.2	17.1	57.2	55.0	56.2	47.3	45.2	46.8	11
4.0	3.9	3.9	22.7	23.6	23.5	5.6	5.7	5.7	22.1	21.3	21.9	28.4	26.7	27.2	12
19.8	19.6	19.6	84.6	83.6	84.2	19.8	20.0	19.9	93.2	93.9	94.3	51.8	50.1	51.6	13
115.8	115.6	116.3	483.2	489.5	492.7	98.4	100.2	100.2	365.0	371.1	372.5	407.9	408.2	414.6	14
3.5	3.6	3.6	15.9	16.0	16.1	2.2	2.3	2.3	14.7	15.2	14.8	12.1	12.1	11.5	15
32.0	31.4	31.5	81.9	82.2	82.4	22.4	21.8	21.7	56.7	57.4	58.6	35.8	35.7	36.4	16
20.5	20.7	21.1	79.3	80.2	80.6	18.2	18.3	18.4	58.8	60.1	60.1	48.2	47.9	49.1	17
14.2	14.5	14.6	53.4	54.1	54.4	15.1	15.5	15.7	62.9	64.2	64.6	74.8	73.6	76.6	18
17.0	17.0	17.2	67.8	67.2	66.9	11.9	11.9	11.9	54.8	56.5	56.5	62.0	61.0	63.7	19
4.0	3.8	3.9	18.2	18.1	18.1	3.8	3.8	3.8	15.8	15.7	16.7	13.6	13.1	14.4	20
206.1	198.5	197.8	940.1	936.0	930.6	206.5	210.3	209.9	871.4	892.1	888.7	664.1	649.7	667.7	21
13.1	12.8	12.7	58.8	59.9	59.5	9.3	9.3	9.3	52.2	54.5	53.8	42.9	43.0	43.5	22
6.4	6.2	6.2	33.9	34.5	34.2	6.4	6.6	6.6	31.1	31.7	31.7	18.1	17.9	18.5	23
32.1	31.4	31.4	138.9	138.2	138.0	32.4	32.2	32.0	127.0	131.6	130.5	79.4	77.5	79.8	24
43.4	42.1	42.1	196.6	193.2	192.8	48.1	48.2	47.7	195.2	198.2	198.8	114.5	112.5	112.8	25
23.2	22.3	22.4	121.3	121.4	122.1	41.6	43.3	43.3	112.0	113.6	115.0	102.3	99.0	103.8	26
12.7	12.3	12.3	72.3	71.6	71.4	13.4	13.8	13.6	76.0	77.6	77.4	67.4	65.5	67.3	27
18.0	17.5	17.3	65.0	64.0	64.0	10.8	11.1	11.0	65.0	66.4	66.6	47.0	46.2	48.0	28
8.2	7.9	7.8	43.7	42.9	42.4	7.1	7.3	7.3	39.9	42.0	41.1	23.8	23.3	24.2	29
71.7	67.1	67.7	297.6	302.7	300.1	62.4	64.1	63.9	220.6	231.6	227.8	241.3	241.5	248.0	30
2.7	2.9	2.9	7.6	7.8	7.8	1.2	1.2	1.2	5.0	5.2	5.2	3.8	3.8	3.8	31
1.4	1.5	1.5	7.5	7.6	7.6	1.4	1.5	1.5	5.4	5.6	5.5	10.5	9.7	10.4	32
25.4	24.8	24.9	112.5	116.4	115.3	27.8	28.5	28.5	82.8	87.1	86.0	93.2	92.3	93.3	33
23.1	23.1	23.0	73.1	72.6	72.2	16.2	16.6	16.6	68.2	70.5	70.8	34.6	35.3	35.0	34
56.9	56.5	56.4	239.3	244.3	242.4	64.2	64.3	63.9	186.9	188.0	185.9	196.8	182.5	191.8	35
4.7	4.8	4.9	22.1	22.8	22.6	4.6	4.4	4.4	18.8	18.5	18.4	21.5	18.6	21.2	36
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37
35.5	34.2	33.9	136.1	136.8	136.0	43.6	43.2	42.9	109.9	108.7	108.4	80.3	77.2	78.9	38
2.7	2.6	2.7	17.9	18.9	18.4	5.4	5.5	5.5	14.8	14.7	14.6	26.0	25.1	26.2	39
247.5	246.6	246.8	970.4	976.1	980.9	237.4	239.7	239.9	1,056.9	1,062.3	1,065.7	670.4	646.6	670.2	40
13.3	13.2	13.2	50.7	49.2	49.3	9.5	9.6	9.6	49.0	50.9	51.3	28.7	28.7	28.5	41
5.1	5.6	5.5	10.1	10.1	10.0	1.5	1.4	1.4	9.0	9.4	9.3	6.5	7.0	6.6	42
79.6	78.3	77.9	336.4	337.6	344.5	109.7	108.5	110.2	426.3	429.9	434.9	223.8	216.7	220.5	43
4.5	4.6	4.5	21.4	21.3	21.1	4.6	4.8	4.8	24.0	24.7	24.8	12.9	11.6	12.2	44
16.0	15.7	16.1	44.7	46.5	46.9	12.8	13.3	13.4	42.5	44.1	42.9	55.9	55.7	56.0	45
5.1	5.0	5.0	15.0	15.0	15.1	3.9	3.9	3.9	16.4	17.1	16.9	12.5	12.7	12.6	46
6.0	6.2	6.2	34.6	34.8	35.5	5.7	5.5	5.5	28.6	28.1	28.4	13.9	13.2	14.5	47
13.0	12.5	12.5	49.8	50.9	51.2	10.1	10.2	10.2	49.6	50.1	50.4	34.5	33.2	35.5	48
94.9	93.9	93.5	427.5	428.7	435.4	126.8	126.1	127.6	498.7	503.0	508.0	291.6	283.2	288.2	49
49.3	48.8	48.5	141.6	138.0	141.2	65.2	63.6	63.3	228.3	223.5	229.6	139.5	137.2	137.4	50
51.0	50.2	49.8	203.1	201.0	201.0	46.5	46.8	46.4	230.9	229.7	229.7	104.1	101.5	105.6	51
6.4	6.2	6.4	27.4	27.6	27.6	6.1	6.4	6.3	25.0	24.6	25.2	16.6	16.0	17.0	52
2.8	2.5	2.5	9.4	9.3	9.2	1.3	1.4	1.3	9.7	9.6	9.4	5.2	4.8	5.1	53
1.1	1.2	1.2	8.7	8.9	9.0	1.3	1.4	1.4	6.5	6.5	6.4	20.5	19.1	20.8	54
2.3	2.1	2.2	9.5	9.3	9.2	2.1	2.2	2.2	8.3	8.5	8.4	6.1	5.8	6.1	55
7.1	7.1	7.1	33.1	33.9	34.0	4.0	4.2	4.0	22.9	23.7	23.4	17.4	17.5	17.6	56
13.4	13.5	13.2	79.4	80.6	81.0	21.3	21.5	21.4	91.2	92.9	92.6	57.9	55.6	56.9	57
13.1	12.8	12.7	78.3	79.2	79.5	21.0	21.3	21.2	89.1	90.9	90.6	54.5	52.1	53.4	58
53.9	56.1	56.3	230.3	237.4	233.9	50.3	52.5	51.9	171.1	178.9	177.0	233.9	226.9	232.6	59
9.4	9.1	9.2	34.3	35.4	35.1	6.9	7.3	7.3	26.8	26.7	26.7	43.5	44.4	45.4	60
9.8	9.3	9.3	37.3	37.9	38.2	14.4	14.9	15.0	30.6	30.2	30.3	54.9	54.5	55.3	61
9.6	9.0	9.0	53.8	54.5	54.7	10.2	10.6	10.6	37.6	40.4	40.5	35.1	35.8	36.3	62

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and areas	Total			Mining			Construction			Manufacturing		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
1 SOUTH DAKOTA	232.0	238.2	237.1	2.8	2.9	2.9	8.5	10.2	10.2	24.5	27.0	27.1
2 Sioux Falls	55.0	56.3	56.6	(2)	(2)	(2)	2.3	2.6	2.7	7.7	8.7	8.7
3 TENNESSEE	1,683.6	1,701.5	1,713.5	10.1	8.8	9.0	71.8	69.1	71.2	459.2	479.3	482.6
4 Chattanooga	163.0	164.8	165.9	1.5	1.4	1.4	6.2	6.8	7.0	42.1	42.5	42.7
5 Knoxville	204.0	202.2	203.9	1.6	1.3	1.3	9.1	10.3	10.8	48.7	49.6	49.6
6 Memphis	347.1	345.8	346.5	.1	.2	.2	12.1	12.1	11.9	53.3	52.1	52.2
7 Nashville—Davidson	367.9	363.8	364.8	(1)	(1)	(1)	19.3	19.7	20.3	76.1	79.1	79.1
8 TEXAS	6,219.9	6,193.4	6,208.6	298.1	286.8	288.1	421.9	390.9	387.5	1,014.4	1,006.1	1,009.5
9 Abilene	59.7	60.8	60.9	5.0	5.1	5.1	3.5	3.6	3.6	6.6	5.9	6.0
10 Amarillo	78.3	79.7	79.8	(1)	(1)	(1)	3.3	3.2	3.2	10.2	11.0	11.1
11 Austin	268.7	272.8	274.2	(1)	(1)	(1)	14.1	15.3	15.4	33.4	33.6	34.0
12 Beaumont—Port Arthur—Orange	147.8	144.3	145.0	(1)	(1)	(1)	11.3	9.8	9.9	35.6	33.9	33.7
13 Brownsville—Harlingen—San Benito	58.6	59.4	59.1	(1)	(1)	(1)	3.7	3.3	3.4	9.2	8.7	8.8
14 Bryan—College Station	44.1	44.4	44.9	1.6	1.5	1.5	2.8	2.9	2.9	3.1	3.4	3.1
15 Corpus Christi	134.8	134.0	133.2	9.2	8.9	8.8	12.5	12.2	12.0	15.3	15.1	15.0
16 Dallas—Fort Worth	1,549.5	1,591.8	1,596.6	32.9	32.6	32.0	85.4	87.3	87.4	309.2	311.5	311.6
17 El Paso	165.0	165.7	165.3	(1)	(1)	(1)	8.0	8.0	8.0	37.1	39.1	38.4
18 Galveston—Texas City	69.0	68.9	69.7	(1)	(1)	(1)	4.4	5.1	5.2	11.5	10.5	10.5
19 Houston	1,576.9	1,546.3	1,548.9	103.0	103.9	104.3	144.3	136.4	135.5	243.5	224.2	223.9
20 Killeen—Temple	60.3	62.6	62.6	(1)	(1)	(1)	3.2	3.7	3.6	7.9	8.7	8.6
21 Laredo	31.5	29.5	30.0	(1)	(1)	(1)	1.6	1.2	1.2	1.8	1.6	1.7
22 Longview—Marshall	68.2	68.4	67.9	(1)	(1)	(1)	4.7	4.4	4.4	16.6	16.1	15.9
23 Lubbock	90.0	90.3	90.2	(1)	(1)	(1)	4.4	4.2	4.2	11.4	10.7	10.5
24 McAllen—Pharr—Edinburg	77.1	75.8	77.5	1.5	1.6	1.6	6.0	5.9	5.9	8.3	9.0	9.1
25 Midland	52.0	53.5	54.6	13.6	12.7	13.1	4.5	4.2	4.2	4.3	4.1	4.3
26 Odessa	57.8	56.4	56.5	7.9	8.2	8.2	6.2	5.1	5.2	7.4	6.1	6.0
27 San Angelo	36.2	35.7	36.0	.7	.7	.6	2.1	2.0	2.0	5.8	5.3	5.5
28 San Antonio	420.5	437.2	439.3	3.2	3.4	3.4	27.4	29.1	29.3	48.9	49.7	49.1
29 Sherman—Denison	33.8	33.6	33.5	.2	.2	.2	1.4	1.4	1.3	11.0	11.1	11.1
30 Texarkana	45.2	46.4	46.3	.2	.2	.2	1.9	2.6	2.5	8.4	8.4	8.4
31 Tyler	54.6	56.2	56.5	3.2	3.1	3.1	2.4	2.4	2.4	11.0	10.9	10.9
32 Waco	71.4	73.0	73.3	(1)	(1)	(1)	3.4	3.8	3.7	14.9	15.2	15.3
33 Wichita Falls	53.2	53.8	54.1	3.5	3.2	3.3	2.1	2.2	2.2	8.6	9.1	9.3
34 UTAH	564.4	568.6	570.0	16.9	14.2	14.1	29.7	29.6	29.1	83.5	87.2	87.2
35 Salt Lake City—Ogden	395.9	401.3	401.7	5.9	6.0	5.8	19.3	19.6	19.1	58.1	60.4	60.3
36 VERMONT	205.3	207.4	209.1	.7	.8	.6	11.3	12.6	12.9	49.0	48.9	48.8
37 Burlington ¹²	61.5	61.5	62.4	-	-	-	-	-	-	15.7	15.8	15.7
38 Springfield ¹²	14.1	13.4	13.5	-	-	-	-	-	-	5.2	4.4	4.3
39 VIRGINIA	2,134.7	2,177.9	2,184.9	21.9	21.6	22.0	102.5	110.6	110.9	398.5	409.4	411.7
40 Bristol	26.8	26.9	27.2	(1)	(1)	(1)	.9	1.0	1.1	8.7	8.4	8.5
41 Lynchburg	68.3	69.2	69.3	(1)	(1)	(1)	2.5	2.7	2.6	26.4	26.6	26.6
42 Newport News—Hampton	152.6	158.5	159.1	(1)	(1)	(1)	6.0	6.6	6.8	37.3	39.3	39.5
43 Norfolk—Virginia Beach—Portsmouth	292.4	301.3	302.6	(1)	(1)	(1)	17.1	19.5	19.7	27.7	25.8	26.7
44 Northern Virginia ¹³	475.9	497.1	498.0	.5	.6	.6	24.7	28.0	27.9	22.4	24.8	25.2
45 Petersburg—Colonial Hgts.—Hopewell	43.1	42.3	42.3	(1)	(1)	(1)	2.0	2.1	2.1	8.6	7.8	7.7
46 Richmond	323.5	328.4	328.4	.3	.3	.3	15.7	16.1	15.9	55.4	55.7	55.7
47 Roanoke	101.1	105.0	104.6	.1	.1	.1	5.1	5.4	5.4	19.6	20.5	20.6
48 WASHINGTON	1,574.4	1,599.4	1,596.4	3.0	2.8	2.8	76.1	80.8	78.4	290.1	280.5	281.0
49 WEST VIRGINIA	602.0	590.4	593.1	55.2	50.6	50.9	29.7	29.2	29.0	96.3	92.8	92.7
50 Charleston	108.3	103.6	103.8	5.2	4.4	4.1	5.7	5.6	5.8	16.0	13.8	13.7
51 Huntington—Ashland	96.5	93.2	93.9	1.0	.9	.9	5.4	5.2	5.1	20.5	19.3	19.4
52 Parkersburg—Marietta	57.4	56.4	56.1	1.5	1.1	1.1	3.6	3.4	3.4	15.1	15.1	15.0
53 Wheeling	61.3	58.1	57.9	4.3	2.8	2.9	2.8	2.7	2.7	8.9	8.3	8.3
54 WISCONSIN	1,878.2	1,878.6	1,880.1	2.1	2.4	2.5	55.2	54.9	56.5	488.5	495.5	485.8
55 Appleton—Oshkosh	121.9	121.9	123.3	(1)	(1)	(1)	4.5	4.4	4.4	42.9	44.6	44.6
56 Eau Claire	48.1	48.8	49.5	(1)	(1)	(1)	1.2	1.2	1.2	8.6	9.0	9.1
57 Green Bay	80.1	81.6	82.0	(1)	(1)	(1)	3.4	3.3	3.4	21.8	21.9	21.3
58 Janesville—Beloit	49.3	50.7	51.2	(1)	(1)	(1)	1.2	1.1	1.2	17.2	18.8	18.9
59 Kenosha	42.3	43.0	43.4	(1)	(1)	(1)	1.5	1.5	1.4	17.0	18.1	18.6
60 La Crosse	45.9	46.4	47.3	(1)	(1)	(1)	1.0	1.1	1.1	9.9	9.9	9.8
61 Madison	171.4	172.1	173.5	(1)	(1)	(1)	5.0	5.4	5.5	19.1	19.5	19.4
62 Milwaukee	627.1	608.8	615.1	(1)	(1)	(1)	15.4	14.3	15.3	165.2	155.1	155.6
63 Racine	61.3	61.2	61.3	(1)	(1)	(1)	1.6	1.3	1.3	22.6	23.4	23.4

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	
12.7	12.3	12.2	61.5	63.3	61.9	12.0	12.3	12.1	52.7	53.6	52.7	57.3	56.6	58.0	1
4.6	4.4	4.3	15.2	15.5	15.6	4.1	4.4	4.3	14.4	14.1	14.2	6.7	6.6	6.8	2
83.1	83.1	85.5	366.1	367.0	366.1	79.5	80.0	79.6	318.4	319.9	320.5	295.4	294.3	299.0	3
7.3	7.1	7.1	35.5	36.6	36.6	10.0	10.8	10.9	28.7	28.3	28.6	31.7	31.3	31.6	4
8.4	7.5	7.5	45.1	44.7	44.8	8.9	8.2	8.1	38.0	37.6	37.5	44.2	43.0	44.3	5
26.1	25.4	25.5	94.8	95.0	95.1	19.5	20.2	20.3	78.9	79.3	79.2	62.3	61.5	62.1	6
19.1	18.2	18.3	87.9	86.2	85.5	25.2	25.0	24.9	80.0	76.4	77.2	60.3	59.2	59.5	7
380.7	381.0	382.0	1,539.2	1,541.1	1,543.6	365.7	374.5	374.6	1,166.1	1,175.9	1,176.9	1,033.8	1,037.1	1,046.4	8
3.3	3.3	3.3	15.3	15.8	15.8	3.1	3.2	3.2	13.5	14.2	14.2	9.4	9.7	9.7	9
6.5	6.6	6.6	24.5	24.4	24.2	4.1	4.3	4.3	16.9	16.9	16.8	12.8	13.3	13.6	10
7.8	7.8	7.8	59.6	62.6	62.7	17.6	17.3	17.4	54.5	55.0	55.1	81.7	81.2	81.8	11
12.4	12.7	12.4	33.7	33.9	34.0	5.8	5.7	5.7	28.5	28.6	29.0	20.5	19.7	20.3	12
3.6	3.5	3.4	16.8	17.7	17.5	3.0	3.0	2.9	10.2	10.8	10.7	12.1	12.4	12.4	13
1.9	2.0	2.0	9.1	9.2	9.2	1.8	1.9	1.9	6.0	5.9	6.0	17.8	17.6	18.3	14
7.8	7.4	7.3	32.5	32.6	32.3	6.4	6.6	6.6	24.6	24.3	24.2	26.5	26.9	27.0	15
97.6	98.9	98.7	420.3	431.1	433.0	117.4	122.2	122.7	304.5	322.5	323.8	182.2	185.7	187.4	16
10.6	10.4	10.5	40.6	39.7	40.0	7.7	7.8	7.8	27.4	27.2	27.1	33.6	33.5	33.5	17
6.4	6.5	6.5	13.0	13.1	13.0	4.5	4.4	4.4	11.2	11.1	11.0	18.0	18.2	19.1	18
109.3	108.7	106.3	377.7	366.0	367.4	100.2	102.6	102.2	321.6	328.2	330.4	177.3	176.3	178.9	19
3.2	3.2	3.3	13.6	14.0	13.9	2.2	2.3	2.3	11.2	11.4	11.5	19.0	19.3	19.4	20
3.3	3.3	3.3	10.3	9.3	9.4	1.4	1.5	1.5	6.4	5.9	6.0	6.7	6.7	6.9	21
3.7	3.9	3.8	17.0	17.3	17.1	2.8	2.9	2.9	15.8	15.9	15.9	7.6	7.9	7.9	22
4.8	4.7	4.8	26.1	26.3	26.6	5.0	5.2	5.2	17.5	18.3	18.1	20.8	20.9	20.8	23
2.8	2.6	2.6	24.9	22.5	23.8	3.0	3.2	3.2	9.8	10.0	10.0	20.8	21.0	21.3	24
3.1	3.2	3.2	10.7	11.7	11.8	3.3	3.6	3.6	8.0	9.1	9.4	4.5	4.9	5.0	25
3.0	2.8	2.9	15.9	15.3	15.4	2.3	2.4	2.3	8.4	8.8	8.9	6.7	7.7	7.6	26
3.8	3.7	3.6	8.8	8.9	8.8	1.4	1.5	1.5	7.2	7.2	7.3	6.4	6.4	6.7	27
18.2	19.1	19.2	108.0	114.5	114.7	29.0	29.8	30.1	90.9	94.9	95.7	94.9	96.7	97.8	28
2.3	2.3	2.3	7.3	7.0	7.0	1.2	1.2	1.2	5.8	5.7	5.7	4.6	4.7	4.7	29
2.2	2.1	2.1	10.7	11.2	11.2	1.6	1.6	1.6	7.4	7.4	7.4	12.8	12.9	12.9	30
2.6	2.8	2.8	14.1	14.9	15.0	3.0	3.2	3.2	11.0	11.1	11.2	7.3	7.8	7.9	31
3.4	3.3	3.2	17.4	17.8	17.9	4.4	4.4	4.4	16.1	16.6	16.7	11.8	11.9	12.1	32
3.1	3.0	3.0	13.4	13.5	13.5	2.5	2.6	2.6	9.1	9.3	9.3	10.9	10.9	10.9	33
36.0	36.0	36.0	132.6	133.5	132.8	26.8	27.6	27.6	111.2	112.9	113.3	127.8	127.6	129.8	34
28.0	28.4	28.4	97.2	97.1	96.8	21.6	22.6	22.6	74.7	77.4	77.4	91.0	89.9	91.3	35
8.9	9.0	9.0	43.5	44.3	44.1	8.3	8.8	8.9	47.3	48.4	48.4	36.3	34.6	36.4	36
2.4	2.5	2.5	13.1	12.9	12.9	-	-	-	13.6	14.0	14.2	-	-	-	37
.7	.7	.7	2.4	2.5	2.5	-	-	-	2.7	2.8	2.8	-	-	-	38
116.8	117.5	117.9	460.0	465.7	467.3	105.5	109.7	109.1	431.4	441.7	437.5	498.2	501.8	508.4	39
1.1	1.1	1.2	6.5	6.6	6.6	.9	1.0	1.0	3.6	3.6	3.6	5.0	5.2	5.3	40
2.7	2.7	2.8	11.9	12.2	12.1	3.4	3.5	3.4	11.7	11.9	12.0	9.8	9.5	9.7	41
5.1	4.9	4.9	31.6	33.3	33.5	4.5	4.7	4.6	30.4	32.0	31.9	37.7	37.6	38.0	42
19.7	20.7	20.7	71.4	74.9	74.8	14.7	15.2	15.0	61.9	64.5	63.8	80.0	80.7	81.9	43
33.3	35.3	35.4	108.5	115.3	115.6	28.9	30.6	30.4	135.0	139.2	139.3	122.6	123.3	123.7	44
1.3	1.1	1.1	8.3	8.4	8.5	1.2	1.2	1.2	7.2	7.5	7.5	14.5	14.2	14.3	45
19.6	18.9	19.1	76.9	78.4	78.4	26.8	27.5	27.3	59.6	61.3	60.8	69.1	70.1	70.8	46
9.3	9.4	9.4	24.9	26.3	26.4	5.9	6.1	6.1	21.5	21.8	21.5	14.7	15.3	15.1	47
90.4	91.5	90.2	384.4	401.4	396.3	90.2	93.2	93.2	319.4	334.1	330.8	320.8	315.1	323.7	48
40.7	39.1	39.2	128.5	127.7	127.4	21.9	21.8	21.9	103.3	102.7	103.0	126.4	126.4	129.0	49
9.0	8.5	8.5	25.8	25.4	25.6	4.9	4.8	4.8	21.5	21.0	21.0	20.3	20.1	20.2	50
8.3	7.9	7.9	23.7	23.0	23.0	3.6	3.4	3.4	15.3	15.5	15.4	18.6	18.1	18.9	51
2.2	2.2	2.2	13.1	12.5	12.6	2.0	2.1	2.1	10.6	10.8	10.5	9.3	9.1	9.2	52
3.7	3.5	3.4	14.8	14.7	14.0	2.9	2.8	2.8	14.7	14.4	14.4	9.2	8.9	9.3	53
88.4	85.7	86.7	435.5	436.1	437.2	97.5	98.7	98.5	388.2	393.1	390.9	322.8	312.4	322.0	54
4.3	4.2	4.3	26.1	25.3	26.1	5.7	6.0	6.0	22.0	22.3	22.4	16.3	15.0	15.5	55
2.7	2.6	2.6	13.0	13.7	13.9	1.7	1.7	1.7	9.8	9.8	9.8	11.1	10.8	11.2	56
6.2	6.3	6.3	19.9	21.1	21.4	2.6	2.6	2.7	16.1	16.6	16.9	10.0	9.7	9.9	57
2.5	2.8	2.8	10.7	10.9	10.8	1.4	1.4	1.4	9.3	9.1	9.0	7.0	6.7	7.0	58
1.3	1.2	1.2	8.1	7.6	7.6	1.0	1.0	1.0	7.6	7.5	7.4	5.9	6.1	6.3	59
1.9	1.9	1.9	12.1	12.6	12.6	1.1	1.1	1.2	12.2	12.7	13.0	7.7	7.1	7.8	60
6.4	6.3	6.3	38.0	38.2	38.8	13.6	13.4	13.3	34.4	34.8	35.3	54.8	54.5	54.9	61
32.8	32.5	33.2	138.9	138.2	138.3	40.9	40.5	40.6	151.5	152.0	152.6	82.5	76.3	79.4	62
2.4	2.5	2.4	13.1	12.7	12.8	2.3	2.2	2.2	11.1	11.1	11.0	8.2	8.0	8.1	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 areas	Total			Mining			Construction			Manufacturing		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
1 WYOMING	217.9	219.4	216.7	37.5	37.5	37.5	18.8	24.0	23.5	9.7	9.6	10.0
2 PUERTO RICO	628.2	626.7	627.5	.7	.8	.7	23.4	22.3	23.4	139.9	143.9	145.0
3 Caguas	26.5	25.9	25.7	(*)	(*)	(*)	(*)	(*)	(*)	8.8	8.6	8.5
4 Mayaguez	36.3	36.7	37.0	(*)	(*)	(*)	(*)	(*)	(*)	13.3	13.7	14.0
5 Ponce	45.7	43.6	44.3	(*)	(*)	(*)	2.5	2.8	2.7	10.2	8.9	9.5
6 San Juan	325.6	322.4	321.6	(1)	(1)	(1)	16.3	14.8	15.4	31.9	32.0	32.5
7 VIRGIN ISLANDS	35.3	34.2	34.7	(2)	(2)	(2)	3.5	2.7	2.6	2.6	2.4	2.4

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			
OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	
17.4	16.4	16.1	48.4	47.3	45.9	7.7	7.5	7.5	31.8	31.5	29.2	46.6	45.6	47.0	1
14.2	14.5	13.7	104.1	101.1	101.5	28.6	29.1	28.9	83.2	81.5	80.6	234.0	233.5	233.7	2
(*)	(*)	(*)	5.0	4.9	4.7	(*)	(*)	(*)	(*)	(*)	(*)	9.0	8.7	8.7	3
(*)	(*)	(*)	4.8	5.0	5.1	(*)	(*)	(*)	(*)	(*)	(*)	13.0	13.1	13.1	4
(*)	(*)	(*)	7.0	6.9	6.9	(*)	(*)	(*)	7.2	6.7	6.7	16.2	15.5	15.6	5
11.2	11.5	10.8	66.1	63.8	63.9	21.9	22.6	22.4	57.3	56.5	55.7	121.0	121.1	121.0	6
2.2	2.2	2.2	6.7	6.4	6.5	1.5	1.4	1.4	5.6	5.3	5.6	13.4	13.8	14.0	7

¹ Combined with services.

² Combined with construction.

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

⁴ Subarea of Baltimore Standard Metropolitan Statistical Area.

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

⁶ Subarea of New York—Northeastern New Jersey.

⁷ Subarea of Rochester Standard Metropolitan Statistical Area.

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

⁹ Subarea of New York Standard Metropolitan Statistical Area.

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

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

¹² Total includes data for industry divisions not shown separately.

¹³ 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.

NOTE: All State and area data have been adjusted to March 1982 benchmarks except Wisconsin. Data for Idaho have been adjusted to March 1983 benchmarks.

SOURCE: Cooperating State agencies listed on inside back cover.

