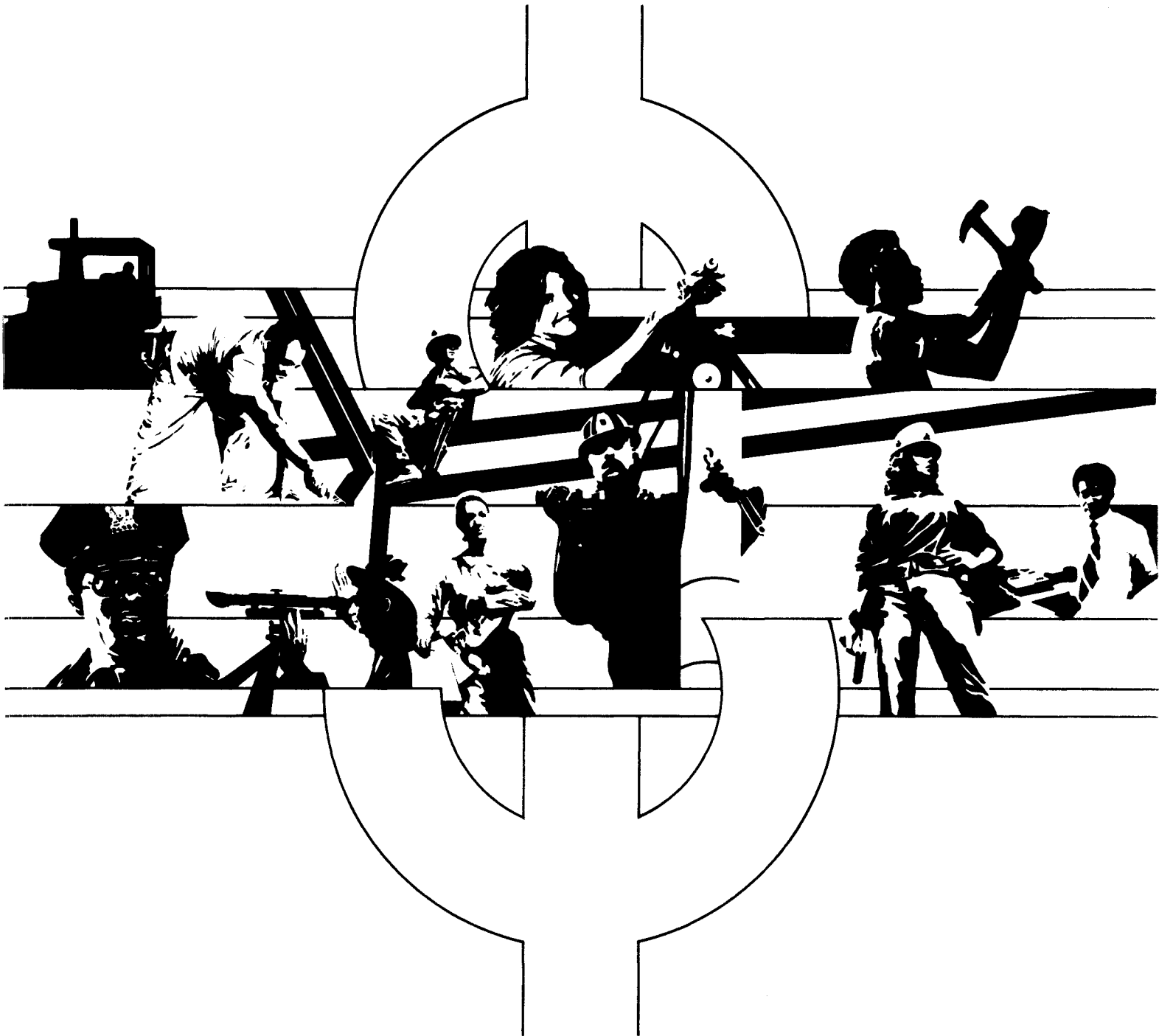


Employment and Earnings

August 1981



U.S. Department of Labor
Bureau of Labor Statistics





U.S. DEPARTMENT OF LABOR
Raymond J. Donovan, Secretary

BUREAU OF LABOR STATISTICS
Janet L. Norwood, Commissioner

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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.

Establishment data

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Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employment detail (final)	Mar.
National data adjusted to new benchmarks	July ¹
Revised historical national data adjusted to new benchmarks	Supplement ²
Revised seasonally adjusted series	July ³
State and area annual averages	May
Area definitions	May

State and area unemployment data

Annual averages	May ⁴
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¹ The issue that introduces new benchmark varies. The July 1981 issue introduced March 1980 benchmarks.

² Month of publication of annual supplement varies. The latest supplement was published in August 1981.

³ Issue varies. Latest revised data introduced July 1981.

⁴ These data first introduced in the May 1981 issue.

Employment and Earnings

Vol. 28 No. 8 August 1981

Editors: Gloria P. Green, Gloria P. Goings, Rosalie K. Epstein

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Employment and Unemployment Developments, July 1981

Employment rose in July and unemployment declined. The overall unemployment rate was 7.0 percent, down from the 7.3 percent which prevailed during most of the January-June period.

Total employment—as measured by the monthly survey of households—rose by 570,000 to 99.0 million. Nonfarm payroll employment—as measured by the monthly survey of establishments—also increased sharply (385,000) over the month. Both employment series have advanced by nearly 2 million from the recession trough of July 1980.

Unemployment

The number of unemployed persons in July, 7.5 million, and the unemployment rate, 7.0 percent, declined from their June levels. Since July of last year, the jobless level was down by about half a million, and the rate dropped six-tenths of a percentage point. Nevertheless, unemployment remained well above pre-recession levels. (See table A-33.)

Unemployment decreases registered in July were essentially limited to men. The jobless rate for men 25 years and over, which had edged up over the previous 2 months, dropped from 5.0 to 4.7 percent, a return to the rate posted in March of this year. The rate for young men 20 to 24 years, which has been rather volatile in recent months, declined sharply and, at 11.3 percent, was at its lowest mark since March 1980.

The rate for adult women in July, 6.7 percent, was little changed, while the rate for teenagers edged down to 18.1 percent. There were also jobless rate declines among both white and black workers.

Joblessness among workers in the construction industry (15.0 percent) was still well above the rates that prevailed earlier this year. In contrast, the rate for factory workers was much improved from the beginning of the year. (See table A-36.)

The number of job losers (persons on layoff and those permanently separated from their jobs) fell to 3.7 million in July. Since July 1980, their number has declined by about 640,000. (See table A-39.)

Long-term unemployment (joblessness of 15 weeks or more) declined in July, as did unemployment lasting 5 to 14 weeks. The average (mean) duration of unemployment edged down to 13.9 weeks. (See table A-37.)

Total employment and the labor force

Total employment rose by 570,000 over the month on a seasonally adjusted basis to 99.0 million, a return to the April level. Most of the over-the-month gain took place among adult men, particularly those 20 to 24 years old. There was also an increase among teenagers, while employment of adult women was unchanged. Since last July's trough, total employment has increased by 1.9 million, with all of the increase accounted for by adult men and women. In contrast, employment of teenagers was 550,000 below their year-ago level, in part reflecting the declining population for this group. (See table A-33.)

The civilian labor force rose by 290,000 in July. Over the past year, the labor force has grown by 1.4 million, about in line with the population increase. Thus, the overall participation rate was unchanged over the year, although the participation rate for adult women rose, while those for adult men and teenagers declined. The reduction in participation among teenagers was particularly marked—3 full percentage points.

Industry payroll employment

The number of employees on nonagricultural payrolls rose 385,000 to 92.0 million in July (seasonally adjusted). This was the largest over-the-month increase in the now year-long recovery period. Payroll job increases have totaled nearly 2.0 million since the year-ago low, with nearly all industry groups posting job gains. Construction and government were the exceptions to this trend. (See table B-4.)

Employment in the construction industry remained at depressed levels in July, as an additional 20,000 jobs were lost. In contrast, employment in manufacturing, which has shown improvement in recent months, rose by 110,000 to 20.5 million. Both durable and non-durable goods industries exhibited job increases in July, with fabricated metals, machinery, electrical equipment, and apparel showing the most improvement. Mining continued to rebound from its strike-affected levels of a few months ago, posting a 30,000 job gain in July.

After declining in the previous month, employment in the service-producing sector rose by 265,000 in July. Retail trade and services were each up by 85,000, while

State and local government, which had declined over the past several months, was up by nearly 75,000. Employment in Federal government and transportation and public utilities each showed little change for the second consecutive month. Finance, insurance, and real estate continued to grow, increasing by 15,000 in July.

Hours of work

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls, at 35.3 hours, was unchanged in July. The factory workweek was down 0.1 hour to 40.0 hours; factory overtime, at 2.9 hours, was also down a tenth of an hour. Both factory total and overtime hours were up substantially over the past year, however. (See table C-6.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls, at 109.5 (1977 = 100) in July, was 0.6 percent above the June figure and 3.4 percent above last July's low point. The manufacturing index rose 0.5 percent over the month to 100.7; the index was up 6.1 percent from last July. (See table C-7.)

Hourly and weekly earnings

Both average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls rose 0.4 percent in July (seasonally adjusted). Before adjustment for seasonality, average hourly earnings increased 3 cents to \$7.23, 59 cents above the year-earlier level. Average weekly earnings were \$256.67, up \$1.79 from June and \$22.28 from July 1980. (See tables C-1 and C-8.)

The Hourly Earnings Index

The Hourly Earnings Index (HEI) was 138.9 (1977 = 100) after seasonal adjustment in July, an increase of 0.4 percent over the previous month. For the 12 months ended in July, the increase before seasonal adjustment was 8.8 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 decreased 0.5 percent before seasonal adjustment during the 12-month period ended in June. (See table C-8).

HOUSEHOLD DATA HISTORICAL

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

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	105,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	103,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	113,601	66,560	60.2	63,015	61,179	6,263	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.0	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	3.8	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 ¹	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.6	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962.....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.6	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.6	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,636	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 ¹	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,381	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 ¹	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
1979.....	163,620	104,996	64.2	102,908	96,945	3,297	93,648	5,963	5.8	58,623
1980.....	166,246	106,821	64.3	104,719	97,270	3,310	93,960	7,448	7.1	59,425
Monthly data, seasonally adjusted²										
1980:										
July.....	166,391	107,119	64.4	105,020	96,999	3,267	93,732	8,021	7.6	59,273
August.....	166,578	107,059	64.3	104,945	97,003	3,210	93,793	7,942	7.6	59,519
September.....	166,789	107,101	64.2	104,980	97,180	3,399	93,781	7,800	7.4	59,687
October.....	167,025	107,288	64.2	105,167	97,206	3,319	93,887	7,961	7.6	59,717
November.....	167,201	107,404	64.2	105,285	97,339	3,340	93,999	7,946	7.5	59,797
December.....	167,396	107,191	64.0	105,067	97,282	3,394	93,888	7,785	7.4	60,205
1981:										
January.....	167,585	107,668	64.2	105,543	97,696	3,403	94,294	7,847	7.4	59,917
February.....	167,747	107,802	64.3	105,681	97,927	3,281	94,646	7,754	7.3	59,946
March.....	167,902	108,305	64.5	106,177	98,412	3,276	95,136	7,764	7.3	59,598
April.....	168,071	108,851	64.8	106,722	98,976	3,463	95,513	7,746	7.3	59,219
May.....	168,272	109,533	65.1	107,406	99,235	3,353	95,882	8,171	7.6	58,739
June.....	168,480	108,307	64.3	106,176	98,392	3,265	95,127	7,784	7.3	60,173
July.....	168,685	108,603	64.4	106,464	98,962	3,258	95,704	7,502	7.0	60,082

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

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

HOUSEHOLD DATA HISTORICAL

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

(Numbers in thousands)

Sex, year, and month	Total nonin- stitutional popula- tion	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of popula- tion	Total	Employed			Unemployed		
					Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
MALES										
Annual averages										
1972 ¹	69,854	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,931	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 ¹	77,159	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979.....	78,397	61,466	78.4	59,517	56,499	2,645	53,854	3,018	5.1	16,931
1980.....	79,642	62,088	78.0	60,145	55,988	2,664	53,324	4,157	6.9	17,554
Monthly data, seasonally adjusted²										
1980:										
July.....	79,710	62,208	78.0	60,271	55,678	2,635	53,043	4,593	7.6	17,502
August....	79,798	62,098	77.8	60,147	55,589	2,635	52,984	4,558	7.6	17,700
September	79,897	62,278	77.9	60,320	55,754	2,726	53,028	4,566	7.6	17,619
October...	80,030	62,335	77.9	60,379	55,881	2,668	53,213	4,498	7.4	17,665
November..	80,091	62,342	77.8	60,388	55,897	2,691	53,206	4,491	7.4	17,749
December..	80,133	62,213	77.6	60,254	55,920	2,651	53,269	4,334	7.2	17,970
1981:										
January...	80,272	62,320	77.6	60,366	56,012	2,712	53,300	4,353	7.2	17,952
February..	80,346	62,288	77.5	60,338	56,045	2,586	53,459	4,293	7.1	18,058
March.....	80,415	62,582	77.8	60,628	56,383	2,599	53,784	4,245	7.0	17,833
April.....	80,432	62,848	78.1	60,893	56,688	2,785	53,903	4,205	6.9	17,644
May.....	80,588	63,198	78.4	61,245	56,718	2,692	54,026	4,527	7.4	17,390
June.....	80,687	62,288	77.2	60,335	56,026	2,646	53,380	4,309	7.1	18,399
July.....	80,783	62,433	77.3	60,473	56,494	2,631	53,864	3,979	6.6	18,350
FEMALES										
Annual averages										
1972 ¹	75,911	33,320	43.9	33,277	31,072	274	30,439	2,205	5.0	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	276	31,827	2,064	4.3	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	267	32,825	2,408	5.0	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	245	32,973	3,445	7.8	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	7.0	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	6.2	42,510
1978 ¹	83,890	42,002	50.1	41,878	38,881	661	38,221	2,996	5.2	41,887
1979.....	85,223	43,531	51.1	43,391	40,446	652	39,794	2,945	5.1	41,692
1980.....	86,634	44,733	51.7	44,574	41,283	646	40,637	3,291	7.4	41,871
Monthly data, seasonally adjusted²										
1980:										
July.....	86,631	44,910	51.8	44,749	41,321	632	40,689	3,428	7.7	41,771
August....	86,780	44,961	51.8	44,798	41,414	605	40,809	3,384	7.6	41,819
September	86,892	44,823	51.6	44,660	41,426	673	40,753	3,234	7.2	42,068
October...	87,006	44,953	51.7	44,788	41,325	651	40,674	3,463	7.7	42,053
November..	87,110	45,062	51.7	44,897	41,442	649	40,793	3,455	7.7	42,048
December..	87,213	44,978	51.6	44,813	41,362	743	40,619	3,451	7.7	42,235
1981:										
January...	87,313	45,349	51.9	45,178	41,684	691	40,993	3,493	7.7	41,964
February..	87,402	45,513	52.1	45,343	41,882	695	41,187	3,461	7.6	41,888
March.....	87,487	45,723	52.3	45,549	42,029	677	41,352	3,519	7.7	41,764
April.....	87,578	46,003	52.5	45,829	42,288	678	41,610	3,541	7.7	41,575
May.....	87,694	46,335	52.8	46,161	42,517	661	41,856	3,644	7.9	41,349
June.....	87,793	46,020	52.4	45,842	42,366	619	41,747	3,475	7.6	41,774
July.....	87,931	46,170	52.5	45,991	42,467	627	41,840	3,524	7.7	41,732

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

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

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	July 1981										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	64,238	79.5	62,278	58,127	4,151	6.7	16,545	374	954	1,585	13,633
16 to 21 years	9,939	79.4	9,297	7,856	1,441	15.5	2,577	56	489	33	1,999
16 to 19 years	6,078	74.1	5,810	4,792	1,017	17.5	2,120	42	314	16	1,748
16 to 17 years	2,559	64.0	2,546	2,076	470	18.5	1,441	26	162	10	1,244
18 to 19 years	3,519	83.8	3,264	2,717	547	16.8	679	16	152	7	504
20 to 64 years	56,324	90.0	54,632	51,546	3,086	5.6	6,230	173	640	1,136	4,281
20 to 24 years	9,566	91.3	8,814	7,853	961	10.9	914	19	365	46	484
25 to 54 years	39,643	94.3	38,703	36,826	1,877	4.8	2,413	94	265	607	1,446
25 to 29 years	8,989	94.6	8,619	8,032	587	6.8	512	12	147	54	299
30 to 34 years	8,554	95.9	8,290	7,822	468	5.6	366	17	56	68	224
35 to 39 years	6,661	95.7	6,478	6,210	268	4.1	300	24	27	83	167
40 to 44 years	5,468	94.3	5,381	5,203	179	3.3	328	9	16	106	197
45 to 49 years	4,987	93.7	4,958	4,748	211	4.3	337	14	9	128	186
50 to 54 years	4,985	89.7	4,977	4,812	165	3.3	571	20	9	169	374
55 to 64 years	7,116	71.0	7,115	6,867	247	3.5	2,903	59	12	483	2,350
55 to 59 years	4,353	81.0	4,352	4,187	165	3.8	1,020	25	7	254	735
60 to 64 years	2,763	59.5	2,763	2,680	83	3.0	1,884	34	5	229	1,616
65 years and over	1,836	18.3	1,836	1,788	48	2.6	8,195	159	--	433	7,604
65 to 69 years	1,089	28.2	1,089	1,062	28	2.5	2,767	41	--	132	2,595
70 years and over	747	12.1	747	726	20	2.7	5,428	118	--	301	5,009
White											
16 years and over	56,971	80.4	55,459	52,303	3,156	5.7	13,894	289	675	1,261	11,669
16 to 21 years	8,633	81.7	8,145	7,095	1,050	12.9	1,930	28	351	24	1,528
16 to 19 years	5,288	76.8	5,079	4,327	752	14.8	1,601	22	219	14	1,347
16 to 17 years	2,233	66.9	2,222	1,857	365	16.4	1,107	15	118	7	967
18 to 19 years	3,055	86.1	2,857	2,470	387	13.6	494	7	101	7	380
20 to 64 years	49,990	91.0	48,687	46,324	2,363	4.9	4,967	131	456	895	3,484
20 to 24 years	8,306	92.7	7,750	7,050	700	9.0	659	11	289	28	331
25 to 54 years	35,203	95.2	34,458	32,993	1,465	4.3	1,762	76	161	453	1,072
25 to 29 years	15,465	96.2	14,975	14,160	815	5.4	612	26	130	90	366
30 to 34 years	10,818	95.9	10,593	10,239	354	3.3	457	19	22	151	264
35 to 39 years	8,921	92.8	8,890	8,594	296	3.3	693	31	10	211	441
55 to 64 years	6,480	71.8	6,479	6,281	198	3.1	2,546	44	7	414	2,082
55 to 59 years	3,968	82.1	3,966	3,836	130	3.3	863	17	4	222	620
60 to 64 years	2,513	59.9	2,513	2,445	68	2.7	1,683	27	4	191	1,461
65 years and over	1,693	18.8	1,693	1,652	41	2.4	7,326	137	--	353	6,838
Black and other											
16 years and over	7,267	73.3	6,819	5,824	995	14.6	2,651	85	278	324	1,964
16 to 21 years	1,306	66.9	1,152	760	391	34.0	647	28	139	9	471
16 to 19 years	790	60.4	730	465	265	36.3	519	21	95	3	400
16 to 17 years	325	49.3	324	218	105	32.6	334	11	44	3	277
18 to 19 years	465	71.6	407	247	160	39.3	185	10	51	--	124
20 to 64 years	6,334	83.4	5,945	5,222	723	12.2	1,264	42	184	241	797
20 to 24 years	1,260	83.2	1,064	802	261	24.6	255	9	76	18	153
25 to 54 years	4,439	87.2	4,247	3,834	413	9.7	651	18	104	155	376
25 to 29 years	2,077	88.7	1,934	1,694	240	12.4	265	3	74	31	157
30 to 34 years	1,311	88.4	1,266	1,173	93	7.3	171	13	21	37	100
35 to 44 years	1,051	83.0	1,046	966	80	7.6	215	3	8	86	119
55 to 64 years	636	64.0	636	586	49	7.8	357	15	4	69	269
55 to 59 years	385	71.1	385	351	34	8.9	157	8	3	31	114
60 to 64 years	250	55.6	250	235	15	6.0	200	7	1	38	154
65 years and over	143	14.1	143	136	7	4.7	869	22	--	80	767

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

[Numbers in thousands]

Sex, age, and race	July 1981										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	46,308	52.7	46,130	42,347	3,783	8.2	41,593	31,835	1,089	1,036	7,633
16 to 21 years	8,150	66.5	8,082	6,755	1,327	16.4	4,097	1,528	654	12	1,903
16 to 19 years	5,060	63.2	5,031	4,113	919	18.3	2,953	837	451	9	1,656
16 to 17 years	2,122	54.8	2,122	1,699	423	19.9	1,751	338	215	5	1,193
18 to 19 years	2,938	71.0	2,910	2,414	496	17.0	1,202	499	235	4	463
20 to 64 years	40,101	61.2	39,951	37,125	2,827	7.1	25,423	21,445	636	453	2,890
20 to 24 years	7,573	72.4	7,486	6,599	887	11.8	2,893	2,078	346	13	456
25 to 54 years	27,996	63.8	27,933	26,141	1,791	6.4	15,866	13,864	282	217	1,504
25 to 29 years	6,500	67.1	6,456	5,887	569	8.8	3,188	2,778	114	16	280
30 to 34 years	5,843	63.8	5,829	5,395	434	7.4	3,317	2,935	63	16	302
35 to 39 years	4,754	65.1	4,751	4,520	231	4.9	2,551	2,228	59	23	242
40 to 44 years	4,033	65.6	4,031	3,796	236	5.8	2,119	1,875	11	27	205
45 to 49 years	3,521	62.5	3,520	3,311	209	5.9	2,111	1,851	16	54	188
50 to 54 years	3,346	56.5	3,346	3,232	113	3.4	2,580	2,196	19	80	286
55 to 64 years	4,533	40.5	4,533	4,384	149	3.3	6,665	5,503	8	224	930
55 to 59 years	2,884	48.7	2,884	2,787	97	3.4	3,034	2,578	7	113	336
60 to 64 years	1,649	31.2	1,649	1,597	52	3.1	3,630	2,925	1	111	593
65 years and over	1,147	8.0	1,147	1,110	37	3.2	13,217	9,553	2	574	3,087
65 to 69 years	697	14.5	697	671	26	3.7	4,103	3,154	1	114	834
70 years and over	449	4.7	449	438	11	2.5	9,114	6,400	1	460	2,253
White											
16 years and over	39,898	52.3	39,769	36,947	2,822	7.1	36,342	28,334	739	789	6,480
16 to 21 years	7,124	69.5	7,075	6,091	984	13.9	3,129	1,184	429	8	1,508
16 to 19 years	4,440	66.4	4,420	3,718	702	15.9	2,250	631	296	5	1,319
16 to 17 years	1,870	58.1	1,869	1,532	337	18.1	1,348	242	139	4	963
18 to 19 years	2,570	74.0	2,551	2,186	365	14.3	902	389	157	1	356
20 to 64 years	34,443	60.9	34,334	32,247	2,088	6.1	22,114	18,905	443	344	2,422
20 to 24 years	6,525	74.1	6,463	5,843	621	9.6	2,286	1,698	237	12	340
25 to 54 years	23,903	63.4	23,856	22,518	1,339	5.6	13,828	12,180	201	170	1,277
25 to 29 years	10,427	64.9	10,385	9,660	725	7.0	5,628	5,001	116	25	486
30 to 34 years	7,516	64.7	7,512	7,162	351	4.7	4,092	3,612	54	39	386
35 to 44 years	5,960	59.2	5,959	5,697	262	4.4	4,108	3,567	31	104	405
55 to 64 years	4,015	40.1	4,015	3,886	128	3.2	6,000	5,028	5	163	805
55 to 59 years	2,572	48.7	2,572	2,484	87	3.4	2,706	2,335	3	74	294
60 to 64 years	1,443	30.5	1,443	1,402	41	2.8	3,294	2,693	1	89	511
65 years and over	1,015	7.8	1,015	982	32	3.2	11,978	8,798	--	440	2,740
Black and other											
16 years and over	6,410	55.0	6,361	5,400	961	15.1	5,251	3,501	350	247	1,152
16 to 21 years	1,027	51.5	1,007	664	342	34.0	967	344	224	4	395
16 to 19 years	620	46.9	611	395	217	35.4	703	206	155	4	337
16 to 17 years	253	38.6	252	167	86	34.0	402	96	76	1	230
18 to 19 years	367	55.0	359	228	131	36.5	300	111	79	4	107
20 to 64 years	5,658	63.1	5,617	4,877	740	13.2	3,309	2,539	193	109	468
20 to 24 years	1,047	63.3	1,023	757	266	26.0	607	380	109	1	117
25 to 54 years	4,093	66.7	4,077	3,623	453	11.1	2,038	1,684	80	47	226
25 to 29 years	1,916	68.6	1,900	1,622	278	14.6	877	712	61	7	97
30 to 34 years	1,271	68.7	1,270	1,154	116	9.1	578	492	15	11	60
35 to 44 years	907	60.9	907	847	60	6.6	583	480	4	30	69
55 to 64 years	518	43.8	518	498	21	4.0	664	475	4	61	125
55 to 59 years	312	48.8	312	303	10	3.1	328	243	4	39	43
60 to 64 years	206	38.0	206	195	11	5.2	336	232	--	22	82
65 years and over	132	9.6	132	128	4	3.3	1,239	756	2	134	347

HOUSEHOLD DATA

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
MALES								
16 years and over	64,033	64,238	80.3	79.5	62,096	62,278	79.8	79.0
16 to 19 years	6,540	6,078	78.0	74.1	6,265	5,810	77.3	73.3
16 to 17 years	2,848	2,559	69.2	64.0	2,830	2,546	69.1	63.9
18 to 19 years	3,692	3,519	86.5	83.8	3,435	3,264	85.6	82.8
20 to 24 years	9,485	9,566	91.4	91.3	8,750	8,814	90.8	90.6
25 to 54 years	38,962	39,643	94.6	94.3	38,037	38,703	94.5	94.1
25 to 34 years	17,032	17,543	95.8	95.2	16,417	16,909	95.6	95.1
35 to 44 years	11,942	12,128	95.8	95.1	11,669	11,859	95.7	95.0
45 to 54 years	9,988	9,972	91.3	91.7	9,951	9,936	91.2	91.6
55 to 64 years	7,198	7,116	72.6	71.0	7,197	7,115	72.6	71.0
55 to 59 years	4,392	4,353	81.7	81.0	4,391	4,352	81.7	81.0
60 to 64 years	2,806	2,763	61.8	59.5	2,806	2,763	61.8	59.5
65 years and over	1,848	1,836	18.8	18.3	1,848	1,836	18.8	18.3
White								
16 years and over	56,704	56,971	80.9	80.4	55,204	55,459	80.5	80.0
16 to 19 years	5,672	5,288	80.2	76.8	5,463	5,079	79.6	76.0
16 to 17 years	2,470	2,233	71.6	66.9	2,455	2,222	71.4	66.7
18 to 19 years	3,202	3,055	88.4	86.1	3,008	2,857	87.7	85.3
20 to 24 years	8,207	8,306	92.3	92.7	7,660	7,750	91.8	92.2
25 to 54 years	34,558	35,203	95.3	95.2	33,815	34,458	95.2	95.1
25 to 34 years	14,995	15,465	96.3	96.2	14,512	14,975	96.2	96.1
35 to 44 years	10,627	10,818	96.4	95.9	10,399	10,593	96.3	95.9
45 to 54 years	8,936	8,921	92.2	92.8	8,904	8,890	92.2	92.8
55 to 64 years	6,581	6,480	73.5	71.8	6,580	6,479	73.5	71.8
55 to 59 years	4,017	3,968	82.9	82.1	4,016	3,966	82.9	82.1
60 to 64 years	2,564	2,513	62.4	59.9	2,564	2,513	62.4	59.9
65 years and over	1,686	1,693	19.0	18.8	1,686	1,693	19.0	18.8
Black and other								
16 years and over	7,329	7,267	75.9	73.3	6,892	6,819	74.7	72.0
16 to 19 years	868	790	66.3	60.4	802	730	64.5	58.5
16 to 17 years	378	325	57.0	49.3	375	324	56.8	49.2
18 to 19 years	490	465	75.8	71.6	427	407	73.2	68.8
20 to 24 years	1,279	1,260	86.3	83.2	1,090	1,064	84.3	80.7
25 to 54 years	4,404	4,439	89.6	87.2	4,221	4,247	89.2	86.7
25 to 34 years	2,038	2,077	91.9	88.7	1,905	1,934	91.4	87.9
35 to 44 years	1,315	1,311	91.2	88.4	1,269	1,266	90.9	88.1
45 to 54 years	1,051	1,051	83.8	83.0	1,047	1,046	83.7	83.0
55 to 64 years	617	636	64.0	64.0	617	636	64.0	64.0
55 to 59 years	375	385	70.6	71.1	375	385	70.6	71.1
60 to 64 years	242	250	55.9	55.6	242	250	55.9	55.6
65 years and over	162	143	16.4	14.1	162	143	16.4	14.1

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
FEMALES								
16 years and over	45,062	46,308	52.0	52.7	44,901	46,130	51.9	52.6
16 to 19 years	5,327	5,060	65.1	63.2	5,298	5,031	64.9	63.0
16 to 17 years	2,296	2,122	57.7	54.8	2,295	2,122	57.7	54.8
18 to 19 years	3,031	2,938	72.0	71.0	3,004	2,910	71.8	70.8
20 to 24 years	7,452	7,573	71.9	72.4	7,373	7,486	71.7	72.1
25 to 54 years	26,703	27,996	62.1	63.8	26,648	27,933	62.1	63.8
25 to 34 years	11,567	12,343	63.6	65.5	11,518	12,285	63.5	65.4
35 to 44 years	8,366	8,787	63.5	65.3	8,361	8,782	63.5	65.3
45 to 54 years	6,770	6,867	58.2	59.4	6,769	6,866	58.2	59.4
55 to 64 years	4,473	4,533	40.4	40.5	4,473	4,533	40.4	40.5
55 to 59 years	2,790	2,884	47.2	48.7	2,790	2,884	47.2	48.7
60 to 64 years	1,683	1,649	32.5	31.2	1,683	1,649	32.5	31.2
65 years and over	1,108	1,147	7.9	8.0	1,108	1,147	7.9	8.0
White								
16 years and over	38,736	39,898	51.4	52.3	38,617	39,769	51.3	52.3
16 to 19 years	4,644	4,440	67.7	66.4	4,624	4,420	67.6	66.3
16 to 17 years	2,002	1,870	60.3	58.1	2,001	1,869	60.3	58.1
18 to 19 years	2,642	2,570	74.6	74.0	2,623	2,551	74.4	73.9
20 to 24 years	6,398	6,525	73.2	74.1	6,340	6,463	73.0	73.9
25 to 54 years	22,761	23,903	61.4	63.4	22,719	23,856	61.4	63.3
25 to 34 years	9,727	10,427	62.6	64.9	9,690	10,385	62.5	64.9
35 to 44 years	7,170	7,516	63.1	64.7	7,166	7,512	63.0	64.7
45 to 54 years	5,864	5,960	57.7	59.2	5,863	5,959	57.7	59.2
55 to 64 years	3,963	4,015	39.9	40.1	3,963	4,015	39.9	40.1
55 to 59 years	2,465	2,572	46.6	48.7	2,465	2,572	46.6	48.7
60 to 64 years	1,498	1,443	32.2	30.5	1,498	1,443	32.2	30.5
65 years and over	971	1,015	7.6	7.8	971	1,015	7.6	7.8
Black and other								
16 years and over	6,326	6,410	55.8	55.0	6,283	6,361	55.6	54.8
16 to 19 years	682	620	51.5	46.9	674	611	51.2	46.5
16 to 17 years	294	253	44.7	38.6	294	252	44.7	38.5
18 to 19 years	388	367	58.2	55.0	380	359	57.7	54.5
20 to 24 years	1,054	1,047	65.0	63.3	1,033	1,023	64.5	62.8
25 to 54 years	3,942	4,093	66.6	66.7	3,929	4,077	66.5	66.7
25 to 34 years	1,840	1,916	69.4	68.6	1,827	1,900	69.3	68.4
35 to 44 years	1,196	1,271	66.6	68.7	1,195	1,270	66.6	68.7
45 to 54 years	906	907	61.5	60.9	906	907	61.5	60.9
55 to 64 years	510	518	44.5	43.8	510	518	44.5	43.8
55 to 59 years	325	312	52.1	48.8	325	312	52.1	48.8
60 to 64 years	185	206	35.5	38.0	185	206	35.5	38.0
65 years and over	137	132	10.3	9.6	137	132	10.3	9.6

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

[Numbers in thousands]

Sex and age	July 1981						Not in labor force	
	Civilian labor force					Percent of labor force		
	Total	Employed			Unemployed			
		Total	Agri-culture	Nonagri-cultural industries	Number			
TOTAL								
16 years and over	11,106	9,339	180	9,159	1,767	15.9	6,722	
16 to 19 years	1,152	704	20	684	448	38.9	1,077	
16 to 17 years	491	312	11	300	180	36.5	658	
18 to 19 years	661	392	9	384	269	40.6	420	
20 to 24 years	1,799	1,314	22	1,292	485	26.9	706	
25 to 54 years	6,924	6,158	89	6,070	766	11.1	2,218	
25 to 34 years	3,188	2,725	22	2,703	463	14.5	897	
35 to 44 years	2,117	1,934	34	1,900	183	8.6	634	
45 to 54 years	1,619	1,499	33	1,466	120	7.4	687	
55 to 64 years	997	940	34	906	57	5.7	894	
55 to 59 years	585	551	17	534	34	5.8	423	
60 to 64 years	412	389	17	372	23	5.5	471	
65 years and over	233	222	15	207	11	4.6	1,827	
Males								
16 years and over	5,739	4,832	145	4,686	907	15.8	2,249	
16 to 19 years	625	375	16	359	249	39.8	455	
16 to 17 years	273	173	7	165	101	37.0	301	
18 to 19 years	352	202	9	194	150	42.6	155	
20 to 24 years	919	680	20	660	238	25.9	192	
25 to 54 years	3,536	3,164	71	3,094	370	10.5	548	
25 to 34 years	1,605	1,386	20	1,366	219	13.6	201	
35 to 44 years	1,061	979	23	956	83	7.8	150	
45 to 54 years	869	800	29	771	69	7.9	197	
55 to 64 years	549	507	26	482	42	7.7	313	
55 to 59 years	322	295	14	281	28	8.7	137	
60 to 64 years	227	213	12	201	14	6.2	176	
65 years and over	110	103	12	91	7	6.4	740	
Females								
16 years and over	5,367	4,507	35	4,473	860	16.0	4,473	
16 to 19 years	527	329	4	325	199	37.7	622	
16 to 17 years	218	139	4	135	79	36.4	357	
18 to 19 years	309	190	--	190	119	38.5	265	
20 to 24 years	880	634	2	632	247	28.0	514	
25 to 54 years	3,388	2,994	18	2,976	396	11.7	1,670	
25 to 34 years	1,583	1,339	2	1,337	244	15.4	696	
35 to 44 years	1,056	955	11	944	100	9.5	484	
45 to 54 years	750	699	4	695	51	6.8	490	
55 to 64 years	448	433	8	424	15	3.4	581	
55 to 59 years	263	256	3	253	6	2.4	286	
60 to 64 years	185	176	5	171	9	4.8	295	
65 years and over	123	119	3	116	4	3.5	1,087	

NOTE: Data relate to black workers only. In the 1970 census, they constituted about 89 percent of the "black and other" population group.

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
TOTAL								
Total noninstitutional population	166,391	168,685	71,326	72,586	78,493	79,889	16,572	16,210
Total labor force	109,095	110,546	57,493	58,160	39,736	41,248	11,867	11,138
Percent of population	65.6	65.5	80.6	80.1	50.6	51.6	71.6	68.7
Civilian labor force	106,997	108,408	55,831	56,468	39,602	41,098	11,563	10,841
Employed	98,587	100,474	52,247	53,334	36,881	38,235	9,459	8,905
Agriculture	3,853	3,814	2,475	2,499	719	729	659	586
Nonagricultural industries	94,734	96,660	49,771	50,835	35,162	37,506	8,801	8,319
Unemployed	8,410	7,934	3,585	3,134	2,721	2,864	2,104	1,936
Percent of labor force	7.9	7.3	6.4	5.6	6.9	7.0	18.2	17.9
Not in labor force	57,296	58,138	13,833	14,425	38,758	38,640	4,705	5,072
White								
Total noninstitutional population	145,388	147,105	62,977	63,976	68,473	69,550	13,938	13,579
Total labor force	95,440	96,869	51,031	51,683	34,092	35,458	10,316	9,728
Percent of population	65.6	65.9	81.0	80.8	49.8	51.0	74.0	71.6
Civilian labor force	93,821	95,228	49,741	50,380	33,993	35,349	10,087	9,499
Employed	87,400	89,250	46,931	47,976	31,957	33,229	8,511	8,045
Agriculture	3,578	3,569	2,290	2,332	670	681	618	556
Nonagricultural industries	83,822	85,681	44,641	45,643	31,288	32,548	7,894	7,489
Unemployed	6,422	5,978	2,810	2,404	2,036	2,120	1,576	1,454
Percent of labor force	6.8	6.3	5.6	4.8	6.0	6.0	15.6	15.3
Not in labor force	49,948	50,236	11,945	12,293	34,381	34,092	3,622	3,851
Black and other								
Total noninstitutional population	21,003	21,579	8,349	8,610	10,020	10,338	2,634	2,631
Total labor force	13,655	13,677	6,461	6,477	5,643	5,790	1,550	1,410
Percent of population	65.0	63.4	77.4	75.2	56.3	56.0	58.9	53.6
Civilian labor force	13,175	13,180	6,090	6,088	5,609	5,749	1,476	1,342
Employed	11,187	11,224	5,315	5,358	4,924	5,005	948	860
Agriculture	275	245	185	157	49	47	41	30
Nonagricultural industries	10,912	10,979	5,130	5,191	4,875	4,958	907	830
Unemployed	1,988	1,956	775	730	685	744	528	482
Percent of labor force	15.1	14.8	12.7	12.0	12.2	12.9	35.8	35.9
Not in labor force	7,348	7,902	1,888	2,133	4,377	4,548	1,083	1,221

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

(Numbers in thousands)

Employment status and major activity	July 1981								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	24,764	12,516	12,247	20,817	10,563	10,253	3,947	1,953	1,994
Total labor force	18,090	9,939	8,150	15,757	8,633	7,124	2,333	1,306	1,027
Percent of population	73.0	79.4	66.5	75.7	31.7	69.5	59.1	66.9	51.5
Civilian labor force	17,379	9,297	8,082	15,221	8,145	7,075	2,158	1,152	1,007
Employed	14,611	7,856	6,755	13,187	7,095	6,091	1,425	760	664
Agriculture	810	676	134	767	637	130	43	39	4
Nonagricultural industries	13,801	7,180	6,621	12,419	6,458	5,961	1,382	722	660
Unemployed	2,768	1,441	1,327	2,034	1,050	984	733	391	342
Looking for full-time work	2,105	1,147	958	1,502	812	690	603	335	268
Looking for part-time work	663	294	369	532	238	295	131	57	74
Percent of labor force	15.9	15.5	16.4	13.4	12.9	13.9	34.0	34.0	34.0
Not in labor force	6,674	2,577	4,097	5,060	1,930	3,129	1,614	647	967
Major activity: going to school									
Civilian labor force	345	177	168	278	134	143	67	42	25
Employed	235	132	103	208	110	99	26	22	4
Agriculture	15	14	2	12	11	2	3	3	--
Nonagricultural industries	219	118	101	196	99	97	23	19	4
Unemployed	110	45	66	69	24	45	41	20	21
Looking for full-time work	46	31	14	20	15	5	26	16	10
Looking for part-time work	65	13	52	49	9	40	16	4	11
Percent of labor force	32.0	25.3	39.0	24.9	18.2	31.2	(1)	(1)	(1)
Not in labor force	1,143	489	654	780	351	429	363	139	224
Major activity: other									
Civilian labor force	17,034	9,120	7,914	14,943	8,011	6,932	2,091	1,109	982
Employed	14,377	7,724	6,653	12,978	6,986	5,992	1,399	738	660
Agriculture	795	662	132	755	627	128	40	36	4
Nonagricultural industries	13,582	7,062	6,520	12,224	6,359	5,864	1,358	702	656
Unemployed	2,657	1,397	1,261	1,965	1,026	940	692	371	321
Looking for full-time work	2,059	1,116	944	1,482	797	685	577	319	259
Looking for part-time work	598	281	317	483	229	254	115	52	63
Percent of labor force	15.6	15.3	15.9	13.2	12.8	13.6	33.1	33.4	32.7
Not in labor force	5,531	2,088	3,443	4,280	1,580	2,700	1,251	508	743

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

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

[Numbers in thousands]

Sex, age, and race	July 1981								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part-time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over.....	95,118	82,985	5,391	6,741	7.1	13,290	12,097	1,193	9.0
16 to 21 years.....	13,658	9,215	2,338	2,105	15.4	3,721	3,058	663	17.8
16 to 19 years.....	7,858	4,745	1,730	1,383	17.6	2,984	2,430	553	18.5
16 to 17 years.....	2,848	1,403	920	524	18.4	1,820	1,451	369	20.3
18 to 19 years.....	5,010	3,342	810	859	17.1	1,164	980	184	15.8
20 years and over.....	87,260	78,240	3,662	5,359	6.1	10,306	9,667	639	6.2
20 to 24 years.....	14,731	11,971	1,123	1,637	11.1	1,570	1,358	211	13.5
25 years and over.....	72,530	66,270	2,538	3,721	5.1	8,737	8,309	428	4.9
25 to 54 years.....	60,740	55,308	2,067	3,365	5.5	5,896	5,593	303	5.1
55 years and over.....	11,789	10,961	471	356	3.0	2,841	2,716	125	4.4
Males, 16 years and over.....	58,442	51,987	2,746	3,709	6.3	3,835	3,393	442	11.5
16 to 21 years.....	7,713	5,360	1,205	1,147	14.9	1,584	1,290	294	18.6
16 to 19 years.....	4,486	2,847	883	757	16.9	1,323	1,063	260	19.7
20 years and over.....	53,956	49,141	1,863	2,952	5.5	2,512	2,330	182	7.2
20 to 24 years.....	8,289	6,805	599	885	10.7	525	449	76	14.5
25 years and over.....	45,666	42,336	1,264	2,067	4.5	1,987	1,882	106	5.3
25 to 54 years.....	37,894	35,025	1,033	1,835	4.8	811	769	42	5.2
55 years and over.....	7,773	7,311	231	231	3.0	1,177	1,114	64	5.4
Females, 16 years and over.....	36,675	30,998	2,645	3,032	8.3	9,454	8,704	751	7.9
16 to 21 years.....	5,946	3,855	1,133	958	16.1	2,136	1,768	369	17.3
16 to 19 years.....	3,371	1,898	847	626	18.6	1,660	1,367	293	17.7
20 years and over.....	33,304	29,100	1,798	2,406	7.2	7,794	7,336	458	5.9
20 to 24 years.....	6,441	5,166	523	752	11.7	1,045	910	135	12.9
25 years and over.....	26,863	23,934	1,275	1,654	6.2	6,748	6,427	322	4.8
25 to 54 years.....	22,848	20,284	1,035	1,530	6.7	5,085	4,824	261	5.1
55 years and over.....	4,016	3,650	241	125	3.1	1,663	1,603	61	3.7
White									
Males, 16 years and over.....	52,019	46,897	2,314	2,807	5.4	3,440	3,091	349	10.1
16 to 21 years.....	6,730	4,917	1,000	812	12.1	1,416	1,178	238	16.8
16 to 19 years.....	3,905	2,622	740	544	13.9	1,174	965	208	17.7
20 years and over.....	48,113	44,275	1,574	2,264	4.7	2,266	2,126	140	6.2
20 to 24 years.....	7,281	6,145	492	644	8.8	470	413	56	12.0
25 years and over.....	40,833	38,131	1,082	1,619	4.0	1,797	1,713	85	4.7
25 to 54 years.....	33,737	31,426	876	1,435	4.3	721	690	30	4.2
55 years and over.....	7,096	6,704	206	184	2.6	1,076	1,023	55	5.1
Females, 16 years and over.....	31,162	26,764	2,189	2,210	7.1	8,607	7,994	612	7.1
16 to 21 years.....	5,158	3,485	984	690	13.4	1,917	1,623	295	15.4
16 to 19 years.....	2,920	1,719	737	464	15.9	1,500	1,262	239	15.9
20 years and over.....	28,243	25,045	1,452	1,746	6.2	7,107	6,733	374	5.3
20 to 24 years.....	5,523	4,550	455	519	9.4	941	838	102	10.9
25 years and over.....	22,720	20,495	997	1,228	5.4	6,166	5,894	271	4.4
25 to 54 years.....	19,155	17,223	809	1,122	5.9	4,702	4,486	216	4.6
55 years and over.....	3,566	3,272	187	106	3.0	1,464	1,409	56	3.8
Black and other									
Males, 16 years and over.....	6,424	5,090	432	902	14.0	395	302	93	23.6
16 to 21 years.....	983	443	205	335	34.0	168	112	57	33.6
16 to 19 years.....	581	225	143	213	36.7	149	98	52	34.6
20 years and over.....	5,843	4,865	289	689	11.8	246	204	41	16.9
20 to 24 years.....	1,009	660	107	242	23.9	55	35	20	(2)
25 years and over.....	4,835	4,205	182	448	9.3	190	169	21	11.1
25 to 54 years.....	4,157	3,599	157	401	9.6	90	78	12	13.3
55 years and over.....	678	606	25	47	6.9	100	91	9	9.0
Females, 16 years and over.....	5,513	4,234	457	822	14.9	848	709	139	16.3
16 to 21 years.....	788	370	149	268	34.0	219	145	74	33.9
16 to 19 years.....	451	179	110	162	35.9	160	105	55	34.1
20 years and over.....	5,062	4,055	347	660	13.0	687	604	84	12.2
20 to 24 years.....	918	616	69	233	25.4	104	71	33	31.6
25 years and over.....	4,143	3,439	278	427	10.3	584	533	51	8.7
25 to 54 years.....	3,693	3,061	225	408	11.0	383	338	45	11.7
55 years and over.....	450	378	53	19	4.2	200	194	6	3.0

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

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

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

[Numbers in thousands]