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	TOTAL PRIVATE	\$270.31	\$271.01	\$286.28	\$287.70	\$286.53	\$7.79	\$7.81	\$8.11	\$8.15	\$8.14
	MINING	459.22	458.02	489.19	489.02	482.51	10.96	11.01	11.35	11.32	11.30
	METAL MINING	452.86	462.36	504.59	503.14	-	12.51	12.53	12.71	12.77	-
101	Iron ores	457.88	484.98	454.10	468.63	-	13.42	13.70	11.95	11.96	-
102	Copper ores	457.66	523.18	511.82	515.58	-	12.96	12.95	13.09	13.22	-
11, 12	COAL MINING	526.46	502.66	568.17	567.77	-	12.92	13.09	13.95	13.95	-
12	BITUMINOUS COAL AND LIGNITE MINING	528.42	503.26	569.80	570.79	-	12.97	13.14	14.00	13.99	-
13	OIL AND GAS EXTRACTION	454.22	453.84	470.99	471.97	-	10.49	10.53	10.63	10.63	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	437.12	503.27	530.37	528.75	-	11.95	12.04	12.45	12.50	-
138	Oil and gas field services	435.93	434.38	444.77	447.03	-	9.93	9.94	9.95	9.89	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	333.16	385.20	423.49	420.08	-	9.08	9.00	9.39	9.44	-
142	Crushed and broken stone	338.47	372.78	404.47	397.62	-	8.71	8.55	8.67	8.88	-
	CONSTRUCTION	440.75	423.09	455.94	447.14	427.79	11.88	11.72	12.03	12.02	11.85
15	GENERAL BUILDING CONTRACTORS	393.11	379.48	399.20	390.16	-	10.77	10.60	10.76	10.66	-
152	Residential building construction	355.77	339.85	365.09	353.88	-	9.91	9.71	10.03	9.83	-
153	Operative builders	315.93	320.17	364.99	357.75	-	8.38	8.63	8.99	9.08	-
154	Nonresidential building construction	428.78	416.05	435.75	427.35	-	11.62	11.43	11.62	11.55	-
16	HEAVY CONSTRUCTION CONTRACTORS	474.76	452.39	503.86	488.83	-	11.81	11.57	12.23	12.16	-
161	Highway and street construction	434.36	373.84	468.90	449.77	-	10.62	9.71	10.93	10.97	-
162	Heavy construction, except highway	492.37	482.60	520.43	507.05	-	12.34	12.28	12.85	12.74	-
17	SPECIAL TRADE CONTRACTORS	448.00	431.73	462.36	457.02	-	12.41	12.30	12.53	12.59	-
171	Plumbing, heating, air conditioning	470.35	451.21	480.44	477.54	-	12.61	12.43	12.61	12.60	-
172	Painting, paper hanging, decorating	387.44	375.31	417.66	407.86	-	11.23	11.17	11.57	11.62	-
173	Electrical work	521.73	507.19	541.29	539.00	-	13.95	13.82	14.17	14.11	-
174	Masonry, stonework, and plastering	416.58	399.32	431.17	419.83	-	12.11	11.92	12.18	12.24	-
175	Carpentering and flooring	386.92	383.10	411.47	404.38	-	11.38	11.47	11.79	11.62	-
176	Roofing and sheet metal work	357.41	337.68	383.71	364.65	-	11.10	10.72	11.09	11.22	-
	MANUFACTURING	333.84	338.37	363.12	362.64	365.98	8.56	8.61	8.93	8.91	8.97
24, 25, 32-39	DURABLE GOODS	357.90	363.13	392.47	390.99	394.54	9.13	9.17	9.48	9.49	9.53
20-23, 26-31	NONDURABLE GOODS	331.08	305.74	325.21	323.59	326.80	7.80	7.88	8.11	8.11	8.17
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	289.93	292.97	320.72	317.93	310.40	7.57	7.59	7.88	7.85	7.76
241	Logging camps and logging contractors	392.66	388.49	424.44	421.14	-	10.21	10.17	10.43	10.45	-
242	Sawmills and planing mills	297.21	299.54	337.84	337.83	-	7.76	7.76	8.22	8.18	-
2421	Sawmills and planing mills, general	313.73	315.75	358.07	358.15	-	8.17	8.18	8.67	8.63	-
2426	Hardwood dimension and flooring	238.21	214.09	227.36	226.95	-	5.38	5.42	5.60	5.59	-
243	Millwork, plywood, and structural members	234.57	292.86	314.11	310.23	-	7.43	7.49	7.65	7.66	-
2431	Millwork	293.31	297.86	329.06	315.90	-	7.54	7.56	7.91	7.80	-
2434	Wood kitchen cabinets	252.08	259.38	283.44	277.60	-	6.74	6.79	6.93	6.94	-
2435	Hardwood veneer and plywood	225.88	220.92	252.77	251.74	-	5.96	5.85	6.15	6.17	-
2436	Softwood veneer and plywood	347.90	368.52	378.00	392.22	-	9.06	9.19	9.45	9.52	-
244	Wood containers	211.25	208.48	220.30	216.22	-	5.53	5.53	5.62	5.53	-
245	Wood buildings and mobile homes	251.84	249.91	270.92	265.78	-	6.68	6.70	6.79	6.78	-
2451	Mobile homes	249.38	249.54	275.37	269.89	-	6.65	6.69	6.85	6.85	-
249	Miscellaneous wood products	247.40	250.52	268.92	267.71	-	6.36	6.44	6.64	6.61	-
25	FURNITURE AND FIXTURES	243.20	244.34	271.22	271.22	270.00	6.40	6.43	6.73	6.73	6.75
251	Household furniture	222.22	221.41	244.95	246.18	-	5.91	5.92	6.17	6.17	-
2511	Wood household furniture	203.42	203.83	222.72	226.16	-	5.41	5.45	5.61	5.64	-
2512	Upholstered household furniture	233.21	235.21	256.89	257.13	-	6.32	6.34	6.57	6.61	-
2514	Metal household furniture	249.15	242.53	267.65	268.55	-	6.26	6.14	6.56	6.44	-
2515	Mattresses and bedspreads	242.88	240.37	279.27	274.71	-	6.60	6.64	7.07	6.99	-
252	Office furniture	258.62	268.35	308.70	305.24	-	6.86	6.97	7.35	7.32	-
253	Public building and related furniture	280.30	290.50	296.94	305.70	-	6.99	7.12	7.35	7.42	-
254	Partitions and fixtures	338.11	303.80	341.14	338.24	-	7.84	7.83	8.28	8.27	-
259	Miscellaneous furniture and fixtures	279.66	287.52	303.73	299.47	-	7.08	7.17	7.39	7.34	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	TOTAL PRIVATE	34.7	34.7	35.3	35.3	35.2	-	-	-	-	-
	MINING	41.9	41.6	43.1	43.2	42.7	-	-	-	-	-
10	METAL MINING	36.2	36.9	39.7	39.4	-	-	-	-	-	-
101	Iron ores	37.1	35.4	38.0	39.2	-	-	-	-	-	-
102	Copper ores	38.4	40.4	39.1	39.0	-	-	-	-	-	-
11, 12	COAL MINING	39.2	38.4	40.7	40.7	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	39.2	38.3	40.7	40.8	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	43.3	43.1	44.1	44.4	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.6	41.8	42.6	42.3	-	-	-	-	-	-
138	Oil and gas field services	43.9	43.7	44.7	45.2	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	43.3	42.8	45.1	44.5	-	-	-	-	-	-
142	Crushed and broken stone	44.6	43.6	45.6	44.8	-	-	-	-	-	-
	CONSTRUCTION	37.1	36.1	37.9	37.2	36.1	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.5	35.8	37.1	36.6	-	-	-	-	-	-
152	Residential building construction	35.9	35.0	36.4	36.0	-	-	-	-	-	-
153	Operative builders	37.7	37.1	40.6	39.4	-	-	-	-	-	-
154	Nonresidential building construction	36.5	36.4	37.5	37.0	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	40.2	39.1	41.3	40.2	-	-	-	-	-	-
161	Highway and street construction	40.9	38.5	42.9	41.0	-	-	-	-	-	-
162	Heavy construction, except highway	39.9	39.3	40.5	39.8	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	36.1	35.1	36.9	36.3	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	37.5	36.3	38.1	37.9	-	-	-	-	-	-
172	Painting, paper hanging, decorating	34.5	33.6	36.1	35.1	-	-	-	-	-	-
173	Electrical work	37.4	36.7	38.2	38.2	-	-	-	-	-	-
174	Masonry, stonework, and plastering	34.4	33.5	35.4	34.3	-	-	-	-	-	-
175	Carpentering and flooring	34.0	33.4	34.9	34.8	-	-	-	-	-	-
176	Roofing and sheet metal work	33.1	31.5	34.6	32.5	-	-	-	-	-	-
	MANUFACTURING	39.0	39.3	40.8	40.7	40.8	2.3	2.4	3.5	3.4	3.4
24, 25, 32-39	DURABLE GOODS	39.2	39.6	41.4	41.2	41.4	2.1	2.2	3.6	3.5	3.5
20-23, 26-31	NONDURABLE GOODS	38.6	38.8	40.1	39.9	40.0	2.7	2.6	3.5	3.4	3.3
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	38.3	38.6	40.7	40.5	40.0	2.3	2.4	3.5	3.4	-
241	Logging camps and logging contractors	38.4	38.2	40.5	40.3	-	2.7	2.8	4.0	3.9	-
242	Sawmills and planing mills	38.3	38.6	41.1	41.3	-	2.9	2.9	3.9	4.0	-
2421	Sawmills and planing mills, general	38.4	38.6	41.3	41.5	-	3.1	3.1	4.0	4.1	-
2426	Hardwood dimension and flooring	38.7	39.5	40.6	40.6	-	2.2	2.5	3.6	3.6	-
243	Millwork, plywood, and structural members	38.3	39.1	40.9	40.5	-	2.0	2.2	3.7	3.4	-
2431	Millwork	38.9	39.4	41.6	40.5	-	1.6	1.7	3.5	2.6	-
2434	Wood kitchen cabinets	37.4	38.2	40.9	40.0	-	1.1	1.6	3.7	3.2	-
2435	Hardwood veneer and plywood	37.9	37.7	41.1	40.8	-	2.2	2.3	3.9	3.8	-
2436	Softwood veneer and plywood	38.4	40.1	40.0	41.2	-	3.2	3.2	3.8	4.4	-
244	Wood containers	38.2	37.7	39.2	39.1	-	1.9	1.5	2.5	2.4	-
245	Wood buildings and mobile homes	37.7	37.3	39.9	39.2	-	1.6	1.4	2.8	2.3	-
2451	Mobile homes	37.5	37.3	40.2	39.4	-	1.6	1.4	3.1	2.4	-
249	Miscellaneous wood products	38.9	38.9	40.5	40.5	-	2.1	2.0	2.7	2.8	-
25	FURNITURE AND FIXTURES	38.0	38.0	40.3	40.3	40.0	1.7	1.7	2.9	2.8	-
251	Household furniture	37.6	37.4	39.7	39.9	-	1.4	1.4	2.5	2.5	-
2511	Wood household furniture	37.6	37.4	39.7	40.1	-	1.6	1.6	2.5	2.7	-
2512	Upholstered household furniture	36.9	37.1	39.1	38.9	-	1.0	1.0	1.8	2.0	-
2514	Metal household furniture	39.8	39.5	40.8	41.7	-	2.0	1.6	3.4	3.1	-
2515	Mattresses and bedsprings	36.6	36.2	39.5	39.3	-	1.3	1.1	3.1	1.9	-
252	Office furniture	37.7	38.5	42.0	41.7	-	1.7	1.9	3.5	3.4	-
253	Public building and related furniture	40.1	40.8	40.4	41.2	-	2.5	3.1	3.1	3.4	-
254	Partitions and fixtures	39.5	38.8	41.2	40.9	-	2.5	2.5	4.3	3.6	-
259	Miscellaneous furniture and fixtures	39.5	40.1	41.1	40.8	-	1.8	2.1	2.4	2.2	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
32	STONE, CLAY, AND GLASS PRODUCTS	\$366.62	\$366.12	\$399.83	\$394.90	\$392.08	\$9.03	\$9.04	\$9.43	\$9.38	\$9.38
321	Flat glass	474.71	499.27	587.99	563.11	-	11.55	11.72	12.98	12.74	-
322	Glass and glassware, pressed or blown	384.87	391.64	415.95	416.72	-	9.55	9.67	10.17	10.09	-
3221	Glass containers	404.56	408.82	435.59	432.55	-	9.94	10.02	10.65	10.55	-
3229	Pressed and blown glass, nec	356.61	366.51	389.64	395.62	-	8.96	9.14	9.55	9.51	-
323	Products of purchased glass	346.32	342.63	339.06	338.21	-	8.53	8.46	8.17	8.13	-
324	Cement, hydraulic	517.45	529.92	578.29	561.19	-	12.59	12.80	13.48	13.33	-
325	Structural clay products	285.20	289.48	318.43	315.14	-	7.13	7.13	7.44	7.45	-
326	Pottery and related products	286.12	295.93	310.85	307.71	-	7.49	7.53	7.95	7.89	-
327	Concrete, gypsum, and plaster products	372.07	357.41	406.46	400.96	-	8.88	8.76	9.28	9.26	-
3271	Concrete block and brick	347.49	344.67	351.26	350.62	-	7.97	7.96	7.72	7.74	-
3272	Concrete products, nec	325.31	318.61	356.65	352.51	-	7.82	7.79	8.18	8.16	-
3273	Ready-mixed concrete	404.48	375.71	444.69	434.84	-	9.77	9.56	10.27	10.28	-
329	Misc. nonmetallic mineral products	352.74	359.07	390.50	386.40	-	8.93	8.91	9.21	9.20	-
3291	Abrasive products	331.13	330.75	365.66	360.50	-	8.76	8.75	8.79	8.75	-
3292	Asbestos products	343.77	363.53	403.00	405.79	-	8.86	8.91	9.18	9.16	-
33	PRIMARY METAL INDUSTRIES	431.30	440.07	469.06	464.32	473.30	11.41	11.49	11.33	11.27	11.35
331	Blast furnace and basic steel products	495.67	504.53	523.06	510.14	-	13.58	13.71	12.82	12.69	-
3312	Blast furnaces and steel mills	514.79	522.72	539.17	522.97	-	14.26	14.40	13.28	13.14	-
3317	Steel pipe and tubes	409.34	422.87	436.24	436.95	-	10.66	10.76	10.64	10.58	-
332	Iron and steel foundries	346.75	357.17	411.23	410.59	-	9.50	9.55	10.03	9.99	-
3321	Gray iron foundries	349.90	359.83	427.23	428.87	-	9.56	9.57	10.27	10.26	-
3322	Malleable iron foundries	358.64	371.49	444.64	436.04	-	10.24	10.15	10.74	10.74	-
3325	Steel foundries, nec	331.94	351.73	366.14	362.55	-	9.43	9.61	9.51	9.32	-
333	Primary nonferrous metals	535.70	544.66	557.66	568.16	-	13.26	13.22	13.47	13.56	-
3334	Primary aluminum	572.42	568.83	575.40	589.64	-	14.03	14.08	14.00	14.14	-
335	Nonferrous rolling and drawing	416.00	423.46	465.26	464.38	-	10.40	10.43	10.82	10.85	-
3351	Copper rolling and drawing	342.77	359.24	418.56	423.98	-	8.88	8.87	9.60	9.68	-
3353	Aluminum sheet, plate, and foil	555.66	589.95	594.56	601.80	-	13.72	14.08	14.19	14.16	-
3357	Nonferrous wire drawing and insulating	378.50	379.75	440.64	435.54	-	9.51	9.47	10.20	10.20	-
336	Nonferrous foundries	332.13	339.55	369.77	373.69	-	8.56	8.64	8.91	8.94	-
3361	Aluminum foundries	338.24	347.90	385.14	389.73	-	8.74	8.83	9.17	9.17	-
34	FABRICATED METAL PRODUCTS	346.04	350.66	381.29	380.37	385.22	8.85	8.90	9.21	9.21	9.26
341	Metal cans and shipping containers	495.52	495.33	524.78	521.00	-	11.77	11.85	12.29	12.23	-
3411	Metal cans	519.29	520.25	551.68	548.70	-	12.19	12.27	12.92	12.82	-
342	Cutlery, hand tools, and hardware	322.92	329.67	372.67	372.19	-	8.28	8.41	8.98	8.99	-
3423, 5	Hand and edge tools, and hand saws and blades	310.40	313.15	342.31	338.22	-	8.00	8.05	8.39	8.31	-
3429	Hardware, nec	332.28	341.91	389.16	389.06	-	8.52	8.70	9.31	9.33	-
343	Plumbing and heating, except electric	315.93	316.40	334.14	330.46	-	8.08	7.99	8.23	8.20	-
3432	Plumbing fittings and brass goods	293.37	297.98	321.58	318.00	-	7.70	7.68	7.96	7.99	-
3433	Heating equipment, except electric	323.56	320.39	328.03	322.40	-	8.15	7.97	8.15	8.04	-
344	Fabricated structural metal products	343.48	345.63	359.45	355.59	-	8.74	8.75	8.81	8.78	-
3441	Fabricated structural metal	366.62	358.27	383.46	385.11	-	9.12	9.07	9.33	9.37	-
3442	Metal doors, sash, and trim	255.36	269.39	277.55	276.58	-	6.77	6.82	6.87	6.88	-
3443	Fabricated plate work (boiler shops)	363.55	395.21	417.31	404.19	-	9.86	9.93	10.08	9.98	-
3444	Sheet metal work	343.93	346.21	360.00	357.20	-	8.91	8.90	9.00	8.93	-
3446	Architectural metal work	355.01	355.52	370.60	376.26	-	8.68	8.65	8.93	8.98	-
345	Screw machine products, bolts, etc.	312.15	316.42	359.06	363.76	-	8.13	8.24	8.59	8.62	-
3451	Screw machine products	291.84	296.45	323.14	325.97	-	7.60	7.72	7.92	7.97	-
3452	Bolts, nuts, rivets, and washers	332.54	336.88	396.83	402.58	-	8.66	8.75	9.25	9.25	-
346	Metal forgings and stampings	382.18	394.42	451.34	454.96	-	9.85	9.96	10.57	10.63	-
3462	Iron and steel forgings	417.73	421.51	483.89	478.17	-	10.85	10.92	11.66	11.55	-
3465	Automotive stampings	145.04	474.56	554.52	565.34	-	11.47	11.66	12.35	12.48	-
3469	Metal stampings, nec	308.05	311.20	336.61	335.38	-	7.96	8.00	8.23	8.22	-
347	Metal services, nec	276.38	279.17	297.27	297.75	-	7.16	7.14	7.54	7.37	-
3471	Plating and polishing	271.81	275.26	292.82	292.25	-	7.06	7.04	7.23	7.27	-
3479	Metal coating and allied services	288.28	289.30	309.42	310.90	-	7.43	7.38	7.64	7.62	-
348	Ordnance and accessories, nec	366.60	373.18	397.39	403.19	-	9.17	9.26	9.74	9.81	-
3483	Ammunition, exc. for small arms, nec	346.32	347.94	371.85	371.28	-	8.53	8.57	9.25	9.19	-
349	Misc. fabricated metal products	322.03	324.48	352.15	351.74	-	8.43	8.45	8.61	8.60	-
3494	Valves and pipe fittings	336.52	342.76	372.49	374.74	-	8.95	9.02	9.22	9.23	-
3496	Misc. fabricated wire products	285.53	283.58	311.30	309.78	-	7.34	7.29	7.63	7.63	-
35	MACHINERY, EXCEPT ELECTRICAL	365.98	371.45	399.08	399.75	407.12	9.36	9.38	9.71	9.75	9.81
351	Engines and turbines	448.85	461.68	473.22	481.14	-	11.51	11.60	11.92	12.15	-
3511	Turbines and turbine generator sets	453.78	456.34	452.41	460.58	-	11.26	11.24	11.66	11.84	-
3519	Internal combustion engines, nec	445.41	465.31	482.80	492.00	-	11.66	11.81	12.04	12.30	-
352	Farm and garden machinery	409.89	402.87	422.34	424.85	-	10.51	10.33	10.43	10.49	-
3523	Farm machinery and equipment	424.79	417.49	442.38	447.17	-	10.92	10.76	10.55	10.56	-
353	Construction and related machinery	392.56	398.73	424.44	420.80	-	10.17	10.12	10.43	10.52	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
32	STONE, CLAY, AND GLASS PRODUCTS	40.6	40.5	42.4	42.1	41.8	3.6	3.5	4.9	4.7	-
321	Flat glass	41.1	42.6	45.3	44.2	-	3.1	3.5	6.0	5.1	-
322	Glass and glassware, pressed or blown	40.3	40.5	40.9	41.3	-	3.7	3.9	4.2	4.3	-
3221	Glass containers	40.7	40.8	40.9	41.0	-	4.6	4.9	4.7	4.8	-
3229	Pressed and blown glass, nec	39.8	40.1	40.8	41.6	-	2.5	2.4	3.6	3.6	-
323	Products of purchased glass	40.6	40.5	41.5	41.6	-	3.1	2.6	3.9	4.0	-
324	Cement, hydraulic	41.1	41.4	42.9	42.1	-	2.3	2.3	3.8	2.9	-
325	Structural clay products	40.0	40.6	42.8	42.3	-	2.6	2.7	4.2	3.9	-
326	Pottery and related products	38.2	39.3	39.1	39.0	-	1.8	1.9	2.3	2.3	-
327	Concrete, gypsum, and plaster products	41.9	40.8	43.8	43.3	-	5.2	4.7	6.6	6.4	-
3271	Concrete block and brick	43.6	43.3	45.5	45.3	-	5.7	5.4	7.4	7.1	-
3272	Concrete products, nec	41.6	40.9	43.6	43.2	-	4.2	3.8	5.8	5.4	-
3273	Ready-mixed concrete	41.4	39.3	43.3	42.3	-	5.6	4.6	6.8	6.6	-
329	Misc. nonmetallic mineral products	39.5	40.3	42.4	42.0	-	2.4	2.5	4.1	3.9	-
3291	Abrasive products	37.6	37.8	41.6	41.2	-	1.6	1.8	3.0	2.9	-
3292	Asbestos products	38.8	40.8	43.9	44.3	-	2.3	2.7	4.9	4.9	-
33	PRIMARY METAL INDUSTRIES	37.8	38.3	41.4	41.2	41.7	1.8	1.8	3.7	3.6	-
331	Blast furnace and basic steel products	36.5	36.8	40.8	40.2	-	1.3	1.3	2.9	2.8	-
3312	Blast furnaces and steel mills	36.1	36.3	40.6	39.8	-	1.2	1.2	2.8	2.7	-
3317	Steel pipe and tubes	38.4	39.3	41.0	41.3	-	2.1	2.7	3.2	3.2	-
332	Iron and steel foundries	36.5	37.4	41.0	41.1	-	1.2	1.3	3.6	3.5	-
3321	Gray iron foundries	35.6	37.6	41.6	41.8	-	1.2	1.4	4.2	4.1	-
3322	Malleable iron foundries	36.0	36.6	41.4	40.6	-	1.2	1.4	4.1	3.2	-
3325	Steel foundries, nec	35.2	36.6	38.5	38.9	-	1.0	1.1	1.8	1.8	-
333	Primary nonferrous metals	40.4	41.2	41.4	41.9	-	2.5	2.9	3.5	3.5	-
3334	Primary aluminum	40.8	40.4	41.1	41.7	-	2.8	2.8	4.0	3.8	-
335	Nonferrous rolling and drawing	40.0	40.6	43.0	42.8	-	2.9	2.8	5.2	5.0	-
3351	Copper rolling and drawing	36.6	40.5	43.6	43.8	-	1.9	2.0	4.8	5.1	-
3353	Aluminum sheet, plate and foil	40.5	41.9	41.9	42.5	-	4.5	4.9	6.4	5.7	-
3357	Nonferrous wire drawing and insulating	39.8	40.1	43.2	42.7	-	2.3	2.2	5.0	4.9	-
336	Nonferrous foundries	36.8	39.3	41.5	41.8	-	1.9	2.1	3.8	4.0	-
3361	Aluminum foundries	38.7	39.4	42.0	42.5	-	1.9	2.1	4.0	4.2	-
34	FABRICATED METAL PRODUCTS	39.1	39.4	41.4	41.3	41.6	1.9	1.9	3.6	3.5	-
341	Metal cans and shipping containers	42.1	41.8	42.7	42.6	-	3.8	3.6	5.7	5.0	-
3411	Metal cans	42.0	42.4	42.7	42.8	-	4.0	3.8	6.0	5.2	-
342	Cutlery, hand tools, and hardware	39.0	39.2	41.5	41.4	-	1.4	1.3	3.3	3.2	-
3423, 5	Hand and edge tools, and hand saws and blades	38.8	38.9	40.8	40.7	-	1.4	1.5	2.6	2.3	-
3429	Hardware, nec	39.0	39.3	41.8	41.7	-	1.3	1.4	3.9	3.8	-
343	Plumbing and heating, except electric	39.1	39.6	40.6	40.3	-	1.5	1.6	2.8	2.3	-
3432	Plumbing fittings and brass goods	38.1	38.8	40.4	39.8	-	.8	.9	2.9	2.3	-
3433	Heating equipment, except electric	39.7	40.2	40.2	40.1	-	2.0	2.3	2.3	1.6	-
344	Fabricated structural metal products	39.3	39.5	40.8	40.5	-	2.2	2.2	3.2	3.1	-
3441	Fabricated structural metal	40.2	39.5	41.1	41.1	-	2.7	2.3	3.3	3.4	-
3442	Metal doors, sash, and trim	39.2	39.5	40.4	40.2	-	2.0	2.2	3.0	2.8	-
3443	Fabricated plate work (boiler shops)	38.9	39.8	41.4	40.5	-	2.2	2.3	3.3	3.3	-
3444	Sheet metal work	38.6	38.9	40.0	40.0	-	1.9	2.0	3.0	2.8	-
3446	Architectural metal work	40.9	41.1	41.5	41.9	-	2.4	2.7	2.7	2.9	-
345	Screw machine products, bolts, etc.	38.4	38.4	41.8	42.2	-	1.3	1.2	3.7	3.9	-
3451	Screw machine products	38.4	38.4	40.8	40.9	-	1.4	1.3	3.2	3.4	-
3452	Bolts, nuts, rivets, and washers	38.4	38.5	42.9	43.5	-	1.2	1.1	4.3	4.5	-
346	Metal forgings and stampings	38.8	39.6	42.7	42.8	-	1.5	1.9	4.7	4.7	-
3462	Iron and steel forgings	38.5	38.6	41.5	41.4	-	1.5	1.5	3.6	3.6	-
3465	Automotive stampings	38.8	40.7	44.9	45.3	-	1.4	2.2	6.3	6.6	-
3469	Metal stampings, nec	38.7	38.9	40.9	40.8	-	1.6	1.7	3.5	3.3	-
347	Metal services, nec	38.6	39.1	40.5	40.4	-	2.2	2.4	3.4	3.3	-
3471	Plating and polishing	38.5	39.1	40.5	40.2	-	2.2	2.3	3.3	3.1	-
3479	Metal coating and allied services	38.6	39.2	40.5	40.8	-	2.4	2.5	3.8	3.9	-
348	Ordnance and accessories, nec	40.0	40.3	40.8	41.1	-	2.1	2.3	2.3	2.6	-
3483	Ammunition, exc. for small arms, nec	40.6	40.6	40.2	40.4	-	1.8	1.8	1.6	1.6	-
349	Misc. fabricated metal products	38.2	38.4	40.9	40.9	-	1.4	1.4	2.9	2.8	-
3494	Valves and pipe fittings	37.6	38.0	40.4	40.6	-	1.1	1.2	2.8	2.8	-
3496	Misc. fabricated wire products	38.9	38.9	40.8	40.6	-	1.7	1.4	3.0	2.7	-
35	MACHINERY, EXCEPT ELECTRICAL	39.1	39.6	41.1	41.0	41.5	1.9	2.0	3.2	3.1	-
351	Engines and turbines	39.0	39.8	39.7	39.6	-	1.6	1.9	3.2	3.4	-
3511	Turbines and turbine generator sets	40.3	40.6	38.8	38.9	-	3.3	3.2	3.0	3.1	-
3519	Internal combustion engines, nec	38.2	39.4	40.1	40.0	-	.6	1.2	3.3	3.5	-
352	Farm and garden machinery	39.0	39.0	40.3	40.5	-	2.5	1.2	2.4	2.5	-
3523	Farm machinery and equipment	38.9	38.8	40.4	40.8	-	2.7	1.2	2.7	2.7	-
353	Construction and related machinery	38.6	39.4	40.5	40.0	-	1.5	1.7	2.5	2.4	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983 ^P	Nov. 1983 ^P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983 ^P	Nov. 1983 ^P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	37.7	38.9	40.7	40.3	-	1.3	1.3	2.2	1.8	-
3532	Mining machinery	38.7	39.4	39.8	39.1	-	1.0	1.5	2.1	1.5	-
3533	Oil field machinery	39.3	40.9	40.4	40.3	-	1.9	2.1	2.7	3.0	-
3535	Conveyers and conveying equipment	38.4	38.2	40.3	38.8	-	1.4	1.4	2.6	2.2	-
3537	Industrial trucks and tractors	37.6	36.6	40.7	40.1	-	1.2	1.3	3.3	3.1	-
354	Metalworking machinery	38.9	39.4	41.2	41.5	-	2.2	2.4	3.7	3.9	-
3541	Machine tools, metal cutting types	36.7	37.4	39.8	39.9	-	1.2	1.2	2.0	2.1	-
3542	Machine tools, metal forming types	38.5	38.4	38.4	39.7	-	1.0	1.5	3.0	3.7	-
3544	Special dies, tools, jigs, and fixtures	40.1	40.7	42.0	42.4	-	3.2	3.6	4.7	4.9	-
3545	Machine tool accessories	37.9	38.0	40.9	41.2	-	1.2	1.2	3.1	3.3	-
3546	Power driven hand tools	38.9	39.0	40.5	41.0	-	2.3	2.0	3.2	3.2	-
355	Special industry machinery	39.7	39.7	41.3	41.1	-	2.1	2.1	3.3	3.2	-
3551	Food products machinery	39.6	39.4	41.1	40.7	-	2.3	2.1	3.1	2.7	-
3552	Textile machinery	38.5	38.2	40.5	41.8	-	1.5	1.6	2.5	3.3	-
3555	Printing trades machinery	40.6	40.4	42.1	40.8	-	2.6	2.6	3.6	3.1	-
356	General industrial machinery	38.7	39.2	41.2	41.3	-	1.5	1.7	3.2	3.2	-
3561	Pumps and pumping equipment	38.2	38.4	41.2	40.7	-	1.2	1.2	3.0	2.8	-
3562	Ball and roller bearings	39.8	40.5	42.9	43.1	-	1.8	2.3	4.4	4.1	-
3563	Air and gas compressors	39.2	40.9	40.5	40.8	-	2.0	2.6	2.4	2.6	-
3564	Blowers and fans	39.2	39.8	40.6	40.5	-	1.7	1.8	3.0	2.6	-
3566	Speed changers, drives, and gears	35.7	36.8	40.6	40.5	-	.8	.5	3.0	2.9	-
3568	Power transmission equipment, nec	37.3	37.1	40.3	41.7	-	1.0	.7	2.9	3.4	-
357	Office and computing machines	40.7	41.5	42.4	42.0	-	2.1	2.4	3.4	3.2	-
3573	Electronic computing equipment	40.8	41.7	42.6	42.1	-	2.3	2.7	3.6	3.4	-
358	Refrigeration and service machinery	39.1	39.1	41.2	41.0	-	1.5	1.6	3.4	2.9	-
3585	Refrigeration and heating equipment	39.1	39.2	41.2	41.0	-	1.4	1.5	3.5	3.1	-
359	Misc. machinery, except electrical	38.5	38.7	40.6	40.8	-	1.9	2.0	3.1	3.2	-
3592	Carburetors, pistons, rings, valves	37.5	37.7	41.3	41.9	-	1.2	.7	3.5	3.6	-
3599	Machinery, except electrical, nec	38.7	38.8	40.5	40.6	-	2.0	2.2	3.0	3.2	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	39.2	39.6	41.0	41.0	41.3	1.8	1.9	3.2	3.1	-
361	Electric distributing equipment	38.3	39.2	40.4	40.6	-	1.6	1.8	2.8	2.5	-
3612	Transformers	38.6	39.5	40.7	41.4	-	1.8	1.8	3.0	2.9	-
3613	Switchgear and switchboard apparatus	38.0	39.0	40.2	40.0	-	1.5	1.8	2.6	2.2	-
362	Electrical industrial apparatus	38.5	38.6	41.0	40.5	-	1.4	1.4	3.1	2.9	-
3621	Motors and generators	39.1	39.4	42.0	41.1	-	1.5	1.5	3.6	3.3	-
3622	Industrial controls	37.7	37.8	40.1	40.2	-	1.3	1.2	2.4	2.5	-
363	Household appliances	36.5	39.4	41.3	41.0	-	1.7	2.0	3.4	2.8	-
3632	Household refrigerators and freezers	36.7	39.0	44.9	41.0	-	1.2	1.0	0.4	1.9	-
3633	Household laundry equipment	38.2	38.4	40.2	40.3	-	.8	.6	1.3	1.2	-
3634	Electric housewares and fans	39.5	40.9	40.9	40.8	-	2.3	3.3	3.8	3.5	-
364	Electric lighting and wiring equipment	39.0	39.5	41.0	40.8	-	1.4	1.8	3.3	3.2	-
3641	Electric lamps	40.0	41.1	41.1	40.7	-	1.5	1.6	2.5	2.5	-
3643	Current-carrying wiring devices	38.3	38.7	40.7	40.7	-	1.4	1.8	3.3	3.6	-
3644	Noncurrent-carrying wiring devices	38.6	38.8	40.3	41.1	-	1.5	1.2	2.7	2.5	-
3645	Residential lighting fixtures	38.9	39.7	40.3	40.3	-	1.4	2.1	2.9	2.3	-
365	Radio and TV receiving equipment	38.9	38.8	40.1	40.7	-	1.4	1.4	3.1	3.0	-
3651	Radio and TV receiving sets	38.6	38.7	40.5	41.1	-	1.1	1.0	3.4	3.2	-
366	Communication equipment	40.2	40.4	41.2	41.0	-	2.1	2.2	2.8	2.7	-
3661	Telephone and telegraph apparatus	39.4	39.2	42.2	41.7	-	1.7	1.7	3.4	2.9	-
3662	Radio and TV communication equipment	40.6	41.0	40.7	40.6	-	2.3	2.4	2.4	2.6	-
367	Electronic components and accessories	39.2	39.6	41.0	41.1	-	2.0	2.0	3.2	3.2	-
3671-3	Electronic tubes	40.1	40.6	41.1	41.3	-	1.7	1.9	2.1	2.2	-
3674	Semiconductors and related devices	39.0	40.0	41.7	41.5	-	2.3	2.4	3.7	3.5	-
3679	Electronic components, nec	39.9	39.9	41.0	41.3	-	2.0	2.0	3.4	3.3	-
369	Misc. electrical equipment and supplies	39.3	39.7	41.6	42.6	-	1.6	1.7	3.9	4.2	-
3691	Storage batteries	38.6	39.4	42.0	44.8	-	2.2	2.2	3.5	4.7	-
3694	Engine electrical equipment	39.6	39.3	41.8	42.6	-	1.3	1.5	4.5	4.7	-
37	TRANSPORTATION EQUIPMENT	40.5	41.2	42.8	42.5	42.7	2.6	3.1	4.7	4.5	-
371	Motor vehicles and equipment	40.2	41.0	44.4	44.0	-	2.0	2.6	5.9	5.6	-
3711	Motor vehicles and car bodies	40.3	41.6	45.0	44.1	-	2.3	3.3	6.5	6.0	-
3713	Truck and bus bodies	38.4	38.3	40.7	40.1	-	.5	.2	2.8	2.9	-
3714	Motor vehicle parts and accessories	40.3	40.8	44.5	44.6	-	1.9	2.1	5.8	5.8	-
3715	Truck trailers	36.9	40.7	41.3	40.7	-	1.5	1.9	3.8	3.1	-
372	Aircraft and parts	41.5	41.8	41.3	41.4	-	3.6	3.6	3.5	3.5	-
3721	Aircraft	41.2	41.3	40.5	40.7	-	2.9	2.8	2.6	2.6	-
3724	Aircraft engines and engine parts	41.0	41.5	42.1	42.0	-	4.0	4.4	4.6	4.6	-
3728	Aircraft equipment, nec	42.6	43.0	41.8	42.1	-	4.3	4.1	3.9	3.8	-
373	Ship and boat building and repairing	39.9	41.1	40.1	40.0	-	2.7	3.6	2.8	2.5	-
3731	Ship building and repairing	40.2	41.7	40.3	40.1	-	2.9	4.2	3.1	2.7	-
3732	Boat building and repairing	38.5	38.5	39.2	39.7	-	2.0	1.0	2.0	2.0	-
374	Railroad equipment	37.7	38.9	-	-	-	1.6	1.4	-	-	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	\$459.50	\$482.77	\$492.24	\$494.91	-	\$11.29	\$11.44	\$11.72	\$11.84	-
3761	Guided missiles and space vehicles	475.04	501.07	505.06	509.04	-	11.53	11.68	11.94	12.12	-
379	Miscellaneous transportation equipment	370.15	370.88	395.79	402.19	-	9.54	9.89	9.87	9.98	-
3792	Travel trailers and campers	296.91	312.34	325.14	337.90	-	7.96	8.05	8.38	8.49	-
	INSTRUMENTS AND RELATED PRODUCTS	327.10	331.57	353.01	348.75	\$350.47	8.26	8.31	8.61	8.59	\$8.59
381	Engineering and scientific instruments	349.86	355.25	376.74	375.83	-	8.66	8.75	9.10	9.10	-
382	Measuring and controlling devices	326.23	334.03	353.87	349.21	-	8.28	8.33	8.61	8.58	-
3822	Environmental controls	296.44	303.03	328.03	326.40	-	7.74	7.81	8.04	8.00	-
3823	Process control instruments	325.31	337.37	340.10	339.23	-	8.32	8.33	8.61	8.61	-
3825	Instruments to measure electricity	350.14	352.55	380.28	368.33	-	8.71	8.77	8.99	8.94	-
383	Optical instruments and lenses	347.38	358.57	404.66	391.62	-	8.75	8.81	9.26	9.28	-
384	Medical instruments and supplies	276.44	284.25	299.15	299.95	-	7.07	7.16	7.46	7.48	-
3841	Surgical and medical instruments	283.38	286.63	299.36	300.85	-	7.12	7.13	7.41	7.54	-
3842	Surgical appliances and supplies	274.25	285.84	300.85	300.24	-	7.05	7.20	7.54	7.45	-
385	Ophthalmic goods	234.84	237.78	259.69	253.34	-	6.19	6.16	6.46	6.43	-
386	Photographic equipment and supplies	437.47	426.53	466.58	462.97	-	10.67	10.69	11.27	11.21	-
387	Watches, clocks, and watchcases	242.96	244.33	255.20	251.52	-	6.12	6.17	6.38	6.40	-
	MISCELLANEOUS MANUFACTURING INDUSTRIES	253.50	256.50	270.58	272.63	271.95	6.50	6.56	6.85	6.95	6.85
391	Jewelry, silverware, and plated ware	274.03	278.00	283.67	293.14	-	6.92	6.95	7.33	7.44	-
3911	Jewelry, precious metal	271.75	274.03	274.10	289.06	-	6.95	6.92	7.29	7.45	-
393	Musical instruments	259.89	261.74	260.96	268.26	-	6.53	6.56	6.59	6.64	-
394	Toys and sporting goods	230.62	235.90	248.92	251.07	-	5.99	6.08	6.27	6.23	-
3942, 4	Dolls, games, toys, and children's vehicles	215.63	221.95	231.47	233.78	-	5.63	5.75	5.86	5.83	-
3949	Sporting and athletic goods, nec	246.91	249.85	267.73	269.73	-	6.38	6.39	6.71	6.66	-
395	Pens, pencils, office and art supplies	259.56	274.33	283.29	288.05	-	6.79	6.91	7.10	7.13	-
396	Costume jewelry and notions	210.98	214.68	221.16	214.89	-	5.48	5.62	5.82	5.70	-
3961	Costume jewelry	194.56	201.02	196.91	186.68	-	5.12	5.29	5.38	5.20	-
399	Miscellaneous manufactures	274.17	274.17	298.45	301.20	-	7.03	7.03	7.48	7.53	-
3993	Signs and advertising displays	299.51	297.94	327.65	332.90	-	7.66	7.62	8.09	8.24	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	312.05	317.60	328.86	325.57	329.20	7.88	8.00	8.14	8.13	8.23
201	Meat products	295.81	302.44	291.27	287.10	-	7.47	7.58	7.33	7.25	-
2011	Meat packing plants	373.38	382.59	348.99	344.03	-	8.89	8.96	8.45	8.33	-
2013	Sausages and other prepared meats	355.61	366.51	364.00	357.11	-	8.98	9.14	9.01	8.95	-
2016	Poultry dressing plants	190.32	191.36	203.61	202.39	-	5.13	5.20	5.33	5.34	-
202	Dairy products	334.53	339.46	361.62	350.27	-	8.26	8.32	8.61	8.67	-
2022	Cheese, natural and processed	307.66	310.08	328.42	324.32	-	7.93	7.89	8.19	8.19	-
2026	Fluid milk	346.57	355.68	379.64	367.69	-	8.44	8.55	8.87	8.86	-
203	Preserved fruits and vegetables	271.91	266.70	299.30	285.71	-	6.99	7.00	7.30	7.27	-
2032	Canned specialties	356.15	333.63	399.63	370.60	-	8.50	8.32	8.65	8.50	-
2033	Canned fruits and vegetables	268.88	262.05	298.49	281.32	-	6.93	6.86	7.21	7.14	-
2037	Frozen fruits and vegetables	258.11	250.99	281.69	262.82	-	6.55	6.64	7.06	6.99	-
204	Grain mill products	358.85	403.12	428.30	419.34	-	9.19	9.31	9.69	9.64	-
2041	Flour and other grain mill products	417.46	421.47	480.55	468.17	-	9.36	9.45	9.97	9.94	-
2048	Prepared feeds, nec	315.52	320.42	322.90	322.59	-	7.27	7.40	7.44	7.45	-
205	Bakery products	324.80	332.26	345.57	346.86	-	8.57	8.63	9.07	9.08	-
2051	Bread, cake, and related products	324.86	329.12	343.45	343.82	-	8.64	8.73	9.11	9.12	-
2052	Cookies and crackers	327.60	343.56	350.22	357.40	-	8.40	8.40	8.98	8.98	-
206	Sugar and confectionery products	311.06	316.88	324.01	320.95	-	7.55	7.71	8.02	7.79	-
2061.3	Cane and beet sugar	360.80	390.89	406.16	376.23	-	8.20	8.61	9.74	8.77	-
2065	Confectionery products	266.34	259.20	272.05	274.44	-	6.76	6.75	6.87	6.81	-
207	Fats and oils	351.01	374.98	397.98	379.90	-	8.28	8.37	9.47	8.96	-
208	Beverages	399.80	406.80	427.18	425.06	-	9.97	10.17	10.47	10.60	-
2082	Malt beverages	551.26	576.55	591.31	612.00	-	13.38	13.63	14.13	14.40	-
2086	Bottled and canned soft drinks	284.36	285.72	322.79	303.38	-	7.31	7.46	7.97	7.88	-
209	Misc. foods and kindred products	254.88	257.52	275.23	273.38	-	6.87	6.96	7.32	7.29	-
21	TOBACCO MANUFACTURES	370.50	386.08	380.16	377.12	420.62	9.50	10.16	9.90	9.77	10.73
211	Cigarettes	455.66	468.71	478.04	471.61	-	12.26	12.27	12.68	12.61	-
22	TEXTILE MILL PRODUCTS	227.56	231.47	257.92	257.09	257.50	5.88	5.92	6.23	6.24	6.25
221	Weaving mills, cotton	238.55	245.20	270.03	272.16	-	6.07	6.13	6.46	6.48	-
222	Weaving mills, synthetics	246.31	247.04	276.14	277.72	-	6.22	6.27	6.67	6.66	-
223	Weaving and finishing mills, wool	233.98	243.04	274.14	269.12	-	6.19	6.28	6.67	6.58	-
224	Narrow fabric mills	214.86	216.03	243.54	235.41	-	5.61	5.67	5.94	5.90	-
225	Knitting mills	204.92	206.22	228.23	227.70	-	5.45	5.47	5.72	5.75	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	40.7	42.2	42.0	41.8	-	3.5	3.9	4.1	3.7	-
3761	Guided missiles and space vehicles	41.2	42.9	42.3	42.0	-	3.7	4.2	4.6	4.0	-
379	Miscellaneous transportation equipment	38.8	37.5	40.1	40.3	-	2.2	3.5	3.1	2.9	-
3792	Travel trailers and campers	37.3	38.8	38.8	39.8	-	2.0	1.7	2.3	2.4	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	39.6	39.9	41.0	40.6	40.8	1.5	1.7	2.4	2.2	-
381	Measuring and controlling devices	40.4	40.6	41.4	41.3	-	2.1	2.2	2.8	2.6	-
382	Environmental controls	39.4	40.1	41.1	40.7	-	1.0	1.1	2.0	2.0	-
3822	Process control instruments	38.3	38.8	40.8	40.8	-	.9	1.1	2.9	2.7	-
3823	Instruments to measure electricity	39.1	40.5	39.5	39.4	-	1.0	1.1	1.3	1.4	-
3825	Optical instruments and lenses	40.2	40.2	42.3	41.2	-	.9	.8	1.5	1.6	-
383	Medical instruments and supplies	39.7	40.7	43.7	42.2	-	1.7	1.9	3.2	2.6	-
384	Surgical and medical instruments	39.1	39.7	40.1	40.1	-	1.6	2.0	2.6	2.3	-
3841	Surgical appliances and supplies	39.8	40.2	40.4	39.9	-	1.9	2.0	2.5	2.4	-
3842	Ophthalmic goods	38.5	39.7	39.9	40.3	-	1.5	2.2	2.8	2.4	-
385	Photographic equipment and supplies	38.0	38.6	40.2	39.4	-	1.1	1.3	2.3	1.4	-
386	Watches, clocks, and watchcases	41.0	39.9	41.4	41.3	-	2.2	2.2	2.5	2.3	-
387	.....	39.7	39.6	40.0	39.3	-	2.4	2.5	3.2	2.8	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	39.0	39.1	39.5	39.8	39.7	1.9	2.1	2.3	2.6	-
391	Jewelry, precious metal	39.6	40.0	38.7	39.4	-	2.4	2.9	1.8	2.6	-
3911	Musical instruments	39.1	39.6	37.6	38.8	-	2.5	3.1	1.5	2.9	-
393	Toys and sporting goods	39.6	33.9	39.6	40.4	-	1.5	1.7	1.8	1.8	-
394	Dolls, games, toys, and children's vehicles	38.5	38.8	39.7	40.3	-	1.4	1.4	2.3	2.8	-
3942.4	Sporting and athletic goods, nec	38.3	38.6	39.5	40.1	-	1.0	1.0	2.5	3.2	-
3949	Pens, pencils, office and art supplies	38.7	39.1	39.9	40.5	-	1.9	1.8	2.1	2.4	-
395	Costume jewelry and notions	39.7	39.7	39.9	40.4	-	1.3	1.6	2.1	2.3	-
396	Costume jewelry	38.5	38.2	38.0	37.7	-	2.5	3.4	2.8	2.7	-
3961	Miscellaneous manufactures	38.0	38.0	36.6	35.9	-	3.1	4.9	3.0	2.9	-
399	Signs and advertising displays	39.0	39.0	39.9	40.0	-	2.1	2.0	2.4	2.7	-
3993	.....	39.1	39.1	40.5	40.4	-	2.1	2.0	2.9	3.0	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	39.6	39.7	40.4	39.8	40.0	3.8	3.6	4.5	3.9	-
201	Meat packing plants	39.6	39.9	39.9	39.6	-	3.7	3.8	3.9	3.9	-
2011	Sausages and other prepared meats	42.0	42.7	41.3	41.3	-	4.8	4.8	4.8	4.9	-
2013	Poultry dressing plants	39.6	40.1	40.4	39.9	-	3.4	3.5	3.8	3.7	-
2016	Dairy products	37.1	36.8	38.2	37.9	-	2.7	3.2	2.9	2.5	-
202	Cheese, natural and processed	40.5	40.8	42.0	40.4	-	3.5	3.7	4.5	3.7	-
2022	Fluid milk	38.8	39.3	40.1	39.6	-	3.1	3.5	3.7	3.4	-
2026	Preserved fruits and vegetables	41.3	41.6	42.8	41.5	-	3.9	3.9	5.0	4.1	-
203	Canned specialties	30.9	38.1	41.0	39.3	-	4.3	3.1	6.1	4.4	-
2032	Canned fruits and vegetables	41.9	40.1	46.2	43.6	-	6.7	3.9	9.5	7.0	-
2033	Frozen fruits and vegetables	38.8	38.2	41.4	39.4	-	4.5	3.2	7.0	4.8	-
2037	Grain mill products	39.1	37.8	39.9	37.6	-	4.4	3.1	5.6	4.0	-
204	Flour and other grain mill products	43.4	43.3	44.2	43.5	-	5.8	5.1	6.4	5.7	-
2041	Prepared feeds, nec	44.6	44.6	48.2	47.1	-	6.9	5.9	8.5	7.2	-
2048	Bakery products	43.4	43.3	43.4	43.3	-	5.4	5.2	6.1	6.0	-
205	Bread, cake, and related products	37.9	38.5	38.1	38.2	-	2.9	3.2	3.1	3.0	-
2051	Cookies and crackers	37.6	37.7	37.7	37.7	-	2.9	3.3	3.2	3.1	-
2052	Sugar and confectionery products	39.0	40.9	39.0	39.8	-	2.8	3.2	2.7	2.6	-
206	Cane and beet sugar	41.2	41.1	40.4	41.2	-	3.8	3.7	3.3	3.8	-
2061.3	Confectionery products	44.0	45.4	41.7	42.9	-	6.3	7.2	5.8	6.2	-
2065	Fats and oils	38.4	38.4	39.6	40.3	-	2.4	1.9	2.1	2.7	-
207	Beverages	43.6	44.8	43.4	42.4	-	5.7	6.0	5.6	5.2	-
208	Malt beverages	40.1	40.0	40.8	40.1	-	3.6	3.4	4.2	3.5	-
2082	Bottled and canned soft drinks	41.2	42.3	41.7	42.5	-	4.8	5.6	5.2	5.4	-
2086	Misc. foods and kindred products	38.5	38.3	40.5	38.5	-	2.7	2.4	3.8	2.5	-
209	.....	37.1	37.0	37.6	37.5	-	2.7	2.6	3.4	3.3	-
TOBACCO MANUFACTURES											
21	Cigarettes	39.0	38.0	38.4	38.6	39.2	1.8	1.6	1.3	1.0	-
211	.....	38.0	38.2	37.7	37.4	-	1.4	1.5	.9	.6	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	38.7	39.1	41.4	41.2	41.2	2.4	2.6	4.1	4.0	-
221	Weaving mills, synthetics	39.3	40.0	41.8	42.0	-	2.8	3.2	4.4	4.5	-
222	Weaving and finishing mills, wool	39.6	39.4	41.4	41.7	-	2.2	2.4	4.0	4.1	-
223	Narrow fabric mills	37.8	38.7	41.1	40.9	-	2.8	3.2	4.1	3.7	-
224	Knitting mills	38.3	38.1	41.0	39.9	-	1.5	1.8	2.9	2.5	-
225	.....	37.6	37.7	39.9	39.6	-	2.2	2.2	3.3	3.2	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	37.5	38.1	40.9	39.9	-	1.7	2.1	3.9	3.2	-
2252	Hosiery, nec	38.0	37.6	38.6	38.1	-	2.3	2.1	2.3	2.1	-
2253	Knit outerwear mills	37.0	36.8	38.8	38.3	-	2.3	2.1	3.2	2.9	-
2254	Knit underwear mills	35.9	37.4	38.2	38.4	-	1.3	1.9	1.6	1.8	-
2257	Circular knit fabric mills	39.7	39.7	43.0	43.9	-	3.3	3.1	5.0	6.0	-
226	Textile finishing, except wool	39.2	40.3	42.1	41.5	-	2.7	3.1	4.4	4.3	-
2261	Finishing plants, cotton	38.6	40.4	42.5	42.2	-	2.4	3.2	4.4	4.5	-
2262	Finishing plants, synthetics	38.8	39.0	41.1	40.2	-	2.6	2.9	4.2	4.0	-
227	Floor covering mills	39.7	40.9	43.4	42.1	-	2.4	2.8	3.7	5.1	-
228	Yarn and thread mills	38.4	38.9	42.0	41.6	-	2.5	2.5	4.4	4.1	-
2281	Yarn mills, except wool	38.8	39.3	42.9	42.4	-	2.6	2.7	5.0	4.6	-
2282	Throwing and winding mills	36.5	37.2	38.6	38.4	-	1.9	1.9	3.1	2.9	-
229	Miscellaneous textile goods	40.2	40.2	43.3	43.4	-	2.8	2.8	4.3	4.5	-
APPAREL AND OTHER TEXTILE PRODUCTS											
23	Men's and boys' suits and coats	35.3	35.3	36.8	36.8	36.6	1.1	1.1	1.5	1.5	-
231	Men's and boys' suits and coats	34.7	34.8	37.0	36.9	-	.6	.6	1.0	.9	-
232	Men's and boys' furnishings	35.8	36.0	37.9	37.6	-	.9	1.0	1.3	1.2	-
2321	Men's and boys' shirts and nightwear	35.2	35.7	36.9	37.0	-	1.1	1.1	1.2	1.2	-
2327	Men's and boys' separate trousers	36.0	36.1	36.9	36.7	-	.9	1.2	1.2	1.1	-
2328	Men's and boys' work clothing	36.1	36.2	39.5	39.2	-	.9	1.0	1.6	1.2	-
233	Women's and misses' outerwear	33.1	33.2	34.5	34.4	-	1.0	1.0	1.2	1.3	-
2331	Women's and misses' blouses and waists	35.0	34.8	35.0	34.7	-	1.2	1.1	1.1	1.3	-
2335	Women's and misses' dresses	31.9	32.1	33.0	32.7	-	.9	.9	.8	1.1	-
2337	Women's and misses' suits and coats	31.9	33.0	34.7	33.9	-	.9	1.0	1.4	1.5	-
2339	Women's and misses' work clothing	34.0	33.6	35.7	36.0	-	1.0	1.0	1.4	1.5	-
234	Women's and children's undergarments	36.6	35.9	37.6	38.1	-	1.3	1.1	1.9	2.2	-
2341	Women's and children's underwear	36.8	35.8	37.9	38.3	-	1.4	1.1	2.0	2.3	-
2342	Brassieres and allied garments	35.8	36.3	36.1	37.1	-	.7	.9	1.3	1.5	-
236	Children's outerwear	36.0	35.7	35.7	36.1	-	1.2	1.1	.7	.8	-
2361	Children's dresses and blouses	36.1	35.7	34.3	35.0	-	1.2	.9	.7	.8	-
238	Misc. apparel and accessories	36.3	36.5	36.4	37.3	-	1.5	1.5	1.6	2.0	-
239	Misc. fabricated textile products	36.7	38.6	39.8	40.1	-	1.9	1.9	2.8	2.9	-
2391	Curtains and draperies	36.5	36.4	39.7	38.7	-	1.1	.9	1.9	1.7	-
2392	House furnishings, nec	39.5	39.8	40.3	41.2	-	3.0	3.0	3.3	4.0	-
2396	Automotive and apparel trimmings	39.8	40.4	41.3	41.9	-	2.0	2.4	4.1	4.3	-
PAPER AND ALLIED PRODUCTS											
26	Paper and pulp mills	41.7	41.9	43.5	43.1	43.0	4.1	4.0	5.4	5.1	-
261, 2, 6	Paper and pulp mills	43.8	44.1	45.3	45.1	-	5.8	5.6	7.3	7.1	-
262	Paper mills, except building paper	44.4	44.6	45.2	45.2	-	5.9	5.6	7.1	7.0	-
263	Paperboard mills	41.2	41.1	44.6	43.5	-	6.4	6.4	7.7	7.0	-
264	Misc. converted paper products	40.6	41.1	41.9	41.6	-	2.6	2.6	3.5	3.4	-
2641	Paper coating and glazing	42.0	43.1	43.1	42.1	-	2.5	2.5	3.6	3.2	-
2642	Envelopes	40.4	41.4	40.1	40.2	-	2.3	2.6	3.0	3.1	-
2643	Bags, except textile bags	40.8	41.6	42.4	42.6	-	3.1	3.1	3.8	3.8	-
265	Paperboard containers and boxes	40.9	40.8	43.1	42.7	-	3.4	3.1	4.9	4.6	-
2651	Folding paperboard boxes	40.5	40.2	41.8	42.0	-	3.0	2.7	3.9	4.0	-
2653	Corrugated and solid fiber boxes	41.5	41.3	44.9	44.4	-	4.1	3.7	6.1	5.6	-
2654	Sanitary food containers	40.1	41.4	42.6	42.1	-	2.5	2.5	4.3	3.8	-
PRINTING AND PUBLISHING											
27	Newspapers	37.1	37.3	38.0	38.0	38.2	2.4	2.4	3.1	3.0	-
271	Newspapers	33.2	33.4	34.1	34.1	-	1.5	1.5	1.9	2.0	-
272	Periodicals	37.4	37.3	36.6	36.9	-	2.8	2.5	2.1	2.4	-
273	Books	38.0	38.2	40.0	39.4	-	2.3	2.5	3.7	3.4	-
2731	Book publishing	36.7	37.0	37.5	37.1	-	1.1	1.1	1.5	1.8	-
2732	Book printing	39.6	39.7	42.9	42.2	-	4.0	4.2	6.0	5.4	-
274	Miscellaneous publishing	36.3	36.3	35.1	34.7	-	1.6	1.7	1.7	1.6	-
275	Commercial printing	38.5	38.6	39.5	39.4	-	2.9	2.9	3.9	3.5	-
2751	Commercial printing, letterpress	38.1	38.1	39.0	38.7	-	2.6	2.4	3.4	2.8	-
2752	Commercial printing, lithographic	38.6	38.8	39.7	39.6	-	2.8	2.9	3.9	3.7	-
276	Manifold business forms	39.5	40.9	41.7	42.0	-	2.3	3.0	4.0	4.2	-
278	Blankbooks and bookbinding	37.9	38.3	38.9	38.7	-	1.5	1.7	2.3	2.1	-
279	Printing trade service	37.8	38.0	39.0	38.9	-	3.4	3.4	4.0	4.0	-
CHEMICALS AND ALLIED PRODUCTS											
28	Industrial inorganic chemicals	40.8	41.0	41.9	41.7	42.3	2.7	2.7	3.5	3.4	-
281	Industrial inorganic chemicals	39.8	40.1	42.0	41.6	-	2.7	2.7	3.4	3.1	-
2819	Industrial inorganic chemicals, nec	39.5	39.7	42.4	41.8	-	2.8	2.6	3.6	3.1	-
282	Plastics materials and synthetics	40.6	40.9	42.5	42.3	-	2.5	2.4	3.5	3.7	-
2821	Plastics materials and resins	41.4	41.9	43.1	43.4	-	3.3	3.6	4.6	5.0	-
2824	Organic fibers, noncellulosic	40.0	40.5	42.7	42.1	-	1.7	1.6	2.9	3.0	-
283	Drugs	41.2	41.3	40.9	40.8	-	2.8	2.8	2.8	2.8	-
2834	Pharmaceutical preparations	40.6	40.9	40.4	40.2	-	2.9	2.8	2.8	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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
CHEMICALS AND ALLIED PRODUCTS—Cont'd											
284	Soap, cleaners, and toilet goods	\$382.94	\$380.95	\$399.78	\$402.11	-	\$9.34	\$9.36	\$9.61	\$9.76	-
2841	Soap and other detergents	525.14	514.11	550.29	553.63	-	12.10	12.04	12.45	12.64	-
2844	Toilet preparations	294.26	297.08	316.33	314.42	-	7.45	7.54	7.63	7.90	-
2842, 3	Polishing, sanitation, and finishing preparations	361.75	361.18	372.81	373.82	-	8.91	8.94	9.15	9.23	-
285	Paints and allied products	350.16	358.30	386.57	383.93	-	8.91	8.98	9.36	9.41	-
286	Industrial organic chemicals	507.55	515.30	553.84	550.78	-	12.23	12.24	12.91	12.99	-
2865	Cyclic crudes and intermediates	430.26	485.55	519.53	502.58	-	11.80	11.70	12.61	12.44	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	515.83	524.94	564.20	565.02	-	12.37	12.41	13.00	13.14	-
287	Agricultural chemicals	416.91	418.16	450.01	458.60	-	9.95	9.98	10.74	10.74	-
289	Miscellaneous chemical products	379.89	385.69	410.76	410.20	-	9.38	9.43	9.78	9.79	-
PETROLEUM AND COAL PRODUCTS											
29	Petroleum refining	555.59	564.26	591.85	584.73	\$594.03	12.57	12.68	13.30	13.35	\$13.47
291	Petroleum refining	598.97	611.56	647.59	640.33	-	13.46	13.53	14.52	14.52	-
295	Paving and roofing materials	425.72	410.55	437.78	424.69	-	9.61	9.57	9.86	9.79	-
RUBBER AND MISC. PLASTICS PRODUCTS											
30	Rubber and plastics footwear	304.18	305.28	338.55	339.42	338.13	7.74	7.81	8.03	8.12	8.07
301	Tires and inner tubes	457.23	479.76	557.22	560.01	-	11.71	11.73	12.55	12.67	-
302	Rubber and plastics footwear	196.66	195.56	193.07	205.13	-	5.16	5.16	5.19	5.37	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	320.38	320.32	351.90	348.19	-	8.07	8.13	8.28	8.33	-
306	Fabricated rubber products, nec	285.61	289.06	323.83	325.36	-	7.38	7.45	7.85	7.84	-
307	Miscellaneous plastics products	277.85	282.74	306.50	307.01	-	7.07	7.14	7.35	7.38	-
LEATHER AND LEATHER PRODUCTS											
31	Leather tanning and finishing	189.73	194.22	208.50	206.46	207.76	5.39	5.41	5.56	5.55	5.57
311	Leather tanning and finishing	281.69	281.01	302.94	293.83	-	7.26	7.28	7.48	7.42	-
314	Footwear, except rubber	180.43	183.89	195.73	193.45	-	5.17	5.18	5.29	5.30	-
3143	Men's footwear, except athletic	189.35	194.94	207.00	203.31	-	5.41	5.43	5.52	5.48	-
3144	Women's footwear, except athletic	172.53	178.27	190.99	189.49	-	5.03	5.05	5.19	5.22	-
316	Luggage	207.81	228.65	240.09	246.41	-	6.13	6.13	6.22	6.27	-
317	Handbags and personal leather goods	173.60	182.00	204.49	197.74	-	4.96	5.00	5.23	5.19	-
TRANSPORTATION AND PUBLIC UTILITIES											
	RAILROAD TRANSPORTATION:	406.62	413.01	429.46	432.13	431.12	10.48	10.59	10.90	10.94	10.97
4011	Class I railroads ²	478.40	515.39	568.53	-	-	11.64	12.07	13.13	-	-
LOCAL AND INTERURBAN PASSENGER TRANSIT											
41	Local and suburban transportation	247.57	243.21	256.88	254.25	-	7.26	7.26	7.60	7.50	-
411	Local and suburban transportation	311.65	308.50	312.42	313.88	-	7.85	7.89	8.20	8.26	-
413	Intercity highway transportation	431.27	428.95	445.74	447.26	-	11.47	11.50	11.95	11.77	-
TRUCKING AND WAREHOUSING											
42	Trucking and trucking terminals	394.11	393.95	408.20	407.94	-	10.29	10.34	10.44	10.46	-
421, 3	Trucking and trucking terminals	403.01	402.42	415.63	416.62	-	10.55	10.59	10.63	10.71	-
422	Public warehousing	275.58	276.82	291.39	293.25	-	7.03	7.19	7.51	7.17	-
46	PIPE LINES, EXCEPT NATURAL GAS	556.58	557.83	588.39	579.96	-	13.23	13.25	14.11	14.25	-
COMMUNICATION											
48	Telephone communication	413.70	421.48	434.91	442.00	-	10.50	10.59	10.90	11.05	-
481	Telephone communication	440.59	448.94	468.18	477.41	-	11.07	11.14	11.56	11.73	-
4817	Switchboard operating employees ³	331.20	343.55	336.63	358.75	-	9.60	9.76	9.93	10.25	-
4818	Line construction employees ⁴	548.27	560.29	580.79	606.06	-	12.84	13.03	13.26	13.65	-
483	Radio and television broadcasting	326.37	333.14	336.07	336.66	-	8.68	8.79	9.01	9.05	-
ELECTRIC, GAS, AND SANITARY SERVICES											
49	Electric services	455.95	462.73	481.90	488.04	-	11.04	11.15	11.64	11.76	-
491	Electric services	454.82	471.66	489.56	491.64	-	11.12	11.23	11.74	11.79	-
492	Gas production and distribution	408.41	412.68	430.68	445.63	-	10.01	10.09	10.53	10.79	-
493	Combination utility services	521.56	532.86	559.84	564.28	-	12.69	12.84	13.49	13.63	-
495	Sanitary services	357.96	363.74	371.36	383.14	-	8.91	8.85	8.97	9.21	-
WHOLESALE AND RETAIL TRADE											
50, 51	WHOLESALE TRADE	199.39	199.71	209.28	210.24	209.90	6.27	6.30	6.54	6.57	6.58
50	WHOLESALE TRADE-DURABLE GOODS	313.01	313.39	328.18	330.11	330.96	8.13	8.14	8.43	8.53	8.53
501	Motor vehicles and automotive equipment	313.12	313.53	330.06	332.42	-	8.07	8.06	8.42	8.48	-
502	Furniture and home furnishings	279.55	279.94	299.52	299.93	-	7.28	7.29	7.68	7.75	-
503	Lumber and construction materials	280.50	285.38	283.85	288.03	-	7.46	7.51	7.61	7.64	-
504	Sporting goods, toys, and hobby goods	311.59	310.06	320.78	323.14	-	8.01	7.93	8.08	8.16	-
		324.42	331.10	340.48	341.24	-	8.56	8.60	8.95	8.98	-