Family relationship	July 1981									
	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	108,408	65.1	100,474	7,934	7.3	58,138	32,209	2,042	2,621	21,265
Husbands	38,845	80.4	37,433	1,412	3.6	9,484	136	133	945	8,270
With employed wife	20,633	91.8	19,932	701	3.4	1,849	55	73	338	1,383
With unemployed wife	1,248	91.8	1,108	141	11.3	112	4	6	37	66
With wife not in labor force	16,963	69.3	16,393	571	3.4	7,522	77	54	570	6,821
Wives	23,843	49.3	22,482	1,361	5.7	24,485	21,587	208	274	2,416
With employed husband	21,040	56.2	19,932	1,108	5.3	16,393	14,871	170	106	1,247
With unemployed husband	841	59.6	701	141	16.7	571	516	7	5	42
With husband not in labor force	1,962	20.7	1,849	112	5.7	7,522	6,200	32	163	1,127
Relatives in married-couple families	15,599	72.4	13,506	2,093	13.4	5,951	1,049	903	345	3,654
16 to 19 years	7,584	70.0	6,432	1,152	15.2	3,245	296	500	20	2,429
20 to 24 years	5,503	84.9	4,845	658	12.0	976	150	351	26	449
25 years and over	2,512	59.2	2,229	283	11.3	1,730	603	52	299	776
Females who maintain families	5,397	58.8	4,775	623	11.5	3,779	2,949	76	120	633
Relatives in families maintained by females	4,942	62.5	3,898	1,044	21.1	2,969	893	323	238	1,515
16 to 19 years	1,746	60.6	1,242	504	28.9	1,137	206	183	6	742
20 to 24 years	1,518	76.7	1,176	342	22.5	462	135	112	19	196
25 years and over	1,678	55.1	1,480	198	11.8	1,370	552	28	213	577
Males who maintain families	1,864	77.0	1,736	128	6.9	557	31	29	69	428
Relatives in families maintained by males	1,535	63.1	1,324	211	13.8	897	423	52	50	371
16 to 19 years	425	70.0	344	81	19.1	182	34	25	-	123
20 to 24 years	434	83.4	370	65	14.9	87	40	21	1	24
25 years and over	676	51.8	610	65	9.6	628	349	6	50	224
Persons living alone	10,013	54.2	9,500	513	5.1	8,472	4,605	103	479	3,285
Males	5,319	72.9	5,000	319	6.0	1,978	110	60	195	1,613
Females	4,694	42.0	4,500	194	4.1	6,494	4,495	43	284	1,672
All others ¹	6,370	80.5	5,826	549	8.6	1,544	536	215	161	693

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	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
Total, 16 years and over	4,732	4,151	7.6	6.7	3,677	3,783	8.2	8.2
Married, spouse present	1,861	1,504	4.7	3.8	1,530	1,433	6.4	5.9
Widowed, divorced, or separated	454	445	8.9	8.3	588	742	7.1	8.4
Single (never married)	2,417	2,203	14.2	12.9	1,559	1,607	12.1	12.4
White, 16 years and over	3,684	3,156	6.7	5.7	2,738	2,822	7.1	7.1
Married, spouse present	1,574	1,226	4.3	3.4	1,300	1,214	6.1	5.6
Widowed, divorced, or separated	326	325	7.7	7.3	406	518	6.1	7.3
Single (never married)	1,784	1,605	12.3	11.0	1,032	1,089	9.6	10.0
Black and other, 16 years and over	1,049	995	15.2	14.6	939	961	14.9	15.1
Married, spouse present	287	278	8.1	7.9	231	219	9.0	8.7
Widowed, divorced, or separated	128	119	14.6	13.3	182	224	11.0	12.9
Single (never married)	633	598	25.6	24.7	526	518	25.4	24.5
Total, 20 to 64 years of age	3,518	3,086	6.5	5.6	2,687	2,827	7.0	7.1
Married, spouse present	1,790	1,443	4.7	3.8	1,426	1,345	6.2	5.7
Widowed, divorced, or separated	445	439	9.2	8.5	564	702	7.4	8.7
Single (never married)	1,283	1,204	11.8	10.6	699	780	8.9	9.5
White, 20 to 64 years of age	2,753	2,363	5.7	4.9	2,015	2,088	6.1	6.1
Married, spouse present	1,510	1,173	4.3	3.4	1,212	1,133	5.9	5.3
Widowed, divorced, or separated	321	319	8.0	7.4	391	485	6.4	7.5
Single (never married)	921	872	10.0	9.0	412	470	6.4	7.0
Black and other, 20 to 64 years of age	766	723	12.9	12.2	672	740	12.3	13.2
Married, spouse present	279	271	8.2	8.0	213	212	8.6	8.6
Widowed, divorced, or separated	124	120	14.9	13.8	173	217	11.0	13.2
Single (never married)	362	334	21.6	19.9	286	311	20.0	20.5

A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
Total, 16 years and over	8,410	7,934	7.9	7.3	7.6	6.7	8.2	8.2
White-collar workers	2,042	2,256	3.9	4.2	2.8	2.6	4.8	5.5
Professional and technical	443	514	2.8	3.2	2.2	2.2	3.6	4.5
Managers and administrators, except farm	283	307	2.5	2.6	2.3	1.9	3.1	4.5
Sales workers	260	316	4.0	4.8	3.3	2.9	5.0	7.0
Clerical workers	1,055	1,120	5.5	5.8	5.0	5.2	5.6	5.9
Blue-collar workers	3,759	3,113	10.7	8.8	9.9	8.1	14.1	11.8
Craft and kindred workers	850	789	6.2	5.7	6.3	5.7	5.5	6.1
Carpenters and other construction craft workers	412	371	9.2	8.6	9.3	8.7	6.9	1.9
All other	438	418	4.8	4.4	4.7	4.3	5.3	6.6
Operatives, except transport	1,724	1,328	14.4	11.1	13.5	10.1	15.8	12.5
Transport equipment operatives	384	268	10.4	7.2	10.0	6.8	16.0	11.8
Nonfarm laborers	800	728	13.7	12.4	14.0	12.2	11.0	13.7
Construction laborers	213	247	18.8	20.9	18.9	20.8	(1)	(1)
All other	587	481	12.5	10.3	12.7	9.8	10.9	13.4
Service workers	1,244	1,223	8.6	8.3	9.4	8.9	8.0	7.9
Private household	44	55	3.9	5.1	(1)	(1)	3.7	5.0
All other	1,200	1,167	9.0	8.5	9.4	8.9	8.6	8.3
Farm workers	128	126	3.9	3.8	3.3	2.9	5.9	7.2
No previous work experience	1,238	1,217	--	--	--	--	--	--
16 to 19 years	977	948	--	--	--	--	--	--
20 to 24 years	174	180	--	--	--	--	--	--
25 years and over	88	89	--	--	--	--	--	--

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

A-12. Unemployed persons by industry and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
Total, 16 years and over	100.0	100.0	7.9	7.3	7.6	6.7	8.2	8.2
Nonagricultural private wage and salary workers	72.6	70.3	7.8	7.0	8.0	6.6	7.6	7.5
Mining	.8	.9	6.3	5.9	6.2	6.1	7.2	4.4
Construction	7.9	8.2	12.5	12.2	13.1	12.4	5.9	8.8
Manufacturing	27.3	21.6	9.9	7.5	9.0	6.2	11.8	10.0
Durable goods	18.1	13.2	10.9	7.5	10.2	6.7	12.8	9.9
Lumber and wood products	1.1	.9	12.9	9.7	13.4	8.2	9.6	18.8
Furniture and fixtures	.7	.6	11.3	8.1	11.1	5.2	11.8	14.0
Stone, clay, and glass products	.7	.4	8.5	4.7	7.5	5.1	12.9	3.6
Primary metal industries	2.3	1.3	14.8	8.3	15.1	8.5	12.8	6.8
Fabricated metal products	2.2	1.7	11.8	9.0	10.8	8.3	15.6	11.6
Machinery, except electrical equipment	2.5	2.2	7.1	5.7	6.8	5.1	8.5	8.2
Electrical equipment	2.6	1.9	9.2	6.3	7.5	4.1	11.3	8.8
Transportation equipment	4.7	2.9	16.1	10.0	14.7	9.4	22.1	13.0
Automobiles	4.0	2.0	25.9	13.8	23.4	12.1	37.4	24.5
Other transportation equipment	.6	.9	4.8	6.2	4.3	6.5	6.5	4.6
Instruments and related products	.4	.4	5.3	4.9	4.4	4.0	6.6	6.0
Other durable goods industries	.9	.9	10.3	9.5	6.2	6.5	16.7	14.4
Nondurable goods	9.2	8.4	8.4	7.3	6.6	5.3	10.9	10.1
Food and kindred products	1.7	2.2	7.6	8.9	7.2	6.5	8.4	14.5
Textile mill products	1.0	.9	9.6	8.6	8.0	6.8	11.3	10.4
Apparel and other textile products	2.3	1.9	13.7	11.1	10.3	12.9	14.8	10.6
Paper and allied products	.7	.3	7.1	2.8	5.6	2.3	12.6	4.6
Printing and publishing	1.0	1.0	5.7	4.9	4.8	3.7	7.0	6.3
Chemicals and allied products	.7	.7	4.4	4.5	4.7	3.4	3.7	7.1
Rubber and plastics products	1.1	.8	12.7	8.9	10.5	5.3	17.7	15.5
Other nondurable goods industries	.6	.7	8.4	3.1	5.5	6.6	11.3	10.0
Transportation and public utilities	3.9	3.0	5.8	4.2	5.9	4.4	5.4	3.6
Railroads and railway express	.3	.3	4.5	4.1	4.4	4.1	(1)	(1)
Other transportation	2.9	2.1	9.2	6.2	9.3	6.6	8.7	4.8
Communication and other public utilities	.7	.6	2.4	2.0	1.8	1.6	3.4	2.8
Wholesale and retail trade	16.9	19.4	7.4	7.7	7.0	6.5	7.9	9.0
Finance, insurance, and real estate	2.1	2.5	3.2	3.5	3.3	3.1	3.1	3.8
Service industries	13.6	14.7	6.3	6.1	6.4	5.9	6.2	6.3
Professional services	5.5	6.5	4.5	4.8	3.9	4.1	4.8	5.1
All other service industries	8.1	8.2	8.5	8.0	8.5	7.4	8.5	8.5
Agricultural wage and salary workers	2.0	2.2	9.3	9.0	8.2	7.6	13.0	13.9
All other classes of workers	10.7	12.1	3.5	3.8	2.9	3.0	4.3	4.8
No previous work experience	14.7	15.3	--	--	--	--	--	--

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

HOUSEHOLD DATA

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
NUMBER OF UNEMPLOYED												
Total unemployed, in thousands.....	8,410	7,934	3,585	3,134	2,721	2,864	2,104	1,936	6,422	5,978	1,988	1,956
Job losers.....	4,367	3,728	2,599	2,139	1,352	1,261	416	328	3,434	2,864	933	864
On layoff.....	1,819	1,191	1,106	717	607	421	105	53	1,515	992	304	199
Other job losers.....	2,548	2,537	1,493	1,422	745	840	311	275	1,919	1,872	629	665
Job leavers.....	907	944	359	337	384	435	164	172	771	759	136	185
Reentrants.....	1,900	2,048	526	558	826	1,000	548	489	1,380	1,532	519	516
New entrants.....	1,237	1,215	101	100	159	168	977	947	837	824	400	391
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.....	51.9	47.0	72.5	68.3	49.7	44.0	19.8	16.9	53.5	47.9	47.0	44.2
On layoff.....	21.6	15.0	30.9	22.9	22.3	14.7	5.0	2.7	23.6	16.6	15.3	10.2
Other job losers.....	30.3	32.0	41.6	45.4	27.4	29.3	14.8	14.2	29.9	31.3	31.7	34.0
Job leavers.....	10.8	11.9	10.0	10.8	14.1	15.2	7.8	8.9	12.0	12.7	6.8	9.5
Reentrants.....	22.6	25.8	14.7	17.8	30.4	34.9	26.0	25.3	21.5	25.6	26.1	26.4
New entrants.....	14.7	15.3	2.8	3.2	5.8	5.9	46.4	48.9	13.0	13.8	20.1	20.0
UNEMPLOYMENT RATE												
Total unemployment rate.....	7.9	7.3	6.4	5.6	6.9	7.0	18.2	17.9	6.8	6.3	15.1	14.8
Job loser rate ¹	4.1	3.4	4.7	3.8	3.4	3.0	3.6	3.0	3.6	3.0	7.1	6.5
Job leaver rate ¹.....	.8	.9	.6	.6	1.0	1.1	1.4	1.6	.8	.8	1.0	1.4
Reentrant rate ¹	1.8	1.9	.9	1.0	2.1	2.4	4.7	4.5	1.5	1.6	3.9	3.9
New entrant rate ¹	1.2	1.1	.2	.2	.4	.4	8.4	8.7	.9	.9	3.0	3.0

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

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

[Percent distribution]

Reason, sex, and age	July 1981						
	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.....	7,934	100.0	43.3	32.6	24.1	10.3	13.8
Job losers.....	3,728	100.0	37.4	29.9	32.7	14.1	18.6
On layoff.....	1,191	100.0	51.9	25.9	22.3	9.6	12.7
Other job losers.....	2,537	100.0	30.6	31.8	37.6	16.2	21.4
Job leavers.....	944	100.0	47.9	30.9	21.2	9.1	12.1
Reentrants.....	2,048	100.0	49.5	34.7	15.9	7.0	8.9
New entrants.....	1,215	100.0	47.1	38.9	13.9	5.5	8.4
Males, 20 years and over.....	3,134	100.0	36.1	30.5	33.4	13.1	20.3
Job losers.....	2,139	100.0	34.9	29.5	35.6	14.1	21.5
On layoff.....	717	100.0	50.5	25.4	24.1	10.8	13.3
Other job losers.....	1,422	100.0	27.0	31.6	41.5	15.7	25.7
Job leavers.....	337	100.0	40.5	32.5	27.0	8.1	18.9
Reentrants.....	558	100.0	39.6	33.1	27.4	12.6	14.8
New entrants.....	100	100.0	29.2	31.3	39.5	11.5	28.0
Females, 20 years and over.....	2,864	100.0	44.9	32.1	23.0	10.8	12.2
Job losers.....	1,261	100.0	36.6	31.7	31.7	15.3	16.4
On layoff.....	421	100.0	50.2	28.3	21.5	8.8	12.7
Other job losers.....	840	100.0	29.8	33.4	36.7	18.5	18.2
Job leavers.....	435	100.0	47.9	32.4	19.8	10.5	9.2
Reentrants.....	1,000	100.0	52.7	33.7	13.7	5.6	8.0
New entrants.....	168	100.0	52.5	25.1	22.5	9.5	13.0
Both sexes, 16 to 19 years.....	1,936	100.0	52.4	36.8	10.7	5.2	5.6
Job losers.....	328	100.0	56.9	25.5	17.5	9.6	7.9
On layoff.....	53	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers.....	275	100.0	51.8	27.9	20.3	11.8	8.5
Job leavers.....	172	100.0	62.8	23.9	13.3	7.2	6.0
Reentrants.....	489	100.0	54.2	38.5	7.3	3.3	4.0
New entrants.....	947	100.0	48.0	42.2	9.7	4.2	5.6

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

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

Sex, age, and race	July 1981								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	7,934	6,632	27.1	6.5	75.4	34.0	14.7	4.2	1.62
16 to 19 years	1,936	1,869	18.0	3.1	82.1	30.9	14.2	2.5	1.51
20 to 24 years	1,848	1,588	33.4	5.8	74.2	34.7	14.2	3.1	1.65
25 to 34 years	2,058	1,632	30.8	8.8	73.3	37.2	14.5	5.2	1.70
35 to 44 years	913	693	30.9	8.9	71.6	33.5	17.3	3.6	1.66
45 to 54 years	698	502	27.7	10.6	72.5	36.9	15.1	7.2	1.70
55 to 64 years	396	277	24.9	6.1	70.0	28.2	14.4	9.0	1.53
65 years and over	85	71	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Males, 16 years and over	4,151	3,337	29.8	6.1	74.3	31.3	16.5	5.4	1.65
16 to 19 years	1,017	975	19.5	2.6	82.9	28.5	16.2	1.8	1.51
20 to 24 years	961	808	38.2	6.1	74.1	32.9	16.3	3.8	1.72
25 to 34 years	1,055	780	33.3	7.9	74.2	33.8	16.2	7.3	1.73
35 to 44 years	447	307	37.1	11.1	71.3	29.3	16.9	5.9	1.72
45 to 54 years	376	253	29.6	7.9	78.7	35.2	21.7	10.7	1.84
55 to 64 years	247	172	23.8	7.0	69.8	29.1	13.4	10.5	1.53
65 years and over	48	43	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,783	3,295	24.4	6.9	74.4	36.6	12.8	3.0	1.58
16 to 19 years	919	895	16.4	3.7	81.1	33.5	12.1	3.0	1.50
20 to 24 years	887	780	28.3	5.5	74.2	36.5	11.9	2.4	1.59
25 to 34 years	1,003	851	28.4	9.6	72.5	40.4	13.0	3.3	1.67
35 to 44 years	466	386	25.9	7.3	71.8	36.5	17.6	1.8	1.61
45 to 54 years	322	250	25.2	13.2	66.0	38.0	8.4	4.0	1.55
55 to 64 years	149	105	26.7	4.8	70.5	27.6	16.2	6.7	1.52
65 years and over	37	28	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	5,978	4,886	24.8	6.8	76.7	35.6	14.7	4.2	1.63
Males	3,156	2,454	27.2	6.4	77.3	33.6	17.0	5.5	1.67
Females	2,822	2,432	22.4	7.2	76.1	37.7	12.5	3.0	1.59
Black and other, 16 years and over	1,956	1,746	33.6	5.6	71.6	29.3	14.7	4.2	1.59
Males	995	883	37.1	5.3	73.5	25.1	15.3	5.1	1.61
Females	961	863	30.0	5.9	69.8	33.6	14.0	3.1	1.56

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

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

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

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

Sex and reason	July 1981								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	7,934	6,632	27.1	6.5	75.4	34.0	14.7	4.2	1.62
Job losers	3,728	2,536	35.2	7.5	76.5	34.5	16.8	4.7	1.75
Job leavers	944	934	24.9	6.5	74.8	38.4	14.7	2.6	1.62
Reentrants	2,048	1,954	24.4	6.7	70.8	33.5	11.1	6.0	1.52
New entrants	1,215	1,207	16.4	3.7	81.0	30.2	16.1	1.5	1.49
Males, 16 years and over	4,151	3,337	29.8	6.1	76.3	31.3	16.5	5.4	1.65
Job losers	2,357	1,594	36.1	6.5	76.1	33.0	17.2	6.1	1.75
Job leavers	412	413	24.0	8.2	74.1	31.2	16.2	3.6	1.57
Reentrants	795	744	28.1	7.1	70.6	28.9	13.6	8.7	1.57
New entrants	588	585	19.1	2.1	85.6	30.1	18.8	.3	1.56
Females, 16 years and over	3,783	3,295	24.4	6.9	74.4	36.6	12.8	3.0	1.58
Job losers	1,371	943	33.5	9.3	77.0	36.9	16.3	2.2	1.75
Job leavers	532	520	25.6	5.2	75.6	44.0	13.5	1.7	1.66
Reentrants	1,253	1,210	22.1	6.4	70.8	36.4	9.6	4.4	1.50
New entrants	627	622	13.8	5.3	76.7	30.2	13.5	2.6	1.42

NOTE: See note, table A-15.

HOUSEHOLD DATA

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
Total, 16 years and over	8,410	7,934	100.0	100.0	7,261	6,741	100.0	100.0
Less than 5 weeks	3,568	3,432	42.4	43.3	2,886	2,785	39.7	41.3
5 to 14 weeks	3,083	2,589	36.7	32.6	2,712	2,175	37.4	32.3
5 to 10 weeks	2,413	2,068	28.7	26.1	2,078	1,734	28.6	25.7
11 to 14 weeks	670	520	8.0	6.6	634	442	8.7	6.6
15 weeks and over	1,758	1,913	20.9	24.1	1,663	1,781	22.9	26.4
15 to 26 weeks	869	821	10.3	10.3	808	765	11.1	11.3
27 weeks and over	889	1,093	10.6	13.8	855	1,016	11.8	15.1
27 to 51 weeks	609	571	7.2	7.2	582	539	8.0	8.0
52 weeks and over	280	521	3.3	6.6	273	478	3.8	7.1
Average (mean) duration, in weeks	11.0	12.9	--	--	11.7	13.6	--	--
Median duration, in weeks	6.2	6.2	--	--	6.7	6.6	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			July 1980	July 1981	July 1980	July 1981
	July 1981										
Total, 16 years and over	7,934	3,432	2,589	821	1,093	12.9	6.2	42.4	43.3	20.9	24.1
16 to 21 years	2,768	1,390	999	181	197	9.1	5.0	47.6	50.2	11.1	13.7
16 to 19 years	1,936	1,015	713	100	108	8.0	4.8	50.8	52.4	8.2	10.7
20 to 24 years	1,848	801	629	216	202	11.8	6.1	41.1	43.3	20.3	22.6
25 to 34 years	2,058	797	643	270	348	14.9	7.6	38.3	38.7	27.0	30.0
35 to 44 years	913	373	261	112	167	15.1	7.2	41.2	40.9	25.1	30.5
45 to 54 years	698	263	228	63	144	15.9	7.9	35.2	37.6	30.1	29.7
55 to 64 years	396	150	92	57	98	18.3	9.0	43.4	37.8	28.7	38.9
65 years and over	85	33	22	3	27	25.2	8.5	43.9	39.5	32.9	35.1
Males, 16 years and over	4,151	1,638	1,342	472	700	14.7	7.0	38.9	39.5	24.3	28.2
16 to 21 years	1,441	663	541	112	126	10.4	5.5	44.1	46.0	14.7	16.5
16 to 19 years	1,017	506	385	61	65	8.8	5.0	47.5	49.7	11.5	12.4
20 to 24 years	961	370	318	137	137	14.1	6.8	37.1	38.5	23.7	28.5
25 to 34 years	1,055	373	319	140	223	17.4	9.2	33.5	35.4	31.2	34.4
35 to 44 years	447	169	109	59	110	18.2	8.9	36.7	37.9	29.0	37.8
45 to 54 years	376	118	136	37	85	16.8	8.9	33.6	31.3	35.1	32.6
55 to 64 years	247	86	65	35	62	18.3	9.3	44.9	34.7	26.4	39.2
65 years and over	48	17	11	2	18	29.3	10.9	(1)	(1)	(1)	(1)
Females, 16 years and over	3,783	1,794	1,247	349	393	10.9	5.4	47.0	47.4	16.5	19.6
16 to 21 years	1,327	728	458	70	71	7.6	4.6	51.9	54.9	6.7	10.6
16 to 19 years	919	509	328	38	44	7.2	4.5	54.7	55.4	4.2	8.9
20 to 24 years	887	431	311	79	65	9.4	5.2	46.4	48.6	15.7	16.2
25 to 34 years	1,003	424	325	130	125	12.3	6.3	45.0	42.2	21.3	25.4
35 to 44 years	466	204	153	53	57	12.2	6.2	46.0	43.8	20.9	23.5
45 to 54 years	322	145	92	26	59	14.8	6.8	37.1	45.0	24.2	26.4
55 to 64 years	149	64	28	22	35	18.2	8.1	40.2	43.0	33.4	38.4
65 years and over	37	17	11	1	8	19.9	5.8	(1)	(1)	(1)	(1)
White, 16 years and over	5,978	2,643	1,960	597	777	12.4	6.0	42.4	44.2	21.0	23.0
Males	3,156	1,272	1,010	369	505	14.1	6.9	38.9	40.3	25.0	27.7
Females	2,822	1,372	950	227	273	10.5	5.2	47.2	48.6	15.6	17.7
Black and other, 16 years and over	1,956	789	628	224	315	14.4	6.8	42.4	40.3	20.7	27.6
Males	995	366	332	102	195	16.6	7.6	38.7	36.8	22.2	29.9
Females	961	422	297	121	120	12.0	6.2	46.5	44.0	19.1	25.2
Males, 16 years and over:											
Married, spouse present	1,504	552	426	201	324	17.2	8.5	36.1	36.7	28.6	34.9
Widowed, divorced, or separated	445	168	116	49	112	17.6	9.3	35.9	37.9	32.4	36.1
Single (never married)	2,203	917	800	222	264	12.5	6.2	41.6	41.6	19.5	22.1
Females, 16 years and over:											
Married, spouse present	1,433	707	416	155	156	10.9	5.2	46.6	49.3	19.7	21.7
Widowed, divorced, or separated	742	294	237	88	123	15.3	6.8	41.0	39.6	24.5	28.4
Single (never married)	1,607	793	594	106	114	8.9	5.1	49.7	49.4	10.3	13.7

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		16 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			July 1980	July 1981	July 1980	July 1981
	July 1981										
OCCUPATION											
White-collar workers	2,256	949	786	267	253	11.9	6.4	42.8	42.1	21.6	23.1
Professional and managerial	821	345	285	90	100	12.5	6.8	40.6	42.0	25.3	23.1
Sales workers	316	127	116	36	36	11.2	6.5	39.2	40.4	23.0	22.9
Clerical workers	1,120	476	386	140	118	11.7	6.2	45.2	42.5	18.7	23.0
Blue-collar workers	3,113	1,298	870	348	596	15.4	6.9	38.4	41.7	25.9	30.3
Craft and kindred workers	789	295	222	125	146	15.5	8.2	36.2	37.4	29.7	34.4
Operatives, except transport	1,328	576	373	108	271	15.8	6.6	37.5	43.3	25.3	28.5
Transport equipment operatives	268	113	72	34	49	14.6	7.1	39.6	42.2	22.1	30.8
Nonfarm laborers	728	314	203	81	130	14.6	6.4	41.9	43.2	25.2	29.0
Service workers	1,223	547	414	131	131	11.4	5.9	45.8	44.8	18.5	21.4
INDUSTRY¹											
Agriculture	175	89	60	15	12	9.0	4.9	54.0	50.9	11.2	15.0
Construction	682	280	188	93	122	14.7	7.3	39.4	41.0	30.4	31.5
Manufacturing	1,726	690	494	174	368	16.7	7.6	37.2	40.0	25.7	31.4
Durable goods	1,057	412	287	111	247	18.2	8.2	33.9	39.0	26.2	33.9
Non-durable goods	669	278	207	63	121	14.3	6.7	43.7	41.6	24.7	27.5
Transportation and public utilities	281	129	72	36	45	14.2	5.9	42.0	45.8	26.0	28.6
Wholesale and retail trade	1,549	679	519	174	177	11.6	6.0	40.8	43.9	20.6	22.6
Finance and service industries	1,821	814	618	213	174	11.0	6.1	45.5	44.7	19.4	21.3
Public administration	273	85	105	27	57	15.5	8.3	40.7	31.1	26.0	30.6
No previous work experience	1,217	574	474	67	102	10.4	5.4	49.3	47.1	8.2	13.9

¹ Includes wage and salary workers only.

A-20. Employed persons by industry, age, and sex

[In thousands]

Industry and age	Total		Males		Females	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
	All industries	98,587	100,474	57,363	58,127	41,224	42,347
16 to 19 years	9,459	8,905	5,117	4,792	4,342	4,113
16 to 17 years	4,095	3,774	2,280	2,076	1,815	1,699
18 to 19 years	5,364	5,131	2,837	2,717	2,527	2,414
20 to 24 years	14,173	14,452	7,637	7,853	6,536	6,599
25 to 54 years	60,798	62,968	35,878	36,826	24,920	26,141
25 to 34 years	25,780	27,136	15,171	15,854	10,610	11,282
35 to 44 years	19,016	19,728	11,145	11,412	7,871	8,315
45 to 54 years	16,001	16,103	9,562	9,560	6,439	6,544
55 to 64 years	11,302	11,251	6,951	6,867	4,351	4,384
55 to 59 years	6,936	6,974	4,231	4,187	2,705	2,787
60 to 64 years	4,366	4,277	2,720	2,680	1,646	1,597
65 years and over	2,856	2,898	1,781	1,788	1,074	1,110
Nonagricultural industries	94,734	96,660	54,364	55,144	40,370	41,516
16 to 19 years	8,801	8,319	4,593	4,310	4,208	4,010
16 to 17 years	3,687	3,443	1,953	1,802	1,734	1,640
18 to 19 years	5,114	4,877	2,640	2,507	2,473	2,370
20 to 24 years	13,702	13,915	7,257	7,406	6,446	6,509
25 to 54 years	58,942	61,092	34,511	35,449	24,429	25,643
25 to 34 years	25,086	26,402	14,634	15,288	10,452	11,114
35 to 44 years	18,403	19,126	10,712	10,999	7,691	8,127
45 to 54 years	15,453	15,564	9,166	9,162	6,287	6,402
55 to 64 years	10,749	10,741	6,499	6,458	4,250	4,283
55 to 59 years	6,654	6,699	4,013	3,969	2,642	2,730
60 to 64 years	4,095	4,042	2,487	2,489	1,608	1,553
65 years and over	2,541	2,593	1,503	1,522	1,037	1,071
Agriculture	3,853	3,814	2,999	2,982	854	831
16 to 19 years	659	586	524	483	135	103
16 to 17 years	408	332	327	273	81	58
18 to 19 years	251	254	197	210	54	44
20 to 24 years	470	537	380	447	90	90
25 to 54 years	1,856	1,875	1,366	1,377	490	498
25 to 34 years	694	734	536	566	158	169
35 to 44 years	613	602	433	414	180	188
45 to 54 years	549	539	397	397	152	142
55 to 64 years	553	511	451	409	101	101
55 to 59 years	282	275	218	218	64	57
60 to 64 years	271	235	233	191	38	44
65 years and over	315	305	278	266	37	39

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

(In thousands)

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
	TOTAL	98,587	100,474	52,247	53,334	36,881	38,235	5,117	4,792	4,342	4,113
White-collar workers	50,718	51,552	23,120	23,363	24,662	25,352	760	767	2,176	2,070
Professional and technical	15,143	15,375	8,436	8,567	6,389	6,518	158	139	160	152
Health workers	2,932	3,018	984	956	1,915	2,043	11	3	23	15
Teachers, except college	2,499	2,456	686	685	1,788	1,749	4	9	21	12
Other professional and technical	9,712	9,901	6,766	6,926	2,686	2,726	143	127	116	125
Managers and administrators, except farm	11,145	11,555	8,178	8,312	2,847	3,119	64	62	56	63
Salaried workers	9,105	9,545	6,633	6,788	2,358	2,642	57	52	56	62
Self-employed workers in retail trade	935	827	625	524	305	300	6	2	1	1
Self-employed workers, except retail trade	1,105	1,183	919	1,000	184	176	2	7	--	--
Sales workers	6,177	6,276	3,150	3,217	2,301	2,411	249	221	476	428
Retail trade	3,139	3,183	982	1,015	1,555	1,615	188	155	414	397
Other industries	3,038	3,094	2,168	2,201	747	796	61	65	62	31
Clerical workers	18,254	18,345	3,356	3,267	13,124	13,304	289	346	1,484	1,428
Stenographers, typists, and secretaries	5,060	4,984	72	65	4,591	4,537	9	8	388	375
Other clerical workers	13,194	13,361	3,284	3,202	8,533	8,767	280	338	1,096	1,053
Blue-collar workers	31,410	32,210	23,129	23,838	5,069	5,449	2,778	2,525	433	398
Craft and kindred workers	12,815	12,990	11,454	11,659	711	753	605	536	45	42
Carpenters	1,275	1,154	1,175	1,042	11	22	88	87	1	3
Construction craft workers, except carpenters	2,796	2,808	2,544	2,557	61	59	182	174	8	17
Mechanics and repairers	3,327	3,389	3,076	3,161	70	65	178	162	2	1
Metal craft workers	1,279	1,357	1,197	1,270	44	55	39	33	--	--
Blue-collar worker supervisors, not elsewhere classified	1,737	1,832	1,563	1,630	157	193	16	8	1	1
All other	2,400	2,450	1,899	1,999	367	359	102	73	33	20
Operatives, except transport	10,235	10,630	5,565	5,816	3,772	4,012	644	599	254	203
Durable goods manufacturing	4,439	4,652	2,776	2,903	1,421	1,529	174	148	69	72
Nondurable goods manufacturing	3,267	3,323	1,237	1,276	1,754	1,824	143	132	132	91
Other industries	2,528	2,655	1,552	1,636	598	659	326	319	53	41
Transport equipment operatives	3,318	3,450	2,929	3,023	188	281	187	131	14	16
Drivers, motor vehicles	2,821	2,920	2,469	2,541	175	256	165	110	12	13
All other	497	530	460	482	13	25	22	21	2	3
Nonfarm laborers	5,043	5,139	3,181	3,339	398	403	1,343	1,260	121	137
Construction	922	932	663	707	15	6	239	211	6	8
Manufacturing	996	1,013	708	769	139	121	132	110	17	13
Other industries	3,124	3,194	1,810	1,863	244	276	972	939	98	116
Service workers	13,295	13,551	3,934	4,008	6,592	6,873	1,149	1,111	1,620	1,560
Private household workers	1,094	1,028	17	21	830	751	12	14	236	241
Service workers, except private household	12,201	12,524	3,917	3,988	5,762	6,121	1,137	1,096	1,384	1,319
Food service workers	4,479	4,736	860	921	2,130	2,308	664	660	825	847
Protective service workers	1,436	1,399	1,255	1,234	142	131	33	27	6	8
All other	6,286	6,389	1,802	1,833	3,490	3,682	440	409	553	464
Farm workers	3,164	3,160	2,064	2,125	558	561	430	389	113	84
Farmers and farm managers	1,596	1,544	1,387	1,320	181	205	26	16	2	3
Farm laborers and supervisors	1,568	1,616	677	805	376	356	404	373	111	81
Paid workers	1,171	1,292	634	770	151	157	314	304	71	61
Unpaid family workers	397	324	43	35	225	200	90	70	39	20

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

(Percent distribution)

Occupation and race	Total		Males		Females	
	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981
TOTAL						
Total, 16 years and over (thousands)	98,587	100,474	57,363	58,127	41,224	42,347
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.4	51.3	41.6	41.5	65.1	64.8
Professional and technical	15.4	15.3	15.0	15.0	15.9	15.8
Managers and administrators, except farm	11.3	11.5	14.4	14.4	7.0	7.5
Sales workers	6.3	6.2	5.9	5.9	6.7	6.7
Clerical workers	18.5	18.3	6.4	6.2	35.4	34.8
Blue-collar workers	31.9	32.1	45.2	45.4	13.3	13.8
Craft and kindred workers	13.0	12.9	21.0	21.0	1.8	1.9
Operatives, except transport	10.4	10.6	10.8	11.0	9.8	10.0
Transport equipment operatives	3.4	3.4	5.4	5.4	.5	.7
Nonfarm laborers	5.1	5.1	7.9	7.9	1.3	1.3
Service workers	13.5	13.5	9.9	8.8	19.9	19.9
Private household workers	1.1	1.0	.1	.1	2.6	2.3
Other service workers	12.4	12.5	8.8	8.7	17.3	17.6
Farm workers	3.2	3.1	4.3	4.3	1.6	1.5
Farmers and farm managers	1.6	1.5	2.5	2.3	.4	.5
Farm laborers and supervisors	1.6	1.6	1.9	2.0	1.2	1.0
White						
Total, 16 years and over (thousands)	87,400	89,250	51,520	52,303	35,879	36,947
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	53.0	52.8	43.0	42.9	67.2	66.8
Professional and technical	15.7	15.5	15.4	15.3	16.1	15.8
Managers and administrators, except farm	12.1	12.2	15.3	15.2	7.5	8.0
Sales workers	6.7	6.7	6.3	6.3	7.3	7.3
Clerical workers	18.5	18.3	6.1	6.1	36.3	35.6
Blue-collar workers	31.4	31.6	44.5	44.6	12.8	13.1
Craft and kindred workers	13.5	13.4	21.5	21.5	1.9	1.9
Operatives, except transport	10.0	10.0	10.5	10.6	9.2	9.2
Transport equipment operatives	3.2	3.3	5.1	5.2	.5	.7
Nonfarm laborers	4.8	4.9	7.3	7.4	1.2	1.3
Service workers	12.2	12.3	8.0	7.9	18.2	18.5
Private household workers	.8	.8	(1)	.1	1.9	1.8
Other service workers	11.4	11.5	8.0	7.9	16.3	16.7
Farm workers	3.4	3.3	4.5	4.6	1.7	1.6
Farmers and farm managers	1.8	1.7	2.7	2.5	.5	.5
Farm laborers and supervisors	1.6	1.6	1.8	2.0	1.2	1.1
Black and other						
Total, 16 years and over (thousands)	11,187	11,224	5,843	5,824	5,344	5,400
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	39.5	39.7	29.1	29.0	50.8	51.1
Professional and technical	12.6	13.4	11.1	11.8	14.3	15.1
Managers and administrators, except farm	5.1	5.6	6.5	7.1	3.7	4.1
Sales workers	2.8	2.8	2.6	2.8	3.1	2.8
Clerical workers	18.9	17.8	9.0	7.3	29.7	29.0
Blue-collar workers	35.1	35.9	51.4	51.8	17.3	18.7
Craft and kindred workers	9.4	9.4	16.6	16.6	1.7	1.7
Operatives, except transport	13.7	15.1	13.9	15.1	13.5	15.0
Transport equipment operatives	4.6	4.4	8.2	7.8	.5	.7
Nonfarm laborers	7.4	7.0	12.8	12.3	1.6	1.3
Service workers	23.5	22.9	16.4	16.8	31.1	29.5
Private household workers	3.4	3.0	.2	.1	6.9	6.2
Other service workers	20.1	19.9	16.2	16.7	24.3	23.3
Farm workers	1.9	1.5	3.0	2.3	.8	.7
Farmers and farm managers	.3	.3	.5	.4	(1)	.1
Farm laborers and supervisors	1.6	1.3	2.4	1.9	.8	.6

¹ Less than 0.05 percent.

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

[In thousands]

Age and sex	July 1981								
	Nonagricultural industries				Agriculture				
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	89,223	1,290	14,842	73,092	7,017	420	1,781	1,698	335
16 to 18 years	8,166	416	816	6,933	120	34	453	40	92
16 to 17 years	3,369	295	371	2,703	49	25	252	20	59
18 to 19 years	4,797	121	445	4,230	71	9	201	20	33
20 to 24 years	13,519	121	1,298	12,100	363	33	409	94	34
25 to 34 years	24,654	134	4,015	20,504	1,658	90	364	324	47
35 to 44 years	17,322	113	3,463	13,746	1,632	112	232	319	51
45 to 54 years	13,997	149	2,979	10,869	1,494	73	152	318	69
55 to 64 years	9,538	203	1,950	7,385	1,143	59	119	367	25
55 to 59 years	5,995	108	1,227	4,660	662	41	60	200	16
60 to 64 years	3,543	95	723	2,725	481	18	59	167	9
65 years and over	2,028	153	320	1,555	546	18	52	237	17
Males, 16 years and over	50,169	298	7,473	42,397	4,929	46	1,408	1,467	107
16 to 18 years	4,209	177	414	3,618	83	18	372	39	72
16 to 17 years	1,761	126	190	1,446	30	11	206	20	47
18 to 19 years	2,448	51	224	2,173	53	6	166	18	25
20 to 24 years	7,131	44	559	6,528	261	13	340	85	22
25 to 34 years	14,126	13	1,983	12,130	1,156	6	282	280	4
35 to 44 years	9,822	12	1,743	8,067	1,172	4	156	256	1
45 to 54 years	8,092	11	1,533	6,548	1,070	--	123	275	--
55 to 64 years	5,640	13	1,063	4,565	815	3	89	317	3
55 to 59 years	3,495	8	641	2,846	472	2	46	171	2
60 to 64 years	2,146	5	422	1,719	343	--	43	147	2
65 years and over	1,147	27	179	941	372	3	47	214	6
Females, 16 years and over	39,054	992	7,368	30,694	2,087	374	373	232	227
16 to 18 years	3,956	239	403	3,314	38	16	81	2	20
16 to 17 years	1,607	169	181	1,257	19	14	46	--	13
18 to 19 years	2,349	70	221	2,057	18	2	35	2	7
20 to 24 years	6,388	77	739	5,572	102	20	69	9	12
25 to 34 years	10,528	121	2,032	8,374	502	84	82	44	42
35 to 44 years	7,499	100	1,719	5,680	520	108	75	62	50
45 to 54 years	5,905	138	1,447	4,320	423	74	29	43	70
55 to 64 years	3,898	190	887	2,820	328	57	31	49	21
55 to 59 years	2,501	100	587	1,814	190	39	14	29	14
60 to 64 years	1,397	91	301	1,006	138	18	16	21	7
65 years and over	881	126	141	614	175	16	5	23	11

A-24. Employed persons by industry and occupation

[In thousands]

Industry	July 1981											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture	3,814	88	34	10	90	47	13	21	330	--	21	3,160
Mining	1,115	149	105	8	116	271	355	67	29	--	13	--
Construction	6,522	240	858	31	462	3,496	286	175	932	--	43	--
Manufacturing	21,817	2,491	1,672	514	2,709	4,270	7,975	731	1,013	--	443	--
Durable goods	13,155	1,705	929	192	1,639	2,873	4,652	347	568	--	251	--
Nondurable goods	8,662	786	743	321	1,070	1,397	3,323	385	446	--	192	--
Transportation and public utilities	6,658	613	703	99	1,555	1,421	192	1,405	493	--	177	--
Wholesale and retail trade	20,567	428	4,037	4,103	3,665	1,392	967	757	1,244	--	3,973	--
Wholesale trade	4,018	158	848	920	810	327	202	403	310	--	40	--
Retail trade	16,549	270	3,189	3,183	2,855	1,066	765	355	934	--	3,933	--
Finance, insurance, and real estate	6,082	396	1,152	1,276	2,807	95	5	11	99	--	240	--
Services	28,641	9,892	2,276	230	5,121	1,729	786	230	780	1,028	6,570	--
Private households	1,334	4	1	--	2	11	5	2	253	1,028	26	--
Other service industries	27,307	9,888	2,275	228	5,119	1,718	781	228	527	--	6,544	--
Public administration	5,258	1,078	715	6	1,822	270	51	53	217	--	1,046	--

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
	July 1980				July 1981		Paid absences ²		Unpaid absences^{2}
			July 1980	July 1981			July 1980	July 1981	July 1980	July 1981
Total, 16 years and over	12,514	11,160	12,385	10,963	7,606	6,424	4,054	3,804
Vacation	10,226	8,780	10,147	8,682	6,979	5,665	2,780	2,612
Illness	1,228	1,302	1,201	1,256	424	526	673	610
Bad weather	47	30	39	20	--	--	--	--
Industrial dispute	136	71	136	71	--	--	--	--
All other reasons	876	977	862	933	233	232	601	582
Males, 16 years and over	6,188	5,281	6,094	5,126	4,138	3,516	1,512	1,206
Vacation	4,893	4,012	4,839	3,940	3,823	3,088	833	658
Illness	724	738	702	700	260	311	377	314
All other reasons ³	571	531	553	486	136	117	303	234
Females, 16 years and over	6,325	5,879	6,291	5,837	3,419	2,908	2,543	2,598
Vacation	5,333	4,768	5,308	4,742	3,157	2,577	1,949	1,954
Illness	504	564	499	557	166	215	297	296
All other reasons ³	488	548	483	538	97	116	298	349

¹ Excludes private household workers.³ Includes bad weather and industrial dispute, not shown separately.² Pay status not available separately for bad weather and industrial dispute; these categories are included in "all other reasons."

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 industry

Hours of work	July 1981					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agric-ulture	All industries	Nonagri-cultural industries	Agric-ulture
Total, 16 years and over	89,313	85,697	3,616	100.0	100.0	100.0
1-34 hours	20,195	19,238	958	22.6	22.4	26.5
1-4 hours	656	625	30	.7	.7	.8
5-14 hours	3,195	3,010	185	3.6	3.5	5.1
15-29 hours	10,107	9,576	532	11.3	11.2	14.7
30-34 hours	6,237	6,027	211	7.0	7.0	5.8
35 hours and over	69,118	66,460	2,659	77.4	77.6	73.5
35-39 hours	6,433	6,281	152	7.2	7.3	4.2
40 hours	40,075	39,472	603	44.9	46.1	16.7
41 hours and over	22,610	20,707	1,904	25.3	24.2	52.6
41 to 48 hours	8,649	8,424	225	9.7	9.8	6.2
49 to 59 hours	7,496	6,975	522	8.4	8.1	14.4
60 hours and over	6,465	5,308	1,157	7.2	6.2	32.0
Average hours, total at work	39.2	38.9	47.6	--	--	--
Average hours, workers on full-time schedules	43.1	42.6	55.4	--	--	--

HOUSEHOLD DATA

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

[Numbers in thousands]

Reason for working less than 35 hours	July 1981					
	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	20,195	6,434	13,761	19,238	6,157	13,080
Economic reasons	5,391	1,753	3,638	5,124	1,650	3,474
Stack work	2,278	1,354	924	2,144	1,268	876
Material shortages or repairs to plant and equipment	71	71	--	71	71	--
New job started during week	243	243	--	226	226	--
Job terminated during week	85	85	--	84	84	--
Could find only part-time work	2,714	--	2,714	2,597	--	2,597
Other reasons	14,803	4,680	10,123	14,114	4,507	9,607
Does not want, or unavailable for, full-time work	7,985	--	7,985	7,605	--	7,605
Vacation	1,791	1,791	--	1,738	1,738	--
Illness	1,417	1,260	157	1,372	1,235	137
Bad weather	155	155	--	109	109	--
Industrial dispute	17	17	--	17	17	--
Legal or religious holiday	49	49	--	48	48	--
Full time for this job	1,478	--	1,478	1,400	--	1,400
All other reasons	1,911	1,408	503	1,823	1,358	465
Average hours:						
Economic reasons	21.5	24.0	20.3	21.5	24.0	20.3
Other reasons	21.8	25.8	20.0	22.0	25.9	20.1
Worked 30 to 34 hours:						
Economic reasons	1,618	752	866	1,555	725	830
Other reasons	4,619	2,404	2,215	4,472	2,344	2,128

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

[Numbers in thousands]

Industry	July 1981								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules						
				Total	40 hours or less	41 to 48 hours	49 hours or more			
Total, 16 years and over ¹	85,697	5,124	9,607	70,966	50,259	8,424	12,283	38.9	42.6	
Wage and salary workers	78,911	4,608	8,475	65,828	47,968	7,850	10,010	38.6	42.2	
Construction	4,987	470	170	4,347	3,143	493	711	39.4	42.1	
Manufacturing	18,906	549	460	17,897	13,159	2,410	2,328	40.9	41.9	
Durable goods	11,276	202	173	10,901	8,054	1,416	1,431	41.4	42.0	
Nondurable goods	7,630	348	287	6,995	5,104	994	897	40.3	41.9	
Transportation and public utilities	5,691	192	206	5,293	3,833	623	837	41.4	42.9	
Wholesale and retail trade	17,244	1,704	3,242	12,298	7,982	1,892	2,424	37.0	43.1	
Finance, insurance, and real estate	5,200	113	469	4,618	3,597	441	580	38.9	41.1	
Service industries	21,080	1,456	3,654	15,970	12,223	1,415	2,332	36.3	41.7	
Private households	1,205	292	546	367	255	24	88	23.4	44.7	
All other industries	19,875	1,164	3,108	15,603	11,968	1,391	2,244	37.1	41.6	
Public administration	4,809	108	260	4,441	3,526	409	506	39.8	41.3	
Self-employed workers	6,367	504	972	4,891	2,167	547	2,177	41.6	48.8	
Unpaid family workers	419	12	160	247	125	26	96	36.6	47.1	

¹ Includes mining, not shown separately.