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	41.0	40.7	41.6	41.2	-	3.0	2.7	3.7	3.2	-
2841	Soap and other detergents	43.4	42.7	44.2	43.8	-	4.7	4.2	5.5	5.2	-
2844	Toilet preparations	39.5	39.4	40.4	39.8	-	2.1	2.1	2.9	2.3	-
2842, 3	Polishing, sanitation, and finishing preparations	40.6	40.4	40.7	40.5	-	2.5	2.0	2.7	2.5	-
285	Paints and allied products	39.5	39.9	41.3	40.8	-	1.7	1.9	3.2	2.6	-
286	Industrial organic chemicals	41.5	42.1	42.9	42.4	-	2.8	3.0	3.8	3.8	-
2865	Cyclic crudes and intermediates	40.7	41.5	41.2	40.4	-	2.6	2.8	3.6	3.4	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	41.7	42.3	43.4	43.0	-	2.9	3.1	3.9	3.9	-
287	Agricultural chemicals	41.9	41.9	41.9	42.7	-	3.3	3.4	4.3	4.7	-
289	Miscellaneous chemical products	40.5	40.9	42.0	41.9	-	2.5	2.5	3.7	3.4	-
	PETROLEUM AND COAL PRODUCTS	44.2	44.5	44.3	43.8	44.1	4.1	4.0	4.3	4.4	-
291	Petroleum refining	44.5	45.2	44.6	44.1	-	3.5	3.8	3.6	3.9	-
295	Paving and roofing materials	44.3	42.9	44.4	43.4	-	7.0	5.7	7.6	6.6	-
	RUBBER AND MISC. PLASTICS PRODUCTS	39.3	39.6	41.9	41.8	41.9	2.4	2.5	4.1	4.1	-
301	Tires and inner tubes	39.9	40.9	44.4	44.2	-	2.0	2.3	5.6	5.8	-
302	Rubber and plastics footwear	38.5	37.9	37.2	38.2	-	1.5	1.3	1.3	1.3	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	39.7	39.4	42.5	41.8	-	1.7	1.5	4.2	3.4	-
306	Fabricated rubber products, nec	38.7	38.8	41.2	41.5	-	2.1	2.1	3.5	3.6	-
307	Miscellaneous plastics products	39.3	39.6	41.7	41.6	-	2.7	2.8	4.1	4.0	-
	LEATHER AND LEATHER PRODUCTS	35.2	35.9	37.5	37.2	37.3	1.1	1.1	1.7	1.5	-
311	Leather tanning and finishing	38.6	38.6	40.5	39.6	-	2.2	1.9	3.6	2.9	-
314	Footwear, except rubber	34.9	35.5	37.0	36.5	-	.9	.9	1.3	1.1	-
3143	Men's footwear, except athletic	35.0	35.9	37.5	37.1	-	.4	.6	1.2	1.0	-
3144	Women's footwear, except athletic	34.5	35.3	36.8	36.3	-	1.1	1.3	1.4	1.0	-
316	Luggage	33.9	37.3	36.6	39.3	-	1.5	2.2	2.4	2.7	-
317	Handbags and personal leather goods	35.0	36.4	39.1	38.1	-	1.2	1.2	2.2	2.2	-
	TRANSPORTATION AND PUBLIC UTILITIES	38.8	39.0	39.4	39.5	39.3	-	-	-	-	-
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	41.1	42.7	43.3	-	-	-	-	-	-	-
	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.1	33.5	33.8	33.9	-	-	-	-	-	-
411	Local and suburban transportation	39.7	39.1	36.1	38.0	-	-	-	-	-	-
413	Intercity highway transportation	37.6	37.3	37.3	38.0	-	-	-	-	-	-
	TRUCKING AND WAREHOUSING	38.3	38.1	39.1	39.0	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	38.2	38.0	39.1	38.9	-	-	-	-	-	-
422	Public warehousing	39.2	38.5	38.8	40.9	-	-	-	-	-	-
	PIPE LINES, EXCEPT NATURAL GAS	42.1	42.1	41.7	40.7	-	-	-	-	-	-
	COMMUNICATION	39.4	39.8	39.9	40.0	-	-	-	-	-	-
481	Telephone communication	39.6	40.3	40.5	40.7	-	-	-	-	-	-
4817	Switchboard operating employees ³	34.5	35.2	33.9	35.0	-	-	-	-	-	-
4818	Line construction employees ⁴	42.7	43.0	43.8	44.4	-	-	-	-	-	-
483	Radio and television broadcasting	37.6	37.9	37.3	37.2	-	-	-	-	-	-
	ELECTRIC, GAS, AND SANITARY SERVICES	41.3	41.5	41.4	41.5	-	-	-	-	-	-
491	Electric services	41.8	42.0	41.7	41.7	-	-	-	-	-	-
492	Gas production and distribution	40.6	40.9	40.9	41.3	-	-	-	-	-	-
493	Combination utility services	41.1	41.5	41.5	41.4	-	-	-	-	-	-
495	Sanitary services	41.3	41.1	41.4	41.6	-	-	-	-	-	-
	WHOLESALE AND RETAIL TRADE	31.6	31.7	32.0	32.0	31.9	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.5	38.5	38.7	38.7	38.8	-	-	-	-	-
	WHOLESALE TRADE-DURABLE GOODS	38.6	38.9	39.2	39.2	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.4	38.4	39.0	38.7	-	-	-	-	-	-
502	Furniture and home furnishings	37.6	38.0	37.3	37.7	-	-	-	-	-	-
503	Lumber and construction materials	38.9	39.1	39.7	39.6	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.9	38.5	38.0	38.0	-	-	-	-	-	-

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					
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	
	WHOLESALE TRADE-DURABLE GOODS—Continued											
505	Metals and minerals, except petroleum	\$355.15	\$352.02	\$367.03	\$372.89	-	\$9.06	\$8.98	\$9.13	\$9.23	-	
506	Electrical goods	337.43	337.51	351.78	355.16	-	8.63	8.61	9.02	9.13	-	
507	Hardware, plumbing, and heating equipment	292.59	293.73	310.05	312.78	-	7.58	7.59	7.95	8.02	-	
508	Machinery, equipment, and supplies	325.31	325.70	346.42	348.88	-	8.32	8.33	8.77	8.81	-	
509	Miscellaneous durable goods	253.34	253.34	267.88	270.66	-	6.72	6.72	6.94	6.94	-	
51	WHOLESALE TRADE-NONDURABLE GOODS	311.98	313.50	326.52	328.04	-	8.21	8.25	8.57	8.61	-	
511	Paper and paper products	328.65	329.36	353.23	354.31	-	8.84	8.83	9.47	9.55	-	
512	Drugs, proprietaries, and sundries	338.35	339.00	356.44	363.00	-	9.12	9.04	9.38	9.68	-	
513	Apparel, piece goods, and notions	283.02	283.39	302.66	304.70	-	7.67	7.68	8.18	8.28	-	
514	Groceries and related products	314.71	317.44	328.14	329.76	-	8.26	8.51	8.59	8.61	-	
516	Chemicals and allied products	372.30	370.37	395.00	392.17	-	9.67	9.62	10.00	10.03	-	
517	Petroleum and petroleum products	361.39	388.23	394.40	391.82	-	9.68	9.73	9.86	9.82	-	
518	Beer, wine, and distilled beverages	357.08	360.46	368.94	362.30	-	9.81	9.93	10.22	10.12	-	
519	Miscellaneous nondurable goods	255.94	254.22	259.82	263.04	-	6.70	6.69	6.91	6.98	-	
52-59	RETAIL TRADE	164.79	164.58	172.52	173.40	\$172.84	5.53	5.56	5.77	5.78	*5.80	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	217.77	218.58	226.35	225.45	-	6.10	6.14	6.27	6.28	-	
521	Lumber and other building materials	232.56	230.78	241.33	239.65	-	6.32	6.34	6.54	6.53	-	
525	Hardware stores	181.17	181.17	188.36	187.04	-	5.36	5.36	5.54	5.55	-	
53	GENERAL MERCHANDISE STORES	159.69	157.72	168.13	169.31	-	5.45	5.42	5.68	5.72	-	
531	Department stores	165.56	162.71	174.64	175.23	-	5.67	5.63	5.96	5.94	-	
533	Variety stores	124.15	125.40	130.36	128.76	-	4.18	4.18	4.36	4.35	-	
539	Misc. general merchandise stores	152.41	130.20	137.26	136.81	-	4.37	4.24	4.53	4.53	-	
54	FOOD STORES	222.40	224.83	233.77	230.89	-	7.33	7.42	7.59	7.57	-	
541	Grocery stores	231.80	234.85	243.97	241.30	-	7.60	7.70	7.87	7.86	-	
546	Retail bakeries	144.65	144.21	148.67	148.38	-	5.04	5.06	5.19	5.17	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	235.25	235.96	249.56	249.87	-	6.29	6.36	6.83	6.79	-	
551, 2	New and used car dealers	275.94	280.49	306.61	307.42	-	7.30	7.44	8.09	8.09	-	
553	Auto and home supply stores	237.77	239.76	243.75	238.07	-	5.90	5.92	6.25	6.12	-	
554	Gasoline service stations	190.49	177.10	178.02	178.02	-	5.07	5.06	5.19	5.19	-	
56	APPAREL AND ACCESSORY STORES	137.20	137.55	138.78	140.34	-	4.90	4.93	5.01	5.03	-	
561	Men's and boys' clothing and furnishings	171.12	171.25	174.53	177.41	-	5.52	5.56	5.76	5.76	-	
562	Women's ready-to-wear stores	121.30	121.56	127.98	129.20	-	4.56	4.57	4.74	4.75	-	
565	Family clothing stores	136.80	136.97	137.82	140.34	-	4.80	4.84	5.03	5.03	-	
566	Shoe stores	143.45	144.00	140.67	142.42	-	5.16	5.18	5.06	5.16	-	
57	FURNITURE AND HOME FURNISHINGS STORES	213.62	213.69	226.38	228.13	-	6.21	6.23	6.60	6.69	-	
571	Furniture and home furnishings stores	213.47	212.65	225.98	227.70	-	6.26	6.31	6.55	6.60	-	
572	Household appliance stores	230.51	231.92	240.75	240.06	-	6.53	6.57	7.06	7.04	-	
573	Radio, television, and music stores	207.06	206.15	218.71	224.11	-	5.95	5.89	6.49	6.73	-	
58	EATING AND DRINKING PLACES⁵	107.94	106.81	113.26	113.85	-	4.12	4.14	4.29	4.28	-	
59	MISCELLANEOUS RETAIL	168.41	169.26	175.87	176.13	-	5.45	5.46	5.71	5.70	-	
591	Drug stores and proprietary stores	150.28	152.78	157.05	156.73	-	5.20	5.25	5.53	5.48	-	
594	Miscellaneous shopping goods stores	148.40	146.91	154.44	154.28	-	4.98	4.93	5.20	5.16	-	
596	Nonstore retailers	205.84	208.82	215.94	215.80	-	6.20	6.16	6.37	6.31	-	
598	Fuel and ice dealers	277.81	287.21	288.77	296.70	-	7.33	7.46	7.68	7.87	-	
599	Retail stores, nec	183.77	180.64	189.71	190.30	-	5.62	5.61	5.91	5.91	-	
	FINANCE, INSURANCE, AND REAL ESTATE⁶	252.31	253.40	263.88	270.45	266.78	6.97	7.00	7.33	7.43	7.39	
60	BANKING	217.91	219.73	226.71	233.51	-	5.97	6.02	6.23	6.38	-	
602	Commercial and stock savings banks	212.65	212.43	222.38	228.13	-	5.81	5.82	6.16	6.25	-	
61	CREDIT AGENCIES OTHER THAN BANKS	223.95	224.72	235.61	241.52	-	6.12	6.14	6.42	6.51	-	
612	Savings and loan associations	202.63	201.50	207.77	214.03	-	5.66	5.66	5.82	5.88	-	
614	Personal credit institutions	229.40	231.38	243.38	249.86	-	6.20	6.22	6.49	6.61	-	
63	INSURANCE CARRIERS	287.93	289.42	306.64	309.88	-	7.74	7.78	8.31	8.33	-	
631	Life insurance	287.79	290.53	312.43	313.87	-	7.79	7.81	8.49	8.46	-	
632	Medical service and health insurance	277.13	281.62	296.11	299.57	-	7.41	7.53	7.96	8.01	-	
633	Fire, marine, and casualty insurance	288.25	288.97	304.43	309.88	-	7.79	7.81	8.25	8.33	-	

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983 ^P	Nov. 1983 ^P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983 ^P	Nov. 1983 ^P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.2	39.2	40.2	40.4	-	-	-	-	-	
506	Electrical goods	39.1	39.2	39.0	38.9	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	36.6	38.7	39.0	39.0	-	-	-	-	-	
508	Machinery, equipment, and supplies	39.1	39.1	39.5	39.6	-	-	-	-	-	
509	Miscellaneous durable goods	37.7	37.7	36.6	39.0	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS	38.0	38.0	38.1	38.1	-	-	-	-	-	
511	Paper and paper products	37.2	37.3	37.3	37.1	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	37.1	37.5	38.0	37.5	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.9	36.9	37.0	36.8	-	-	-	-	-	
514	Groceries and related products	38.1	38.2	38.2	38.3	-	-	-	-	-	
516	Chemicals and allied products	36.5	38.5	39.5	39.1	-	-	-	-	-	
517	Petroleum and petroleum products	39.4	39.9	40.0	39.9	-	-	-	-	-	
518	Beer, wine, and distilled beverages	36.4	36.3	36.1	35.8	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.2	38.0	37.6	37.8	-	-	-	-	-	
52-59	RETAIL TRADE	29.6	29.6	29.9	30.0	29.8	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	35.7	35.6	36.1	35.9	-	-	-	-	-	
521	Lumber and other building materials	36.8	36.4	36.9	36.7	-	-	-	-	-	
525	Hardware stores	33.6	33.8	34.0	33.7	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	29.3	29.1	29.6	29.6	-	-	-	-	-	
531	Department stores	29.2	28.9	29.6	29.5	-	-	-	-	-	
533	Variety stores	29.7	30.0	29.9	29.6	-	-	-	-	-	
539	Misc. general merchandise stores	30.3	30.0	30.3	30.2	-	-	-	-	-	
54	FOOD STORES	30.3	30.3	30.8	30.5	-	-	-	-	-	
541	Grocery stores	30.5	30.5	31.0	30.7	-	-	-	-	-	
546	Retail bakeries	28.7	28.5	26.7	28.7	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.4	37.1	36.7	36.8	-	-	-	-	-	
551.2	New and used car dealers	37.8	37.7	37.9	38.0	-	-	-	-	-	
553	Auto and home supply stores	40.3	40.5	39.0	38.9	-	-	-	-	-	
554	Gasoline service stations	35.6	35.0	34.3	34.3	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	28.0	27.9	27.7	27.9	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	31.0	30.8	30.3	30.8	-	-	-	-	-	
562	Women's ready-to-wear stores	26.6	26.6	27.0	27.2	-	-	-	-	-	
565	Family clothing stores	28.5	28.3	27.4	27.9	-	-	-	-	-	
566	Shoe stores	27.6	27.8	27.8	27.6	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES	34.4	34.3	34.3	34.1	-	-	-	-	-	
571	Furniture and home furnishings stores	34.1	33.7	34.5	34.5	-	-	-	-	-	
572	Household appliance stores	35.3	35.3	34.1	34.1	-	-	-	-	-	
573	Radio, television, and music stores	34.8	35.0	35.7	33.3	-	-	-	-	-	
58	EATING AND DRINKING PLACES	26.2	25.8	26.4	26.6	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	30.9	31.0	30.8	30.9	-	-	-	-	-	
591	Drug stores and proprietary stores	28.9	29.1	28.4	28.6	-	-	-	-	-	
594	Miscellaneous shopping goods stores	29.8	29.8	29.7	29.9	-	-	-	-	-	
596	Nonstore retailers	33.2	33.9	33.9	34.2	-	-	-	-	-	
598	Fuel and ice dealers	37.9	38.5	37.6	37.7	-	-	-	-	-	
599	Retail stores, nec.	32.7	32.2	32.1	32.2	-	-	-	-	-	
	FINANCE, INSURANCE, AND REAL ESTATE	36.2	36.2	36.0	36.4	36.1	-	-	-	-	
60	BANKING	36.5	36.5	36.1	36.6	-	-	-	-	-	
602	Commercial and stock savings banks	36.6	36.5	36.1	36.5	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.6	36.6	36.7	37.1	-	-	-	-	-	
612	Savings and loan associations	35.6	35.6	35.7	36.4	-	-	-	-	-	
614	Personal credit institutions	37.0	37.2	37.5	37.8	-	-	-	-	-	
63	INSURANCE CARRIERS	37.2	37.2	36.9	37.2	-	-	-	-	-	
631	Life insurance	37.2	37.2	36.8	37.1	-	-	-	-	-	
632	Medical service and health insurance	37.4	37.4	37.2	37.4	-	-	-	-	-	
633	Fire, marine, and casualty insurance	37.0	37.0	36.9	37.2	-	-	-	-	-	

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	SERVICES	\$226.80	\$230.10	\$239.04	\$242.39	\$241.65	\$7.04	\$7.08	\$7.31	\$7.39	\$7.39
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts ⁵	154.11	153.17	163.46	169.06	-	5.02	5.14	5.29	5.35	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	175.24	176.25	183.67	187.62	-	5.20	5.23	5.45	5.47	
723	Beauty shops ⁶	149.76	149.63	155.39	155.44	-	5.20	5.25	5.34	5.36	
73	BUSINESS SERVICES	232.17	233.21	245.60	248.34	-	7.10	7.11	7.42	7.48	
731	Advertising	334.13	337.75	355.99	366.99	-	9.23	9.33	9.78	10.11	
734	Services to buildings	157.49	155.63	164.82	168.24	-	5.79	5.68	5.95	6.03	
737	Computer and data processing services	328.37	326.74	357.95	364.98	-	8.71	8.69	9.52	9.63	
75	AUTO REPAIR, SERVICES, AND GARAGES ..	254.93	253.95	264.86	261.80	-	6.78	6.79	6.97	7.00	
753	Automotive repair shops	283.58	281.69	295.57	291.04	-	7.29	7.26	7.54	7.54	
76	MISCELLANEOUS REPAIR SERVICES	315.09	319.49	319.55	318.66	-	8.27	8.32	8.30	8.32	
78	MOTION PICTURES	245.06	262.32	301.56	319.06	-	9.11	9.47	10.77	11.04	
781	Motion picture production and services	475.73	498.94	582.05	600.10	-	12.72	13.13	15.04	15.04	
79	AMUSEMENT AND RECREATION SERVICES ..	136.59	193.50	195.00	199.72	-	6.39	6.45	6.61	6.77	
80	HEALTH SERVICES	232.17	233.15	242.63	242.54	-	7.10	7.13	7.42	7.44	
801	Offices of physicians	218.67	222.92	226.61	229.63	-	6.92	7.01	7.31	7.36	
802	Offices of dentists	193.45	195.16	200.44	199.60	-	6.86	6.97	7.21	7.18	
805	Nursing and personal care facilities	153.86	153.55	162.69	162.30	-	4.90	4.89	5.10	5.12	
806	Hospitals	262.73	265.20	281.47	280.16	-	7.75	7.80	8.23	8.24	
81	LEGAL SERVICES	305.61	307.40	319.36	330.60	-	8.91	8.91	9.23	9.50	
89	MISCELLANEOUS SERVICES	402.48	405.60	417.49	425.64	-	10.40	10.40	10.76	10.97	
891	Engineering and architectural services	445.50	444.71	458.17	468.46	-	11.25	11.23	11.57	11.80	
893	Accounting, auditing, and bookkeeping	327.06	333.41	348.77	354.33	-	8.63	8.66	9.13	9.30	-

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 non-supervisory 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.

- Data not available.

p = preliminary.

NOTE: Data from April 1982 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" under the Establishment Data section of the Explanatory Notes.

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				
		Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	SERVICES	32.5	32.5	32.7	32.8	32.7					
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts ⁵	30.7	29.8	30.9	31.6	-					
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	33.7	33.7	33.7	34.3	-	-	-	-	-	
723	Beauty shops ⁵	28.6	28.5	29.1	29.0	-	-	-	-	-	
	BUSINESS SERVICES										
73	Advertising	32.7	32.8	33.1	33.2	-	-	-	-	-	
731	Services to buildings	36.2	36.2	36.4	36.3	-	-	-	-	-	
734	Computer and data processing services	27.2	27.4	27.7	27.9	-	-	-	-	-	
737	Computer and data processing services	37.7	37.6	37.6	37.9	-	-	-	-	-	
	AUTO REPAIR, SERVICES, AND GARAGES										
75	Automotive repair shops	37.6	37.4	38.0	37.4	-	-	-	-	-	
753	Automotive repair shops	38.9	38.8	39.2	38.6	-	-	-	-	-	
	MISCELLANEOUS REPAIR SERVICES										
76	Miscellaneous repair services	38.1	38.4	38.5	38.3	-	-	-	-	-	
	MOTION PICTURES										
78	Motion picture production and services	26.9	27.7	28.0	28.9	-	-	-	-	-	
781	Motion picture production and services	37.4	38.0	38.7	39.9	-	-	-	-	-	
	AMUSEMENT AND RECREATION SERVICES										
79	Amusement and recreation services	29.2	30.0	29.5	29.5	-	-	-	-	-	
	HEALTH SERVICES										
80	Offices of physicians	32.7	32.7	32.7	32.6	-	-	-	-	-	
801	Offices of physicians	31.6	31.8	31.0	31.2	-	-	-	-	-	
802	Offices of dentists	28.2	28.0	27.8	27.8	-	-	-	-	-	
805	Nursing and personal care facilities	31.4	31.4	31.9	31.7	-	-	-	-	-	
806	Hospitals	33.9	34.0	34.2	34.0	-	-	-	-	-	
	LEGAL SERVICES										
81	Legal services	34.3	34.5	34.6	34.8	-	-	-	-	-	
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	38.7	39.0	38.8	38.8	-	-	-	-	-	
891	Engineering and architectural services	39.6	39.6	39.6	39.7	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.9	38.5	38.2	36.1	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

C-3. Average hourly earnings excluding overtime of production workers on manufacturing payrolls by industry

Major industry group	Average hourly earnings excluding overtime ¹				
	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
MANUFACTURING	\$8.31	\$8.36	\$8.53	\$8.55	\$8.61
DURABLE GOODS	8.90	8.92	9.09	9.10	9.15
Lumber and wood products	7.34	7.36	7.55	7.53	-
Furniture and fixtures	6.26	6.29	6.50	6.50	-
Stone, clay, and glass products	8.65	8.67	8.92	8.89	-
Primary metal industries	11.15	11.22	10.85	10.80	-
Fabricated metal products	8.64	8.68	8.83	8.84	-
Machinery, except electrical	9.14	9.15	9.35	9.39	-
Electric and electronic equipment	8.22	8.25	8.43	8.42	-
Transportation equipment	10.94	10.93	11.19	11.26	-
Instruments and related products	8.11	8.14	8.36	8.37	-
Miscellaneous manufacturing industries	6.35	6.40	6.66	6.63	-
NONDURABLE GOODS	7.55	7.62	7.77	7.79	7.85
Food and kindred products	7.52	7.66	7.71	7.75	-
Tobacco manufactures	9.28	9.94	9.74	9.65	-
Textile mill products	5.70	5.73	5.94	5.95	-
Apparel and other textile products	5.13	5.16	5.28	5.29	-
Paper and allied products	9.08	9.16	9.51	9.54	-
Printing and publishing	8.61	8.64	8.89	8.91	-
Chemicals and allied products	9.89	9.93	10.26	10.36	-
Petroleum and coal products	12.02	12.13	12.74	12.71	-
Rubber and misc. plastics products	7.51	7.57	7.70	7.74	-
Leather and leather products	5.31	5.32	5.43	5.44	-

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

p = preliminary.

C-4. Gross average weekly earnings of production or nonsupervisory workers' on private nonagricultural payrolls by industry division, in current and constant (1977) dollars

Industry	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
TOTAL PRIVATE:					
Current dollars	\$270.31	\$271.01	\$286.28	\$287.70	\$296.53
Constant (1977) dollars	167.06	167.81	172.77	173.31	-
MINING:					
Current dollars	459.22	458.02	489.19	489.02	\$432.51
Constant (1977) dollars	283.82	283.60	295.23	294.59	-
CONSTRUCTION:					
Current dollars	440.75	423.09	455.94	447.14	\$427.79
Constant (1977) dollars	272.40	261.98	275.16	269.36	-
MANUFACTURING:					
Current dollars	333.84	338.37	363.12	362.64	\$365.98
Constant (1977) dollars	206.33	209.52	219.14	218.46	-
TRANSPORTATION AND PUBLIC UTILITIES:					
Current dollars	406.62	413.01	429.46	432.13	\$431.12
Constant (1977) dollars	251.31	255.73	259.18	260.32	-
WHOLESALE AND RETAIL TRADE:					
Current dollars	199.39	199.71	209.20	210.24	\$209.90
Constant (1977) dollars	123.23	123.66	126.30	126.65	-
FINANCE, INSURANCE, AND REAL ESTATE:					
Current dollars	252.31	253.40	263.88	270.45	\$266.78
Constant (1977) dollars	155.94	156.90	159.25	162.92	-
SERVICES:					
Current dollars	228.80	230.10	239.04	242.39	\$241.65
Constant (1977) dollars	141.41	142.48	144.26	146.02	-

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

p = preliminary.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-5. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group

(1977=100)

Industry division and group	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	Hours				
TOTAL PRIVATE..	104.0	103.5	109.0	109.2	109.1
GOODS-PRODUCING..	90.1	88.6	98.2	98.1	97.7
MINING	120.9	118.7	117.6	119.2	117.0
CONSTRUCTION	106.5	100.9	115.1	113.7	108.7
MANUFACTURING	85.4	84.8	94.0	94.1	94.6
DURABLE GOODS..	81.0	80.5	91.0	91.7	92.6
Lumber and wood products..	78.6	78.1	101.2	99.9	97.2
Furniture and fixtures..	86.9	87.1	100.3	101.6	101.8
Stone, clay, and glass products..	80.7	78.9	89.4	88.9	88.1
Primary metal industries..	60.5	59.8	70.0	70.0	70.7
Fabricated metal products..	79.3	78.9	87.7	88.6	89.7
Machinery, except electrical..	82.0	81.3	87.0	87.4	90.2
Electric and electronic equipment..	93.1	93.4	105.5	106.9	108.5
Transportation equipment..	77.6	76.9	90.3	92.3	93.3
Instruments and related products..	102.9	102.9	105.2	104.7	105.4
Miscellaneous manufacturing industries..	84.6	83.2	86.5	89.3	83.0
NONDURABLE GOODS	92.0	91.2	98.4	97.5	97.5
Food and kindred products..	101.2	97.6	106.0	101.1	98.8
Tobacco manufactures..	100.0	90.6	93.8	94.6	89.7
Textile mill products..	76.7	76.7	85.3	85.1	85.2
Apparel and other textile products..	86.3	85.3	92.8	93.7	93.4
Paper and allied products..	91.4	92.1	97.6	97.1	97.7
Printing and publishing..	105.7	106.6	110.4	110.9	112.9
Chemicals and allied products..	93.6	94.1	96.3	95.5	97.3
Petroleum and coal products..	96.5	95.6	94.4	92.4	91.5
Rubber and misc. plastics products..	91.0	90.7	107.0	108.0	109.1
Leather and leather products..	80.1	81.5	86.8	85.7	87.1
SERVICE-PRODUCING	111.7	111.7	115.0	115.3	115.4
TRANSPORTATION AND PUBLIC UTILITIES	101.7	101.5	103.0	103.1	102.3
WHOLESALE AND RETAIL TRADE	104.6	104.9	106.7	106.8	107.3
WHOLESALE TRADE	108.6	107.9	109.6	110.2	110.1
RETAIL TRADE	103.1	103.7	105.6	105.5	106.2
FINANCE, INSURANCE, AND REAL ESTATE	116.4	116.3	119.5	120.1	119.2
SERVICES	122.4	122.3	128.0	128.6	128.8

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

p = preliminary.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-5. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group—Continued

(1977=100)

Industry division and group	Oct. 1982	Nov. 1982	Sept. 1983	Oct. 1983P	Nov. 1983P
	Payrolls				
TOTAL PRIVATE	154.4	154.0	168.4	169.5	169.1
GOODS-PRODUCING	137.1	134.8	154.2	154.0	153.2
MINING	190.9	188.2	192.3	194.4	190.5
CONSTRUCTION	156.2	146.0	170.8	168.7	159.0
MANUFACTURING	128.8	128.6	147.4	147.7	149.4
DURABLE GOODS	122.1	121.8	142.4	143.5	145.7
Lumber and wood products	116.8	116.3	156.5	153.8	148.1
Furniture and fixtures	128.0	128.9	155.5	157.5	158.3
Stone, clay, and glass products	125.5	122.6	145.1	143.5	142.2
Primary metal industries	93.2	92.7	107.2	106.6	108.4
Fabricated metal products	118.7	118.9	136.8	138.1	140.7
Machinery, except electrical	122.7	121.8	134.9	136.2	141.3
Electric and electronic equipment	145.2	146.3	171.3	173.1	176.6
Transportation equipment	120.2	119.7	146.4	150.1	152.8
Instruments and related products	160.7	161.5	171.2	170.1	171.2
Miscellaneous manufacturing industries	126.2	125.2	135.8	140.2	139.7
NONDURABLE GOODS	140.5	140.7	156.2	154.9	156.0
Food and kindred products	148.3	145.4	160.5	153.1	151.3
Tobacco manufactures	171.3	166.0	167.5	166.7	173.7
Textile mill products	113.2	114.0	133.4	133.3	133.7
Apparel and other textile products	124.2	123.5	138.0	139.8	139.9
Paper and allied products	146.3	148.3	165.6	164.6	166.8
Printing and publishing	153.3	155.4	166.7	167.7	171.2
Chemicals and allied products	148.8	150.1	160.1	160.1	164.1
Petroleum and coal products	154.9	154.9	161.0	157.5	157.3
Rubber and misc. plastics products	136.2	136.9	167.2	169.5	170.3
Leather and leather products	119.0	122.3	133.8	131.9	134.3
SERVICE-PRODUCING	166.6	167.5	178.5	180.4	180.4
TRANSPORTATION AND PUBLIC UTILITIES	152.3	153.7	160.6	161.4	160.5
WHOLESALE AND RETAIL TRADE	153.5	154.3	163.2	164.0	165.0
WHOLESALE TRADE	163.7	162.9	172.5	174.4	174.2
RETAIL TRADE	148.0	149.7	158.2	158.4	160.0
FINANCE, INSURANCE, AND REAL ESTATE	178.5	179.4	192.8	196.4	194.0
SERVICES	185.4	186.2	201.2	204.4	204.5

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED HOURS**

**C-6. Average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry division and major manufacturing group, seasonally adjusted**

Industry	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^P	Nov. ^P
TOTAL PRIVATE	34.7	34.8	35.1	34.5	34.8	34.9	35.1	35.1	35.0	35.0	35.2	35.3	35.2
MINING	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
CONSTRUCTION	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
MANUFACTURING	39.0	39.0	39.7	39.2	39.5	40.1	40.0	40.1	40.2	40.3	40.8	40.6	40.5
<i>Overtime hours</i>	2.3	2.3	2.4	2.4	2.6	2.9	2.7	2.9	3.0	3.1	3.3	3.4	3.3
DURABLE GOODS	39.3	39.3	40.1	39.7	39.9	40.5	40.4	40.6	40.6	40.8	41.5	41.2	41.1
<i>Overtime hours</i>	2.1	2.2	2.2	2.3	2.5	2.8	2.6	2.8	3.0	3.1	3.4	3.4	3.4
Lumber and wood products	38.7	38.8	40.5	39.5	39.5	40.0	39.8	40.0	39.9	40.2	40.5	40.3	40.1
Furniture and fixtures	37.6	37.8	38.6	37.9	38.3	39.3	39.2	39.6	39.7	39.7	40.1	39.7	39.6
Stone, clay, and glass products	40.2	40.1	41.4	40.5	40.6	41.0	41.2	41.6	41.7	41.7	42.1	41.7	41.5
Primary metal industries	38.3	38.8	38.9	39.1	39.4	39.9	40.3	40.3	40.8	40.9	41.2	41.7	41.7
Fabricated metal products	39.2	39.2	39.9	39.6	39.7	40.5	40.4	40.5	40.7	40.9	41.6	41.2	41.4
Machinery, except electrical	39.3	39.3	39.6	39.4	39.7	40.2	40.0	40.4	40.7	40.7	41.2	41.2	41.2
Electric and electronic equipment	39.3	39.4	39.9	39.5	39.8	40.4	40.3	40.5	40.8	40.7	41.1	41.0	41.0
Transportation equipment	40.9	40.1	41.6	41.2	41.7	42.3	41.6	41.9	42.0	41.8	43.5	42.4	42.3
Instruments and related products	39.4	39.7	40.4	39.7	40.0	40.5	40.4	40.1	40.7	40.4	41.0	40.6	40.4
Miscellaneous manufacturing and	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
NONDURABLE GOODS	38.6	38.6	39.1	38.5	39.0	39.5	39.4	39.6	39.5	39.5	39.9	39.7	39.7
<i>Overtime hours</i>	2.5	2.5	2.6	2.6	2.7	3.0	2.9	3.0	3.0	3.1	3.1	3.2	3.2
Food and kindred products	39.4	39.1	39.3	39.0	39.2	39.6	39.4	39.8	39.4	39.6	39.9	39.7	39.7
Tobacco manufactures	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products	38.8	38.9	39.7	39.0	39.6	40.6	40.4	40.7	40.7	40.9	41.3	40.8	40.9
Apparel and other textile products	35.0	35.1	36.6	35.2	35.6	36.2	36.1	36.1	35.8	36.2	36.8	36.5	36.3
Paper and allied products	41.7	41.7	41.8	41.4	42.1	42.4	42.7	42.8	42.9	42.9	43.3	43.1	42.8
Printing and publishing	37.1	37.1	37.5	37.1	37.4	37.7	37.4	37.6	37.7	37.5	37.8	38.0	38.0
Chemicals and allied products	40.7	40.9	41.0	41.0	41.2	41.5	41.6	41.9	41.8	41.6	41.7	41.7	42.0
Petroleum and coal products	44.1	44.4	44.5	44.4	44.9	43.5	43.6	43.8	43.7	43.5	43.2	43.5	43.8
Rubber and misc. plastics products	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Leather and leather products	35.8	35.8	36.3	34.9	36.0	37.0	36.8	36.8	37.4	37.2	37.7	37.5	37.2
TRANSPORTATION AND PUBLIC UTILITIES	38.9	38.9	38.6	38.6	38.8	38.8	38.9	38.9	38.9	39.3	39.4	39.5	39.2
WHOLESALE AND RETAIL TRADE	31.8	32.1	31.9	31.4	31.7	31.7	31.9	32.0	31.9	31.8	31.8	32.1	32.1
WHOLESALE TRADE	38.4	38.4	38.5	38.2	38.4	38.5	38.6	38.7	38.6	38.5	38.7	38.6	38.7
RETAIL TRADE	29.8	30.1	29.9	29.3	29.7	29.6	29.9	29.9	29.8	29.7	29.7	30.1	30.0
FINANCE, INSURANCE, AND REAL ESTATE	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
SERVICES	32.6	32.6	32.9	32.5	32.7	32.7	32.9	32.7	32.6	32.7	32.8	32.9	32.8

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

p = preliminary.