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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	July 1981							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	85,697	5,124	9,607	70,966	50,259	20,707	38.9	42.6
16 to 21 years	13,163	2,207	2,672	8,284	6,504	1,780	33.5	41.0
16 to 19 years	7,949	1,639	2,122	4,188	3,412	776	31.0	40.7
16 to 17 years	3,275	867	1,250	1,158	1,001	157	26.3	39.5
18 to 19 years	4,674	771	872	3,031	2,413	618	34.3	41.1
20 years and over	77,748	3,484	7,485	66,779	46,848	19,931	39.7	42.8
20 to 24 years	13,101	1,054	1,193	10,854	8,156	2,698	38.4	41.8
25 years and over	64,646	2,432	6,292	55,922	38,690	17,232	39.9	43.0
25 to 44 years	40,156	1,528	3,199	35,429	24,164	11,265	40.5	43.1
45 to 64 years	22,246	801	2,026	19,419	13,777	5,642	40.0	42.8
65 years and over	2,245	101	1,068	1,076	750	326	29.5	42.8
Males, 16 years and over	50,018	2,543	2,692	44,783	28,819	15,964	41.5	43.9
16 to 21 years	6,894	1,097	1,109	4,688	3,433	1,255	35.0	42.0
16 to 19 years	4,137	812	917	2,408	1,871	537	32.4	41.5
16 to 17 years	1,728	427	566	735	621	114	28.0	40.2
18 to 19 years	2,410	385	351	1,674	1,252	422	35.7	42.1
20 years and over	45,881	1,731	1,775	42,375	26,947	15,428	42.3	44.1
20 to 24 years	7,057	538	382	6,137	4,173	1,964	40.3	43.1
25 years and over	38,825	1,193	1,393	36,239	22,777	13,462	42.8	44.2
25 to 44 years	23,875	755	459	22,661	13,870	8,791	43.4	44.5
45 to 64 years	13,628	388	384	12,856	8,424	4,432	42.6	43.9
65 years and over	1,322	49	551	722	482	240	31.5	42.6
Females, 16 years and over	35,679	2,581	6,915	26,183	21,440	4,743	35.1	40.4
16 to 21 years	6,269	1,111	1,563	3,595	3,070	525	31.7	39.8
16 to 19 years	3,812	827	1,205	1,780	1,541	239	29.4	39.6
16 to 17 years	1,547	440	685	422	379	43	24.4	38.4
18 to 19 years	2,264	387	521	1,356	1,160	196	32.8	39.9
20 years and over	31,867	1,754	5,710	24,403	19,900	4,503	35.8	40.5
20 to 24 years	6,044	516	811	4,717	3,983	734	36.1	40.0
25 years and over	25,823	1,238	4,899	19,686	15,919	3,767	35.7	40.6
25 to 44 years	16,281	773	2,739	12,769	10,294	2,475	36.2	40.5
45 to 64 years	8,618	413	1,642	6,563	5,354	1,209	35.8	40.7
65 years and over	923	52	517	354	270	84	26.7	43.3
RACE								
White	75,954	4,273	8,775	62,906	43,606	19,300	39.0	42.8
Males	44,905	2,137	2,443	40,325	25,335	14,990	41.8	44.1
Females	31,050	2,135	6,332	22,583	18,273	4,310	35.0	40.5
Black and other	9,743	852	832	8,059	6,652	1,407	37.6	41.1
Males	5,113	405	249	4,459	3,484	975	39.5	42.1
Females	4,629	445	583	3,601	3,168	433	35.7	39.9
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	32,590	894	1,036	30,660	18,917	11,743	43.0	44.4
Widowed, divorced, or separated	4,333	218	191	3,924	2,550	1,374	41.7	43.8
Single (never married)	13,095	1,432	1,465	10,198	7,352	2,846	37.7	42.5
Females, 16 years and over:								
Married, spouse present	18,360	859	4,199	13,302	11,044	2,258	34.6	40.2
Widowed, divorced, or separated	7,017	435	861	5,721	4,469	1,252	37.4	41.2
Single (never married)	10,302	1,287	1,855	7,160	5,927	1,233	34.5	40.3

HOUSEHOLD DATA

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

(Numbers in thousands)

Occupation and sex	July 1981								
	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	86,289	5,177	9,706	71,406	50,504	8,479	12,423	38.8	42.7
White-collar workers	45,230	1,598	5,320	38,312	26,584	4,233	7,495	39.4	42.8
Professional and technical	12,229	368	1,188	10,673	7,332	1,167	2,174	40.0	42.9
Managers and administrators, except farm	10,567	140	469	9,958	5,181	1,320	3,457	44.9	46.3
Sales workers	5,785	394	1,203	4,188	2,599	538	1,051	37.1	43.6
Clerical workers	16,650	696	2,460	13,494	11,473	1,208	813	36.4	39.9
Blue-collar workers	28,861	1,961	1,473	25,427	18,081	3,449	3,897	40.0	42.6
Craft and kindred workers	11,789	569	370	10,850	7,356	1,588	1,906	41.3	43.0
Operatives, except transport	9,288	555	399	8,334	6,421	1,041	872	39.6	41.5
Transport equipment operatives	2,997	192	121	2,684	1,576	410	698	43.1	45.7
Nonfarm laborers	4,788	644	583	3,561	2,729	411	421	35.9	41.6
Service workers	12,198	1,618	2,913	7,667	5,839	797	1,031	33.9	42.1
Private household	949	181	429	339	223	26	90	25.7	45.0
Other service workers	11,249	1,437	2,484	7,328	5,616	772	940	34.6	41.9
Males, 16 years and over	50,443	2,587	2,735	45,121	28,994	6,035	10,092	41.5	44.0
White-collar workers	21,844	516	1,057	20,271	11,827	2,563	5,881	43.3	45.0
Craft and kindred workers	7,560	163	373	7,024	4,497	775	1,752	42.4	44.1
Managers and administrators, except farm	7,704	94	171	7,439	3,530	975	2,934	46.3	47.3
Sales workers	3,225	111	259	2,855	1,561	414	880	42.4	45.2
Clerical workers	3,354	148	253	2,953	2,239	399	315	39.1	41.5
Blue-collar workers	23,853	1,524	1,024	21,305	14,659	3,035	3,611	40.7	43.1
Craft and kindred workers	11,099	526	295	10,278	6,923	1,522	1,833	41.5	43.1
Operatives, except transport	5,652	237	166	5,249	3,800	729	720	41.0	42.5
Transport equipment operatives	2,805	173	89	2,543	1,478	399	666	43.5	45.9
Nonfarm laborers	4,297	590	475	3,232	2,454	385	393	36.1	41.8
Service workers	4,746	547	654	3,545	2,508	437	600	37.7	43.3
Private household	34	2	14	18	9	3	6	33.7	47.6
Other service workers	4,711	545	640	3,526	2,498	434	594	37.7	43.2
Females, 16 years and over	35,847	2,591	6,970	26,286	21,510	2,446	2,330	35.1	40.4
White-collar workers	23,386	1,082	4,262	18,042	14,758	1,671	1,613	35.8	40.4
Professional and technical	4,668	206	815	3,647	2,833	392	422	36.0	40.8
Managers and administrators, except farm	2,863	46	298	2,519	1,651	346	522	41.0	43.6
Sales workers	2,559	282	944	1,333	1,038	124	171	30.4	40.4
Clerical workers	13,295	548	2,206	10,541	9,234	809	498	35.7	39.5
Blue-collar workers	5,008	437	449	4,122	3,422	415	285	37.0	40.1
Craft and kindred workers	690	45	75	570	431	66	73	38.0	41.2
Operatives, except transport	3,636	318	233	3,085	2,620	312	153	37.3	39.8
Transport equipment operatives	192	18	33	141	99	11	31	36.0	42.2
Nonfarm laborers	490	55	108	327	273	27	27	33.6	40.1
Service workers	7,453	1,072	2,259	4,122	3,330	360	432	31.6	41.0
Private household	915	179	415	321	213	23	85	25.4	44.8
Other service workers	6,538	892	1,843	3,803	3,118	338	347	32.5	40.7

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

[Numbers in thousands]

Employment status	July 1981								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,251	3,688	3,562	6,004	3,062	2,941	1,247	626	621
Civilian labor force	1,996	1,186	810	1,763	1,064	699	234	122	111
Employed	1,662	970	692	1,501	888	612	161	82	80
Agriculture	278	217	61	261	205	57	16	12	4
Nonagricultural industries	1,384	754	631	1,239	684	555	145	70	75
Unemployed	334	216	119	262	175	87	72	41	32
Unemployment rate	16.7	18.2	14.7	14.9	16.5	12.5	30.8	33.6	28.8
Not in labor force	5,254	2,502	2,752	4,241	1,999	2,242	1,013	504	510
Keeping house	280	25	255	213	14	198	67	11	56
Going to school	382	216	167	262	157	106	120	59	61
Unable to work	10	8	2	2	1	1	8	7	1
All other reasons	4,583	2,254	2,329	3,765	1,827	1,938	818	427	392

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

Class of worker and occupation	July 1981					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,662	970	692	100.0	100.0	100.0
Nonagricultural industries	1,384	754	631	83.2	77.7	91.2
Wage and salary workers	1,246	654	592	74.9	67.4	85.5
Private household workers	445	157	288	26.8	16.2	41.6
Government workers	134	74	60	8.1	7.6	8.7
Other wage and salary workers	667	423	244	40.1	43.6	35.3
Self-employed workers	90	65	25	5.4	6.7	3.6
Unpaid family workers	49	35	14	2.9	3.6	2.0
Agriculture	278	217	61	16.7	22.3	8.8
Wage and salary workers	186	140	46	11.2	14.4	6.6
Self-employed workers	37	33	4	2.2	3.4	.6
Unpaid family workers	55	44	11	3.3	4.5	1.6
OCCUPATION						
Total	1,662	970	692	100.0	100.0	100.0
White collar workers	382	230	152	23.0	23.7	21.9
Professional and technical	25	14	11	1.5	1.4	1.6
Managers and administrators, except farm	7	7	--	.4	.7	--
Sales workers	247	173	74	14.9	17.8	10.7
Clerical workers	104	36	68	6.3	3.7	9.8
Blue collar workers	442	395	47	26.6	40.7	6.8
Craft and kindred workers	32	26	6	1.9	2.7	.9
Operatives, except transport	54	47	7	3.2	4.8	1.0
Transport equipment operatives	9	6	3	.5	.6	.4
Nonfarm laborers	347	316	32	20.9	32.5	4.6
Service workers	610	173	437	36.7	17.8	63.1
Private household workers	304	20	284	18.3	2.1	41.0
Other service workers	306	153	153	18.4	15.8	22.1
Farm workers	228	173	55	13.7	17.8	7.9
Farmers and farm managers	6	6	--	.4	.6	--
Farm laborers and supervisors	222	167	55	13.3	17.2	7.9

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Numbers in thousands]

Employment status, sex, and age	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
TOTAL													
Total noninstitutional population ¹	166,391	166,578	166,789	167,005	167,201	167,396	167,585	167,747	167,902	168,071	168,272	168,480	168,685
Armed Forces ¹	2,099	2,114	2,121	2,121	2,119	2,124	2,125	2,121	2,128	2,129	2,127	2,131	2,139
Civilian noninstitutional population ¹	164,293	164,464	164,667	164,884	165,082	165,272	165,460	165,627	165,774	165,941	166,145	166,349	166,546
Civilian labor force	105,020	104,945	104,980	105,167	105,285	105,067	105,543	105,681	106,177	106,722	107,406	106,176	106,464
Percent of civilian population	63.9	63.8	63.8	63.8	63.8	63.6	63.8	63.8	64.0	64.3	64.6	63.8	63.9
Employed	96,999	97,003	97,180	97,206	97,339	97,282	97,696	97,927	98,412	98,976	99,235	98,392	98,962
Percent of total population	58.3	58.2	58.3	58.2	58.2	58.1	58.3	58.4	58.6	58.9	59.0	58.4	58.7
Agriculture	3,267	3,210	3,399	3,319	3,340	3,394	3,403	3,281	3,276	3,463	3,353	3,265	3,258
Nonagricultural industries	93,732	93,793	93,781	93,887	93,999	93,888	94,294	94,646	95,136	95,513	95,882	95,127	95,704
Unemployed	8,021	7,942	7,800	7,961	7,946	7,785	7,847	7,754	7,764	7,746	8,171	7,784	7,502
Unemployment rate	7.6	7.6	7.4	7.6	7.5	7.4	7.4	7.3	7.3	7.3	7.6	7.3	7.0
Not in labor force	59,273	59,519	59,687	59,717	59,797	60,205	59,917	59,946	59,598	59,219	58,739	60,173	60,082
Males, 20 years and over													
Total noninstitutional population ¹	71,326	71,430	71,544	71,661	71,768	71,875	71,980	72,070	72,155	72,249	72,359	72,474	72,586
Civilian noninstitutional population ¹	69,064	69,756	69,864	69,987	70,095	70,198	70,320	70,413	70,481	70,574	70,687	70,788	70,894
Civilian labor force	55,444	55,403	55,475	55,495	55,539	55,470	55,443	55,445	55,816	56,013	56,395	55,876	55,957
Percent of civilian population	79.4	79.4	79.4	79.3	79.2	79.0	78.8	78.7	79.2	79.4	79.8	78.9	78.9
Employed	51,714	51,791	51,823	51,963	52,007	52,045	52,091	52,134	52,511	52,750	52,849	52,451	52,811
Percent of total population	72.5	72.5	72.4	72.5	72.5	72.4	72.4	72.3	72.8	73.0	73.0	72.4	72.8
Agriculture	2,306	2,301	2,389	2,351	2,372	2,331	2,378	2,289	2,296	2,409	2,349	2,320	2,329
Nonagricultural industries	49,408	49,490	49,434	49,612	49,635	49,714	49,713	49,844	50,215	50,342	50,500	50,131	50,482
Unemployed	3,630	3,612	3,652	3,532	3,532	3,425	3,352	3,312	3,305	3,262	3,546	3,425	3,147
Unemployment rate	6.6	6.5	6.6	6.4	6.4	6.2	6.0	6.0	5.9	5.8	6.3	6.1	5.6
Not in labor force	14,320	14,353	14,389	14,492	14,556	14,728	14,877	14,968	14,665	14,561	14,292	14,912	14,937
Females, 20 years and over													
Total noninstitutional population ¹	78,493	78,607	78,732	78,860	78,979	79,097	79,212	79,315	79,415	79,522	79,642	79,766	79,889
Civilian noninstitutional population ¹	78,360	78,473	78,598	78,723	78,842	78,959	79,071	79,175	79,271	79,377	79,498	79,617	79,739
Civilian labor force	40,383	40,523	40,317	40,486	40,629	40,570	40,942	41,090	41,293	41,481	41,852	41,743	41,879
Percent of civilian population	51.5	51.6	51.3	51.4	51.5	51.4	51.8	51.9	52.1	52.3	52.6	52.4	52.5
Employed	37,728	37,890	37,804	37,754	37,909	37,820	38,191	38,410	38,567	38,760	39,014	39,011	39,082
Percent of total population	48.1	48.2	48.0	47.9	48.0	47.8	48.2	48.4	48.6	48.7	49.0	48.9	48.9
Agriculture	564	555	592	576	574	665	621	615	606	603	583	562	575
Nonagricultural industries	37,164	37,335	37,212	37,178	37,335	37,155	37,570	37,794	37,961	38,157	38,431	38,449	38,507
Unemployed	2,655	2,633	2,513	2,732	2,720	2,750	2,750	2,680	2,725	2,721	2,838	2,731	2,797
Unemployment rate	6.6	6.5	6.2	6.7	6.7	6.8	6.7	6.5	6.6	6.6	6.8	6.5	6.7
Not in labor force	37,977	37,950	38,281	38,237	38,213	38,389	38,129	38,085	37,978	37,896	37,646	37,874	37,860
Both sexes, 18-19 years													
Total noninstitutional population ¹	16,572	16,541	16,512	16,484	16,454	16,424	16,393	16,362	16,331	16,300	16,270	16,240	16,210
Civilian noninstitutional population ¹	16,468	16,235	16,205	16,174	16,145	16,114	16,069	16,039	16,022	15,991	15,961	15,944	15,913
Civilian labor force	9,019	9,019	9,188	9,186	9,117	9,027	9,158	9,146	9,068	9,228	9,159	8,558	8,628
Percent of civilian population	57.1	55.5	56.7	56.8	56.5	56.0	57.0	57.0	56.6	57.7	57.4	53.7	54.2
Employed	7,577	7,322	7,553	7,489	7,423	7,417	7,414	7,384	7,334	7,465	7,372	6,930	7,069
Percent of total population	45.6	44.3	45.7	45.4	45.1	45.2	45.2	45.1	44.9	45.8	45.3	42.7	43.6
Agriculture	397	354	418	392	394	398	404	376	374	451	421	383	354
Nonagricultural industries	7,160	6,968	7,135	7,097	7,029	7,019	7,010	7,008	6,960	7,014	6,951	6,547	6,715
Unemployed	1,736	1,697	1,635	1,697	1,694	1,610	1,744	1,762	1,734	1,763	1,787	1,628	1,559
Unemployment rate	18.7	18.8	17.8	18.5	18.6	17.8	19.0	19.3	19.1	19.1	19.5	19.0	18.1
Not in labor force	6,975	7,216	7,017	6,988	7,028	7,087	6,911	6,893	6,954	6,763	6,802	7,386	7,285

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

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Full- and part-time status	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
FULL TIME													
Total, 16 years and over:													
Civilian labor force	89,384	89,345	89,862	89,896	90,043	90,040	90,393	90,239	90,556	90,938	91,763	90,448	91,019
Employed	82,753	82,792	83,346	83,337	83,411	83,491	83,933	83,844	84,149	84,645	85,073	84,126	84,918
Unemployed	6,631	6,553	6,516	6,559	6,632	6,549	6,460	6,396	6,407	6,293	6,690	6,322	6,101
Unemployment rate	7.4	7.3	7.3	7.3	7.4	7.3	7.1	7.1	7.1	6.9	7.3	7.0	6.7
PART TIME													
Total, 16 years and over:													
Civilian labor force	15,716	15,560	15,105	15,284	15,250	15,023	15,166	15,410	15,504	15,805	15,693	15,780	15,446
Employed	14,340	14,211	13,794	13,893	13,938	13,798	13,775	14,005	14,108	14,376	14,171	14,325	14,008
Unemployed	1,376	1,349	1,311	1,391	1,312	1,225	1,390	1,405	1,396	1,429	1,522	1,455	1,439
Unemployment rate	8.8	8.7	8.7	9.1	8.6	8.2	9.2	9.1	9.0	9.0	9.7	9.2	9.3

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

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

(Numbers in thousands)

Race, sex, and age	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
WHITE													
Total, 16 years and over:													
Civilian labor force	92,335	92,288	92,317	92,516	92,562	92,383	92,832	93,035	93,313	93,860	94,506	93,464	93,767
Employed	86,075	86,067	86,307	86,371	86,409	86,377	86,620	86,940	87,291	87,791	88,083	87,500	87,979
Unemployed	6,260	6,221	6,010	6,145	6,153	6,006	6,213	6,095	6,022	6,069	6,422	5,964	5,787
Unemployment rate	6.8	6.7	6.5	6.6	6.6	6.5	6.7	6.6	6.5	6.5	6.8	6.4	6.2
Males, 20 years and over:													
Civilian labor force	49,321	49,356	49,415	49,461	49,481	49,449	49,426	49,420	49,695	49,947	50,227	49,878	49,952
Employed	46,442	46,500	46,556	46,660	46,684	46,728	46,704	46,757	47,030	47,330	47,427	47,217	47,501
Unemployed	2,879	2,856	2,859	2,801	2,797	2,721	2,722	2,664	2,664	2,618	2,799	2,661	2,451
Unemployment rate	5.8	5.8	5.8	5.7	5.7	5.5	5.5	5.4	5.4	5.2	5.6	5.3	4.9
Females, 20 years and over:													
Civilian labor force	34,749	34,846	34,765	34,883	34,972	34,910	35,313	35,423	35,529	35,727	36,149	35,980	36,106
Employed	32,732	32,823	32,841	32,845	32,944	32,858	33,180	33,421	33,539	33,679	33,987	33,935	34,011
Unemployed	2,017	2,023	1,924	2,038	2,028	2,052	2,133	2,002	1,990	2,048	2,162	2,045	2,095
Unemployment rate	5.8	5.8	5.5	5.8	5.8	5.9	6.0	5.7	5.6	5.7	6.0	5.7	5.8
Both sexes, 16 to 19 years:													
Civilian labor force	8,265	8,086	8,137	8,172	8,109	8,024	8,093	8,191	8,089	8,186	8,130	7,606	7,709
Employed	6,901	6,744	6,910	6,866	6,781	6,791	6,735	6,762	6,721	6,782	6,669	6,348	6,467
Unemployed	1,364	1,342	1,227	1,306	1,328	1,233	1,358	1,429	1,368	1,404	1,461	1,258	1,242
Unemployment rate	16.5	16.6	15.1	16.0	16.4	15.4	16.8	17.4	16.9	17.2	18.0	16.5	16.1
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	12,661	12,630	12,677	12,686	12,706	12,668	12,684	12,598	12,765	12,899	12,895	12,741	12,658
Employed	10,902	10,902	10,894	10,884	10,922	10,895	11,051	10,942	11,020	11,193	11,138	10,928	10,939
Unemployed	1,759	1,728	1,783	1,802	1,784	1,773	1,634	1,655	1,745	1,706	1,757	1,813	1,719
Unemployment rate	13.9	13.7	14.1	14.2	14.0	14.0	12.9	13.1	13.7	13.2	13.6	14.2	13.6
Males, 20 years and over:													
Civilian labor force	6,029	6,049	6,064	6,030	6,042	6,015	5,996	6,007	6,072	6,081	6,153	6,046	6,028
Employed	5,275	5,291	5,266	5,300	5,315	5,315	5,367	5,355	5,414	5,437	5,425	5,288	5,326
Unemployed	754	758	798	730	727	700	628	651	658	644	727	758	702
Unemployment rate	12.5	12.5	13.2	12.1	12.0	11.6	10.5	10.8	10.8	10.6	11.8	12.5	11.6
Females, 20 years and over:													
Civilian labor force	5,600	5,629	5,568	5,648	5,652	5,654	5,638	5,645	5,708	5,764	5,724	5,759	5,729
Employed	4,966	5,017	4,978	4,953	4,965	4,956	5,016	4,976	4,988	5,083	5,036	5,065	5,040
Unemployed	634	612	590	695	687	698	621	669	720	681	688	694	689
Unemployment rate	11.3	10.9	10.6	12.3	12.2	12.3	11.0	11.9	12.6	11.8	12.0	12.0	12.0
Both sexes, 16 to 19 years:													
Civilian labor force	1,032	952	1,045	1,008	1,012	999	1,051	946	985	1,054	1,018	936	901
Employed	661	594	650	631	642	624	667	611	618	673	676	575	573
Unemployed	371	358	395	377	370	375	384	335	367	381	342	361	328
Unemployment rate	35.9	37.6	37.8	37.4	36.6	37.5	36.5	35.4	37.3	36.1	33.6	38.6	36.4