² This series is not published seasonally adjusted since 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

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

(1977=100)

Industry division and group	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^p	Nov. ^p
TOTAL PRIVATE	102.5	102.6	104.1	102.2	103.1	104.0	105.0	105.7	106.1	105.3	107.5	108.2	108.4
GOODS-PRODUCING	86.8	86.5	89.8	87.2	87.8	89.6	90.5	91.8	93.0	93.5	95.1	95.5	96.1
MINING	117.5	116.5	116.4	111.6	110.7	109.5	110.3	112.5	114.0	115.0	117.0	118.7	116.3
CONSTRUCTION	97.2	96.5	106.2	94.7	94.3	96.3	99.6	102.0	103.5	104.5	106.0	103.8	104.7
MANUFACTURING	83.3	83.1	85.5	84.1	85.4	87.4	87.8	88.8	90.0	90.4	92.0	92.8	93.5
DURABLE GOODS	79.0	76.8	81.4	80.4	81.6	83.7	84.3	85.4	87.2	87.8	89.8	90.9	91.7
Lumber and wood products	78.1	78.6	84.9	83.1	85.1	88.0	89.2	92.2	93.5	95.6	97.0	97.7	98.0
Furniture and fixtures	84.5	85.2	88.0	84.7	87.9	92.0	93.1	94.8	97.2	97.0	98.2	98.6	99.6
Stone, clay, and glass products	76.7	75.8	78.9	76.6	78.1	80.0	81.3	82.5	83.4	84.5	85.7	85.9	86.2
Primary metal industries	59.6	60.0	61.2	61.0	62.2	63.7	65.1	65.2	67.0	67.6	68.9	71.4	71.6
Fabricated metal products	77.0	76.9	79.2	78.9	79.4	81.4	82.0	82.8	83.7	85.2	86.9	87.6	88.6
Machinery, except electrical	80.4	79.6	79.4	78.4	78.7	80.0	81.4	82.4	84.6	85.6	87.0	88.1	89.9
Electric and electronic equipment	91.8	91.2	94.3	93.2	95.2	97.6	98.0	99.6	101.6	101.1	104.7	106.3	107.8
Transportation equipment	74.6	75.0	79.4	80.1	81.0	83.7	82.9	84.2	86.8	86.9	89.9	90.9	91.1
Instruments and related products	101.2	100.3	102.7	99.1	100.6	101.9	101.7	100.4	101.9	102.2	105.0	105.1	104.3
Miscellaneous manufacturing ind	79.4	78.4	81.0	77.7	80.7	82.9	82.4	82.7	84.5	83.4	82.9	85.0	84.9
NONDURABLE GOODS	89.7	89.5	91.7	89.6	91.0	92.8	92.9	93.9	94.2	94.2	95.3	95.6	96.2
Food and kindred products	95.5	94.2	95.1	93.8	94.1	96.0	95.6	97.4	96.2	95.5	96.3	95.9	96.5
Tobacco manufactures	82.3	93.6	94.6	82.4	89.6	89.1	88.6	88.3	87.3	82.1	83.6	85.4	81.2
Textile mill products	75.2	74.6	78.2	75.4	77.6	80.1	80.1	81.8	81.8	83.1	83.9	83.6	84.0
Apparel and other textile products	83.9	83.6	90.0	85.0	85.5	87.6	87.7	88.1	89.0	89.6	91.2	91.6	92.0
Paper and allied products	91.2	90.8	91.2	90.4	92.1	93.1	94.4	94.6	95.4	95.0	96.5	96.8	96.9
Printing and publishing	105.6	105.6	107.0	105.6	106.5	108.1	107.5	108.7	109.0	108.9	109.8	111.1	111.9
Chemicals and allied products	93.5	93.9	93.8	93.6	93.7	94.7	94.7	95.5	95.8	95.1	95.5	95.9	97.0
Petroleum and coal products	53.9	94.2	95.4	96.2	97.6	94.6	93.3	92.9	92.7	91.5	90.1	89.9	89.8
Rubber and misc. plastics products	89.1	90.0	91.1	90.9	94.9	98.5	100.2	100.6	102.7	103.5	105.7	106.5	108.4
Leather and leather products	79.3	78.1	81.0	76.4	79.9	81.7	81.2	81.2	82.6	84.0	85.6	85.1	85.4
SERVICE-PRODUCING	111.3	111.5	112.0	110.5	111.6	111.9	113.0	113.3	113.4	111.8	114.4	115.2	115.1
TRANSPORTATION AND PUBLIC UTILITIES	100.7	100.5	99.0	96.6	99.1	99.6	99.9	99.9	99.7	85.0	102.0	102.0	101.2
WHOLESALE AND RETAIL TRADE	103.5	104.0	104.3	102.1	103.9	103.6	104.7	105.4	105.3	105.3	105.6	106.6	106.4
WHOLESALE TRADE	107.2	106.7	106.8	105.5	106.1	106.6	107.3	108.1	107.9	108.1	109.3	109.3	109.4
RETAIL TRADE	102.1	103.0	103.4	100.8	103.0	102.4	103.7	104.4	104.3	104.2	104.1	105.6	105.3
FINANCE, INSURANCE, AND REAL ESTATE	116.8	117.2	117.8	116.4	116.4	117.8	119.1	118.9	119.1	119.0	119.5	120.5	119.8
SERVICES	122.8	122.9	124.1	122.5	123.9	124.7	126.1	126.1	126.3	127.1	129.0	128.8	129.2

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

p = preliminary

ESTABLISHMENT DATA SEASONALLY ADJUSTED

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

Industry	1982		1983										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^p	Nov. ^p
Hourly Earnings Index² (1977=100)													
TOTAL PRIVATE (In current dollars)	151.1	151.9	152.7	153.4	153.4	154.0	154.6	154.8	155.2	155.0	155.9	156.7	156.7
MINING ³	162.9	163.0	164.7	165.1	164.0	165.7	165.0	166.4	167.6	167.3	168.3	168.3	168.6
CONSTRUCTION	141.9	144.0	144.0	145.7	145.5	145.9	144.5	144.6	144.0	144.1	145.5	144.8	144.0
MANUFACTURING	155.3	155.8	156.5	157.3	157.1	157.0	157.7	157.8	158.2	158.1	158.3	158.8	159.5
TRANSPORTATION AND PUBLIC UTILITIES	152.2	153.1	154.4	155.2	155.9	155.9	156.6	156.8	157.9	155.4	157.2	158.5	158.3
WHOLESALE AND RETAIL TRADE	147.5	148.1	148.9	149.3	149.6	150.5	151.2	151.6	152.2	152.3	153.1	153.9	154.0
FINANCE, INSURANCE, AND REAL ESTATE ³	152.7	153.0	156.7	157.4	156.7	157.4	159.0	158.2	159.1	158.2	159.3	161.9	161.2
SERVICES	150.7	152.0	152.2	152.4	152.6	154.0	154.9	155.5	155.6	155.9	157.1	158.5	157.7
TOTAL PRIVATE (In 1977 dollars) ⁴	93.4	94.1	94.7	95.3	95.0	94.8	94.7	94.8	94.7	94.0	94.2	94.4	-
Average hourly earnings													
TOTAL PRIVATE	\$7.78	\$7.82	\$7.68	\$7.91	\$7.91	\$7.95	\$7.97	\$8.00	\$8.03	\$7.98	\$8.03	\$8.12	\$8.11
MINING	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
CONSTRUCTION	11.71	11.88	11.86	12.00	12.00	12.02	11.86	11.85	11.82	11.83	11.96	11.90	11.85
MANUFACTURING	8.61	8.63	8.68	8.76	8.75	8.78	8.79	8.82	8.85	8.84	8.87	8.93	8.98
TRANSPORTATION AND PUBLIC UTILITIES	10.51	10.58	10.66	10.70	10.77	10.76	10.82	10.83	10.88	10.64	10.82	10.91	10.88
WHOLESALE AND RETAIL TRADE	6.32	6.33	6.35	6.39	6.40	6.43	6.45	6.49	6.51	6.52	6.54	6.59	6.59
FINANCE, INSURANCE, AND REAL ESTATE	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SERVICES	7.04	7.09	7.11	7.14	7.15	7.19	7.24	7.26	7.26	7.26	7.32	7.38	7.35
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	269.97	272.14	276.59	272.90	275.27	277.46	279.75	280.80	281.05	279.30	284.42	286.64	285.47
1977 dollars ³	166.96	168.61	171.48	169.61	170.45	170.85	171.42	171.85	171.37	169.48	171.85	172.57	-

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 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.

⁴ The deflator for these series is derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

⁵ See footnote 2, table C-6.
p = preliminary.

C-9. Hours of wage and salary workers¹ in nonagricultural establishments by industry division

Industry division	Millions of hours (Annual rate) ²			Percent change		
	September R1983	October R1983	November P1983	Nov. 1982 to Nov. 1983	Sept. 1983 to Oct. 1983	Oct. 1983 to Nov. 1983
TOTAL	170,280	170,404	169,737	4.0	0.1	-0.4
PRIVATE SECTOR	138,904	139,420	139,457	4.8	0.4	0.0
MINING	2,298	2,328	2,297	-0.1	1.3	-1.3
CONSTRUCTION	7,843	7,715	7,780	6.6	-1.6	0.8
MANUFACTURING	39,625	39,727	39,866	8.0	0.3	0.3
DURABLE GOODS	23,524	23,619	23,692	10.1	0.4	0.3
NONDURABLE GOODS	16,101	16,108	16,173	5.0	0.0	0.4
TRANSPORTATION AND PUBLIC UTILITIES	10,307	10,347	10,247	0.7	0.4	-1.0
WHOLESALE AND RETAIL TRADE	34,411	34,690	34,511	2.4	0.8	-0.5
FINANCE, INSURANCE, AND REAL ESTATE	10,375	10,408	10,362	2.7	0.3	-0.4
SERVICES	34,045	34,205	34,395	5.5	0.5	0.6
GOVERNMENT	31,376	30,984	30,280	0.4	-1.2	-2.3

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*, BLS Bulletin 2134-1—Chapter 13, Productivity Measures: Business 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-10. Indexes of output and compensation per hour, unit costs, and prices,
business sector, seasonally adjusted**

(1977 = 100)

Item	Annual average		Quarterly indexes										
			1981				1982				1983		
	1981	1982	1981 I	1981 II	1981 III	1981 IV	1982 I	1982 II	1982 III	1982 IV	1983 I	1983 II	1983 III
BUSINESS SECTOR:													
Output per hour of all persons	101.3	101.2	100.5	101.1	102.3	101.2	101.1	100.7	101.1	101.9	102.5	103.8	r104.7
Output	109.8	106.7	109.2	109.8	111.2	108.9	107.2	106.9	106.6	106.0	107.1	110.2	r112.6
Hours	108.4	105.4	108.6	108.6	108.7	107.7	106.0	106.2	105.4	104.0	104.5	106.2	r107.6
Compensation per hour	143.9	155.1	139.7	142.2	145.5	148.2	151.6	153.9	156.5	158.7	160.7	162.1	r164.2
Real compensation per hour	95.9	97.4	96.3	96.1	95.6	95.6	97.1	97.4	97.1	98.0	99.4	99.2	99.4
Unit labor costs	142.1	153.3	139.0	140.7	142.3	146.4	149.9	152.9	154.7	155.6	156.9	156.2	r156.9
Unit nonlabor payments	136.2	136.9	131.2	133.4	139.9	140.2	137.0	137.0	136.3	137.4	140.8	145.8	r147.3
Implicit price deflator	140.1	147.7	136.3	138.2	141.5	144.3	145.5	147.5	148.5	149.4	151.5	152.7	r153.6
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	100.3	100.2	100.1	100.1	101.1	99.9	100.0	99.9	100.4	100.8	101.7	103.3	r104.1
Output	109.3	106.3	109.2	109.4	110.5	108.2	106.5	106.7	106.5	105.4	106.7	110.0	r112.6
Hours	109.0	106.0	109.1	109.2	109.4	108.2	106.5	106.8	106.0	104.6	104.9	106.5	r108.2
Compensation per hour	143.5	154.7	139.3	141.8	145.1	147.7	151.3	153.5	156.1	158.3	161.0	162.7	r164.4
Real compensation per hour	95.6	97.1	96.0	95.8	95.3	95.4	96.9	97.1	96.9	97.8	99.5	99.6	r 99.4
Unit labor costs	143.0	154.4	139.2	141.6	143.5	147.8	151.3	153.6	155.4	157.1	158.3	157.4	r157.9
Unit nonlabor payments	135.0	137.0	130.3	132.2	138.3	139.5	136.4	137.7	136.5	137.2	140.7	145.9	r147.9
Implicit price deflator	140.4	148.6	136.2	138.4	141.8	145.0	146.4	148.3	149.1	150.5	152.4	153.6	154.6
MANUFACTURING:													
Output per hour of all persons	105.3	106.5	105.1	105.4	106.1	104.4	105.1	105.3	107.8	108.1	110.2	112.6	r115.7
Output	106.5	99.1	106.8	107.8	108.1	103.3	100.2	99.5	99.5	97.2	100.1	105.0	r110.6
Hours	101.2	93.0	101.6	102.2	101.9	98.9	95.4	94.5	92.3	89.9	90.9	93.3	r 95.5
Compensation per hour	145.8	158.2	141.6	144.3	147.0	150.5	155.1	157.1	159.6	161.4	165.5	166.4	r167.4
Real compensation per hour	97.2	99.3	97.6	97.5	96.5	97.1	99.4	99.4	99.1	99.7	102.3	101.8	r101.3
Unit labor costs	138.5	148.5	134.8	136.9	138.5	144.1	147.6	149.1	148.1	149.3	150.2	147.8	144.7
DURABLE GOODS													
Output per hour of all persons	104.5	105.4	104.3	104.8	105.2	103.7	103.7	104.2	106.8	107.2	109.4	112.1	r115.2
Output	107.0	97.3	107.3	108.8	108.9	103.3	99.3	98.3	97.6	94.0	97.4	102.8	r109.0
Hours	102.4	92.3	102.9	103.8	103.4	99.6	95.7	94.3	91.4	87.7	89.0	91.7	r 94.7
Compensation per hour	145.9	157.9	141.7	144.4	146.9	150.6	154.7	156.7	159.5	161.0	165.4	166.1	r167.1
Real compensation per hour	97.2	99.1	97.7	97.5	96.5	97.2	99.1	99.1	99.0	99.5	102.3	101.6	r101.1
Unit labor costs	139.6	149.8	135.8	137.8	139.6	145.3	149.1	150.4	149.4	150.3	151.1	148.1	145.1
NONDURABLE GOODS													
Output per hour of all persons	106.4	108.2	106.3	106.5	107.4	105.4	107.2	107.0	109.2	109.4	111.3	113.2	116.5
Output	105.6	101.8	106.0	106.3	107.0	103.2	101.7	101.3	102.3	101.9	104.1	108.4	r112.8
Hours	99.3	94.1	99.8	99.8	99.6	97.9	94.8	94.7	93.7	93.2	93.6	95.7	r 96.9
Compensation per hour	145.2	159.2	141.0	143.7	146.4	149.9	155.9	157.8	160.2	163.0	166.6	167.6	r168.3
Real compensation per hour	96.8	99.9	97.2	97.1	96.2	96.7	99.9	99.8	99.4	100.7	103.0	102.6	r101.8
Unit labor costs	136.5	147.1	132.7	135.0	136.3	142.1	145.4	147.5	146.7	149.0	149.8	148.1	r144.5
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	102.3	102.8	101.8	102.1	103.0	102.2	102.4	102.3	103.2	103.4	104.3	105.9	p107.3
Output	111.5	107.8	111.0	111.7	112.9	110.4	108.6	108.1	108.0	106.4	107.6	111.3	p114.3
Hours	109.0	104.8	109.1	109.3	109.6	108.1	106.0	105.7	104.6	102.9	103.2	105.1	p106.5
Compensation per hour	143.6	154.8	139.5	142.0	145.0	147.8	151.7	153.7	156.1	158.1	160.4	161.6	p163.1
Real compensation per hour	95.7	97.2	96.2	95.9	95.2	95.4	97.2	97.2	96.9	97.7	99.2	98.9	p 98.7
Total unit costs	142.7	153.5	138.4	141.1	143.6	147.7	150.9	153.1	153.8	156.3	156.7	155.3	p154.4
Unit labor costs	140.3	150.6	137.0	139.0	140.7	144.6	148.1	150.2	151.1	152.9	153.9	152.5	p152.1
Unit nonlabor costs	149.4	161.8	142.3	147.0	151.9	156.6	158.9	161.2	161.3	165.9	164.7	163.1	p161.0
Unit profits	104.1	88.9	103.0	100.3	108.6	104.2	90.8	90.3	91.2	83.0	96.1	115.0	p131.4
Implicit price deflator	138.3	146.1	134.3	136.4	139.6	142.7	144.0	145.9	146.6	147.9	149.7	150.7	p151.7

p=preliminary.
r=revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

C-11. Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, business sector, seasonally adjusted at annual rate

Item	Quarterly percent change						Annual percent change					
	1982 I to 1982 II	1982 II to 1982 III	1982 III to 1982 IV	1982 IV to 1983 I	1983 I to 1983 II	1983 II to 1983 III	1981 II to 1982 II	1981 III to 1982 III	1981 IV to 1982 IV	1982 I to 1983 I	1982 II to 1983 II	1982 III to 1983 III
BUSINESS SECTOR:												
Output per hour of all persons	-1.6	1.7	3.3	2.0	5.4	r3.5	-0.4	-1.1	0.7	1.3	3.1	r3.5
Output	-1.0	-1.1	-2.3	4.2	12.2	r9.0	-2.6	-4.1	-2.7	-0.1	3.1	r5.6
Hours	0.6	-2.7	-5.4	2.1	6.5	r5.3	-2.2	-3.0	-3.4	-1.4	0.0	r2.0
Compensation per hour	6.4	6.7	5.7	5.4	3.5	r5.3	8.2	7.5	7.1	6.1	5.3	5.0
Real compensation per hour	1.1	-1.0	3.7	5.8	-0.7	r0.5	1.3	1.6	2.5	2.4	1.9	r2.3
Unit labor costs	8.1	5.0	2.3	3.3	-1.8	r1.8	8.7	8.7	6.3	4.7	2.2	r1.4
Unit nonlabor payments	-0.1	-2.0	3.2	10.5	15.0	r3.9	2.7	-2.6	-2.0	2.8	6.5	r8.1
Implicit price deflator	5.5	2.7	2.6	5.5	3.3	r2.5	6.7	4.9	3.5	4.1	3.5	3.5
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	-0.4	2.3	1.3	3.7	6.6	r3.1	-0.3	-0.6	0.8	1.7	3.4	r3.6
Output	0.8	-0.6	-4.1	4.9	13.2	r9.8	-2.5	-3.6	-2.6	0.2	3.1	r5.7
Hours	1.2	-2.9	-5.3	1.2	6.2	r6.5	-2.2	-3.0	-3.4	-1.5	-0.3	r2.0
Compensation per hour	5.8	7.2	5.8	6.8	4.3	r4.2	8.2	7.6	7.2	6.4	6.0	5.3
Real compensation per hour	0.5	-0.6	3.7	7.2	0.1	r-0.5	1.3	1.7	2.6	2.7	2.6	r2.6
Unit labor costs	6.2	4.7	4.4	3.0	-2.1	r1.1	8.5	8.3	6.3	4.6	2.5	r1.6
Unit nonlabor payments	3.7	-3.4	2.0	10.6	15.7	r5.6	4.2	-1.3	-1.6	3.1	6.0	r8.4
Implicit price deflator	5.4	2.2	3.7	5.3	3.2	2.5	7.1	5.2	3.7	4.1	3.6	3.7
MANUFACTURING:												
Output per hour of all persons	0.8	9.6	1.2	8.0	9.0	r11.6	-0.1	1.6	3.5	4.8	6.9	r7.4
Output	-2.9	0.0	-9.0	12.7	21.2	r22.7	-7.7	-8.0	-5.9	-0.1	5.6	11.1
Hours	-3.7	-8.7	-10.0	4.3	11.1	r10.0	-7.6	-9.4	-9.1	-4.7	-1.2	r3.5
Compensation per hour	5.1	6.5	4.5	10.7	2.1	r2.6	8.8	8.6	7.3	6.7	5.9	r4.9
Real compensation per hour	-0.2	-1.2	2.5	11.1	-2.1	r-2.1	1.9	2.6	2.7	3.0	2.5	r2.2
Unit labor costs	4.3	-2.8	3.3	2.5	-6.4	r-8.1	8.9	6.9	3.6	1.8	-0.9	-2.3
DURABLE GOODS												
Output per hour of all persons	1.8	10.4	1.4	8.7	10.3	r11.3	-0.5	1.5	3.4	5.5	7.6	r7.9
Output	-4.0	-2.5	-14.2	15.5	24.0	26.5	-9.7	-10.3	-9.0	-1.9	4.6	11.7
Hours	-5.7	-11.7	-15.4	6.3	12.4	r13.6	-9.2	-11.6	-12.0	-7.0	-2.8	r3.5
Compensation per hour	5.4	7.4	3.8	11.3	1.6	r2.6	8.5	8.6	6.9	7.0	6.0	r4.8
Real compensation per hour	0.1	-0.4	1.8	11.8	-2.5	r-2.1	1.6	2.6	2.3	3.2	2.5	r2.1
Unit labor costs	3.5	-2.7	2.4	2.4	-7.9	r-7.8	9.1	7.0	3.4	1.4	-1.5	-2.9
NONDURABLE GOODS												
Output per hour of all persons	-0.7	8.4	0.7	7.1	7.3	r12.1	0.5	1.6	3.7	3.8	5.8	6.7
Output	-1.4	3.8	-1.2	8.8	17.3	r17.6	-4.7	-4.4	-1.3	2.4	7.0	r10.3
Hours	-0.6	-4.2	-1.9	1.7	9.3	r4.9	-5.2	-6.0	-4.8	-1.3	1.1	r3.4
Compensation per hour	5.2	6.0	7.3	9.2	2.5	r1.6	9.9	9.4	8.8	6.9	6.2	r5.1
Real compensation per hour	-0.1	-1.7	5.2	9.6	-1.6	r-3.0	2.8	3.4	4.1	3.2	2.8	r2.4
Unit labor costs	6.0	-2.2	6.6	2.0	-4.5	r-9.3	9.3	7.6	4.9	3.0	0.4	r-1.5
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	-0.5	3.8	0.6	3.4	6.5	p5.2	0.1	0.2	1.2	1.8	3.6	p3.9
Output	-1.8	-0.5	-6.0	4.6	14.6	p11.3	-3.2	-4.3	-3.7	-1.0	2.9	p5.8
Hours	-1.2	-4.1	-6.5	1.2	7.6	p5.7	-3.3	-4.5	-4.8	-2.7	-0.6	p1.9
Compensation per hour	5.4	6.4	5.4	6.0	2.9	p3.9	8.2	7.6	7.0	5.8	5.2	p4.5
Real compensation per hour	0.1	-1.3	3.4	6.4	-1.2	p-0.8	1.3	1.7	2.4	2.1	1.7	p1.9
Total unit costs	6.0	1.8	6.7	1.0	-3.5	p-2.4	8.5	7.1	5.8	3.8	1.4	p0.4
Unit labor costs	6.0	2.4	4.8	2.5	-3.4	p-1.3	8.1	7.4	5.7	3.9	1.5	p0.6
Unit nonlabor costs	6.0	0.1	11.9	-2.8	-3.8	p-5.2	9.7	6.2	6.0	3.7	1.2	p-0.2
Unit profits	-2.1	3.8	-31.4	79.9	104.7	p70.7	-9.9	-16.1	-20.3	5.8	27.3	p44.1
Implicit price deflator	5.4	1.9	3.6	5.1	2.5	p2.9	7.0	5.0	3.6	4.0	3.3	p3.5

p=preliminary.
r=revised.

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

C-12. 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		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
ALABAMA	\$289.35	\$316.16	\$318.17	39.8	41.6	41.7	\$7.27	\$7.60	\$7.63
Birmingham	290.69	332.00	327.16	37.9	41.5	41.1	7.67	8.00	7.96
Mobile	376.27	420.43	414.41	39.4	41.3	41.4	9.55	10.18	10.01
ALASKA	424.39	447.66	(*)	31.6	32.7	(*)	13.43	13.69	(*)
ARIZONA	334.18	368.83	373.60	38.5	40.8	41.1	8.68	9.04	9.09
ARKANSAS	266.45	288.86	292.33	39.3	40.8	41.0	6.78	7.08	7.13
Fayetteville—Springdale	240.17	258.05	265.37	38.8	39.7	41.4	6.19	6.50	6.41
Fort Smith	268.41	305.03	295.54	38.9	41.5	40.1	6.90	7.35	7.37
Little Rock—North Little Rock	313.63	339.39	343.56	39.6	41.9	42.0	7.92	8.10	8.18
Pine Bluff	361.42	380.14	390.01	40.7	41.5	42.3	8.88	9.16	9.22
CALIFORNIA	366.76	386.88	386.07	39.1	40.3	40.3	9.38	9.60	9.58
COLORADO	337.43	366.62	362.30	39.1	40.6	40.3	8.63	9.03	8.99
Denver—Boulder	352.29	380.57	377.20	39.1	40.4	40.0	9.01	9.42	9.43
CONNECTICUT	336.04	371.18	374.64	40.1	41.8	42.0	8.38	8.88	8.92
Bridgeport	351.82	396.44	398.56	40.3	42.4	42.4	8.73	9.35	9.40
Hartford	365.89	397.28	396.15	40.7	41.6	41.7	8.99	9.55	9.50
New Britain	340.80	384.89	389.00	40.0	41.7	42.1	8.52	9.23	9.24
New Haven—West Haven	318.67	352.46	356.25	39.1	40.7	40.3	8.15	8.66	8.84
Stamford	325.22	344.60	347.67	40.4	39.7	40.1	8.05	8.68	8.67
Waterbury	280.76	336.36	335.60	39.6	44.2	44.1	7.09	7.61	7.61
DELAWARE	343.01	387.60	358.83	39.7	42.5	40.5	8.64	9.12	8.86
Wilmington	391.40	454.31	426.71	38.6	42.9	40.6	10.14	10.59	10.51
DISTRICT OF COLUMBIA: Washington SMSA	369.01	379.45	386.72	38.2	39.9	40.2	9.66	9.51	9.62
FLORIDA	289.20	301.51	303.48	40.0	40.8	40.9	7.23	7.39	7.42
Fort Lauderdale—Hollywood	273.48	289.17	289.24	40.1	42.4	43.3	6.82	6.82	6.68
Jacksonville	320.26	329.25	331.28	39.2	40.9	41.0	8.17	8.05	8.08
Lakeland—Winter Haven	288.95	306.18	322.66	39.8	41.6	42.4	7.26	7.36	7.61
Miami	231.08	235.69	234.93	39.1	38.2	38.2	5.91	6.17	6.15
Orlando	319.99	328.53	331.08	43.3	42.5	42.5	7.39	7.73	7.79
Pensacola	333.26	375.48	390.92	39.3	42.0	43.1	8.48	8.94	9.07
Tampa—St. Petersburg	288.86	302.41	295.94	40.8	41.2	40.1	7.08	7.34	7.38
West Palm Beach—Boca Raton	298.98	311.76	306.11	40.9	40.7	39.6	7.31	7.66	7.73
GEORGIA	272.40	295.65	298.03	40.0	41.7	41.8	6.81	7.09	7.13
Atlanta	321.95	351.08	359.68	39.6	40.4	41.2	8.13	8.69	8.73
Savannah	388.46	418.10	465.12	43.5	45.2	48.4	8.93	9.25	9.61
HAWAII	318.84	322.65	315.71	38.6	39.3	37.9	8.26	8.21	8.33
Honolulu	315.25	328.35	313.17	37.8	39.8	36.8	8.34	8.25	8.51
IDAHO	314.13	363.24	341.30	35.9	39.1	37.3	8.75	9.29	9.15
Boise City	313.50	314.32	327.15	38.0	38.1	38.9	8.25	8.25	8.41
ILLINOIS	362.85	407.38	404.42	39.1	41.4	41.1	9.28	9.84	9.84
Bloomington—Normal	325.53	365.52	359.60	36.7	40.3	39.3	8.87	9.07	9.15
Champaign—Urbana—Rantoul	340.34	345.40	344.29	38.5	37.3	37.1	8.84	9.26	9.28
Chicago SMSA	348.81	394.28	393.05	38.5	40.9	40.9	9.06	9.64	9.61
Davenport—Rock Island—Moline	389.20	491.49	490.59	34.2	39.7	39.5	11.38	12.38	12.42
Decatur	438.90	518.33	519.09	38.0	41.4	41.1	11.55	12.52	12.63
Kankakee	311.28	337.59	336.00	38.1	39.3	40.0	8.17	8.59	8.40
Peoria	422.84	470.26	493.27	42.2	38.8	40.8	10.02	12.12	12.09
Rockford	375.60	404.89	406.96	40.0	41.4	41.4	9.39	9.78	9.83
Springfield	454.95	442.49	458.85	41.7	40.3	41.6	10.91	10.98	11.03
INDIANA	382.00	425.46	421.64	38.9	42.0	41.5	9.82	10.13	10.16
Gary—Hammond—East Chicago	495.20	541.80	(*)	36.9	42.0	(*)	13.42	12.90	(*)
Indianapolis	386.88	(*)	(*)	40.3	(*)	(*)	9.60	(*)	(*)
IOWA	397.32	409.45	405.20	39.3	40.3	40.0	10.11	10.16	10.13
Cedar Rapids	406.22	429.94	419.42	40.3	41.5	40.8	10.08	10.36	10.28
Des Moines	435.20	472.01	479.56	39.6	39.4	39.6	10.99	11.98	12.11

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-12. 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		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
IOWA—Continued									
Dubuque	\$425.88	\$414.91	\$408.24	39.0	38.1	37.8	\$10.92	\$10.89	\$10.80
Sioux City	384.08	323.79	321.92	40.6	38.5	38.6	9.46	8.41	8.34
Waterloo—Cedar Falls	510.12	502.19	506.05	39.0	38.6	38.6	13.08	13.01	13.11
KANSAS	358.38	369.21	371.94	39.6	39.7	39.4	9.05	9.30	9.44
Topeka	337.64	400.75	386.12	36.9	41.4	39.4	9.15	9.68	9.80
Wichita	399.80	406.02	418.54	39.9	40.2	40.4	10.02	10.10	10.36
KENTUCKY	324.86	351.43	352.54	38.4	39.8	39.7	8.46	8.83	8.88
Lexington—Fayette	341.86	382.73	382.18	37.9	40.5	40.4	9.02	9.45	9.46
Louisville	381.42	416.70	408.35	39.0	40.3	39.8	9.78	10.34	10.26
LOUISIANA	390.29	402.17	399.27	41.3	40.5	40.7	9.45	9.93	9.81
Baton Rouge	462.92	483.00	484.83	40.5	42.0	43.6	11.43	11.50	11.12
New Orleans	359.21	358.68	338.19	38.5	39.2	38.3	9.33	9.15	8.83
Shreveport	326.04	382.97	358.66	39.0	39.4	38.4	8.36	9.72	9.34
MAINE	294.52	310.64	306.80	39.8	40.5	40.0	7.40	7.67	7.67
Lewiston—Auburn	229.46	244.67	245.57	38.5	39.4	39.8	5.96	6.21	6.17
Portland	284.10	298.37	295.29	38.6	38.8	38.2	7.36	7.69	7.73
MARYLAND	356.00	370.87	366.12	39.6	40.8	40.5	8.99	9.09	9.04
Baltimore	383.25	394.54	388.14	40.3	41.4	40.9	9.51	9.53	9.49
MASSACHUSETTS	299.52	330.48	324.37	38.4	40.7	39.8	7.80	8.12	8.15
Boston	321.26	350.40	349.84	38.2	40.0	39.8	8.41	8.76	8.79
Brockton	235.21	260.29	246.53	37.1	39.2	38.4	6.34	6.64	6.42
Fall River	209.68	250.04	250.03	34.6	37.6	36.5	6.06	6.65	6.85
Lawrence—Haverhill	305.36	332.88	333.20	38.8	40.3	40.0	7.87	8.26	8.33
Lowell	271.40	304.21	307.04	37.8	40.4	40.4	7.18	7.53	7.60
New Bedford	245.35	288.29	261.36	34.9	39.6	36.2	7.03	7.28	7.22
Springfield—Chicopee—Holyoke	310.84	343.21	341.14	39.8	41.5	41.3	7.81	8.27	8.26
Worcester	301.72	338.92	332.69	38.0	40.3	39.7	7.94	8.41	8.38
MICHIGAN	441.31	512.78	510.60	39.8	43.5	43.3	11.08	11.78	11.79
Ann Arbor	469.18	543.04	539.63	41.4	44.4	44.2	11.33	12.24	12.22
Battle Creek	458.13	510.19	503.01	38.8	41.7	41.3	11.79	12.23	12.18
Bay City	384.23	438.20	447.19	40.1	42.5	44.1	9.58	10.32	10.14
Detroit	470.99	543.50	540.40	40.0	43.8	43.3	11.76	12.42	12.47
Flint	513.23	620.38	641.94	39.9	46.2	48.1	12.86	13.42	13.35
Grand Rapids	363.15	422.11	422.94	39.1	41.8	42.0	9.30	10.11	10.07
Jackson	398.22	403.37	418.95	41.0	41.6	42.8	9.71	9.70	9.78
Kalamazoo—Portage	403.21	465.30	475.62	39.6	42.4	42.9	10.19	10.97	11.09
Lansing—East Lansing	489.84	633.84	573.58	39.6	46.6	43.4	12.38	13.59	13.20
Muskegon—Norton Shores—Muskegon Heights	383.46	410.63	418.65	38.5	39.4	40.4	9.95	10.42	10.36
Saginaw	495.95	598.73	603.10	39.1	43.2	43.4	12.69	13.86	13.90
MINNESOTA	361.03	384.40	392.69	39.2	40.0	40.4	9.21	9.61	9.72
Duluth—Superior	338.07	391.43	396.78	38.2	38.3	38.9	8.85	10.22	10.20
Minneapolis—St. Paul	379.86	415.27	419.76	39.0	40.2	40.4	9.74	10.33	10.39
St. Cloud	288.19	314.13	317.21	35.8	36.4	37.1	8.05	8.63	8.55
MISSISSIPPI	255.02	276.22	276.89	39.6	40.8	40.6	6.44	6.77	6.82
Jackson	275.93	315.12	322.09	38.7	41.3	41.4	7.13	7.63	7.78
MISSOURI	331.57	368.42	366.79	38.6	40.8	40.8	8.59	9.03	8.99
Kansas City	375.20	414.06	415.74	38.8	41.2	41.0	9.67	10.05	10.14
St. Joseph	302.86	326.93	321.40	38.0	39.2	39.1	7.97	8.34	8.22
St. Louis	383.18	415.13	415.34	39.1	40.5	40.6	9.80	10.25	10.23
Springfield	299.53	332.09	324.32	38.9	40.4	39.6	7.70	8.22	8.19
MONTANA	395.41	414.75	422.47	39.9	39.5	40.7	9.91	10.50	10.38
NEBRASKA	342.40	354.55	354.55	40.0	40.8	40.8	8.56	8.69	8.69
Lincoln	333.98	383.39	373.27	38.7	41.9	41.2	8.63	9.15	9.06
Omaha	348.04	367.43	365.31	38.8	40.6	40.1	8.97	9.05	9.11
NEVADA	338.69	359.96	358.80	37.8	39.6	39.0	8.96	9.09	9.20
Las Vegas	432.67	406.21	(*)	38.7	39.4	(*)	11.18	10.31	(*)

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-12. 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		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
NEW HAMPSHIRE	\$280.53	\$307.29	\$310.64	39.4	40.7	40.5	\$7.12	\$7.55	\$7.67
Manchester	259.96	278.10	276.11	38.8	39.9	39.9	6.70	6.97	6.92
Nashua	331.85	364.15	375.15	39.6	41.1	41.0	8.38	8.86	9.15
NEW JERSEY	356.35	383.36	383.68	40.2	41.4	41.3	8.87	9.26	9.29
Atlantic City	278.21	318.54	(*)	39.9	42.7	(*)	6.98	7.46	(*)
Camden ²	405.09	401.58	(*)	43.1	40.4	(*)	9.40	9.94	(*)
Hackensack ³	314.72	338.62	(*)	40.0	41.6	(*)	7.86	8.14	(*)
Jersey City ²	333.85	350.92	(*)	40.4	40.9	(*)	8.27	8.58	(*)
New Brunswick—Perth Amboy—Sayreville ²	392.19	421.89	(*)	39.5	41.0	(*)	9.93	10.29	(*)
Newark ²	372.64	390.82	(*)	40.7	41.4	(*)	9.15	9.44	(*)
Paterson—Clifton—Passaic ³	337.53	372.91	(*)	39.9	41.9	(*)	8.46	8.90	(*)
Trenton	346.43	384.14	(*)	39.5	41.8	(*)	8.78	9.19	(*)
NEW MEXICO	295.46	308.48	296.83	39.5	38.9	38.3	7.48	7.93	7.75
Albuquerque	316.79	288.80	292.33	39.5	37.9	41.0	8.02	7.62	7.13
NEW YORK	325.40	353.33	355.41	38.6	39.7	39.8	8.43	8.90	8.93
Albany—Schenectady—Troy	349.36	377.92	377.92	39.7	40.9	40.9	8.80	9.24	9.24
Binghamton	295.11	321.59	324.39	39.4	40.3	40.6	7.49	7.98	7.99
Buffalo	420.16	466.38	472.58	39.6	41.2	41.6	10.61	11.32	11.36
Elmira	341.68	370.27	364.97	39.5	40.6	39.8	8.65	9.12	9.17
Monroe County ²	446.60	495.13	493.83	40.6	42.5	42.1	11.00	11.65	11.73
Nassau—Suffolk ²	327.46	353.28	357.54	39.5	40.1	40.4	8.29	8.81	8.85
New York—Northeastern New Jersey	315.65	344.67	(*)	38.4	39.5	(*)	8.22	8.71	(*)
New York and Nassau—Suffolk ²	289.79	311.47	316.99	37.2	37.8	38.1	7.79	8.24	8.32
New York SMSA ³	278.50	297.85	304.81	36.5	37.0	37.4	7.63	8.05	8.15
New York City ⁶	275.15	291.40	298.34	36.3	36.7	37.2	7.58	7.94	8.02
Poughkeepsie	340.27	372.37	360.80	41.7	42.9	42.1	8.16	8.68	8.57
Rochester	420.02	456.65	454.73	40.7	42.4	42.3	10.32	10.77	10.75
Rockland County ²	333.72	363.91	375.14	39.4	40.3	40.6	8.47	9.03	9.24
Syracuse	362.69	402.11	401.23	39.9	41.2	40.9	9.09	9.76	9.81
Utica—Rome	303.31	338.92	335.07	38.2	40.3	39.7	7.94	8.41	8.44
Westchester County ⁶	296.35	337.08	352.95	37.8	38.7	39.0	7.84	8.71	9.05
NORTH CAROLINA	246.02	274.70	275.78	38.5	41.0	41.1	6.39	6.70	6.71
Asheville	245.63	269.99	267.33	39.3	40.6	40.2	6.25	6.65	6.65
Charlotte—Gastonia	251.68	280.45	281.11	38.9	42.3	42.4	6.47	6.63	6.63
Greensboro—Winston-Salem—High Point	267.47	290.77	292.25	37.2	39.4	39.6	7.19	7.38	7.38
Raleigh—Durham	294.78	329.10	328.60	39.2	41.5	41.7	7.52	7.93	7.88
NORTH DAKOTA	279.38	295.24	302.18	37.5	37.9	39.5	7.45	7.79	7.65
Fargo—Moorhead	267.36	313.08	319.43	35.6	38.7	40.9	7.51	8.09	7.81
OHIO	404.59	447.94	453.23	39.9	42.1	42.2	10.14	10.64	10.74
Akron	401.76	461.54	464.18	40.5	43.5	43.3	9.92	10.61	10.72
Canton	400.62	442.27	438.62	38.3	40.8	40.5	10.46	10.84	10.83
Cincinnati	387.93	417.13	425.18	40.2	41.3	41.4	9.65	10.10	10.27
Cleveland	397.88	440.77	443.30	39.2	41.7	41.9	10.15	10.57	10.58
Columbus	376.75	410.45	415.33	39.7	40.8	41.0	9.49	10.06	10.13
Dayton	393.39	464.40	468.70	39.3	43.0	43.0	10.01	10.80	10.90
Toledo	454.71	500.46	509.89	41.3	43.9	44.3	11.01	11.40	11.51
Youngstown—Warren	455.09	525.76	554.40	39.3	42.4	44.0	11.58	12.40	12.60
OKLAHOMA	349.48	379.66	382.54	39.4	41.0	41.4	8.87	9.26	9.24
Oklahoma City	359.37	396.32	404.06	38.6	40.9	41.4	9.31	9.69	9.76
Tulsa	379.85	418.32	407.95	39.2	41.5	41.0	9.69	10.08	9.95
OREGON	377.13	395.69	398.95	37.6	39.1	39.5	10.03	10.12	10.10
Eugene—Springfield	389.44	399.25	407.03	37.7	38.5	39.1	10.33	10.37	10.41
Medford	362.63	376.92	383.33	37.5	39.1	39.6	9.67	9.64	9.68
Portland	391.78	420.97	414.22	38.0	40.4	39.6	10.31	10.42	10.46
Salem	284.66	289.52	291.56	35.1	36.1	36.4	8.11	8.02	8.01
PENNSYLVANIA	330.43	359.50	358.49	38.2	39.9	39.7	8.65	9.01	9.03
Allentown—Bethlehem—Easton	322.15	353.66	353.35	37.2	38.4	38.2	8.66	9.21	9.25
Altoona	274.48	304.17	303.02	37.6	39.4	39.2	7.30	7.72	7.73
Delaware Valley ⁷	347.90	372.49	375.80	38.4	39.5	39.6	9.06	9.43	9.49
Erie	374.22	408.37	379.03	40.5	42.1	39.4	9.24	9.70	9.62
Harrisburg	323.65	354.50	352.00	38.9	40.7	40.6	8.32	8.71	8.67
Johnstown	275.37	306.68	302.13	33.5	37.4	37.3	8.22	8.20	8.10

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

C-12. 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		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
PENNSYLVANIA—Continued									
Lancaster	\$307.71	\$333.63	\$337.28	39.2	40.1	40.2	\$7.89	\$8.32	\$8.39
Northeast Pennsylvania	252.34	280.08	275.65	36.1	37.9	37.3	6.99	7.39	7.39
Philadelphia SMSA	351.40	375.01	(*)	38.7	39.6	(*)	9.08	9.47	(*)
Pittsburgh	397.56	437.78	440.19	37.4	40.2	40.2	10.63	10.89	10.95
Reading	314.88	358.16	362.44	38.4	40.7	41.0	8.20	8.80	8.84
Williamsport	319.51	312.83	310.06	39.3	39.8	39.7	8.13	7.86	7.81
York	307.49	341.13	339.08	40.3	41.5	41.2	7.63	8.22	8.23
RHODE ISLAND									
Providence—Warwick—Pawtucket	254.51	278.30	276.11	38.1	39.7	39.5	6.68	7.01	6.99
	252.50	274.22	273.34	38.2	39.8	39.5	6.61	6.89	6.92
SOUTH CAROLINA									
Charleston—North Charleston	263.42	291.70	293.23	39.2	41.2	41.3	6.72	7.08	7.10
Columbia	306.92	371.52	371.95	39.5	43.2	43.1	7.77	8.60	8.63
Greenville—Spartanburg	250.64	282.05	274.62	38.5	40.7	39.8	6.51	6.93	6.90
	249.74	276.60	280.96	38.9	41.1	41.5	6.42	6.73	6.77
SOUTH DAKOTA									
Sioux Falls	297.11	305.98	282.80	40.7	41.8	40.4	7.30	7.32	7.00
	415.36	(*)	(*)	47.2	(*)	(*)	8.80	(*)	(*)
TENNESSEE									
Chattanooga	281.58	310.37	311.54	39.0	41.0	41.1	7.22	7.57	7.58
Knoxville	279.35	311.52	309.28	39.4	42.5	42.6	7.09	7.33	7.26
Memphis	328.70	365.31	362.97	38.9	41.0	41.2	8.45	8.91	8.81
Nashville—Davidson	308.50	338.94	341.43	39.1	42.0	42.1	7.89	8.07	8.11
	312.44	338.22	339.01	39.5	40.7	40.6	7.91	8.31	8.35
TEXAS									
Dallas—Fort Worth	346.26	371.01	371.01	39.8	41.5	41.5	8.70	8.94	8.94
Houston	337.39	368.46	364.97	39.6	41.4	41.1	8.52	8.90	8.88
San Antonio	419.12	454.53	448.56	40.3	42.4	42.0	10.40	10.72	10.68
	248.45	279.55	274.96	38.7	41.6	41.1	6.42	6.72	6.69
UTAH									
Salt Lake City—Ogden	328.23	343.49	345.74	38.3	38.9	39.2	8.57	8.83	8.82
	333.98	347.17	348.88	39.2	40.7	40.9	8.52	8.53	8.53
VERMONT									
Burlington	294.32	319.35	319.71	39.4	41.1	41.2	7.47	7.77	7.76
Springfield	339.06	377.99	373.18	40.9	43.1	42.6	8.29	8.77	8.76
	305.76	321.60	324.41	39.0	40.1	40.2	7.84	8.02	8.07
VIRGINIA									
Bristol	282.98	316.24	316.31	38.5	40.7	40.5	7.35	7.77	7.81
Lynchburg	247.31	256.89	258.07	37.7	39.1	39.4	6.56	6.57	6.55
Norfolk—Virginia Beach—Portsmouth	262.22	297.27	302.25	37.3	40.5	40.3	7.03	7.34	7.50
Petersburg—Colonial Heights—Hopewell	320.17	345.64	364.81	41.1	42.1	43.9	7.79	8.21	8.31
Richmond	323.93	351.29	353.79	39.6	40.8	40.9	8.18	8.61	8.65
Roanoke	381.28	397.31	404.97	39.8	40.5	40.7	9.58	9.81	9.95
	362.07	421.20	415.49	38.6	40.5	40.3	9.38	10.40	10.31
	272.12	282.08	286.06	39.9	41.0	41.1	6.82	6.88	6.96
WASHINGTON									
	436.95	445.38	(*)	38.6	39.0	(*)	11.32	11.42	(*)
WEST VIRGINIA									
Charleston	363.47	393.62	390.45	38.1	39.6	39.4	9.54	9.94	9.91
Huntington	456.21	486.33	500.98	41.1	43.0	42.6	11.10	11.31	11.76
Parkersburg—Marietta	384.71	426.02	428.41	36.5	38.8	38.7	10.54	10.98	11.07
Wheeling	423.63	449.86	443.31	40.5	41.5	41.2	10.46	10.84	10.76
	407.73	458.24	424.13	37.1	39.3	37.5	10.99	11.66	11.31
WISCONSIN									
Appleton—Oshkosh	375.03	402.27	404.01	39.4	41.6	41.1	9.51	9.67	9.83
Green Bay	370.58	406.35	404.07	41.5	43.0	42.4	8.94	9.45	9.53
Janesville—Beloit	369.20	384.05	393.30	39.8	40.9	41.4	9.28	9.39	9.50
Madison	411.98	426.81	427.25	41.3	42.3	41.4	9.97	10.09	10.32
Milwaukee	393.60	501.34	509.58	39.7	42.2	44.7	9.90	11.88	11.40
Racine	500.83	514.61	488.99	41.3	42.6	41.3	12.12	12.08	11.84
	341.61	340.17	350.10	39.0	39.1	38.9	8.76	8.70	9.00
	365.04	379.45	376.51	39.1	41.2	39.8	9.35	9.21	9.46
	413.48	442.39	446.87	39.0	41.0	41.3	10.59	10.79	10.82
	406.21	420.04	418.61	39.9	41.1	40.8	10.19	10.22	10.26
WYOMING									
	312.28	336.04	325.35	37.0	37.8	37.7	8.44	8.89	8.63

See footnotes at end of table.

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

C-12. 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		
	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P	OCT. 1982	SEP. 1983	OCT. 1983P
VIRGIN ISLANDS	419.18	432.01	429.31	42.6	41.7	41.6	9.84	10.36	10.32

¹ Area included in Chicago—Gary Standard Consolidated Statistical Area.

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 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.

NOTE: All State and area data have been adjusted to March 1982 benchmarks except Wisconsin. Data for Idaho have been adjusted to March 1983 benchmarks.

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P
ALABAMA	1,752.4	1,745.3	1,769.2	267.8	214.5	218.3	15.3	12.3	12.3
Birmingham	394.4	388.0	390.4	63.4	47.2	46.7	16.1	12.2	12.0
Huntsville	154.2	158.5	160.4	18.8	14.4	14.8	12.2	9.1	9.3
Mobile	197.4	197.8	201.0	29.7	29.0	28.4	15.0	14.7	14.1
Montgomery	127.5	126.0	128.3	15.3	13.3	14.0	12.0	10.5	10.9
Tuscaloosa	56.5	55.6	56.8	7.3	6.2	6.5	12.9	11.1	11.5
ALASKA	210.6	221.1	215.7	18.9	16.9	18.0	9.0	7.6	8.4
ARIZONA	1,344.7	1,351.8	1,371.8	146.3	106.6	104.7	10.9	7.9	7.6
Phoenix	818.5	828.8	843.1	71.7	51.5	51.0	8.8	6.2	6.0
Tucson	249.9	253.7	256.4	27.0	19.1	19.0	10.8	7.5	7.4
ARKANSAS	1,043.5	1,022.9	1,022.2	97.5	93.7	95.3	9.3	9.2	9.3
Fayetteville-Springdale	83.6	82.6	82.1	5.6	5.3	5.4	6.7	6.4	6.5
Fort Smith ¹	86.5	86.6	86.3	9.3	8.3	8.4	10.7	9.6	9.8
Little Rock—North Little Rock	200.6	194.6	193.8	15.4	15.7	15.6	7.7	8.1	8.1
Pine Bluff	39.4	37.9	38.4	4.1	3.8	3.8	10.4	10.0	9.9
CALIFORNIA²	12,339.2	12,358.0	12,337.9	1,274.3	1,025.8	994.8	10.3	8.3	8.1
Anaheim—Santa Ana—Garden Grove	1,225.1	1,198.7	1,211.5	101.1	66.4	63.3	8.3	5.5	5.2
Bakersfield	212.6	216.5	217.8	28.0	24.3	26.2	13.2	11.2	12.0
Fresno	286.2	340.1	304.9	38.8	30.0	35.2	13.6	8.8	11.5
Los Angeles—Long Beach ²	3,772.0	3,779.0	3,768.0	386.0	356.0	329.0	10.2	9.4	8.7
Modesto	142.9	145.2	139.9	21.9	17.4	19.6	15.3	12.0	14.0
Oxnard—Simi Valley—Ventura	271.1	267.9	269.0	32.8	24.7	24.1	12.1	9.2	8.9
Riverside—San Bernardino—Ontario	648.9	640.7	637.8	87.4	61.7	58.2	13.5	9.6	9.1
Sacramento	524.9	525.6	527.9	57.2	42.4	42.5	10.9	8.1	8.1
Salinas—Seaside—Monterey	147.4	150.7	151.2	13.9	12.7	13.9	9.5	8.4	9.2
San Diego	855.5	851.7	856.6	86.3	59.6	58.1	10.1	7.0	6.8
San Francisco—Oakland	1,789.3	1,769.8	1,790.8	154.2	120.1	115.0	8.6	6.8	6.4
San Jose	839.1	836.0	842.8	64.5	51.1	48.9	7.7	6.1	5.8
Santa Barbara—Santa Maria—Lompoc	166.6	164.9	167.5	13.5	10.0	10.2	8.1	6.0	6.1
Santa Rosa	152.6	152.6	152.1	14.5	10.1	9.7	9.5	6.6	6.4
Stockton	189.5	189.8	182.2	24.8	20.0	22.1	13.1	10.5	12.1
Vallejo—Fairfield—Napa	146.0	144.7	145.8	15.4	12.3	12.0	10.6	8.5	8.3
COLORADO	1,598.0	1,663.4	1,659.6	132.5	98.9	94.3	8.3	5.9	5.7
Denver—Boulder	944.8	985.7	985.9	69.2	51.3	49.4	7.3	5.2	5.0
CONNECTICUT	1,614.1	1,627.3	1,631.4	110.7	79.1	76.4	6.9	4.9	4.7
Bridgeport	195.7	192.3	194.2	16.2	10.9	11.0	8.3	5.6	5.7
Hartford	389.6	395.6	395.3	25.0	18.2	17.2	6.4	4.6	4.4
New Britain	72.7	71.1	71.6	6.7	3.9	4.0	9.3	5.5	5.6
New Haven—West Haven	201.1	199.9	199.8	13.6	11.4	10.5	6.8	5.7	5.2
Stamford	127.0	131.5	130.9	5.6	4.4	4.2	4.4	3.4	3.2
Waterbury	105.8	105.0	105.5	9.2	5.9	5.5	8.7	5.7	5.2
DELAWARE	298.2	291.5	293.7	20.5	21.4	22.5	6.9	7.3	7.7
Wilmington ¹	263.2	257.3	261.1	19.4	20.0	20.0	7.4	7.8	7.7
DISTRICT OF COLUMBIA	316.0	324.5	327.0	34.0	36.1	36.8	10.7	11.1	11.3
Washington SMSA ¹	1,711.7	1,795.5	1,805.9	95.3	84.9	88.2	5.6	4.7	4.9
FLORIDA²	4,937.0	5,113.2	5,003.1	454.0	416.4	432.4	9.2	8.1	8.6
Daytona Beach	120.4	125.2	123.3	9.1	8.4	9.1	7.6	6.7	7.4
Fort Lauderdale—Hollywood	513.2	535.9	524.7	39.2	34.4	36.9	7.6	6.4	7.0
Fort Myers—Cape Coral	108.5	111.9	109.2	8.9	7.3	7.7	8.2	6.5	7.0
Gainesville	81.5	86.5	84.3	3.8	3.6	4.1	4.7	4.2	4.9
Jacksonville	371.0	391.0	383.2	27.1	28.7	31.8	7.3	7.3	8.3
Lakeland—Winter Haven	157.6	155.5	152.9	25.9	27.1	25.9	16.5	17.4	16.9
Melbourne—Titusville—Cocoa	132.5	141.1	138.8	10.7	10.2	11.2	8.1	7.2	8.1
Orlando	883.8	897.4	873.9	97.7	83.0	85.1	11.1	9.2	9.7
Pensacola	418.2	445.3	436.3	32.3	29.4	31.1	7.7	6.6	7.1
Sarasota	133.9	141.8	138.4	11.6	9.4	10.2	8.6	6.6	7.4
Tallahassee	87.2	92.2	90.3	6.8	5.2	5.4	7.8	5.7	5.9
Tampa—St. Petersburg	95.2	92.7	90.3	4.7	4.1	4.5	4.9	4.4	5.0
West Palm Beach—Boca Raton	778.1	807.3	790.0	63.6	55.6	58.7	8.2	6.9	7.4
Tallahassee	291.7	305.9	301.2	28.4	29.0	28.2	9.7	9.5	9.3

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P
GEORGIA	2,692.8	2,694.5	2,696.4	205.5	190.5	192.2	7.6	7.1	7.1
Albany	52.9	53.0	53.3	4.9	5.3	5.3	9.2	10.1	10.0
Athens	67.2	64.7	67.3	4.5	3.9	4.1	6.7	6.0	6.1
Atlanta	1,110.7	1,106.5	1,107.3	71.7	67.8	68.6	6.5	6.1	6.2
Augusta	138.3	134.7	133.6	13.3	12.5	12.0	9.6	9.3	9.0
Columbus	88.6	87.1	87.3	8.3	7.3	7.4	9.3	8.4	8.5
Macon	109.3	108.5	108.0	8.0	8.5	8.4	7.3	7.9	7.8
Savannah	99.1	97.9	98.0	8.3	8.3	8.3	8.3	8.5	8.4
HAWAII	458.6	454.2	465.0	32.1	28.3	27.7	7.0	6.2	5.9
Honolulu	348.9	346.5	356.2	21.9	19.9	19.5	6.3	5.7	5.5
IDAHO	452.7	451.8	451.3	39.5	33.1	30.3	8.7	7.3	6.7
Boise City	91.1	94.1	94.3	6.6	5.7	5.6	7.3	6.1	5.9
ILLINOIS	5,545.8	5,539.2	5,501.3	664.2	544.2	514.5	12.0	9.8	9.4
Bloomington—Normal	62.9	63.3	63.2	5.1	4.0	4.0	8.1	6.2	6.3
Champaign—Urbana—Rantoul	85.8	86.9	89.3	4.9	4.6	4.6	5.7	5.3	5.2
Chicago	3,458.0	3,448.4	3,427.1	384.7	313.9	297.1	11.1	9.1	8.7
Davenport—Rock Island—Moline	192.6	185.8	185.1	30.6	22.4	22.0	15.9	12.0	11.9
Decatur	63.1	62.5	61.0	10.4	7.5	6.9	16.5	12.0	11.3
Kankakee	41.2	40.1	40.4	7.0	5.7	5.5	17.1	14.1	13.6
Peoria	175.1	169.7	166.0	28.9	24.0	22.1	16.5	14.1	13.3
Rockford	135.6	133.6	131.7	26.8	15.1	14.6	19.8	11.3	11.1
Springfield	100.2	101.0	99.9	8.1	6.9	6.8	8.0	6.9	6.8
INDIANA	2,594.2	2,554.9	2,578.9	312.2	226.9	240.4	12.0	8.9	9.3
Anderson	54.3	54.2	54.3	7.9	4.7	4.9	14.5	8.7	9.0
Elkhart	68.1	75.3	75.9	6.8	4.8	5.3	10.0	6.3	7.0
Evansville	148.0	N.A.	N.A.	15.2	N.A.	N.A.	10.2	N.A.	N.A.
Fort Wayne	187.8	181.1	183.2	22.5	17.4	18.5	12.0	9.6	10.1
Gary—Hammond—East Chicago	290.0	272.8	275.2	50.9	35.2	37.8	17.6	12.9	13.7
Indianapolis	602.3	598.7	603.9	58.0	49.1	51.6	9.6	8.2	8.5
Lafayette—West Lafayette	64.8	64.3	65.2	5.0	3.7	4.0	7.8	5.8	6.1
Muncie	55.9	54.8	55.5	7.3	5.2	5.3	13.1	9.5	9.8
South Bend	138.7	138.4	140.1	13.0	10.1	10.4	9.4	7.3	7.4
Terre Haute	79.7	79.3	80.0	8.6	8.0	8.6	10.7	10.1	10.7
IOWA	1,431.6	1,391.7	1,419.1	110.9	82.7	81.4	7.7	5.9	5.7
Cedar Rapids	84.9	79.1	80.7	8.0	5.3	5.5	9.5	6.6	6.8
Des Moines	183.8	176.5	180.3	14.0	10.2	9.8	7.6	5.8	5.5
Dubuque	43.3	41.8	42.9	5.9	3.7	3.6	13.6	8.8	8.3
Sioux City	54.9	53.2	54.1	4.0	3.4	3.0	7.2	6.4	5.5
Waterloo—Cedar Falls	67.0	62.7	63.6	6.7	6.2	6.4	10.0	9.9	10.0
KANSAS	1,186.8	1,183.0	1,184.7	80.2	55.7	55.9	6.8	4.7	4.7
Lawrence	34.2	34.3	34.3	1.6	1.3	1.4	4.6	3.8	4.0
Topeka	93.7	93.9	94.5	6.6	5.3	5.6	7.1	5.7	5.9
Wichita	224.5	222.2	221.9	22.1	13.8	12.5	9.8	6.2	5.6
KENTUCKY	1,707.4	1,654.1	1,674.7	177.7	166.6	171.2	10.4	10.1	10.2
Lexington—Fayette	187.1	N.A.	N.A.	10.8	N.A.	N.A.	5.8	N.A.	N.A.
Louisville	431.1	N.A.	N.A.	50.9	N.A.	N.A.	11.8	N.A.	N.A.
Owensboro	44.1	N.A.	N.A.	3.7	N.A.	N.A.	8.5	N.A.	N.A.
LOUISIANA	1,892.6	1,924.3	1,929.5	216.8	225.5	210.4	11.5	11.7	10.9
Alexandria	76.2	78.3	78.2	9.1	8.5	7.8	12.0	10.9	10.0
Baton Rouge	233.3	241.0	243.0	23.8	23.6	22.0	10.2	9.8	9.1
Lafayette	101.8	101.5	103.1	6.4	8.6	8.2	6.3	8.5	7.9
Lake Charles	76.8	77.2	77.2	11.4	12.2	11.4	14.9	15.8	14.8
Monroe	58.4	58.4	57.9	7.0	6.6	6.3	12.0	11.3	10.8
New Orleans	517.3	519.4	523.6	53.5	55.5	51.7	10.3	10.7	9.9
Shreveport	166.3	170.0	171.2	18.1	19.0	18.1	10.9	11.2	10.6
MAINE	515.0	556.0	529.9	38.0	39.2	39.1	7.4	7.1	7.4
Lewiston—Auburn	38.2	39.9	39.0	3.1	3.1	3.0	8.0	7.7	7.6
Portland	95.4	99.3	100.7	5.4	5.4	5.8	5.7	5.5	5.7
MARYLAND	2,165.8	2,236.2	2,262.9	180.1	128.4	137.3	8.3	5.7	6.1
Baltimore	1,073.3	1,089.9	1,108.1	107.9	72.7	78.4	10.1	6.7	7.1

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P
MASSACHUSETTS¹	3,029.4	3,023.1	3,033.2	219.3	213.0	195.2	7.2	7.0	6.4
Boston	1,470.8	1,462.6	N.A.	90.5	90.1	N.A.	6.2	6.2	N.A.
Brockton	81.6	81.9	N.A.	6.6	6.9	N.A.	8.1	8.4	N.A.
Fall River ¹	77.0	74.5	N.A.	7.8	7.5	N.A.	10.1	10.1	N.A.
Lawrence—Haverhill ¹	149.5	149.8	N.A.	13.3	11.6	N.A.	8.9	7.7	N.A.
Lowell	134.2	134.6	N.A.	9.1	8.3	N.A.	6.8	6.2	N.A.
New Bedford	84.3	86.4	N.A.	8.7	8.4	N.A.	10.3	9.7	N.A.
Springfield—Chicopee—Holyoke	291.4	290.3	N.A.	20.0	22.0	N.A.	6.9	7.6	N.A.
Worcester	206.3	197.7	N.A.	18.5	14.7	N.A.	9.0	7.4	N.A.
MICHIGAN²	4,251.7	4,294.3	4,229.5	632.6	526.7	527.6	14.9	12.3	12.5
Ann Arbor	139.0	N.A.	N.A.	13.5	N.A.	N.A.	9.7	N.A.	N.A.
Battle Creek	81.2	N.A.	N.A.	12.6	N.A.	N.A.	15.5	N.A.	N.A.
Bay City	52.5	N.A.	N.A.	7.7	N.A.	N.A.	14.7	N.A.	N.A.
Benton Harbor	69.8	N.A.	N.A.	11.1	N.A.	N.A.	16.0	N.A.	N.A.
Detroit	1,974.1	N.A.	N.A.	313.0	N.A.	N.A.	15.9	N.A.	N.A.
Flint	222.0	N.A.	N.A.	46.1	N.A.	N.A.	20.8	N.A.	N.A.
Grand Rapids	325.0	N.A.	N.A.	34.9	N.A.	N.A.	10.7	N.A.	N.A.
Jackson	65.1	N.A.	N.A.	10.8	N.A.	N.A.	16.6	N.A.	N.A.
Kalamazoo—Portage	136.5	N.A.	N.A.	14.0	N.A.	N.A.	10.2	N.A.	N.A.
Lansing—East Lansing	240.8	N.A.	N.A.	24.5	N.A.	N.A.	10.2	N.A.	N.A.
Muskegon—Norton Shores—Muskegon Heights	78.7	N.A.	N.A.	14.1	N.A.	N.A.	17.9	N.A.	N.A.
Saginaw	97.4	N.A.	N.A.	14.6	N.A.	N.A.	15.0	N.A.	N.A.
MINNESOTA	2,162.7	2,219.0	2,228.0	158.3	145.5	141.7	7.3	6.6	6.4
Duluth—Superior ¹	117.9	111.4	109.5	22.0	19.6	17.5	18.7	17.6	16.0
Minneapolis—St. Paul	1,165.5	1,191.1	1,209.4	73.9	66.5	65.5	6.3	5.6	5.4
Rochester	58.2	61.0	61.7	3.1	2.8	2.8	5.3	4.6	4.6
St. Cloud	76.4	79.8	80.1	5.9	6.0	5.4	7.7	7.5	6.7
MISSISSIPPI	1,074.7	1,069.2	1,064.8	119.0	122.2	117.0	11.1	11.4	11.0
Jackson	162.3	159.4	159.3	12.4	12.2	11.6	7.7	7.7	7.3
MISSOURI	2,325.1	2,340.5	2,338.8	207.1	192.8	195.9	8.9	8.2	8.4
Kansas City ¹	669.8	665.6	666.3	52.6	45.0	45.1	7.9	6.8	6.8
St. Joseph	45.9	45.8	45.6	4.4	4.1	4.1	9.7	9.0	8.9
St. Louis ¹	1,119.9	1,134.5	1,131.1	110.3	105.5	104.3	9.9	9.3	9.2
Springfield	111.6	114.8	114.8	8.7	7.4	7.5	7.8	6.4	6.5
MONTANA	394.1	385.7	385.9	31.0	25.7	27.7	7.9	6.7	7.2
NEBRASKA	786.6	777.0	782.2	45.3	35.0	36.4	5.8	4.5	4.7
Lincoln	110.4	107.5	108.3	5.4	3.8	4.0	4.9	3.6	3.7
Omaha ¹	285.5	280.9	284.1	20.1	14.6	15.3	7.0	5.2	5.4
NEVADA	493.2	496.8	496.2	50.9	41.8	41.1	10.3	8.4	8.3
Las Vegas	275.9	278.0	278.5	31.0	26.0	25.8	11.2	9.4	9.3
Reno	134.7	135.0	134.9	11.1	8.7	8.5	8.2	6.5	6.3
NEW HAMPSHIRE	490.3	506.0	505.8	36.4	18.0	19.6	7.4	3.6	3.9
Manchester	85.7	87.9	88.9	6.0	3.1	3.3	7.0	3.6	3.8
Nashua	86.0	89.8	90.6	5.9	2.7	2.8	6.8	3.0	3.1
NEW JERSEY	3,635.1	3,650.1	3,650.5	300.0	280.1	217.8	8.3	7.7	6.0
Atlantic City	120.6	124.8	124.3	11.3	10.7	8.3	9.3	8.5	6.7
Jersey City	243.5	242.0	240.4	31.2	29.4	22.3	12.8	12.2	9.3
Long Branch—Asbury Park	250.2	255.1	253.6	19.9	17.7	13.4	8.0	6.9	5.3
New Brunswick—Perth Amboy—Sayreville	336.5	333.9	336.5	25.7	23.7	17.8	7.6	7.1	5.3
Newark	984.4	978.2	986.7	78.9	73.2	55.8	8.0	7.5	5.7
Paterson—Clifton—Passaic	210.7	217.1	217.4	20.9	22.1	16.6	9.9	10.2	7.7
Trenton	158.7	157.3	156.6	12.0	11.2	7.8	7.5	7.1	5.0
Vineland—Millville—Bridgeton	57.4	56.9	56.0	8.1	7.5	6.5	14.0	13.3	11.6
NEW MEXICO	604.7	604.5	603.5	57.2	56.6	55.3	9.5	9.4	9.2
Albuquerque	222.6	226.1	225.0	18.7	18.7	18.5	8.4	8.3	8.2
Las Cruces	39.3	40.5	42.1	3.7	3.8	3.7	9.3	9.4	8.8