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Category	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTIC													
Total (all civilian workers)	7.6	7.6	7.4	7.6	7.5	7.4	7.4	7.3	7.3	7.3	7.6	7.3	7.0
Males, 20 years and over	6.6	6.5	6.6	6.4	6.4	6.2	6.0	6.0	5.9	5.8	6.3	6.1	5.6
Females, 20 years and over	6.6	6.5	6.2	6.7	6.7	6.8	6.7	6.5	6.6	6.6	6.8	6.5	6.7
Both sexes, 16-19 years	18.7	18.8	17.8	18.5	18.6	17.8	19.0	19.3	19.1	19.1	19.5	19.0	18.1
White	6.8	6.7	6.5	6.6	6.6	6.5	6.7	6.6	6.5	6.5	6.8	6.4	6.2
Black and other	13.9	13.7	14.1	14.2	14.0	14.0	12.9	13.1	13.7	13.2	13.6	14.2	13.6
Married men, spouse present	4.9	4.8	4.7	4.6	4.4	4.3	4.2	4.1	4.1	3.8	4.1	4.2	3.9
Married women, spouse present	6.1	6.0	5.7	6.0	5.9	5.8	6.2	5.8	6.0	5.9	5.9	5.6	5.6
Women who maintain families	8.8	9.0	9.0	10.2	9.9	10.4	10.5	9.6	9.4	9.8	10.3	10.6	11.5
Full-time workers	7.4	7.3	7.3	7.3	7.4	7.3	7.1	7.1	7.1	6.9	7.3	7.0	6.7
Part-time workers	8.8	8.7	8.7	9.1	8.6	8.2	9.2	9.1	9.0	9.0	9.7	9.2	9.3
Unemployed 15 weeks and over ¹	1.8	2.0	2.2	2.2	2.2	2.3	2.2	2.1	2.1	2.0	2.0	2.2	2.0
Labor force time lost ²	8.4	8.3	8.2	8.4	8.3	8.2	8.2	8.1	8.1	8.2	8.6	8.0	7.9
OCCUPATION													
White-collar workers	3.7	3.7	3.8	3.9	3.9	4.0	3.9	3.7	3.9	4.0	4.1	3.8	4.1
Professional and technical	2.4	2.4	2.5	2.6	2.5	2.6	2.8	2.6	2.7	3.2	2.9	2.8	2.8
Managers and administrators, except farm	2.6	2.5	2.4	2.5	2.4	2.5	2.4	2.4	2.6	2.4	2.7	2.8	2.7
Sales workers	4.2	4.2	4.3	4.6	4.8	4.7	4.4	4.0	3.8	4.0	4.6	4.1	5.1
Clerical workers	5.4	5.4	5.4	5.6	5.6	5.8	5.7	5.3	5.9	5.6	5.6	5.3	5.7
Blue-collar workers	11.3	11.1	10.8	10.8	10.7	10.5	10.2	10.1	9.8	9.6	10.0	9.8	9.4
Craft and kindred workers	7.2	7.6	7.4	7.1	7.1	7.1	6.8	7.2	7.1	6.8	7.7	7.2	6.7
Operatives, except transport	14.4	13.3	13.0	13.2	13.0	12.9	12.1	11.9	11.3	11.5	11.9	11.0	11.1
Transport equipment operatives	10.0	9.8	10.4	10.6	10.6	8.8	9.1	8.3	9.3	8.1	8.2	8.4	6.9
Nonfarm laborers	15.8	16.1	15.2	15.3	15.0	14.8	15.0	14.9	14.1	13.8	13.1	14.8	14.2
Service workers	8.3	8.5	8.1	8.3	8.3	7.8	8.0	8.7	8.1	8.5	9.4	9.0	8.0
Farm workers	4.6	5.5	4.3	4.4	4.0	4.0	5.0	4.7	5.1	3.7	5.4	6.0	4.5
INDUSTRY													
Nonagricultural private wage and salary workers ³	8.0	8.0	7.8	7.8	7.8	7.7	7.5	7.5	7.3	7.2	7.8	7.4	7.2
Construction	15.8	17.3	15.9	14.6	14.8	13.8	13.3	13.2	14.7	14.4	16.3	16.6	15.0
Manufacturing	9.8	9.3	9.2	9.2	8.9	8.8	8.4	8.4	8.0	7.4	7.9	7.6	7.3
Durable goods	10.7	10.1	10.0	9.5	9.0	9.0	8.3	8.5	7.9	7.3	7.3	7.4	7.3
Nondurable goods	8.5	8.0	7.9	8.9	8.6	8.5	8.5	8.2	8.3	7.6	8.9	7.8	7.3
Transportation	5.6	5.6	5.3	5.3	4.9	4.9	5.8	5.5	6.4	5.7	5.9	4.7	4.0
Wholesale and retail trade	7.6	7.7	7.7	7.8	8.2	8.3	7.6	7.6	7.3	7.3	8.4	7.5	7.9
Finance and service industries	5.6	5.5	5.4	5.6	5.5	5.5	5.8	6.0	5.6	5.9	5.9	5.8	5.6
Government workers	4.1	4.0	4.1	4.4	4.2	4.1	4.4	4.3	4.6	4.9	4.8	4.5	4.5
Agricultural wage and salary workers	10.8	13.2	10.7	11.1	10.1	10.6	11.5	12.1	11.9	9.1	11.1	13.1	10.3

¹ Unemployment as a percent of the civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

[Numbers in thousands]

Weeks of unemployment	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
DURATION													
Less than 5 weeks	3,317	3,255	3,042	3,186	3,108	3,115	3,259	3,203	3,209	3,074	3,369	3,172	3,187
5 to 14 weeks	2,649	2,533	2,586	2,500	2,524	2,217	2,264	2,324	2,356	2,462	2,581	2,360	2,196
15 weeks and over	1,935	2,150	2,295	2,292	2,329	2,378	2,358	2,250	2,192	2,105	2,168	2,315	2,100
15 to 26 weeks	1,093	1,239	1,366	1,256	1,213	1,231	1,079	992	1,013	1,001	1,022	1,205	1,068
27 weeks and over	842	911	929	1,036	1,116	1,147	1,279	1,257	1,179	1,104	1,146	1,110	1,032
Average (mean) duration, in weeks	11.8	12.5	13.0	13.3	13.6	13.5	14.4	14.4	14.0	13.7	13.2	14.2	13.9
Median duration, in weeks	7.1	7.4	8.0	7.5	7.7	7.3	7.4	6.9	7.0	7.7	7.1	6.7	7.0
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	42.0	41.0	38.4	39.9	39.0	40.4	41.3	41.2	41.4	40.2	41.5	40.4	42.6
5 to 14 weeks	33.5	31.9	32.6	31.3	31.7	28.8	28.7	29.9	30.4	32.2	31.8	30.1	29.3
15 weeks and over	24.5	27.1	29.0	28.7	29.3	30.8	29.9	28.9	28.3	27.6	26.7	29.5	28.1
15 to 26 weeks	13.8	15.6	17.2	15.7	15.2	16.0	13.7	12.8	13.1	13.1	12.6	15.4	14.3
27 weeks and over	10.7	11.5	11.7	13.0	14.0	14.9	16.2	16.2	15.2	14.5	14.1	14.1	13.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-38. Unemployment rates by sex and age, seasonally adjusted

Sex and age	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over.....	7.6	7.6	7.4	7.6	7.5	7.4	7.4	7.3	7.3	7.3	7.6	7.3	7.0
16 to 19 years	18.7	18.8	17.8	18.5	18.6	17.8	19.0	19.3	19.1	19.1	19.5	19.0	18.1
16 to 17 years	20.5	22.1	20.1	20.9	21.4	19.9	21.0	21.4	21.3	22.0	21.6	22.6	19.3
18 to 19 years	17.4	16.5	16.0	16.7	16.5	16.4	17.5	17.9	17.7	17.2	18.2	17.3	17.7
20 to 24 years	12.1	12.0	12.0	12.3	12.1	11.7	11.9	11.8	11.7	12.1	12.9	12.1	11.3
25 years and over	5.5	5.4	5.4	5.4	5.4	5.3	5.3	5.1	5.2	5.0	5.3	5.2	5.1
25 to 54 years	5.9	5.9	5.9	5.9	5.9	5.8	5.7	5.5	5.5	5.4	5.6	5.6	5.4
55 years and over	3.4	3.4	3.4	3.4	3.3	3.5	3.5	3.6	3.7	3.3	3.3	3.4	3.5
Males, 16 years and over.....	7.6	7.6	7.6	7.4	7.4	7.2	7.2	7.1	7.0	6.9	7.4	7.1	6.6
16 to 19 years	19.5	19.9	18.9	19.8	19.8	19.0	20.3	20.1	19.5	19.3	20.2	19.8	18.4
16 to 17 years	20.9	23.7	21.2	21.8	22.3	20.5	23.0	22.1	21.1	22.7	22.7	24.4	19.8
18 to 19 years	18.4	17.1	16.9	18.1	17.8	17.8	18.5	18.7	18.6	17.0	18.3	18.1	17.8
20 to 24 years	13.2	13.6	13.5	13.8	13.2	12.5	12.8	12.7	13.0	13.2	14.2	12.8	11.3
25 years and over	5.4	5.3	5.4	5.1	5.1	4.9	4.9	4.8	4.7	4.6	4.8	5.0	4.7
25 to 54 years	5.8	5.7	6.0	5.6	5.6	5.4	5.2	5.2	5.1	4.9	5.1	5.3	4.9
55 years and over	3.6	3.6	3.5	3.3	3.3	3.3	3.4	3.4	3.2	3.1	3.4	3.5	3.4
Females, 16 years and over.....	7.7	7.6	7.2	7.7	7.7	7.7	7.7	7.6	7.7	7.7	7.9	7.6	7.7
16 to 19 years	17.7	17.6	16.6	17.0	17.2	16.5	17.5	18.4	18.7	18.9	18.7	18.2	17.7
16 to 17 years	20.1	20.2	18.8	19.8	20.3	19.3	18.7	20.5	21.6	21.1	20.4	20.6	18.7
18 to 19 years	16.2	15.9	15.1	15.1	15.1	14.8	16.4	17.0	16.5	17.4	18.2	16.4	17.5
20 to 24 years	10.9	10.2	10.2	10.6	10.8	10.8	10.8	10.8	10.1	10.9	11.4	11.2	11.3
25 years and over	5.7	5.7	5.4	5.9	5.8	5.9	5.8	5.6	5.9	5.6	5.9	5.6	5.7
25 to 54 years	6.1	6.2	5.9	6.4	6.2	6.3	6.3	5.9	6.2	6.0	6.4	6.0	6.1
55 years and over	3.1	3.1	3.3	3.4	3.4	3.9	3.6	3.9	4.5	3.7	3.3	3.3	3.7

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

(Numbers in thousands)

Reason for unemployment	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	4,364	4,319	4,387	4,240	4,229	4,226	3,847	3,896	3,846	3,819	4,084	4,219	3,691
On layoff	1,832	1,699	1,744	1,692	1,453	1,470	1,258	1,267	1,299	1,280	1,368	1,367	1,178
Other job losers	2,532	2,620	2,643	2,548	2,776	2,756	2,590	2,629	2,547	2,539	2,715	2,852	2,513
Job leavers	866	890	855	870	897	813	907	884	863	854	1,009	863	898
Reentrants	1,868	1,883	1,844	2,013	1,896	1,869	2,039	1,970	2,040	2,017	2,126	1,955	2,022
New entrants	893	870	862	880	890	868	1,000	928	986	987	938	956	873
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	54.6	54.2	55.2	53.0	53.5	54.3	49.4	50.7	49.7	49.7	50.1	52.8	49.3
On layoff	22.9	21.3	21.9	21.1	18.4	18.9	16.1	16.5	16.8	16.7	16.8	17.1	15.7
Other job losers	31.7	32.9	33.3	31.8	35.1	35.4	33.2	34.2	32.9	33.1	33.3	35.7	33.6
Job leavers	10.8	11.2	10.8	10.9	11.3	10.5	11.6	11.5	11.2	11.1	12.4	10.8	12.0
Reentrants	23.4	23.6	23.2	25.2	24.0	24.0	26.2	25.7	26.4	26.3	26.1	24.5	27.0
New entrants	11.2	10.9	10.8	11.0	11.2	11.2	12.8	12.1	12.7	12.9	11.5	12.0	11.7
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	4.2	4.1	4.2	4.0	4.0	4.0	3.6	3.7	3.6	3.6	3.8	4.0	3.5
On layoff .....	.8	.8	.8	.8	.9	.8	.9	.8	.8	.8	.9	.8	.8
Other job losers	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9	1.9	1.9	2.0	1.8	1.9
Job leavers .....	.9	.8	.8	.8	.8	.8	.9	.9	.9	.9	.9	.9	.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	96,999	97,003	97,180	97,206	97,339	97,282	97,696	97,927	98,412	98,976	99,235	98,392	98,962
16 to 19 years	7,557	7,322	7,553	7,489	7,423	7,417	7,414	7,384	7,334	7,465	7,372	6,930	7,069
16 to 17 years	3,056	2,837	3,003	2,963	2,916	2,906	2,937	2,927	2,908	2,964	2,893	2,616	2,746
18 to 19 years	4,501	4,477	4,598	4,535	4,525	4,506	4,467	4,441	4,411	4,487	4,464	4,281	4,287
20 to 24 years	13,547	13,541	13,543	13,594	13,593	13,633	13,725	13,661	13,684	13,711	13,704	13,576	13,815
25 years and over	75,965	76,119	76,096	76,150	76,231	76,242	76,611	76,847	77,367	77,735	78,151	77,980	78,120
25 to 54 years	61,594	61,729	61,845	61,916	62,110	62,142	62,482	62,676	63,019	63,423	63,701	63,611	63,803
55 years and over	14,531	14,415	14,263	14,216	14,159	14,095	14,108	14,186	14,314	14,360	14,447	14,319	14,312
Males, 16 years and over	55,678	55,589	55,754	55,881	55,897	55,920	56,012	56,045	56,383	56,688	56,718	56,026	56,494
16 to 19 years	3,964	3,798	3,931	3,918	3,890	3,875	3,921	3,912	3,872	3,937	3,869	3,575	3,684
16 to 17 years	1,640	1,489	1,579	1,588	1,564	1,555	1,562	1,581	1,545	1,551	1,500	1,354	1,443
18 to 19 years	2,338	2,305	2,396	2,339	2,330	2,317	2,347	2,323	2,321	2,373	2,367	2,203	2,226
20 to 24 years	7,185	7,149	7,175	7,174	7,190	7,245	7,253	7,223	7,239	7,238	7,239	7,179	7,392
25 years and over	44,555	44,671	44,649	44,803	44,791	44,806	44,862	44,896	45,266	45,464	45,563	45,309	45,425
25 to 54 years	35,620	35,894	35,977	36,076	36,128	36,131	36,204	36,206	36,488	36,707	36,840	36,676	36,773
55 years and over	8,732	8,768	8,691	8,677	8,670	8,682	8,645	8,693	8,758	8,780	8,760	8,634	8,661
Females, 16 years and over	41,521	41,414	41,426	41,325	41,442	41,362	41,684	41,882	42,029	42,286	42,517	42,366	42,467
16 to 19 years	3,593	3,524	3,622	3,571	3,533	3,542	3,493	3,472	3,462	3,528	3,503	3,355	3,385
16 to 17 years	1,416	1,348	1,424	1,375	1,352	1,351	1,375	1,346	1,363	1,413	1,393	1,262	1,303
18 to 19 years	2,172	2,172	2,202	2,196	2,195	2,189	2,120	2,118	2,090	2,114	2,097	2,078	2,061
20 to 24 years	6,362	6,392	6,368	6,420	6,403	6,388	6,472	6,438	6,444	6,473	6,464	6,397	6,424
25 years and over	31,410	31,448	31,447	31,347	31,440	31,436	31,749	31,950	32,101	32,271	32,588	32,671	32,695
25 to 54 years	25,774	25,835	25,868	25,840	25,982	26,011	26,278	26,471	26,532	26,715	26,861	26,934	27,030
55 years and over	5,599	5,647	5,572	5,539	5,489	5,413	5,463	5,493	5,556	5,580	5,687	5,686	5,651

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

[In thousands]

Sex and age	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	8,021	7,942	7,800	7,961	7,946	7,785	7,847	7,754	7,764	7,746	8,171	7,784	7,502
16 to 19 years	1,736	1,697	1,635	1,697	1,694	1,610	1,744	1,762	1,734	1,763	1,787	1,628	1,559
16 to 17 years	790	804	755	781	794	723	783	796	789	834	798	766	656
18 to 19 years	949	886	878	909	893	881	949	967	946	929	995	894	919
20 to 24 years	1,673	1,854	1,843	1,913	1,873	1,809	1,845	1,831	1,810	1,890	2,032	1,866	1,759
25 years and over	4,435	4,385	4,344	4,368	4,342	4,302	4,269	4,171	4,233	4,101	4,343	4,313	4,203
25 to 54 years	3,495	3,865	3,905	3,885	3,874	3,835	3,766	3,647	3,683	3,587	3,810	3,768	3,642
55 years and over	509	512	507	494	489	512	507	528	552	496	499	505	523
Males, 16 years and over	4,593	4,558	4,566	4,498	4,491	4,334	4,353	4,293	4,245	4,205	4,527	4,309	3,979
16 to 19 years	963	946	914	966	959	909	1,001	981	940	943	981	884	832
16 to 17 years	433	463	425	442	450	400	466	449	414	455	440	438	356
18 to 19 years	528	475	487	518	504	501	533	534	532	485	529	486	481
20 to 24 years	1,095	1,129	1,117	1,150	1,095	1,032	1,061	1,052	1,085	1,097	1,198	1,056	940
25 years and over	2,551	2,497	2,557	2,398	2,406	2,324	2,306	2,283	2,235	2,175	2,312	2,383	2,220
25 to 54 years	2,115	2,159	2,292	2,121	2,149	2,073	1,992	1,977	1,942	1,874	1,962	2,039	1,898
55 years and over	529	332	319	300	293	292	306	303	293	280	306	313	306
Females, 16 years and over	3,428	3,384	3,234	3,463	3,455	3,451	3,493	3,461	3,519	3,541	3,644	3,475	3,524
16 to 19 years	773	751	721	731	735	701	743	781	794	820	806	744	727
16 to 17 years	571	541	530	539	544	523	517	547	575	579	558	528	500
18 to 19 years	421	411	391	391	389	380	416	433	414	444	466	408	438
20 to 24 years	778	725	726	763	778	777	785	779	726	793	833	810	818
25 years and over	1,884	1,888	1,787	1,970	1,936	1,978	1,962	1,887	1,998	1,926	2,031	1,930	1,963
25 to 54 years	1,680	1,706	1,613	1,764	1,725	1,762	1,774	1,670	1,741	1,712	1,849	1,730	1,744
55 years and over	180	180	188	194	196	220	201	225	259	216	193	191	217

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Category	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTIC													
Total, 16 years and over	96,999	97,003	97,180	97,206	97,339	97,282	97,696	97,927	98,412	98,976	99,235	98,392	98,962
Married men, spouse present	38,049	37,987	38,027	38,142	38,167	38,231	38,182	38,113	38,365	38,510	38,498	38,216	38,283
Married women, spouse present	23,118	23,126	23,027	22,993	23,065	23,063	23,352	23,356	23,513	23,529	23,831	23,763	23,820
OCCUPATION													
White-collar workers	51,023	51,307	51,074	51,101	51,148	51,065	51,594	51,698	51,746	51,801	51,967	51,959	51,857
Professional and technical	15,717	15,751	15,540	15,780	15,863	15,810	15,965	15,813	15,827	15,754	15,688	16,057	15,966
Managers and administrators, except farm	10,999	11,109	11,007	10,979	11,016	11,009	11,363	11,488	11,565	11,444	11,260	11,174	11,418
Sales workers	6,130	6,140	6,316	6,277	6,155	6,175	6,265	6,271	6,220	6,145	6,461	6,440	6,220
Clerical workers	18,177	18,307	18,211	18,065	18,114	18,071	18,001	18,125	18,135	18,457	18,557	18,288	18,254
Blue-collar workers	30,276	30,232	30,436	30,521	30,550	30,373	30,338	30,446	30,594	31,156	31,373	30,922	31,038
Craft and kindred workers	12,403	12,346	12,490	12,485	12,424	12,337	12,306	12,386	12,605	12,624	12,743	12,482	12,575
Operatives, except transport equipment	10,189	10,147	10,202	10,210	10,247	10,194	10,331	10,390	10,189	10,524	10,609	10,550	10,567
operatives	3,354	3,478	3,434	3,443	3,429	3,402	3,322	3,361	3,363	3,411	3,390	3,425	3,481
Nonfarm laborers	4,330	4,261	4,310	4,383	4,450	4,440	4,380	4,309	4,437	4,596	4,532	4,466	4,415
Service workers	13,017	12,928	12,943	12,891	12,888	12,982	12,946	13,070	13,279	13,255	13,213	12,930	13,284
Farm workers	2,694	2,620	2,757	2,735	2,729	2,804	2,737	2,662	2,679	2,834	2,707	2,648	2,689
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,360	1,282	1,417	1,363	1,417	1,411	1,465	1,336	1,338	1,524	1,464	1,377	1,457
Self-employed workers	1,631	1,640	1,688	1,640	1,612	1,655	1,615	1,610	1,615	1,648	1,644	1,657	1,568
Unpaid family workers	295	280	309	325	324	305	284	325	312	290	231	258	235
Nonagricultural industries:													
Wage and salary workers	86,432	86,490	86,395	86,587	86,643	86,513	87,125	87,236	87,870	88,195	88,877	87,734	88,291
Government	15,718	15,531	15,575	15,597	15,651	15,653	15,738	15,589	15,685	15,628	15,512	15,460	15,349
Private industries	70,714	70,959	70,820	70,990	70,992	70,860	71,387	71,647	72,185	72,567	73,365	72,274	72,942
Private households	1,230	1,196	1,125	1,144	1,148	1,110	1,197	1,176	1,235	1,241	1,164	1,146	1,211
Other industries	69,484	69,763	69,695	69,846	69,844	69,750	70,190	70,471	70,949	71,327	72,201	71,128	71,731
Self-employed workers	6,801	6,881	6,977	7,005	6,943	6,973	6,839	6,923	6,896	7,021	6,761	7,005	6,886
Unpaid family workers	426	403	416	417	405	396	422	371	354	306	338	369	389
PERSONS AT WORK¹													
Nonagricultural industries	87,431	88,195	88,246	88,488	88,694	88,468	89,499	89,441	89,583	89,202	89,870	89,625	90,837
Full-time schedules	70,825	71,526	71,929	72,071	72,265	72,131	72,807	72,945	72,875	72,761	73,375	73,115	74,232
Part-time for economic reasons	4,086	4,143	4,183	4,220	4,176	4,218	4,474	4,145	4,227	4,044	4,143	3,798	4,225
Usually work full-time	1,794	1,709	1,701	1,685	1,620	1,647	1,698	1,622	1,638	1,517	1,630	1,367	1,632
Usually work part-time	2,292	2,434	2,482	2,535	2,556	2,571	2,776	2,523	2,589	2,527	2,513	2,431	2,593
Part time for noneconomic reasons	12,520	12,526	12,134	12,197	12,253	12,119	12,218	12,351	12,481	12,397	12,352	12,713	12,380

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

HOUSEHOLD DATA

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

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	July 1980	July 1981	
VETERANS										
Total, 25 years and over	8,285	8,560	7,915	8,151	7,389	7,749	526	402	6.6	4.9
25 to 29 years	7,280	7,319	7,052	7,076	6,551	6,706	501	370	7.1	5.2
25 to 29 years	1,702	1,478	1,609	1,389	1,409	1,289	200	100	12.4	7.2
30 to 34 years	3,575	3,313	3,485	3,224	3,278	3,075	207	149	5.9	4.6
35 to 39 years	2,003	2,528	1,958	2,463	1,864	2,342	94	121	4.8	4.9
40 years and over	1,005	1,241	863	1,075	838	1,043	25	32	2.9	3.0
NONVETERANS										
Total, 25 to 39 years	15,526	16,387	14,794	15,489	13,840	14,584	954	905	6.4	5.8
25 to 29 years	7,111	7,407	6,753	7,005	6,196	6,538	557	467	8.2	6.7
30 to 34 years	4,603	5,305	4,406	5,030	4,147	4,713	259	317	5.9	6.3
35 to 39 years	3,812	3,675	3,635	3,454	3,497	3,333	138	121	3.8	3.5

NOTE: Vietnam-era veterans are males who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are males 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. Data for 20-to-24-year-old veterans are no longer shown on the table, because the group is rapidly disappearing (into the 25-29 age category) and the numbers remaining are not large enough to warrant their continued publication.