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P
NEW YORK¹	7,954.8	8,145.8	8,047.8	716.7	672.5	614.7	9.0	8.3	7.6
Albany—Schenectady—Troy	367.1	377.7	381.0	27.3	25.3	23.9	7.4	6.7	6.3
Binghamton ¹	138.1	N.A.	N.A.	11.3	N.A.	N.A.	8.2	N.A.	N.A.
Buffalo	539.0	539.0	538.4	71.1	57.0	53.8	13.2	10.6	10.0
Elmira	37.5	37.4	37.7	4.7	3.1	3.0	12.6	8.3	8.1
Nassau-Suffolk	1,317.8	1,383.6	1,396.0	88.6	84.6	81.4	6.7	6.1	5.8
New York	3,677.7	3,722.2	3,604.6	348.2	348.1	304.5	9.5	9.4	8.4
New York City ²	3,074.0	3,096.0	2,971.0	312.0	315.0	272.0	10.1	10.1	9.2
Poughkeepsie	112.1	115.8	117.4	7.1	6.6	6.6	6.4	5.7	5.6
Rochester	470.9	477.0	482.2	37.4	36.4	34.5	8.0	7.6	7.1
Syracuse	296.8	307.2	309.7	24.6	20.1	19.3	8.3	6.5	6.2
Utica—Rome	132.1	135.3	134.8	12.4	10.0	9.4	9.4	7.4	7.0
NORTH CAROLINA	2,962.1	2,970.5	2,969.9	267.7	219.6	222.7	9.0	7.4	7.5
Asheville	91.6	93.5	89.6	7.2	5.7	5.9	7.8	6.1	6.6
Charlotte—Gastonia	385.8	391.0	382.0	28.2	24.1	24.4	7.3	6.2	6.4
Greensboro—Winston-Salem—High Point	457.9	465.3	453.5	38.5	29.6	29.8	8.4	6.4	6.6
Raleigh—Durham	324.6	333.3	327.6	15.2	13.3	14.1	4.7	4.0	4.3
NORTH DAKOTA	317.3	316.2	307.0	15.3	11.7	11.6	4.8	3.7	3.8
Fargo—Moorehead ¹	73.1	71.3	72.7	3.2	2.4	2.1	4.4	3.3	2.8
OHIO²	5,176.5	5,123.0	5,175.8	682.5	568.3	550.2	13.2	11.1	10.6
Akron	309.3	311.8	314.9	38.3	33.9	34.0	12.4	10.9	10.8
Canton	195.8	192.0	194.4	31.8	24.4	24.7	16.3	12.7	12.7
Cincinnati ¹	690.0	N.A.	N.A.	75.2	N.A.	N.A.	10.9	N.A.	N.A.
Cleveland	939.9	931.8	940.8	110.7	99.8	97.0	11.8	10.7	10.3
Columbus	574.9	581.0	597.0	51.2	49.2	49.4	8.9	8.5	8.3
Dayton	393.4	390.4	395.4	45.2	35.9	34.8	11.5	9.2	8.8
Toledo ¹	374.3	N.A.	N.A.	47.7	N.A.	N.A.	12.8	N.A.	N.A.
Youngstown—Warren	239.2	231.9	232.5	48.5	33.7	31.8	20.3	14.5	13.7
OKLAHOMA	1,476.3	1,522.2	1,523.7	100.6	119.7	122.9	6.8	7.9	8.1
Enid	30.8	32.1	32.1	2.0	2.2	2.3	6.6	6.8	7.1
Lawton	35.0	35.8	36.3	2.0	2.2	2.4	5.8	6.2	6.7
Oklahoma City	458.9	480.8	481.1	22.9	28.6	29.9	5.0	5.9	6.2
Tulsa	351.7	357.8	357.7	26.9	31.2	32.0	7.6	8.7	8.9
OREGON	1,308.6	1,334.5	1,323.9	135.0	115.1	120.7	10.3	8.6	9.1
Eugene—Springfield	129.2	129.9	130.7	14.6	12.2	12.2	11.3	9.4	9.3
Medford	62.7	67.1	65.8	7.6	5.3	5.6	12.1	7.9	8.4
Portland ¹	652.5	655.2	651.0	64.8	58.1	60.2	9.9	8.9	9.2
Salem	125.5	131.2	127.7	10.9	9.1	9.8	8.6	6.9	7.7
PENNSYLVANIA¹	5,530.9	5,512.5	5,567.9	619.5	548.9	529.8	11.2	10.0	9.5
Allentown—Bethlehem—Easton ¹	310.5	N.A.	N.A.	34.8	N.A.	N.A.	11.2	N.A.	N.A.
Altoona	55.7	N.A.	N.A.	7.6	N.A.	N.A.	13.6	N.A.	N.A.
Erie	127.5	N.A.	N.A.	16.2	N.A.	N.A.	12.7	N.A.	N.A.
Harrisburg	237.7	N.A.	N.A.	16.0	N.A.	N.A.	6.7	N.A.	N.A.
Johnstown	106.7	N.A.	N.A.	19.6	N.A.	N.A.	18.4	N.A.	N.A.
Lancaster	185.4	N.A.	N.A.	12.7	N.A.	N.A.	6.8	N.A.	N.A.
Northeast Pennsylvania	291.0	N.A.	N.A.	31.9	N.A.	N.A.	11.0	N.A.	N.A.
Philadelphia ¹	2,213.9	N.A.	N.A.	185.3	N.A.	N.A.	8.4	N.A.	N.A.
Pittsburgh	1,039.8	N.A.	N.A.	144.6	N.A.	N.A.	13.9	N.A.	N.A.
Reading	160.2	N.A.	N.A.	15.5	N.A.	N.A.	9.7	N.A.	N.A.
Sharon	55.7	N.A.	N.A.	9.7	N.A.	N.A.	17.4	N.A.	N.A.
State College	52.3	N.A.	N.A.	4.9	N.A.	N.A.	9.3	N.A.	N.A.
Williamsport	52.6	N.A.	N.A.	5.9	N.A.	N.A.	11.3	N.A.	N.A.
York	183.7	N.A.	N.A.	20.0	N.A.	N.A.	10.9	N.A.	N.A.
RHODE ISLAND	482.3	481.8	484.7	45.1	32.1	31.6	9.3	6.7	6.5
Providence—Warwick—Pawtucket ¹	478.3	472.0	N.A.	45.8	33.4	N.A.	9.6	7.1	N.A.
SOUTH CAROLINA	1,497.8	1,435.1	1,427.2	161.3	122.8	115.1	10.8	8.6	8.1
Charleston—North Charleston	179.9	176.1	175.4	15.2	13.8	12.8	8.5	7.8	7.3
Columbia	200.5	193.8	196.3	14.6	11.7	11.7	7.3	6.0	6.0
Greenville—Spartanburg	297.1	277.1	280.5	31.0	21.4	19.5	10.4	7.7	6.9
SOUTH DAKOTA	331.3	331.6	325.6	17.1	14.0	13.4	5.2	4.2	4.1
Sioux Falls	63.5	64.1	64.6	2.8	2.3	2.4	4.4	3.6	3.6
TENNESSEE	2,148.7	2,178.8	2,208.2	247.6	203.8	208.8	11.5	9.4	9.5
Chattanooga ¹	196.5	198.0	201.2	19.2	17.1	18.3	9.8	8.6	9.1
Knoxville	232.9	235.2	238.1	20.6	20.7	20.7	8.8	8.8	8.7
Memphis ¹	406.7	406.9	409.9	39.6	35.2	35.8	9.7	8.6	8.7
Nashville—Davidson	448.3	444.6	447.2	37.7	30.7	30.1	8.4	6.9	6.7

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Civilian labor force			Unemployment					
				Number			Percent of labor force		
	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P	Oct. 1982	Sept. 1983	Oct. 1983P
TEXAS²	7,362.9	7,724.3	7,666.0	558.1 ¹	662.7	532.2	7.6	8.6	6.9
Abilene	76.0	80.6	80.2	3.8	4.7	3.6	5.0	5.8	4.5
Amarillo	95.0	100.5	100.3	4.9	5.6	4.6	5.2	5.6	4.5
Austin	296.3	310.5	311.2	13.4	13.7	11.1	4.5	4.4	3.6
Beaumont—Port Arthur—Orange	180.6	185.6	181.7	22.3	28.0	21.9	12.4	15.1	12.0
Brownsville—Harlingen—San Benito	82.4	89.3	86.6	12.0	15.4	12.4	14.6	17.3	14.3
Bryan—College Station	50.8	52.8	53.4	2.1	2.2	1.7	4.1	4.2	3.2
Corpus Christi	162.9	175.2	171.3	12.7	21.9	17.4	7.8	12.5	10.2
Dallas—Fort Worth	1,705.9	1,800.6	1,799.6	99.4	100.2	81.6	5.8	5.6	4.5
El Paso	190.6	198.9	195.1	22.8	25.0	20.4	12.0	12.5	10.5
Galveston—Texas City	89.1	93.3	92.1	10.4	12.3	9.6	11.7	13.2	10.4
Houston	1,750.5	1,813.2	1,794.3	137.5	182.3	145.9	7.9	10.1	8.1
Killeen—Temple	69.5	74.6	74.2	4.2	4.7	3.7	6.0	6.3	5.0
Laredo	40.0	41.1	39.4	8.9	10.8	8.6	22.2	26.2	21.7
Longview—Marshall	78.9	82.1	80.1	9.3	10.2	8.0	11.8	12.5	9.9
Lubbock	105.7	111.4	110.7	5.3	7.5	6.2	5.0	6.7	5.6
McAllen—Pharr—Edinburg	109.7	118.0	115.8	20.3	29.6	22.8	18.5	25.1	19.7
Midland	62.9	68.2	69.2	3.0	4.4	3.8	4.8	6.5	5.5
Odessa	72.1	75.0	74.1	4.5	7.3	5.7	6.3	9.7	7.7
San Angelo	46.6	47.7	47.6	2.5	2.6	2.2	5.3	5.4	4.5
San Antonio	467.9	502.2	501.9	29.9	33.2	27.4	6.4	6.6	5.5
Sherman—Denison	39.5	39.7	39.3	3.6	3.1	2.5	9.0	7.9	6.5
Texarkana	51.0	52.3	51.8	5.0	5.3	4.7	9.7	10.1	9.0
Tyler	71.1	75.5	75.7	4.7	5.0	4.2	6.6	6.7	5.5
Waco	83.9	87.4	87.9	5.4	4.8	4.3	6.4	5.5	4.9
Wichita Falls	66.3	68.2	68.1	5.0	4.5	3.8	7.5	6.6	5.5
UTAH	675.9	678.7	679.5	53.5	51.0	49.4	7.9	7.5	7.3
Salt Lake City—Ogden	441.2	440.3	443.4	35.2	32.1	30.8	8.0	7.3	6.9
VERMONT	268.0	268.6	269.3	16.7	13.5	13.5	6.2	5.0	5.0
Burlington	70.6	70.4	71.0	3.2	2.9	2.7	4.5	4.2	3.8
VIRGINIA	2,661.7	2,728.4	2,728.8	201.4	137.9	147.0	7.6	5.1	5.4
Lynchburg	76.2	76.5	76.4	6.8	4.0	4.2	9.0	5.2	5.4
Newport News—Hampton	171.1	178.7	180.5	11.5	7.8	9.7	6.7	4.4	5.4
Norfolk—Virginia Beach—Portsmouth	345.7	359.3	360.0	25.3	18.7	19.8	7.3	5.2	5.5
Petersburg—Colonial Heights—Hopewell	58.4	57.4	57.4	6.2	4.4	4.7	10.5	7.6	8.2
Richmond	339.5	348.6	347.7	20.3	14.4	15.2	6.0	4.1	4.4
Roanoke	112.2	116.9	115.9	8.8	6.2	6.1	7.8	5.3	5.3
WASHINGTON	2,024.3	2,059.2	2,067.6	240.0	194.7	201.6	11.9	9.5	9.8
WEST VIRGINIA	769.9	751.4	755.1	115.4	113.8	113.7	15.0	15.1	15.1
Charleston	122.5	117.6	118.7	13.3	13.3	14.3	10.8	11.3	12.1
Huntington—Ashland ¹	123.4	N.A.	N.A.	18.3	N.A.	N.A.	14.8	N.A.	N.A.
Parkersburg—Marietta ¹	74.5	73.5	73.1	9.6	9.5	9.2	12.9	13.0	12.5
Wheeling	83.5	80.2	80.8	12.9	12.4	12.3	15.4	15.5	15.3
WISCONSIN	2,460.3	2,427.9	2,438.8	254.9	202.5	210.2	10.4	8.3	8.6
Appleton—Oshkosh	152.7	151.3	153.4	14.7	12.2	12.7	9.6	8.1	8.3
Eau Claire	60.6	61.3	62.2	5.2	4.7	5.0	8.6	7.8	8.0
Green Bay	95.9	97.5	98.5	8.1	7.6	8.1	8.5	7.8	8.2
Janesville—Beloit	73.9	72.5	73.0	10.6	7.0	6.9	14.3	9.6	9.5
Kenosha	61.3	61.5	62.4	5.9	5.0	5.2	9.6	8.1	8.3
La Crosse	51.3	51.8	52.9	4.1	3.8	3.9	8.1	7.3	7.4
Madison	193.5	195.2	195.2	11.8	11.4	11.3	6.1	5.9	5.8
Milwaukee	740.2	709.5	718.6	85.1	63.9	64.7	11.5	9.0	9.0
Racine	86.0	82.4	82.8	12.1	8.1	8.3	14.0	9.9	10.0
WYOMING	255.3	263.5	255.9	16.8	18.1	16.2	6.6	6.9	6.3

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.)

becomes available. Data refer to place of residence.

p = preliminary.

N.A. = not available.

NOTE: Estimates for 1982 have been benchmarked to 1982 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1983 are provisional and will be revised when new benchmark information

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 Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The report "Employment and Unemployment in States and Local Areas" is published monthly through GPO and is available on microfiche only on a subscription basis.

Explanatory Notes

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 60,000 households, representing 629 areas in 1,148 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 earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of establishments employing over 30 million nonagricultural wage and salary workers. The data relate to all workers, full- or part-time, who received pay during the payroll period which includes the 12th day of the month.

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 definitions 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, unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises, and members of the Armed Forces stationed in the United States. Civilian employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of nonagricultural establishments.

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

Unpaid absences from jobs. The household survey includes among the employed all civilians 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 disputes, 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.

Hours of work

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

Earnings

The household survey measures median earnings of wage and salary workers in all occupations and industries in both the private and public sectors. Data refer to the usual earnings received from the workers' sole or primary job. Data from the establishment survey generally refer to mean earnings of production and related workers in mining and manufacturing, construction workers in construction, and nonsupervisory employees in private service-producing industries. For a comprehensive discussion of the household survey earnings series, see *Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey*, BLS Bulletin 2113.

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, whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total \$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*.

Agricultural employment estimates of the Department of Agriculture. The principal differences in coverage are the inclusion of persons under 16 in the Economics and Statistics Service 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 Census from its censuses or annual sample survey of manufacturing establishments and the censuses of business establishments. The major reasons for some noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the BLS statistics.

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

Employment covered by State unemployment insurance programs. Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in this BLS establishment statistics.

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

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 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 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 the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment," are obtained from the Department of Defense.

Each month about 60,000 occupied units are eligible for interview. About 2,500 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 or 5 percent. In addition to the 60,000 occupied units, there are 11,000 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next and one-half to be common with the same month a year earlier.

CONCEPTS AND DEFINITIONS

The concepts and definitions underlying labor force data have been modified, but not substantially altered, since the inception of the survey in 1940; those used since 1967 are as follows:

Employed persons are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own 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 disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

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 who are temporarily in the United States but not living on the premises of an embassy. Excluded are persons whose only activity consisted of work around the house (painting, repairing, or own home housework) or volunteer work for religious, charitable, and similar organizations.

Unemployed persons are all civilians who had no employment during the survey week, were available for work, except for temporary illness, and (a) had made specific efforts to find employment sometime during the prior 4 weeks, or (b) were waiting to be recalled to a job from which they had been laid off, or (c) were waiting to report to a new 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.

Unemployment is also categorized according to the status of individuals at the time they began to look for work. The 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. Each of these four categories of the unemployed may be expressed as an unemployment rate or proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers.

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 those 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 job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some other method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated labor pickup point.

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

The *overall unemployment rate* represents the number unemployed as a percent of the labor force, including members of the Armed Forces stationed in the United States.

The *unemployment rate for all civilian workers* 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, race, ethnic origin, marital status, etc.

Participation rates represent the proportion of the population that is in the labor force. The *labor force participation rate*, is the ratio of the labor force, including the resident Armed Forces, to the noninstitutional population. The *civilian labor force participation rate* is the ratio of the civilian labor force to the civilian noninstitutional population. Civilian labor force participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.

Employment-population ratios represent the proportion of the noninstitutional population that is employed. The *total employment-population ratio* is total employment, including the resident Armed Forces, as a percent of the noninstitutional population. The *civilian employment-population ratio* is the percentage of all employed civilians in the civilian noninstitutional population.

Not in the labor force includes all persons 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, retired, and other. The "other" group includes individuals reported as too old or temporarily unable to work, the voluntarily idle, seasonal workers for whom the survey week fell in an off season and who were not reported as looking for work, and persons who did not look for work because they believed that no jobs were available in the area or that no jobs were available for which they could qualify—discouraged workers. Persons doing only incidental, unpaid family work (less than 15 hours in the specified week) are also classified as not in labor force.

For persons not in the labor force, data on previous work experience, intentions to seek work, desire for a job at the time of interview, and reasons for not looking for work are published 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 these questions were asked in those households entering the sample for the first time and those returning for the second 4 months of interviewing, 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 job lasting 2 weeks or more. The classifications of occupations and industries used in data derived from the CPS are defined as in the 1980 census. 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, persons who normally work 40 hours a week but were off on the Columbus Day holiday would be reported as working 32 hours even though they were 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; all the hours are credited to the major job.

The distribution of employment by hours worked relates to persons at work during the survey week. At-work data differ from data on total employment because the latter include persons in the zero-hours-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 or part time) and by their reason for working part time during the survey week (economic or other reasons). Economic reasons include: Slack work, material shortages, repairs to plant or equipment, start or termination of a job during the week, and inability to find full-time work. Other reasons include: Labor dispute, bad weather, own illness, vacation, demands of home, housework, school, no desire for full-time work, and full-time worker only during peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1 to 34 hours for noneconomic reasons and usually work full time.

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 that: (1) Unemployed persons looking for full-time work lost an average of 37.5 hours, (2) 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) persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

White, black, and other are terms used to describe the race of workers. Included in the "other" group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. All tables in this publication which contain racial data, with the exception of A-4 and its annual counterpart, present data for the black population group. Because of their relatively small sample size, data for "other" races are not published. In the enumeration process, race is determined by the household respondent.

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 of other Hispanic origin or descent. Persons of Hispanic origin may be of any race; thus they are included in both the white and black population groups.

Major activity: Going to school and *Major activity: Other* are terms used to describe whether the activity of young persons during the reference week is primarily one of going to school or not. These statistics are published in table A-6 for 16- to 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. Data are limited to men in the civilian noninstitutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

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

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

Usual weekly earnings data are provided from responses to the question "How much does...USUALLY earn per week at this job before deductions?" Included are any overtime pay, commissions, or tips usually received. The term "usual" is as perceived by the respondent. If the respondent asks for a definition of usual, interviewers are instructed to define the term as more than half the weeks worked during the past 4 or 5 months. Data refer to wage and salary workers and the incorporated self-employed, who usually work full time on their sole or primary job.

Single, never married; married, spouse present; and other marital status are terms used to define the marital status of individuals at the time of interview. Married, spouse present, applies to husband and wife if both were reported as members of the same household even

though one may be temporarily absent on business, vacation, on a visit, in a hospital, etc. Other marital status applies to persons who are married, spouse absent; widowed; or divorced. Married, spouse absent, includes persons who are separated because of marital discord, as well as persons who are living apart because either the husband or the wife was employed and living away from home, serving in the Armed Forces, or had a different place of residence for any reason.

A *household* consists of all persons—related family members and all unrelated persons—who occupy a housing unit. A house, an apartment, a group of rooms, or a single room is regarded as a housing unit when occupied or intended for occupancy as separate living quarters.

A *householder* is the person (or one of the persons) in whose name the housing unit is owned or rented. The term is never applied to either husbands or wives in married-couple families but relates only to persons in families maintained by either men or women without a spouse.

Family refers to a group of two or more persons residing together who are related by blood, marriage, or adoption; all such persons are considered as members of one family even though they may include a subfamily, that is, a married couple or a parent-child group related by blood or marriage to the householder and sharing the living quarters. The count of families used in this publication includes primary families only, that is, all persons in the household who are related to the householder. Excluded are secondary families which include lodgers, guests, or resident employees living in a household but not related to the householder. Families are classified either as married-couple families or as families maintained by women or men without spouses. A family maintained by a woman or a man is one in which the householder is either single, widowed, divorced, or married, spouse absent. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

HISTORICAL COMPARABILITY

Change in lower age limit

The lower age limit for official statistics on the labor force, employment, and unemployment was raised from 14 to 16 years of age in January 1967. Insofar as possible, historical series have been revised to provide consistent information based on the population 16 years and over. For a detailed discussion of this and other definitional changes introduced at that time, including estimates of their effect on the various series, see "New Definitions for Employment and Unemployment," *Employment and Earnings and Monthly Report on the Labor Force*, February 1967.

Noncomparability of labor force levels

In addition to the changes introduced in 1967, there are several other periods of noncomparability in the labor force data: (1) Beginning in 1953, as a result of introducing data from the 1950 census into the estimating procedures, population levels were raised by about 600,000; labor force, total employment, and agricultural employment were increased by about 350,000, primarily affecting the figures for totals and men; other categories were relatively unaffected. (2) Beginning in 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 increase was in nonagricultural employment; other labor force categories were not appreciably affected. (3) Beginning in 1962, the introduction of data from the 1960 census reduced the population by about 50,000 and labor force and employment by about 200,000; unemployment totals were virtually unchanged. (4) Beginning in 1972, information from the 1970 census was introduced into the estimation procedures, increasing the population by 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. (5) A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment, which affected the white and black-and-other groups but had little effect on totals, 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.

In addition, 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 estimates had its greatest impact on estimates of 20- to 24-year-old men—particularly those of the black-and-other population—but had little effect on estimates of the total population 16 years and over. 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 in 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 men and 46,000 women. 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 January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the 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 by the interviewer as before. The purpose of this change was to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. The new procedure had no significant effect on the estimates.

Beginning in January 1979, the first-stage ratio estimation method was changed in the CPS estimation procedure. Differences between the old and new procedures exist only for metropolitan and nonmetropolitan area estimates, not for the total United States. The reasoning behind the change and an indication of the differences appear in "Change in the Estimation Procedure for the Current Population Survey Beginning in January 1979" in the February 1979 issue of *Employment and Earnings*.

Beginning in January 1982, the second-stage ratio adjustment methodology was changed in the CPS estimation procedure. The new procedure is described in the Estimating Methods section. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1982" in the February 1982 issue of *Employment and Earnings*. In addition, current population estimates used in the second-stage estimation procedure are derived from information obtained from the 1980 census, rather than the 1970 census. This change caused substantial increases in total population and estimates of persons in all labor force categories. Rates for labor force characteristics, however, remained virtually unchanged. Some 30,000 labor force series were adjusted back to 1970 to avoid major breaks in series. The adjustment procedure used is also described in the February 1982 article cited above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 that are described above, and data users should make allowances for them in making certain data comparisons.

Beginning in January 1983, the first-stage ratio adjustment methodology was updated to account for

results obtained from the 1980 census. The new procedure is described in the Estimating Methods section. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*. There are only slight differences between the old and new procedures in estimates of level for the various labor force characteristics and virtually no differences in estimates of participation rates.

Changes in the occupational and industrial classification system.

Beginning in 1971, the comparability of occupational employment data was affected as a result of changes in the occupational classification system for the 1970 census that were introduced into the CPS. Comparability was further affected in December 1971, when a question relating to major activity or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. As a result of these changes, meaningful comparisons of occupational employment levels could not be made between 1971-72 and prior years nor between those 2 years. Unemployment rates were not significantly affected. For a further explanation of the changes in the occupational classification system, see "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*.

Beginning in January 1983, the occupational and industrial classification systems used in the 1980 census were introduced into the CPS. These systems differ from those developed for the 1970 census which were used in the CPS from January 1971 through December 1982.

The 1980 census occupational classification system evolved from the Standard Occupational Classification system (SOC). While the CPS occupational data are now comparable with other data sources, the new system is so radically different in concepts and nomenclature from the 1970 system that comparisons of historical data are not possible without major adjustments. For example, the 1980 major group "sales occupations" is substantially larger than the 1970 category "sales workers." Major additions include "cashiers" from "clerical workers" and some self-employed proprietors in retail trade establishments from "managers and administrators, except farm."

The industrial classification used in the 1980 census is based on the 1972 Standard Industrial Classification system (SIC), as modified in 1977. The adoption of the new system had much less of an adverse effect on historical comparability than did the new occupational

system. The most notable changes from the 1970 system were the transfer of farm equipment stores from "retail" to "wholesale" trade, postal service from "public administration" to "transportation", and some interchange between "professional and related services" and "public administration."

Additional information on the 1980 census occupational and industrial classification systems appears in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*.

Changes in the 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, the number of sample areas and the number of sample persons are increased occasionally. In 1953, the current rotation plan was introduced in which a sample unit is interviewed for 4 months, leaves the sample for 8 months, and then returns to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added 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 noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated into the design. A coverage improvement sample, composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units, was included

in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction units that previously had no chance for selection in the CPS sample. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. Beginning in January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to SMSA's, which were redefined in 1973.

Table A provides a description of some aspects of the CPS sample design in use during the different data collection periods. A more detailed account of the history of the CPS sample design appears in *The Current Population Survey: Design and Methodology*, Technical Paper No. 40, Bureau of the Census, or *Concepts and Methods Used in Labor Force Statistics Derived From the Current Population Survey*, Report 463 Bureau of Labor Statistics.

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. The estimation procedure involves weighting the data from each sample person. The basic weight, which is the inverse of the probability of the person being in the sample, is a rough measure of the number of actual persons that the sample person represents. In States supplemented in the 1978 and 1980 expansions, almost all sample persons within the 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

Table A. Characteristics of the CPS sample, 1947 to date

Time period	Number of sample areas	Households eligible		Households visited but not eligible
		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	¹ 330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963	² 333	33,500	1,500	6,000
Mar. 1963 to Dec. 1966	357	33,500	1,500	6,000
Jan. 1967 to July 1971	449	48,000	2,000	8,500
Aug. 1971 to July 1972	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977	461	45,000	2,000	8,000
Jan. 1978 to Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to Apr. 1981	629	62,200	2,800	12,000
May 1981 to present	629	57,800	2,500	11,000

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

² Three sample areas were added in 1960 to represent Alaska and Hawaii after statehood.

respondents 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 residential categories. For sample areas which are Standard Metropolitan Statistical Areas, (SMSA's), these residence categories are the central cities, the urban, and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 4 to 5 percent, depending on weather, vacations, etc.

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

a. *First-stage ratio estimate.* In the CPS, a portion of the 629 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South, and West), and second, for each of the 46 States which contains nonsample areas. Effective with January 1983 data, the procedure corrects for the differences that existed at the time of the 1980 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 race only. Prior to January 1983, the State adjustment was also done by urban-rural status. At both the regional and the State levels, the race-residence categories were changed from white/nonwhite to black/nonblack. The residence categories at the State level of the estimation procedure were dropped because definitional differences between the 1970 census and the 1980 census made it impossible to continue using the same categories.

b. *Second-stage ratio estimate.* In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current

estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment which is performed to further reduce variability of the estimates and to correct to some extent for CPS undercoverage relative to the decennial census, is carried out in two 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 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 adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1982. The nature and effect of these changes are discussed in detail in "Revisions in the Current Population Survey Beginning in January 1982" in the February 1982 issue of *Employment and Earnings*.

The 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, 1980, 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, use Report 640 of that series. A description 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.

Beginning with the January 1982 estimates, the independent national controls used for the age-sex-race groups in the final step of the second-stage ratio adjustment are prepared by carrying forward the April 1, 1980, total population by age, race, and sex, taking account of the subsequent aging of the population, fertility, mortality, and net immigration, and then subtracting the estimate for the institutional population and Armed Forces. The April 1, 1980, total population was computed by adding together the resident population, consistent with that published for the 1980 census in *Advance Reports*, Series PHC80-V, and the Armed Forces overseas, as compiled from Department of Defense reports.

Data on births and deaths between April 1, 1980, and the estimate date are based on tabulations of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of

Personnel Management, and the Puerto Rico Planning Board. The civilian noninstitutional population is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 census to the total population, including Armed Forces overseas for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national control totals are then obtained by collapsing these cells into broader age groups for the population 16 years and older.

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. Similarly, sums of percent distributions may not always equal 100 percent because of rounding. 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 error. The full extent of nonsampling error is unknown, but special studies have been conducted to quantify 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 repre-

sent all sample households and all persons within sample households (undercoverage).

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

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates varies by rotation group. A description of these effects appears in the "The Effects of Rotation Group Bias on Estimates from Panel Surveys," by Barbara A. Bailar, *Journal of the American Statistical Association*, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Compared to the level of the decennial census, undercoverage is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for men than for women, and larger for black, and other races combined 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 1980 census.