**ESTABLISHMENT DATA
HISTORICAL EMPLOYMENT**

B-1. Employee on nonagricultural payrolls by industry division, 1930 to date

Year and month	Total	Goods-producing					Service-producing								
		Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
Annual averages															
1930.....	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931.....	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932.....	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933.....	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934.....	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935.....	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936.....	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937.....	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938.....	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939.....	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940.....	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941.....	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,251	1,525	3,905	4,660	1,340	3,320
1942.....	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943.....	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,175
1944.....	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,214	1,461	4,145	6,043	2,928	3,116
1945.....	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946.....	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,084	1,675	4,697	5,595	2,254	3,341
1947.....	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,485	1,728	5,025	5,474	1,892	3,582
1948.....	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949.....	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950.....	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951.....	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952.....	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953.....	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954.....	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727
1956.....	52,369	21,104	822	3,039	17,243	31,266	4,244	10,858	3,018	7,840	2,389	6,497	7,278	2,209	5,069
1957.....	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958.....	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959 ¹	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969.....	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437
1970.....	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971.....	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972.....	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973.....	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974.....	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975.....	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976.....	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977.....	82,471	24,346	813	3,851	19,682	58,125	4,713	18,516	4,708	13,808	4,467	15,303	15,127	2,727	12,399
1978.....	86,697	25,585	851	4,229	20,505	61,113	4,923	19,542	4,969	14,573	4,724	16,252	15,672	2,753	12,919
1979.....	89,823	26,461	958	4,463	21,040	63,363	5,136	20,192	5,204	14,989	4,975	17,112	15,947	2,773	13,174
1980.....	90,564	25,718	1,020	4,399	20,300	64,847	5,143	20,386	5,281	15,104	5,168	17,901	16,249	2,866	13,383
Monthly data, seasonally adjusted															
1980:															
July.....	89,960	25,151	1,004	4,270	19,877	64,809	5,119	20,355	5,261	15,094	5,173	17,940	16,222	2,893	13,329
August.....	90,219	25,322	1,008	4,324	19,990	64,897	5,126	20,413	5,274	15,139	5,188	17,981	16,189	2,808	13,381
September.....	90,461	25,445	1,023	4,362	20,060	65,016	5,124	20,450	5,290	15,160	5,206	18,043	16,193	2,784	13,409
October.....	90,668	25,521	1,032	4,379	20,110	65,147	5,129	20,461	5,296	15,165	5,221	18,087	16,249	2,795	13,454
November.....	90,844	25,629	1,052	4,389	20,188	65,215	5,114	20,464	5,296	15,168	5,235	18,160	16,242	2,796	13,446
December.....	90,949	25,631	1,069	4,387	20,175	65,318	5,118	20,470	5,300	15,170	5,254	18,240	16,236	2,800	13,436
1981:															
January.....	91,091	25,647	1,083	4,390	20,174	65,444	5,124	20,529	5,305	15,224	5,268	18,300	16,223	2,799	13,424
February.....	91,258	25,657	1,091	4,389	20,177	65,601	5,135	20,600	5,313	15,287	5,283	18,343	16,240	2,795	13,445
March.....	91,347	25,705	1,098	4,416	20,191	65,642	5,139	20,635	5,316	15,319	5,293	18,371	16,204	2,781	13,423
April.....	91,458	25,700	950	4,418	20,332	65,758	5,161	20,636	5,333	15,303	5,316	18,475	16,170	2,767	13,403
May.....	91,564	25,705	957	4,334	20,414	65,859	5,148	20,714	5,346	15,368	5,326	18,540	16,131	2,779	13,352
June P.....	91,583	25,806	1,112	4,274	20,420	65,777	5,145	20,703	5,341	15,362	5,330	18,568	16,031	2,781	13,250
July P.....	91,966	25,922	1,141	4,253	20,528	66,044	5,151</								