Additional information on nonsampling error in the CPS appears 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 Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive and up-to-date discussion of various sources of error, 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 enable one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from each sample, then:

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

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in this volume reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, 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 B and C show approximate standard errors for major employment status characteristics for monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H 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 2 consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors for levels, labor force participation rates, and percentages as pertaining to the 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 1956-66 period, they should be multiplied by 1.22. Table K provides generalized standard errors for quarterly estimates

Table B. Standard errors for major employment status categories

(In thousands)

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
Total, 16 years and over:		
Civilian labor force	255	195
Employed	276	209
Unemployed	152	149
Men, 20 years and over:		
Civilian labor force	155	135
Employed	173	152
Unemployed	110	106
Women, 20 years and over:		
Civilian labor force	190	144
Employed	190	148
Unemployed	90	92
Both sexes, 16 to 19 years:		
Civilian labor force	83	89
Employed	86	97
Unemployed	64	69
Black, 16 years and over:		
Civilian labor force	87	66
Employed	96	72
Unemployed	73	74
Men, 20 years and over:		
Civilian labor force	51	45
Employed	59	53
Unemployed	52	54
Women, 20 years and over:		
Civilian labor force	67	47
Employed	66	50
Unemployed	46	50
Both sexes, 16 to 19 years:		
Civilian labor force	33	37
Employed	28	32
Unemployed	32	32

Table C. Standard errors for unemployment rates by major characteristics

Characteristic	Standard error of—		Characteristic	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers)	0.13	0.13	Occupation—Continued		
Men, 20 years and over . . . . .	.18	.18	Precision production, craft, and repair	0.42	0.48
Women, 20 years and over . . . . .	.20	.20	Machine operators, assemblers and inspectors . . . . .	.58	.68
Both sexes, 16 to 19 years . . . . .	.69	.81	Transportation and material moving . . . . .	.74	.89
White workers . . . . .	.14	.14	Handlers, equipment cleaners, helpers and laborers . . . . .	.83	.99
Black workers . . . . .	.60	.64	Farming, forestry, and fishing . . . . .	.71	.88
Married men, spouse present . . . . .	.19	.21	Industry		
Married women, spouse present . . . . .	.23	.25	Nonagricultural private wage and salary workers . . . . .	.16	.17
Full-time workers . . . . .	.15	.15	Mining	1.82	2.16
Part-time workers . . . . .	.34	.43	Construction . . . . .	.84	1.04
Unemployed 15 weeks and over . . . . .	.09	.11	Manufacturing . . . . .	.33	.38
Occupation			Durable goods . . . . .	.45	.52
Executive, administrative, and managerial . . . . .	.27	.31	Nondurable goods . . . . .	.49	.57
Professional specialty . . . . .	.22	.24	Transportation, communications, and public utilities . . . . .	.53	.61
Technicians and related support . . . . .	.53	.62	Wholesale and retail trade . . . . .	.31	.36
Sales . . . . .	.34	.38	Finance and services . . . . .	.23	.26
Administrative support, including clerical . . . . .	.27	.31	Government workers . . . . .	.26	.29
Private household	1.17	1.30	Agricultural wage and salary workers	1.33	1.65
Protective service . . . . .	.92	1.05			
Service, except private household and protective . . . . .	.43	.50			

of persons and families for use with the CPS earnings data.

Standard errors for estimated totals. Tables D and E 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 in a given month 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 D shows that the standard error on an estimate of 12,000,000 is about 159,000. The 68-percent confidence interval as shown by these data is from 11,841,000 to 12,159,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E, the standard error on a month-to-month change of 400,000, when the monthly level is approximately 12,000,000, is about 118,000.

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 upon 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, the quarterly average base is less than 60,000, or the annual average base is less than 35,000.

Tables F and G show generalized standard errors for monthly level and month-to-month change for unemployment rates. Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentages can be obtained through the use of the standard errors in table H and the factors in table I. First obtain the standard error from table H for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table H by the appropriate factor from table I. When the numerator and denominator of the percentage are indifferent categories, use the factor indicated by the numerator of the percentage.

Illustration. Assume that in a given month 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. The standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table H (0.09 percent). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 3.6 percent is then approximately 0.09 x 1.26 = 0.1 percentage point.

Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. The approximate standard errors of levels, rates, and percentages involving year-to-year change of

monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages may be obtained by using table J 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 J to obtain the approximate standard error for the average or change.

Illustration. Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume 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 tables F (0.12 percentage point). The appropriate factor, then, from table J is 1.40. The approximate standard error on the change of 0.8 percent is then given by $0.12 \times 1.40 = 0.17$ percentage point. The approximate standard error of levels involving year-to-year change of quarterly estimates pertaining to

CPS earnings data for persons and families may be obtained by using table K in conjunction with the following formula:

$$\text{Standard error of year-to-year change} = \sqrt{\left(\frac{\text{Standard error}}{X}\right)^2 + \left(\frac{\text{Standard error}}{Y}\right)^2 - 2(P)\left(\frac{\text{Standard error}}{X}\right)\left(\frac{\text{Standard error}}{Y}\right)}$$

Where x is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P , is a measure of the correlation between the estimates X and Y resulting from the presence of some of the same respondents in the sample for each estimate. For consecutive year-to-year changes of quarterly estimates, the values of P are .30 for persons (total, white, and black) and .35 for families (total, white, and black). The respective values for estimates of Hispanics are .45 and .55.

Illustration. Assume that in a given quarter the number of women employed as full-time wage and salary workers was 27,000,000 and in the same quarter a year later, their number had increased to 29,000,000. Using linear interpolation in the eighth column of table K, the standard error of an estimate of 27,000,000 is 216,000; for 29,000,000 it is 221,000. Using the above formula, the standard error of the 2,000,000, year-to-year change is:

$$\sqrt{(216,000)^2 + (221,000)^2 - 2(.30)(216,000)(221,000)}$$

or about 259,000.

Table D. Standard errors for estimates of monthly level

(in thousands)

Estimated monthly level	Characteristic ¹								
	Agricultural employment	Labor force data other than unemployment and agricultural employment data						Unemployment	
		Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only	Total or white	Black
50	14	11	11	11	11	10	10	10	11
100	19	15	15	15	15	14	14	15	16
500	43	34	34	33	29	32	31	33	35
1,000	61	48	47	46	33	45	42	47	49
2,000	85	68	64	63	-	63	55	66	67
4,000	120	95	64	80	-	87	66	93	88
6,000	146	116	94	86	-	105	58	113	99
8,000	-	133	97	63	-	120	23	129	-
10,000	-	147	94	70	-	132	-	143	-
15,000	-	177	50	-	-	155	-	172	-
20,000	-	201	-	-	-	170	-	195	-
30,000	-	236	-	-	-	188	-	-	-
40,000	-	261	-	-	-	189	-	-	-
50,000	-	278	-	-	-	175	-	-	-
60,000	-	288	-	-	-	141	-	-	-
70,000	-	293	-	-	-	61	-	-	-
80,000	-	293	-	-	-	-	-	-	-
100,000	-	273	-	-	-	-	-	-	-
120,000	-	231	-	-	-	-	-	-	-

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, or 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 E. Standard errors for estimates of month-to-month change

(in thousands)

Estimated monthly level	Characteristic ¹							
	Labor force data other than unemployment and agricultural employment data				Unemployment			
	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white	Both sexes 18 to 19 years, or part-time labor force ²	Black	Black, 16 to 19 years
50	8	8	13	13	12	13	12	12
100	11	11	18	18	16	18	17	18
500	25	25	39	34	37	40	38	35
1,000	36	35	54	36	51	54	52	37
2,000	50	47	72	-	72	70	69	-
4,000	70	62	88	-	99	78	85	-
6,000	86	70	88	-	118	60	87	-
8,000	98	73	71	-	132	-	-	-
10,000	109	71	-	-	143	-	-	-
15,000	131	42	-	-	160	-	-	-
20,000	148	-	-	-	165	-	-	-
30,000	174	-	-	-	-	-	-	-
40,000	191	-	-	-	-	-	-	-
50,000	203	-	-	-	-	-	-	-
60,000	210	-	-	-	-	-	-	-
70,000	212	-	-	-	-	-	-	-
80,000	211	-	-	-	-	-	-	-
100,000	193	-	-	-	-	-	-	-
120,000	153	-	-	-	-	-	-	-

¹ See footnote 1, table D.

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 F. Standard errors for unemployment rates

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50	2.09	2.94	4.57	6.28	7.46	8.34	9.01	9.05	9.87	10.21
100	1.48	2.08	3.23	4.44	5.28	5.90	6.37	6.73	6.98	7.22
500 .....	.66	.93	1.45	1.99	2.36	2.64	2.85	3.01	3.12	3.27
1,000 .....	.47	.66	1.02	1.40	1.67	1.87	2.01	2.13	2.21	2.28
2,000 .....	.33	.46	.72	.99	1.18	1.32	1.42	1.50	1.56	1.61
4,000 .....	.23	.33	.51	.70	.83	.93	1.01	1.06	1.10	1.14
6,000 .....	.19	.27	.42	.57	.68	.76	.82	.87	.90	.93
10,000 .....	.15	.21	.32	.44	.53	.59	.64	.67	.70	.72
20,000 .....	.10	.15	.23	.31	.37	.42	.45	.47	.49	.51
60,000 .....	.06	.08	.13	.18	.21	.24	.26	.27	.27	.29
100,000 .....	.05	.07	.10	.14	.17	.19	.20	.21	.22	.22

Table G. Standard errors for month-to-month change in unemployment rates

Monthly base of unemployment rate (in thousands)	Monthly unemployment rate (percent)									
	1	2	5	10	15	20	25	30	35	50
50	2.32	3.28	5.14	7.18	8.69	9.90	10.93	11.81	12.58	14.48
100	1.64	2.32	3.64	5.08	6.14	7.00	7.12	8.35	8.89	10.17
500 .....	.73	1.04	1.63	2.27	2.74	3.13	3.45	3.73	3.97	4.53
1,000 .....	.52	.73	1.15	1.60	1.94	2.21	2.44	2.63	2.80	3.19
2,000 .....	.37	.52	.61	1.13	1.37	1.56	1.72	1.85	1.97	2.24
4,000 .....	.26	.37	.57	.80	.96	1.10	1.20	1.30	1.38	1.56
6,000 .....	.21	.30	.47	.65	.78	.89	.98	1.05	1.11	-
10,000 .....	.16	.23	.36	.50	.60	.66	.75	.80	-	-
20,000 .....	.12	.16	.25	.35	.42	.47	.51	.54	-	-
60,000 .....	.07	.09	.14	.19	.22	.23	.24	-	-	-
100,000 .....	.05	.07	.11	.14	.15	.15	-	-	-	-

Table H. Standard errors for 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	2.14	3.01	4.69	6.46	7.68	6.61	9.32	9.86	10.27	10.76
100	1.51	2.13	3.32	4.57	5.43	6.09	6.59	6.97	7.26	7.61
500 .....	.66	.95	1.48	2.04	2.43	2.72	2.95	3.12	3.25	3.40
1,000 .....	.48	.67	1.05	1.44	1.72	1.92	2.08	2.21	2.30	2.41
2,000 .....	.34	.48	.74	1.02	1.22	1.36	1.47	1.58	1.62	1.70
4,000 .....	.24	.34	.52	.72	.86	.96	1.04	1.10	1.15	1.20
6,000 .....	.20	.28	.43	.59	.70	.79	.85	.90	.94	.98
10,000 .....	.15	.21	.33	.46	.54	.61	.66	.70	.73	.76
20,000 .....	.11	.15	.23	.32	.38	.43	.47	.49	.51	.54
40,000 .....	.08	.11	.17	.23	.27	.30	.33	.35	.36	.38
60,000 .....	.06	.09	.14	.19	.22	.25	.27	.28	.30	.31
80,000 .....	.05	.08	.12	.16	.19	.22	.23	.25	.26	.27
100,000 .....	.05	.07	.10	.14	.17	.19	.21	.22	.23	.24
160,000 .....	.04	.05	.08	.11	.13	.15	.16	.17	.18	.19

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

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

Characteristic	Factor		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 and unemployment data:			Total or white:		
Total	1.00	.74	Total .....	.97	1.08
Men only .....	.93	.84	Both sexes, 16 to 19 years .....	.97	1.21
Women only .....	.66	.75	Black:		
Both sexes, 16 to 19 years	1.00	1.16	Total	1.04	1.13
Part-time labor force	1.00	1.16	Both sexes, 16 to 19 years	1.04	1.24

Table J. Factors to be used with Tables, D, F, H, and I to compute the approximate standard errors for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages and change in yearly averages,

Characteristic	Factor				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or men	1.30	0.89	0.80	0.72	0.70
Women or teenagers (16 to 19 years)	1.30	.83	.80	.58	.70
Part time	1.40	.74	.60	.46	.70
Labor force data other than agricultural employment and unemployment data:					
Total or white	1.30	.88	.88	.67	.70
Black or teenagers (16 to 19 years)	1.30	.82	.88	.57	.70
Part time	1.40	.74	.88	.48	.60
Unemployment:					
Total	1.40	.76	.88	.50	.65
Part time	1.40	.69	.86	.39	.54

Table K. Standard errors for estimates of quarterly level, to be used with CPS earnings data

(In thousands)

Estimated quarterly level	Characteristic								
	Total			Men			Women		
	Part-time workers	Total or full-time workers		Part-time workers	Total or full-time workers			Total, full-time, or part-time workers	
		Total or white	Black		Total	White	Black	Total or white	Black
10	5	5	5	5	5	5	5	5	5
50	11	12	12	11	12	12	11	11	11
75	13	15	15	13	15	15	13	13	13
100	15	17	17	15	17	17	15	15	15
150	19	21	21	19	21	21	19	19	19
200	22	24	24	22	24	24	22	21	21
250	24	27	27	24	27	27	24	24	24
300	26	30	30	26	30	30	26	26	26
500	34	36	36	34	38	38	34	33	33
750	42	47	46	42	47	47	42	41	41
1,000	48	54	53	48	54	54	48	46	46
1,500	59	66	63	59	66	66	59	56	56
2,000	68	76	72	68	76	76	68	63	63
2,500	76	85	79	75	84	84	75	69	69
3,000	83	93	85	82	92	92	82	74	74
5,000	107	119	100	105	117	116	105	85	85
7,500	130	145	107	127	140	138	127	-	-
10,000	149	165	102	144	157	155	145	-	-
15,000	160	198	-	187	183	179	173	-	-
20,000	205	224	-	192	199	193	195	-	-
25,000	226	244	-	207	209	199	211	-	-
30,000	224	261	-	219	212	198	224	-	-
40,000	273	286	-	236	201	174	242	-	-
50,000	296	301	-	-	-	-	-	-	-
75,000	331	304	-	-	-	-	-	-	-
100,000	343	255	-	-	-	-	-	-	-

Establishment Data (B and C tables)

COLLECTION

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

Federal-State cooperation

Under cooperative arrangements, responding establishments report employment, hours, and earnings data to State agencies. State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the reported data to prepare State and area series and also send the reported data to the BLS (Washington Office) for use in preparing the national series. This avoids a duplicate reporting burden on establishments, and together with the use of similar estimating techniques at the national and State levels, promotes increased comparability between estimates.

Shuttle schedules

Form BLS 790—Report on Employment, Payroll, and Hours is the name of the data collection schedule. 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 total number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month.

CONCEPTS

Industrial classification

Establishments reporting on Form BLS 790 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the principal product or activity.

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

BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

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, on paid vacation, or who work during a part of the pay period even though they are unemployed or on strike during the rest of the period are counted as employed. Not counted as employed are persons who are on layoff, on leave without pay, on strike for the entire period, or who were hired but have not yet reported during the period.

Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries.

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, trucking, hauling, maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with the above production operation.

Construction workers include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices,

helpers, laborers, etc., engaged in new work, alterations, demolition, repair, maintenance, etc., whether working at the site of construction or working in shops or yards at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.

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

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

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

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

Gross average hourly and weekly earnings. Average hourly earnings are on a "gross" basis. They reflect not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers paid on an incentive plan. They also reflect

shifts in the number of employees between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

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

Gross average weekly earnings estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. Therefore, weekly earnings are affected not only by changes in gross average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as proportion of part-time workers, stoppages for varying reasons, labor turnover during the survey period, and absenteeism for which employees are not paid may cause the average workweek to fluctuate.

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

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

Average overtime hours. The overtime hours represent that portion of the gross average weekly hours which exceeded regular hours and for which overtime premiums were paid. If an employee were to work on a paid holiday at regular rates, receiving as total compensation his or her holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

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

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

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

“Real” earnings, or earnings in constant dollars, are calculated from the earnings averages for the current month using a deflator derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W).

Average hourly earnings excluding overtime. Average hourly earnings excluding overtime premium pay are computed by dividing the total production-worker payroll for the industry group by the sum of total production-worker hours and one-half of total overtime hours. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-40). Both methods eliminate only the earnings due to overtime paid for at 1½ times the straight-time rates. No adjustments is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

Indexes of aggregate weekly payrolls and hours. The indexes of aggregate weekly payrolls and hours are prepared by dividing the current month’s aggregate by the average of the 12 monthly figures for 1977. For basic industries, 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 level of industry aggregation, hour and payroll aggregates are the sum of the component aggregates.

Indexes of diffusion of changes in number of employees on nonagricultural payrolls. These indexes measure the percent of industries which posted increases in employ-

ment over the specified time span. The indexes are calculated from 186 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*.

ESTIMATING METHODS

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

The “link relative” technique

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

Size and regional stratification

A number of industries are stratified by size of establishment and/or by region, and the stratified production or nonsupervisory worker data are used to weight the hours and earnings into broader industry groupings. Accordingly, the basic estimating cell for an employment, hours, or earnings series, as the term is used in the summary of computational methods in table L, 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 1982 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by States agencies from reports of establishments covered

Table L. Summary of methods for computing industry statistics on employment, hours, and earnings

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-employee 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.
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
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 by 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.

¹ The estimates result from multiplying the product shown by bias adjustment factors to compensate for the underrepresentation of newly formed enterprises in the sample and other bias sources.

² The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are

modified by a wedging technique designed to compensate 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.

under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonagricultural payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1982 benchmark adjustment is shown in table M.

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. Revised data are published as soon as possible after each benchmark revision.

THE SAMPLE

Design

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of 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 percent of total employment is included in the sample. Consequently,

Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1982

Industry division	Benchmark, March 1982	Estimate, March 1982	Percent difference
Total	89,566,000	89,679,000	0.1
Mining	1,205,000	1,178,000	2.2
Construction	3,638,000	3,631,000	.2
Manufacturing	19,213,000	19,207,000	(¹)
Transportation and public utilities	5,070,000	5,049,000	.4
Wholesale and retail trade	20,062,000	20,306,000	-1.2
Finance, insurance, and real estate	5,294,000	5,304,000	-.2
Services	18,888,000	18,828,000	.3
Government	16,196,000	16,176,000	.1

¹ Less than 0.05 percent.

the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

In the context of the BLS employment statistics program, with its emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after the reference period, and, at a somewhat later date, statistics in considerably greater industrial detail.

Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table N 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.

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

Table N. Approximate size and coverage of BLS employment and payrolls sample, March 1982¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	189,000	36,371,200	41
Mining	2,600	434,500	36
Construction	18,600	721,800	20
Manufacturing	47,700	10,612,300	55
Transportation and public utilities:			
Railroad transportation (ICC)	37	401,800	92
Other transportation and public utilities	8,500	2,840,800	61
Wholesale and retail trade	45,900	3,511,300	18
Finance, insurance, and real estate	13,100	1,967,100	37
Services	31,600	4,150,600	22
Government:			
Federal ²	5,000	2,725,000	100
State and local	16,000	9,006,000	67

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

² National estimates of Federal employment by agency are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 5,000 reports covering about 63 percent of employment in Federal establishments.

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 O presents the average percent revisions of the five most recent benchmarks for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for basic estimating cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table O and for individual industries with the specified number of employees in table P. 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-

Table O. Average benchmark revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry division

(In percent)

Industry division	Average benchmark revision in estimates of employment ¹	Relative errors ²	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.4	-	-
Total private .....	.4	0.1	0.2
Mining	1.4	1.0	1.3
Construction	1.9	.2	.5
Manufacturing .....	.3	.1	.2
Durable goods .....	.3	.1	.3
Nondurable goods .....	.4	.1	.2
Transportation and public utilities .....	.4	.7	.6
Trade .....	.8	.1	.3
Wholesale .....	.4	.2	.4
Retail	1.0	.2	.4
Finance, insurance, and real estate .....	.4	.2	.4
Services .....	.6	.4	.6
Government ³ .....	.5	-	-

¹ The average percent revision in employment for the following benchmarks: 1978, 1979, 1980, 1981, and 1982.

² Relative errors relate to 1982 data.

³ Estimates for government are based on a total count for Federal Government and, prior to the March 1979 revision, samples for State and local government benchmarked to a quinquennial census of government conducted by the Bureau of the Census.

square error (RMSE). The measure is the standard deviation adjusted for the bias in estimates:

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

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

Approximations of the root-mean-square errors (based on the most recent benchmark revisions) of differences between final estimates and benchmarks are presented in table P.

Table P. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings

Size of employment estimate	Root-mean-square error of employment estimates ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
50,000	2,100	2.2	4.0
100,000	3,900	1.3	2.3
200,000	5,600	1.1	2.0
500,000	14,000	.9	1.6
1,000,000	15,000	.8	1.2
2,000,000	26,000	.5	.9

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to 1982 data.

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q presents root-mean-square errors of the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

STATISTICS FOR STATES AND AREAS

State and area employment, hours, and earnings 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

Table Q. Errors of preliminary employment estimates

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
INDUSTRY DIVISIONS		
Total nonagricultural employment	101,000	88,000
Goods producing	42,000	36,000
Mining	5,000	5,000
Construction	22,000	18,000
Manufacturing	33,000	29,000
Durable two-digit industries	6,300	5,900
Nondurable two-digit industries	4,500	4,500
Service-producing	77,000	72,000
Transportation and public utilities	14,000	15,000
Wholesale and retail trade	31,000	28,000
Finance, insurance, and real estate	6,000	7,000
Services	30,000	24,000
Government	61,000	53,000

NOTE: Division level data are based on differences from January 1977 through December 1982. Two-digit industry data are based on differences from January 1982 through December 1982.

each cooperating State agency are presented in a summary volume published annual by the BLS.

PRODUCTIVITY DATA

Tables C-9, C-10, and C-11 are compiled by the Bureau of Labor Statistics from establishment data and from estimates of compensation and gross national product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

Definitions

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

Output is the constant-dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of all persons measure changes in the volume of goods and services produced per paid hour of labor input.

Compensation per hour includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

Real compensation per hour is compensation per hour adjusted to eliminate the effect of changes in the Consumer Price Index for All Urban Consumers (CPI-U).

Unit labor costs measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour. *Unit nonlabor payments* includes 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 business sector and the nonfarm business sector, these indexes relate to the gross domestic product less household and institutions, owner-occupied hous-

ing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business.

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly

measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

State and Area Unemployment Data (D 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 of determining eligibility of an area for benefits under Federal programs such as the Job Training and Partnership Act and the Public Works and Economic Development Act.

ESTIMATING METHODS

Labor force and unemployment in 10 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts, and Florida; and two areas: Los Angeles-Long Beach metropolitan area and New York city, are sufficiently reliable to be used directly from the CPS. For a description of the CPS concepts see "Household Data," above.

Monthly labor force and unemployment estimates in the remaining 40 States, District of Columbia, and 239 labor market areas are prepared in several stages. Labor force is the sum of the employment and unemployment levels, which are estimated in accordance with the BLS *Manual for Developing Local Area Unemployment Statistics*.

1. *Preliminary estimate—employment:* The total employment estimate is based on data from the survey of establishments which produces an estimate of payroll employment. This place-of-work estimate must be adjusted to refer to place of residences as used in the CPS. Factors for adjusting from place of work to place of residence have been developed for the several categories of employment 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, to which are added estimates for employment not covered by UI.

2. *Preliminary estimate—unemployment:* In the current month, the estimate of unemployment is an aggregate of the estimates for each of three building block categories: (1) Persons who were previously employed in

industries covered by State unemployment insurance (UI) laws; (2) those previously employed in industries not covered by these laws; and (3) those who were entering the labor force for the first time or reentering after a period of separation. This is referred to below as the UI-based estimate.

An estimate for those previously employed in covered industries is derived from a count of current employment 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 person 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 noncovered 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 experienced unemployed; (c) the level of experienced labor force; and (d) proportion of the working age population that is considered "youth." The composite estimate of total entrants is defined as:

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

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

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

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

5. *Benchmark correction procedures.* Once each year monthly estimates prepared by the 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 and the District of Columbia 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 the 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 third 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 CPS annual averages.

Seasonal Adjustment

Over the course of a year, the size of the Nation's labor force, the levels of employment and unemployment, and other measures of labor market activity undergo sharp fluctuations due to such seasonal events as changes in weather, reduced or expanded production, harvests, major holidays, and the opening and closing of schools. Because these seasonal events follow a more or less regular pattern each year, their influence on statistical trends can be eliminated by adjusting the statistics from month to month. These adjustments make it easier to observe the cyclical and other nonseasonal movements in the series. In evaluating changes in a seasonally adjusted series, it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors but are also affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment-based data are published regularly in *Employment and Earnings*.

The seasonal adjustment program used for these series is an adaptation of the standard ratio-to-moving average method. It provides for "moving" adjustment

factors to take account of changing seasonal patterns. A detailed description of the method is given in *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

Beginning in January 1980, BLS introduced two major modifications in the seasonal adjustment methodology for data from the household survey. First, the data are being seasonally adjusted with a new procedure called X-11 ARIMA, which was developed at Statistics Canada as an extension of the existing standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum, Statistics Canada Catalogue NO. 12-564E, February 1980. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjusted labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which places more emphasis on recent data, provides better seasonal adjustments than does the X-11 method alone.

The second change is that seasonal factors are now calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, BLS calculates and publishes in *Employment and Earnings* a

set of seasonal factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years are made at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970.

All 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 (men and women under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is the sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

Revised seasonally adjusted data for selected labor force series based on the experience through December 1982, new seasonal adjustment factors to be used to calculate the overall unemployment rate for the first 6 months of 1983, and a description of the current seasonal adjustment methodology are published in the January 1983 issue of *Employment and Earnings*. Revised seasonally adjusted data covering the 1978-82 revision period for a broad range of labor force series appear in the February 1983 issue of this publication. Many additional series, which are either components or aggregates of the series presented, are available from BLS upon request.

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current estimates are based on data through March 1983. The ARIMA model options for projecting the data series for 1 year ahead have been used in seasonally adjusting the establishment series, introduced with June 1981 data.

Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for

most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours.

Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1977 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 1977 base.

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These failed or unsatisfactory seasonally adjusted series are used in the aggregation to broader level seasonally adjusted series.

Prior to June 1983, seasonal factors for Federal Government employment were derived from unadjusted data which excluded Christmas temporary workers employed by the Postal Service. In earlier years the number of these workers were substantial, and at times varied greatly from year to year, based on administrative decisions of the Postal Service. Hence, it was considered desirable to exclude this group from the unadjusted data upon which the seasonal factors were based. In the past several years, the number of these workers have decreased to the point where their presence has no impact on seasonal adjustment. Beginning with the release of revised seasonal factors in June 1983, Christmas temporary Postal workers are not excluded from the calculation of seasonal factors for Federal Government employees. This change affects the seasonally adjusted Federal Government series from January 1978 forward. Temporary census takers for the 1980 decennial census will continue to be removed prior to the calculation of seasonal factors for Federal Government employment. The revised seasonally adjusted series for the establishment data reflect experience through March 1983. Seasonal factors to be used for current adjustment appear in the June 1983 issue of *Employment and Earnings*.

U.S. Department of Labor Bureau of Labor Statistics

REGION I - BOSTON 1603 JFK Federal Bldg. Government Center - Room 1603 A Boston, Mass. 02203	REGION II - NEW YORK Suite 3400 1515 Broadway New York, N.Y. 10036	REGION III - PHILADELPHIA 3535 Market Street P.O. Box 13309 Philadelphia, Pa. 19101	REGION IV - ATLANTA Suite 540 1371 Peachtree Street, NE. Atlanta, Ga. 30367
REGION V - CHICAGO 9th Floor 230 S. Dearborn Street Chicago, Ill. 60604	REGION VI - DALLAS 2nd Floor 555 Griffin Square Bldg. Dallas, Tex. 75202	REGIONS VII & VIII - KANSAS CITY 15th Floor 911 Walnut Street Kansas City, Mo. 64106	REGION IX & X - SAN FRANCISCO 450 Golden Gate Avenue Box 36017 San Francisco, Calif. 94102

COOPERATING STATE AGENCIES

Current Employment Statistics Program (CES), and State and Local Area Unemployment Statistics Program (LAUS)

BLS Region	
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X ALASKA	-Employment Security Division, Department of Labor, P.O. Box 1149, Juneau 99802
IX ARIZONA	-Department of Economic Security, 733-A, P.O. Box 1623, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, State Capitol Mall, P.O. Box 2981, Little Rock 72203
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VIII COLORADO	-Division of Employment and Training, 1278 Lincoln Street, Denver 80203
I CONNECTICUT	-Employment Security Division, Labor Department, 200 Folly Brook Boulevard, Wethersfield 06109
III DELAWARE	-Department of Labor, University Plaza Office Complex, Bldg. D, Chapman Rd., Route 273, Newark 19713
III DIST. OF COL.	-Division of Labor Market Information, Research and Analysis, Department of Employment Services, 500 C Street N.W., Room 411, Washington 20001
IV FLORIDA	-Bureau of Research and Analysis, Depart. of Labor and Employment Security, Caldwell Building, Tallahassee 32301
IV GEORGIA	-Department of Labor, 254 Washington Street, S.W., Atlanta 30334
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IV KENTUCKY	-Department for Manpower Services, Cabinet for Human Resources, 275 E. Main Street, Frankfort 40621
VI LOUISIANA	-Department of Labor, P.O. Box 44094, Capitol Station, 1001 N. 23rd St., Baton Rouge 70804
I MAINE	-Division of Research and Analysis, Department of Labor, 20 Union Street, Augusta 04330
III MARYLAND	-Research and Analysis Division, Department of Human Resources, 1100 North Eutaw Street, Baltimore 21201
I MASSACHUSETTS	-Division of Employment Security, Charles F. Hurley Building, Government Center, Boston 02114
V MICHIGAN	-Research and Statistics Division, Employment Security Commission, 7310 Woodward Avenue, Detroit 48202
V MINNESOTA	-Department of Economic Security, 390 North Robert Street, St. Paul 55101
IV MISSISSIPPI	-Employment Security Commission, P.O. Box 1699, Jackson 39205
VII MISSOURI	-Division of Employment Security, P.O. Box 59, Jefferson City 65101
VIII MONTANA	-Department of Labor and Industry, P.O. Box 1728, Helena 59601
VII NEBRASKA	-Division of Employment, Department of Labor, P.O. Box 94600, Lincoln 68509
IX NEVADA	-Employment Security Research, 500 East Third Street, Carson City 89713
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II NEW JERSEY	-Division of Planning and Research, Department of Labor, P.O. Box 2765, Trenton 08625
VI NEW MEXICO	-Employment Services Department, Department of Human Services, P.O. Box 1928, Albuquerque 87103
II NEW YORK	-Division of Research and Statistics, Department of Labor, State Campus, Building 12, Albany 12240
IV NORTH CAROLINA	-Labor Market Information Division, Employment Security Commission, P.O. Box 25903, Raleigh 27611
VIII NORTH DAKOTA	-Employment Security Bureau, P.O. Box 1537, Bismarck 58505
V OHIO	-Division of Research and Statistics, Bureau of Employment Services, 145 S. Front St., Columbus 43216
VI OKLAHOMA	-Research and Planning Division, Employment Security Commission, Room 310, Will Rogers Memorial Office Building, Oklahoma City 73105
X OREGON	-Employment Division, Department of Human Resources, 875 Union Street N.E., Salem 97311
III PENNSYLVANIA	-Research and Statistics Division, Department of Labor and Industry, 7th and Forster Streets, Harrisburg 17121
II PUERTO RICO	-Department of Labor and Human Resources, Bureau of Labor Statistics, 505 Munoz Rivera Ave., 17th Fl., Hato Rey 00918 (CES). Bureau of Employment Security, 505 Munoz Rivera Ave., 15th Fl., Hato Rey 00918 (LAUS)
I RHODE ISLAND	-Department of Employment Security, 24 Mason Street, Providence 02903
IV SOUTH CAROLINA	-Employment Security Commission, P. O. Box 995, Columbia 29202
VIII SOUTH DAKOTA	-Department of Labor, P.O. Box 1730, Aberdeen 57401
IV TENNESSEE	-Department of Employment Security, Cordell Hull Office Building, Room 519, 436--6th Avenue, North, Nashville 37219
VI TEXAS	-Employment Commission, 15th and Congress Avenue, Austin 78778
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I VERMONT	-Department of Employment and Training, P.O. Box 488, Montpelier 05602
III VIRGINIA	-Division of Research and Analysis, Employment Commission, P.O. Box 1358, Richmond 23211
II VIRGIN ISLANDS	-Bureau of Labor Statistics, 35 Norre Gade, P.O. Box 818, St. Thomas 00801
X WASHINGTON	-Employment Security Department, 212 Maple Park, Olympia 98504
III WEST VIRGINIA	-Division of Labor and Economic Security, Department of Employment Security, 112 California Avenue, Charleston 25305
V WISCONSIN	-Department of Industry, Labor, and Human Relations, P.O. Box 7944, Madison 53707
VIII WYOMING	-Employment Security Commission, P.O. Box 2760, Casper 82602