**ESTABLISHMENT DATA
EMPLOYMENT**

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
-	TOTAL	90,955	89,711	91,848	92,446	91,680	-	-	-	-	-
-	PRIVATE SECTOR	74,478	74,100	75,434	76,252	76,192	60,589	60,215	61,204	61,997	51,839
-	MINING	1,044	1,025	957	1,134	1,164	779	762	695	339	862
10	METAL MINING	107.6	88.9	103.1	104.6	-	81.6	66.3	77.4	73.3	-
101	Iron ores	23.1	21.1	22.8	23.5	-	18.0	15.8	17.8	13.5	-
102	Copper ores	37.1	20.1	36.3	36.9	-	28.8	15.6	28.0	23.4	-
11, 12	COAL MINING	247.7	242.4	91.2	238.2	-	234.3	200.4	75.3	195.7	-
12	BITUMINOUS COAL AND LIGNITE MINING	244.3	239.1	89.7	234.7	-	201.3	197.5	74.0	193.6	-
13	OIL AND GAS EXTRACTION	561.0	567.7	640.7	667.7	-	392.8	395.8	448.4	459.0	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	227.0	231.9	249.2	262.3	-	137.2	109.1	110.1	117.3	-
138	Oil and gas field services	334.0	335.8	391.5	405.4	-	235.6	286.7	338.3	350.7	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	127.6	126.4	122.1	123.6	-	100.1	99.7	94.0	95.1	-
142	Crushed and broken stone	42.1	40.8	38.0	38.1	-	34.8	34.5	31.3	31.1	-
144	Sand and gravel	38.1	38.3	35.7	36.2	-	-	-	-	-	-
147	Chemical and fertilizer minerals	26.7	26.9	27.3	27.5	-	-	-	-	-	-
-	CONSTRUCTION	4,545	4,562	4,356	4,466	4,534	3,604	3,618	3,403	3,503	3,575
15	GENERAL BUILDING CONTRACTORS	1,254.1	1,249.4	1,180.3	1,202.0	-	971.9	968.1	891.6	909.2	-
152	Residential building construction	618.3	610.1	597.5	610.6	-	452.5	455.0	438.1	445.9	-
153	Operative builders	64.5	65.6	61.7	61.6	-	38.6	38.6	33.8	34.0	-
154	Nonresidential building construction	571.3	573.7	521.1	529.8	-	470.8	474.5	419.7	429.3	-
16	HEAVY CONSTRUCTION CONTRACTORS	993.6	995.7	911.7	939.0	-	811.3	811.6	739.6	759.3	-
161	Highway and street construction	314.4	315.9	254.4	267.9	-	273.3	274.1	214.7	227.9	-
162	Heavy construction, except highway	679.2	679.8	657.3	671.1	-	538.0	537.5	524.9	531.4	-
17	SPECIAL TRADE CONTRACTORS	2,297.1	2,317.0	2,263.8	2,325.4	-	1,820.7	1,837.9	1,772.1	1,825.3	-
171	Plumbing, heating, air conditioning	536.0	537.9	535.8	550.4	-	430.6	401.3	395.1	436.5	-
172	Painting, paper hanging, decorating	153.1	156.8	141.4	151.0	-	129.8	133.2	116.6	125.1	-
173	Electrical work	407.0	411.3	409.4	414.5	-	316.5	319.8	314.4	318.4	-
174	Masonry, stonework, and plastering	369.4	366.4	362.8	369.2	-	319.2	315.7	309.5	315.5	-
175	Carpentering and flooring	120.9	124.1	132.3	135.6	-	91.1	94.3	100.8	102.4	-
176	Roofing and sheet metal work	173.1	175.8	155.2	173.5	-	140.3	143.0	131.7	140.0	-
-	MANUFACTURING	20,146	19,702	20,342	20,525	20,330	14,047	13,614	14,195	14,327	14,130
24, 25, 32-39	DURABLE GOODS	12,036	11,743	12,235	12,333	12,206	8,284	8,000	8,438	8,505	8,357
20-23, 26-31	NONDURABLE GOODS	8,110	7,959	8,107	8,192	8,124	5,763	5,614	5,757	5,822	5,763
	DURABLE GOODS	-	-	-	-	-	-	-	-	-	-
24	LUMBER AND WOOD PRODUCTS	670.8	669.4	703.4	710.7	707.3	558.9	559.1	587.3	595.0	592.3
241	Logging camps and logging contractors	86.2	89.9	82.6	87.6	-	70.1	73.8	64.5	59.2	-
242	Sawmills and planing mills	211.1	212.1	216.0	216.9	-	186.7	187.9	191.6	192.9	-
2421	Sawmills and planing mills, general	174.5	177.2	180.0	180.8	-	154.6	157.2	160.3	151.5	-
2428	Hardwood dimension and flooring	30.5	28.5	31.5	31.6	-	26.4	24.8	27.3	27.5	-
243	Millwork, plywood, and structural members	191.5	191.0	210.8	210.3	-	156.1	155.4	174.7	174.5	-
2431	Millwork	65.3	65.7	73.4	74.0	-	51.3	51.7	59.2	59.7	-
2434	Wood kitchen cabinets	47.2	46.7	49.9	49.4	-	38.6	38.1	40.1	39.8	-
2435	Hardwood veneer and plywood	24.3	23.2	27.6	27.7	-	21.5	20.2	24.4	24.5	-
2436	Softwood veneer and plywood	39.9	40.1	43.6	43.2	-	34.1	34.3	38.8	39.6	-
244	Wood containers	43.4	41.5	43.5	44.1	-	37.4	35.9	37.3	37.3	-
245	Wood buildings and mobile homes	59.0	59.0	69.5	69.3	-	42.9	43.9	51.5	51.5	-
2451	Mobile homes	41.5	40.6	50.0	50.2	-	31.2	31.1	38.3	38.6	-
249	Miscellaneous wood products	79.6	75.9	81.0	82.5	-	55.7	62.2	67.7	59.1	-
25	FURNITURE AND FIXTURES	455.9	433.4	479.0	481.2	471.0	364.7	345.1	387.0	399.2	380.1
251	Household furniture	293.0	272.1	314.6	315.2	-	243.5	224.8	264.1	264.7	-
2511	Wood household furniture	132.8	119.0	142.5	142.7	-	115.1	101.6	123.8	124.1	-
2512	Upholstered household furniture	90.6	86.9	97.5	97.7	-	74.1	71.0	80.2	80.3	-
2514	Metal household furniture	27.2	24.6	31.8	31.6	-	21.2	19.3	25.9	25.7	-
2515	Mattresses and bedsprings	29.1	28.6	29.9	30.1	-	21.9	21.6	23.0	23.2	-
252	Office furniture	49.2	47.8	51.2	51.4	-	38.5	37.6	39.8	40.0	-
253	Public building and related furniture	23.9	24.0	24.3	24.8	-	17.6	17.8	18.2	19.5	-
254	Partitions and fixtures	63.7	63.7	61.1	61.5	-	47.1	47.3	45.7	45.0	-
259	Miscellaneous furniture and fixtures	26.1	25.8	27.8	28.3	-	18.0	17.6	19.2	19.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	663.9	654.3	659.7	669.2	662.2	513.4	503.2	509.4	517.5	510.0
321	Flat glass	17.2	15.7	18.9	19.4	-	13.0	11.5	14.5	15.0	-
322	Glass and glassware, pressed or blown	123.6	122.0	124.0	125.5	-	135.1	103.4	104.6	135.1	-
3221	Glass containers	69.2	68.5	69.2	70.1	-	60.8	60.0	60.6	61.6	-
3229	Pressed and blown glass, nec	54.4	53.5	54.8	55.4	-	44.3	43.4	44.0	44.5	-
323	Products of purchased glass	43.9	43.1	47.1	48.4	-	31.0	29.5	32.3	33.2	-
324	Cement, hydraulic	31.3	30.9	29.1	29.8	-	25.2	24.8	23.0	23.7	-
325	Structural clay products	45.4	44.4	44.9	45.4	-	34.0	33.2	34.2	34.9	-
326	Pottery and related products	46.1	42.7	44.1	44.4	-	38.1	34.6	36.2	35.3	-
327	Concrete, gypsum, and plaster products	210.3	210.1	199.0	201.1	-	162.7	162.6	153.6	155.4	-
3271	Concrete block and brick	21.4	21.4	20.7	21.0	-	14.9	14.9	14.4	14.7	-
3272	Concrete products, nec	68.8	68.4	63.9	64.1	-	51.9	51.6	47.7	47.7	-
3273	Ready-mixed concrete	99.4	99.7	94.0	95.6	-	79.2	79.5	74.9	75.3	-
329	Misc. nonmetallic mineral products	135.0	134.1	141.3	143.3	-	95.3	94.5	102.0	103.2	-
3291	Abrasive products	29.5	28.7	29.3	29.9	-	19.6	18.8	19.9	21.3	-
3292	Asbestos products	16.2	15.7	17.4	17.6	-	12.0	11.9	13.4	13.5	-
3296	Mineral wool	30.3	30.8	31.8	32.3	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,123.6	1,065.7	1,147.5	1,154.4	1,140.1	854.7	803.3	885.3	891.1	375.0
331	Blast furnace and basic steel products	498.9	482.9	518.4	521.0	-	380.4	367.9	403.8	425.4	-
3312	Blast furnaces and steel mills	417.6	404.5	434.5	436.4	-	319.0	309.1	339.5	340.3	-
3317	Steel pipe and tubes	29.3	28.8	32.3	32.8	-	22.2	21.8	25.3	25.9	-
332	Iron and steel foundries	205.6	188.8	236.5	207.9	-	163.6	147.6	165.4	167.1	-
3321	Gray iron foundries	123.2	110.9	126.5	127.4	-	99.6	87.4	103.5	103.6	-
3322	Malleable iron foundries	15.0	12.2	15.5	15.8	-	11.3	9.2	12.0	12.3	-
3325	Steel foundries, nec	55.4	53.6	52.8	53.2	-	43.7	41.9	41.4	41.9	-
333	Primary nonferrous metals	74.6	64.9	71.5	71.9	-	57.2	49.0	54.3	54.1	-
3334	Primary aluminum	38.9	38.7	36.8	37.6	-	30.6	30.2	28.7	29.3	-
335	Nonferrous rolling and drawing	207.5	198.3	207.2	209.4	-	147.0	138.5	147.8	150.0	-
3351	Copper rolling and drawing	30.3	28.2	28.5	30.6	-	22.5	20.7	21.0	22.9	-
3353	Aluminum sheet, plate, and foil	34.4	32.2	34.8	35.1	-	26.0	23.7	26.6	25.9	-
3357	Nonferrous wire drawing and insulating	84.8	81.4	87.2	86.8	-	50.3	57.3	63.0	52.5	-
336	Nonferrous foundries	87.2	82.5	92.6	93.0	-	68.8	64.1	75.2	75.6	-
3361	Aluminum foundries	49.4	46.9	52.8	52.8	-	39.5	36.9	44.0	44.1	-
34	FABRICATED METAL PRODUCTS	1,580.0	1,519.9	1,596.1	1,606.6	1,587.0	1,154.6	1,108.3	1,180.8	1,193.4	1,170.0
341	Metal cans and shipping containers	74.6	73.6	72.5	72.9	-	52.8	62.0	61.4	61.5	-
3411	Metal cans	61.7	60.8	59.6	59.9	-	52.3	51.7	51.0	51.1	-
342	Cutlery, hand tools, and hardware	159.5	149.4	170.7	171.0	-	123.2	111.1	131.2	131.4	-
3423.5	Hand and edge tools, and hand saws and blades	57.9	54.3	59.0	59.0	-	44.4	41.1	45.2	45.2	-
3429	Hardware, nec	86.4	81.0	97.4	97.6	-	64.4	59.5	75.2	75.4	-
343	Plumbing and heating, except electric	65.9	63.6	67.0	67.6	-	45.9	44.1	47.8	48.4	-
3432	Plumbing fittings and brass goods	22.9	21.3	24.4	24.7	-	18.2	16.7	19.6	19.8	-
3433	Heating equipment, except electric	33.0	32.8	31.5	31.7	-	20.9	21.1	20.6	20.9	-
344	Fabricated structural metal products	501.7	494.2	498.5	503.0	-	345.4	337.9	339.8	343.4	-
3441	Fabricated structural metal	102.0	97.1	95.1	94.9	-	74.0	69.5	67.8	67.7	-
3442	Metal doors, sash, and trim	73.0	75.2	78.5	79.6	-	52.6	54.4	57.2	58.6	-
3443	Fabricated plate work (boiler shops)	150.0	146.5	148.1	148.9	-	94.0	90.3	89.5	92.2	-
3444	Sheet metal work	109.9	109.0	109.4	111.0	-	80.1	79.5	79.5	80.9	-
3446	Architectural metal work	30.7	30.7	32.0	32.6	-	21.6	21.4	22.8	23.0	-
345	Screw machine products, bolts, etc.	107.5	101.9	103.6	104.2	-	83.1	77.8	79.4	80.5	-
3451	Screw machine products	50.8	48.6	49.1	49.6	-	41.4	39.2	39.8	40.4	-
3452	Bolts, nuts, rivets, and washers	56.7	53.3	54.5	54.6	-	41.7	38.6	39.6	40.1	-
346	Metal forgings and stampings	258.3	235.4	264.0	264.3	-	201.9	180.0	209.8	210.1	-
3462	Iron and steel forgings	45.6	42.8	45.4	44.9	-	35.1	32.5	35.1	34.7	-
3465	Automotive stampings	93.4	77.0	97.2	98.1	-	75.2	59.7	80.9	81.3	-
3469	Metal stampings, nec	106.6	103.3	108.7	108.8	-	31.8	78.4	83.9	84.0	-
347	Metal services, nec	99.7	97.0	103.3	104.5	-	80.1	77.7	83.2	84.4	-
3471	Plating and polishing	68.0	66.0	70.0	70.5	-	55.2	53.5	57.3	57.3	-
3479	Metal coating and allied services	31.7	31.0	33.3	34.0	-	24.9	24.2	25.9	25.6	-
348	Ordnance and accessories, nec	61.4	59.3	60.0	60.0	-	40.9	39.3	39.1	39.4	-
3483	Ammunition, exc. for small arms, nec	24.4	24.6	25.2	25.2	-	16.5	16.8	16.5	15.5	-
349	Misc. fabricated metal products	251.4	245.5	256.5	259.1	-	194.3	178.4	189.1	191.2	-
3494	Valves and pipe fittings	103.5	101.1	105.0	105.7	-	71.5	69.0	72.3	72.6	-
3496	Misc. fabricated wire products	53.9	52.2	55.5	56.0	-	41.6	40.3	43.2	43.8	-
35	MACHINERY, EXCEPT ELECTRICAL	2,497.4	2,448.6	2,508.6	2,532.0	2,518.5	1,600.6	1,554.5	1,594.1	1,637.3	1,588.2
351	Engines and turbines	134.2	129.4	132.1	133.7	-	85.8	81.8	84.8	85.3	-
3511	Turbines and turbine generator sets	41.7	40.5	40.9	40.8	-	21.3	20.1	21.5	21.1	-
3519	Internal combustion engines, nec	92.5	88.9	91.2	92.9	-	64.5	61.7	63.3	64.9	-
352	Farm and garden machinery	174.5	165.2	166.3	165.3	-	120.1	112.7	111.2	113.3	-
3523	Farm machinery and equipment	154.8	148.6	144.7	145.7	-	108.0	102.8	96.1	96.9	-
353	Construction and related machinery	389.7	380.1	394.4	400.3	-	253.8	244.8	258.8	253.3	-
3531	Construction machinery	149.1	143.1	145.1	146.9	-	98.8	93.6	96.9	97.7	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3532	Mining machinery.....	38.7	36.5	37.1	36.7	-	24.0	22.1	23.1	22.9	-
3533	Oil field machinery.....	93.6	93.8	107.0	110.5	-	64.3	64.3	74.4	77.7	-
3535	Conveyers and conveying equipment.....	35.5	34.7	33.6	33.9	-	19.8	19.0	18.9	19.3	-
3537	Industrial trucks and tractors.....	36.3	35.5	36.0	36.2	-	24.1	23.2	23.8	23.9	-
354	Metalworking machinery.....	372.5	366.6	362.4	362.8	-	271.5	265.5	262.2	252.2	-
3541	Machine tools, metal cutting types.....	81.9	82.6	79.3	79.5	-	54.8	55.3	51.5	51.5	-
3542	Machine tools, metal forming types.....	27.0	26.5	25.9	26.1	-	17.6	17.1	16.3	16.6	-
3544	Special dies, tools, jigs, and fixtures.....	134.9	132.5	135.6	135.1	-	107.5	104.9	108.0	107.6	-
3545	Machine tool accessories.....	71.8	69.2	68.7	68.9	-	51.0	49.0	48.6	49.4	-
3546	Power driven hand tools.....	31.2	30.3	29.1	29.2	-	23.7	22.8	22.4	22.5	-
355	Special industry machinery.....	211.6	206.6	204.3	206.3	-	134.8	131.4	128.7	130.5	-
3551	Food products machinery.....	47.2	45.9	44.2	44.4	-	30.1	29.1	28.1	28.2	-
3552	Textile machinery.....	27.3	25.9	25.2	25.2	-	19.1	18.2	17.5	17.4	-
3556	Printing trades machinery.....	41.0	41.5	42.7	43.6	-	25.6	25.9	26.3	27.0	-
356	General industrial machinery.....	321.0	313.7	314.0	316.5	-	208.4	202.2	203.1	205.1	-
3561	Pumps and pumping equipment.....	63.1	62.4	62.1	62.5	-	37.2	36.5	36.3	35.7	-
3562	Ball and roller bearings.....	56.5	55.2	56.5	56.6	-	44.0	42.7	43.9	43.8	-
3563	Air and gas compressors.....	31.2	30.2	30.2	30.3	-	18.5	17.9	18.0	18.1	-
3564	Blowers and fans.....	40.9	40.7	41.0	41.3	-	24.4	24.9	25.7	25.8	-
3566	Speed changers, drives, and gears.....	26.8	26.0	26.8	27.2	-	18.2	17.2	17.8	18.1	-
3568	Power transmission equipment, nec.....	23.1	22.1	21.9	22.3	-	16.3	15.4	15.4	15.7	-
357	Office and computing machines.....	432.3	432.9	447.0	454.6	-	186.4	184.0	182.9	184.3	-
3573	Electronic computing equipment.....	352.3	353.4	367.6	373.7	-	141.4	139.9	140.2	143.8	-
358	Refrigeration and service machinery.....	168.4	164.9	183.7	186.4	-	114.0	110.3	128.6	130.8	-
3585	Refrigeration and heating equipment.....	112.1	109.8	126.1	127.3	-	75.8	73.3	89.1	90.3	-
359	Misc. machinery, except electrical.....	293.3	289.2	304.4	306.1	-	225.8	221.8	233.8	234.9	-
3592	Carburetors, pistons, rings, valves.....	39.3	36.9	42.9	42.9	-	30.7	28.4	35.1	34.9	-
3599	Machinery, except electrical, nec.....	254.0	252.3	261.5	263.2	-	195.1	193.4	198.7	199.3	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	2,079.7	2,043.8	2,134.7	2,153.4	2,142.1	1,311.3	1,273.1	1,347.9	1,353.8	1,345.8
361	Electric distributing equipment.....	121.6	117.1	121.3	122.8	-	84.4	81.0	86.1	87.8	-
3612	Transformers.....	53.1	51.2	52.2	53.0	-	36.9	35.2	36.8	37.9	-
3613	Switchgear and switchboard apparatus.....	68.5	65.9	69.1	69.8	-	47.5	45.8	49.3	49.9	-
362	Electrical industrial apparatus.....	236.0	231.8	239.8	240.9	-	165.2	161.5	170.8	171.6	-
3621	Motors and generators.....	117.7	115.0	123.5	123.1	-	87.2	84.9	94.8	94.5	-
3622	Industrial controls.....	72.2	71.8	70.6	71.4	-	45.0	44.7	43.7	44.1	-
363	Household appliances.....	154.3	151.0	171.1	172.2	-	120.5	117.7	136.8	137.7	-
3632	Household refrigerators and freezers.....	32.4	31.0	39.7	40.8	-	26.4	24.7	32.6	33.7	-
3633	Household laundry equipment.....	17.0	18.6	21.0	21.5	-	12.5	14.1	16.7	17.0	-
3634	Electric housewares and fans.....	52.0	48.6	51.4	51.3	-	42.1	39.4	41.3	41.3	-
364	Electric lighting and wiring equipment.....	207.4	199.2	211.2	213.7	-	153.2	146.8	156.8	157.9	-
3641	Electric lamps.....	35.3	35.7	33.2	33.4	-	31.1	31.4	28.9	29.2	-
3643	Current-carrying wiring devices.....	88.9	85.4	90.1	91.9	-	51.6	58.7	62.1	62.6	-
3644	Noncurrent-carrying wiring devices.....	21.8	20.4	23.2	23.5	-	15.5	14.3	17.0	17.2	-
3645	Residential lighting fixtures.....	23.5	22.5	25.9	26.1	-	17.3	16.8	19.7	19.9	-
365	Radio and TV receiving equipment.....	108.7	104.8	108.7	109.6	-	78.7	74.4	77.6	77.8	-
3651	Radio and TV receiving sets.....	85.6	82.5	86.6	87.7	-	60.2	56.7	59.9	59.5	-
366	Communication equipment.....	539.9	539.0	542.5	544.6	-	255.2	261.4	262.9	253.6	-
3661	Telephone and telegraph apparatus.....	163.9	160.0	155.1	153.2	-	111.8	107.9	103.2	101.7	-
3662	Radio and TV communication equipment.....	376.0	379.0	387.4	391.4	-	153.4	153.5	159.7	161.9	-
367	Electronic components and accessories.....	563.2	556.0	572.0	580.5	-	339.4	329.7	334.5	339.3	-
3671-3	Electronic tubes.....	42.6	42.9	43.7	43.9	-	26.8	27.0	27.0	27.0	-
3674	Semiconductors and related devices.....	228.7	229.9	234.9	236.7	-	111.8	100.7	97.6	97.9	-
3679	Electronic components, nec.....	216.0	212.5	219.9	224.6	-	150.6	146.7	153.6	155.8	-
369	Misc. electrical equipment and supplies.....	148.6	144.9	168.1	169.1	-	104.7	100.6	122.4	123.1	-
3691	Storage batteries.....	27.9	25.8	31.2	31.9	-	21.4	19.3	24.3	24.9	-
3694	Engine electrical equipment.....	67.2	66.2	81.2	81.4	-	49.3	48.0	62.6	62.7	-
37	TRANSPORTATION EQUIPMENT	1,835.1	1,798.9	1,877.4	1,881.5	1,842.6	1,178.0	1,137.8	1,217.0	1,217.5	1,176.7
371	Motor vehicles and equipment.....	731.7	698.2	754.8	760.5	-	526.6	495.7	570.0	575.7	-
3711	Motor vehicles and car bodies.....	344.4	336.7	333.8	335.5	-	235.0	228.9	240.5	242.2	-
3713	Truck and bus bodies.....	36.0	36.8	33.8	34.4	-	27.4	28.2	25.4	25.0	-
3714	Motor vehicle parts and accessories.....	320.5	295.1	352.3	355.3	-	241.8	217.1	277.3	233.2	-
3715	Truck trailers.....	26.9	25.8	28.9	29.5	-	19.5	18.7	22.4	22.9	-
372	Aircraft and parts.....	653.1	651.6	660.1	660.3	-	354.2	349.6	351.8	349.5	-
3721	Aircraft.....	349.6	351.0	362.4	363.3	-	171.8	170.9	176.9	176.5	-
3724	Aircraft engines and engine parts.....	162.3	160.3	159.4	158.7	-	93.5	91.4	90.5	89.7	-
3728	Aircraft equipment, nec.....	141.2	140.3	138.3	138.3	-	88.9	87.3	84.5	83.4	-
373	Ship and boat building and repairing.....	213.9	215.0	228.9	227.7	-	159.9	169.9	182.1	179.3	-
3731	Ship building and repairing.....	173.6	174.7	178.7	177.0	-	137.2	137.6	139.9	135.7	-
3732	Boat building and repairing.....	40.3	40.3	50.2	50.7	-	32.7	32.3	42.2	42.5	-
374	Railroad equipment.....	72.3	67.8	51.8	50.9	-	54.8	50.2	35.7	34.7	-
376	Guided missiles, space vehicles, parts.....	109.9	111.5	117.9	118.3	-	35.0	34.5	35.1	35.6	-
3761	Guided missiles and space vehicles.....	87.2	89.0	94.6	95.1	-	26.2	26.1	26.5	27.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	34.3	35.8	41.2	41.2	-	21.4	22.8	25.5	25.8	-
3792	Travel trailers and campers	12.7	13.7	20.7	20.6	-	8.7	10.0	16.2	15.1	-
38	INSTRUMENTS AND RELATED PRODUCTS	711.5	707.4	715.2	724.3	722.9	425.2	417.8	422.8	427.4	424.1
381	Engineering and scientific instruments	76.7	77.2	78.1	78.6	-	37.1	37.0	37.8	33.1	-
382	Measuring and controlling devices	243.0	240.6	245.8	249.9	-	151.5	147.4	153.8	155.5	-
3822	Environmental controls	46.4	43.9	46.9	46.6	-	31.4	29.2	32.0	31.6	-
3823	Process control instruments	54.1	54.1	55.7	57.6	-	28.7	28.7	29.3	30.5	-
3825	Instruments to measure electricity	102.9	103.5	104.9	106.9	-	53.1	61.9	65.4	67.0	-
383	Optical instruments and lenses	33.3	32.9	33.3	33.3	-	13.5	18.3	18.3	13.0	-
384	Medical instruments and supplies	155.6	155.8	159.0	160.3	-	101.0	100.6	100.2	100.5	-
3841	Surgical and medical instruments	71.2	71.8	74.4	75.2	-	46.3	46.5	45.5	45.7	-
3842	Surgical appliances and supplies	67.0	66.7	67.4	68.2	-	43.7	43.3	44.0	44.3	-
385	Ophthalmic goods	44.2	42.5	42.7	42.3	-	31.8	30.1	30.1	29.8	-
386	Photographic equipment and supplies	137.0	137.8	137.8	141.5	-	58.7	69.0	69.1	71.1	-
387	Watches, clocks, and watchcases	21.7	20.6	18.5	18.4	-	16.6	15.4	13.5	13.4	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	417.7	401.8	413.4	419.4	411.9	312.2	297.7	306.0	310.3	304.3
391	Jewelry, silverware, and plated ware	54.4	51.2	54.8	55.3	-	38.8	36.0	39.2	39.5	-
3911	Jewelry, precious metal	35.2	34.0	35.6	36.0	-	25.0	24.0	25.0	25.3	-
393	Musical instruments	20.7	20.7	22.1	22.4	-	15.3	16.2	17.9	13.1	-
394	Toys and sporting goods	118.0	113.9	115.4	118.6	-	87.8	84.6	86.6	89.6	-
3942, 4	Dolls, games, toys, and children's vehicles	61.4	59.1	59.2	62.3	-	45.0	43.1	43.0	45.3	-
3949	Sporting and athletic goods, nec	56.6	54.8	56.2	56.3	-	42.8	41.5	43.6	43.7	-
395	Pens, pencils, office and art supplies	37.8	37.1	38.5	38.9	-	26.8	26.2	27.3	27.6	-
396	Costume jewelry and notions	51.8	46.3	47.9	48.2	-	41.4	36.3	36.8	37.1	-
3961	Costume jewelry	24.7	20.5	23.2	23.7	-	19.4	15.6	17.7	13.2	-
399	Miscellaneous manufactures	135.0	132.6	134.7	136.0	-	101.1	98.4	98.2	99.0	-
3993	Signs and advertising displays	47.5	47.0	48.1	48.1	-	34.2	33.8	34.8	34.7	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,694.9	1,731.7	1,648.1	1,675.7	1,708.0	1,154.6	1,189.2	1,118.3	1,141.1	1,172.2
201	Meat products	360.5	359.8	349.6	352.0	-	300.5	300.3	291.1	293.7	-
2011	Meat packing plants	161.6	161.0	157.6	158.6	-	132.2	132.0	129.4	130.3	-
2013	Sausages and other prepared meats	70.4	70.7	68.8	69.9	-	51.7	52.2	51.1	52.2	-
2016	Poultry dressing plants	114.9	114.3	109.6	111.0	-	105.0	104.4	98.9	100.6	-
202	Dairy products	179.4	180.0	174.0	178.2	-	99.7	100.5	96.0	99.2	-
2022	Cheese, natural and processed	36.8	36.7	35.7	36.9	-	28.6	28.3	27.3	23.3	-
2026	Fluid milk	102.9	102.9	100.1	101.8	-	45.7	45.8	44.8	45.7	-
203	Preserved fruits and vegetables	235.7	268.7	215.3	221.7	-	189.0	219.9	171.4	177.5	-
2032	Canned specialties	23.8	24.1	24.2	23.9	-	17.3	17.3	17.7	17.6	-
2033	Canned fruits and vegetables	83.0	118.7	73.9	77.7	-	64.5	99.2	57.2	60.6	-
2037	Frozen fruits and vegetables	49.4	44.8	43.8	44.6	-	42.8	37.9	37.8	38.7	-
204	Grain mill products	143.3	143.5	141.1	141.7	-	97.2	97.4	97.9	93.3	-
2041	Flour and other grain mill products	26.0	27.0	26.4	26.6	-	15.0	16.0	16.6	15.9	-
2048	Prepared feeds, nec	57.5	56.7	56.2	56.5	-	37.4	36.7	36.8	37.0	-
205	Bakery products	226.6	227.6	221.4	223.2	-	131.8	132.3	127.2	129.0	-
2051	Bread, cake, and related products	185.3	185.4	180.8	182.6	-	99.9	99.6	95.4	97.1	-
2052	Cookies and crackers	41.3	42.2	40.6	40.6	-	31.9	32.7	31.8	31.9	-
206	Sugar and confectionery products	99.0	97.4	102.9	103.9	-	72.4	71.4	76.8	77.3	-
2061-3	Cane and beet sugar	26.6	25.6	28.1	27.8	-	18.3	17.5	20.2	19.8	-
2065	Confectionery products	52.8	51.1	54.9	55.9	-	40.6	39.4	43.4	44.0	-
207	Fats and oils	44.0	44.1	43.8	43.6	-	31.8	31.9	32.4	32.2	-
208	Beverages	239.8	240.0	236.5	240.3	-	108.0	108.0	104.4	105.9	-
2082	Malt beverages	52.0	52.5	51.8	51.3	-	34.5	34.7	34.4	33.4	-
2086	Bottled and canned soft drinks	142.9	144.6	140.8	144.4	-	48.6	49.6	46.3	48.0	-
209	Misc. foods and kindred products	166.6	170.6	163.5	171.1	-	124.2	127.5	121.1	128.0	-
21	TOBACCO MANUFACTURES	65.2	64.6	65.2	66.5	67.2	49.8	49.5	49.6	50.9	51.9
211	Cigarettes	47.2	46.9	46.8	48.3	-	35.7	35.8	35.4	36.8	-
22	TEXTILE MILL PRODUCTS	842.1	809.8	844.3	849.0	832.5	730.4	699.5	732.1	737.0	721.6
221	Weaving mills, cotton	151.1	145.5	141.8	142.0	-	135.9	130.0	126.3	127.0	-
222	Weaving mills, synthetics	108.1	112.9	117.8	117.7	-	96.1	100.7	105.9	105.1	-
223	Weaving and finishing mills, wool	19.5	16.7	19.5	19.6	-	15.9	13.2	16.2	15.3	-
224	Narrow fabric mills	23.0	19.9	24.1	24.3	-	20.1	17.0	21.2	21.4	-
225	Knitting mills	223.7	215.6	221.9	224.0	-	194.6	186.8	192.3	194.2	-
2251	Women's hosiery, except socks	30.4	29.7	28.6	28.8	-	27.6	25.9	25.6	25.7	-
2252	Hosiery, nec	33.3	32.0	34.6	35.1	-	30.4	29.1	31.5	32.0	-
2253	Knit outerwear mills	70.7	68.0	72.1	73.2	-	60.7	58.0	61.4	62.3	-
2254	Knit underwear mills	31.5	30.8	31.5	31.9	-	27.3	26.6	27.4	27.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972.. SIC Code	Industry	All employees					Production workers ¹				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	TEXTILE MILL PRODUCTS—Continued										
2257	Circular knit fabric mills	33.5	31.5	31.7	31.5	-	28.3	26.5	26.8	25.6	-
226	Textile finishing, except wool	74.9	69.0	72.4	72.8	-	52.9	57.3	60.5	50.5	-
2261	Finishing plants, cotton	30.2	28.0	27.6	27.7	-	25.2	23.0	22.7	22.8	-
2262	Finishing plants, synthetics	28.6	26.1	29.5	29.8	-	24.0	21.6	24.9	25.0	-
227	Floor covering mills	52.7	51.2	52.9	52.8	-	42.8	41.8	42.6	42.5	-
228	Yarn and thread mills	124.5	117.6	126.4	127.5	-	112.0	105.4	113.3	115.1	-
2281	Yarn mills, except wool	84.1	79.7	85.0	85.3	-	77.3	73.0	78.0	73.3	-
2282	Throwing and winding mills	20.0	19.4	20.3	20.8	-	17.3	16.9	17.9	13.4	-
229	Miscellaneous textile goods	64.6	61.4	67.5	68.3	-	50.1	47.3	53.2	53.7	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,281.2	1,208.5	1,265.9	1,282.0	1,233.7	1,096.2	1,026.9	1,079.8	1,095.0	1,049.7
231	Men's and boys' suits and coats	80.1	75.8	77.7	79.3	-	70.0	65.5	68.3	59.9	-
232	Men's and boys' furnishings	371.2	348.9	353.4	357.8	-	318.1	297.0	301.9	305.6	-
2321	Men's and boys' shirts and nightwear	101.6	95.0	96.8	98.2	-	88.4	82.1	83.5	84.9	-
2327	Men's and boys' separate trousers	77.7	73.0	74.1	74.7	-	58.0	53.4	64.4	55.1	-
2328	Men's and boys' work clothing	106.8	99.5	103.2	104.6	-	89.1	81.9	86.2	87.7	-
233	Women's and misses' outerwear	425.6	400.1	417.0	421.1	-	368.4	344.5	357.4	351.3	-
2331	Women's and misses' blouses and waists	63.7	59.2	61.7	61.5	-	55.6	51.3	54.0	53.7	-
2335	Women's and misses' dresses	144.5	135.8	139.3	140.9	-	128.1	119.6	122.4	123.8	-
2337	Women's and misses' suits and coats	71.0	67.4	64.9	67.8	-	52.7	59.5	55.4	58.1	-
2339	Women's and misses' outerwear, nec.	146.4	137.7	151.1	150.9	-	122.0	114.1	125.6	125.7	-
234	Women's and children's undergarments	89.3	85.8	88.8	89.7	-	75.8	72.5	75.9	75.7	-
2341	Women's and children's underwear	71.8	68.9	70.9	71.5	-	52.1	59.4	61.8	62.3	-
2342	Brassieres and allied garments	17.5	16.9	17.9	18.2	-	13.7	13.1	14.1	14.4	-
236	Children's outerwear	67.0	62.4	65.2	66.6	-	57.8	53.4	55.2	56.5	-
2361	Children's dresses and blouses	28.1	26.1	27.9	28.4	-	25.5	23.3	24.9	25.3	-
238	Misc. apparel and accessories	56.1	52.3	54.8	56.2	-	48.0	44.3	46.7	47.3	-
239	Misc. fabricated textile products	169.8	161.0	186.7	188.7	-	138.7	130.3	155.0	156.6	-
2391	Curtains and draperies	27.1	25.2	28.1	28.5	-	22.8	21.0	23.4	23.6	-
2392	House furnishings, nec.	49.3	47.5	49.3	49.5	-	40.5	39.1	40.8	41.0	-
2396	Automotive and apparel trimmings	24.8	21.7	37.9	38.3	-	19.7	16.6	32.6	32.7	-
26	PAPER AND ALLIED PRODUCTS	695.6	682.5	693.1	700.8	696.5	524.5	511.1	521.9	523.6	524.5
261, 26	Paper and pulp mills	204.1	203.5	204.2	207.9	-	152.6	151.3	153.2	155.8	-
262	Paper mills, except building paper	176.2	175.7	176.2	179.9	-	130.5	129.4	131.1	134.5	-
263	Paperboard mills	65.9	64.7	64.4	65.1	-	51.8	50.6	50.6	51.1	-
264	Misc. converted paper products	220.9	215.7	220.6	222.5	-	153.7	158.7	162.4	164.9	-
2641	Paper coating and glazing	56.1	55.6	56.6	57.0	-	36.4	35.8	36.2	36.9	-
2642	Envelopes	25.3	24.2	25.5	25.5	-	20.0	18.9	19.9	19.9	-
2643	Bags, except textile bags	49.2	47.1	49.9	50.2	-	38.1	35.9	39.0	33.3	-
265	Paperboard containers and boxes	204.7	198.6	203.9	205.3	-	156.4	150.5	155.7	155.8	-
2651	Folding paperboard boxes	42.0	41.0	42.4	42.7	-	33.2	32.0	33.1	33.3	-
2653	Corrugated and solid fiber boxes	105.3	102.5	105.3	106.2	-	76.9	74.4	77.3	79.0	-
2654	Sanitary food containers	26.3	25.7	26.6	26.7	-	21.5	21.0	21.9	21.9	-
27	PRINTING AND PUBLISHING	1,257.7	1,251.3	1,281.8	1,286.0	1,281.8	700.2	693.2	709.5	707.6	704.5
271	Newspapers	424.1	421.8	429.8	432.2	-	154.0	162.2	164.9	154.6	-
272	Periodicals	87.5	88.7	90.9	91.6	-	16.5	16.5	17.8	17.6	-
273	Books	101.7	99.6	102.7	102.0	-	52.4	50.3	53.6	51.9	-
2731	Book publishing	71.8	71.5	72.8	72.5	-	27.4	27.1	28.7	27.4	-
2732	Book printing	29.9	28.1	29.9	29.5	-	25.0	23.2	24.9	24.5	-
274	Miscellaneous publishing	49.0	49.1	50.4	50.3	-	26.5	26.0	26.5	25.5	-
275	Commercial printing	415.6	412.8	430.0	430.8	-	307.8	305.1	316.5	316.2	-
2751	Commercial printing, letterpress	164.5	164.3	169.6	170.4	-	121.5	121.5	125.5	125.4	-
2752	Commercial printing, lithographic	229.1	226.6	237.4	237.9	-	168.3	165.7	172.1	172.5	-
276	Manifold business forms	49.3	48.7	48.4	48.6	-	34.2	33.8	33.5	33.5	-
278	Blankbooks and bookbinding	61.2	61.2	60.8	61.2	-	50.3	50.3	49.3	49.9	-
279	Printing trade services	44.0	43.5	44.7	44.5	-	32.6	32.3	33.2	33.0	-
28	CHEMICALS AND ALLIED PRODUCTS	1,116.8	1,106.2	1,110.3	1,120.3	1,116.7	631.3	618.1	631.4	635.3	633.9
281	Industrial inorganic chemicals	163.6	162.5	163.5	164.9	-	89.5	87.4	89.8	93.3	-
2819	Industrial inorganic chemicals, nec.	107.6	107.2	107.7	108.5	-	59.7	58.4	58.9	59.1	-
282	Plastics materials and synthetics	206.3	201.8	201.0	202.4	-	136.9	132.2	133.3	134.4	-
2821	Plastics materials and resins	81.4	80.2	80.0	80.7	-	48.3	47.1	47.2	47.9	-
2824	Organic fibers, noncellulosic	96.9	94.5	94.4	94.8	-	68.4	65.6	66.7	66.9	-
283	Drugs	199.2	198.9	200.1	202.5	-	97.9	97.0	100.0	99.9	-
2834	Pharmaceutical preparations	156.5	156.4	157.3	159.5	-	74.4	73.7	77.2	77.9	-
284	Soap, cleaners, and toilet goods	139.5	139.0	138.3	140.5	-	84.5	83.9	85.8	87.8	-
2841	Soap and other detergents	42.4	41.7	40.2	40.7	-	27.2	26.1	26.3	25.6	-
2844	Toilet preparations	55.0	55.2	56.1	57.6	-	34.7	35.1	36.8	39.2	-
2842, 3	Polishing, sanitation, and finishing preparations	42.1	42.1	42.0	42.2	-	22.6	22.7	22.7	23.0	-
285	Paints and allied products	66.2	65.4	65.1	66.4	-	33.7	32.8	32.4	33.3	-
286	Industrial organic chemicals	173.7	173.7	170.9	172.3	-	88.6	87.5	86.8	85.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	35.9	35.4	35.1	35.1	-	22.4	21.6	21.5	21.6	-
2861.9	Gum, wood, and industrial organic chemicals, nec.	137.8	138.3	135.8	137.2	-	56.2	65.9	65.3	55.3	-
287	Agricultural chemicals	74.3	71.7	75.5	74.5	-	47.1	45.0	48.1	46.7	-
289	Miscellaneous chemical products	94.0	93.2	95.9	96.8	-	53.1	52.3	55.2	55.0	-
29	PETROLEUM AND COAL PRODUCTS	208.5	211.4	212.9	214.9	214.6	134.7	136.4	135.1	135.0	136.2
291	Petroleum refining	165.1	167.8	169.5	170.8	-	103.5	105.2	103.5	103.9	-
295	Paving and roofing materials	30.9	31.3	30.8	31.4	-	23.2	23.5	23.5	24.0	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	711.0	680.8	749.2	759.0	748.1	541.3	512.5	579.6	588.2	579.0
301	Tires and inner tubes	121.4	115.1	121.4	123.4	-	94.3	78.3	85.4	85.9	-
302	Rubber and plastics footwear	21.8	19.9	20.3	20.8	-	19.4	19.7	18.0	18.5	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting	22.8	20.2	23.6	23.7	-	15.5	13.5	16.7	15.9	-
306	Fabricated rubber products, nec	101.5	97.9	107.0	108.2	-	78.1	74.8	83.5	84.7	-
307	Miscellaneous plastics products	443.5	427.7	476.9	482.9	-	344.0	328.2	376.0	381.2	-
31	LEATHER AND LEATHER PRODUCTS	236.8	211.8	235.9	238.1	224.6	200.2	177.1	199.8	201.5	189.8
311	Leather tanning and finishing	19.3	17.7	20.5	20.8	-	16.0	14.5	17.3	17.6	-
314	Footwear, except rubber	149.1	129.3	145.2	145.8	-	128.0	110.1	124.7	125.3	-
3143	Men's footwear, except athletic	56.4	47.7	57.7	58.2	-	48.8	40.5	49.4	49.8	-
3144	Women's footwear, except athletic	59.9	51.4	53.4	54.2	-	50.9	43.8	45.8	46.7	-
316	Luggage	16.2	16.1	16.3	16.8	-	12.2	12.0	12.6	12.9	-
317	Handbags and personal leather goods	28.7	27.8	29.2	29.5	-	24.4	23.4	24.5	24.7	-
	TRANSPORTATION AND PUBLIC UTILITIES	5,177	5,132	5,148	5,191	5,161	4,320	4,279	4,272	4,310	4,280
40	RAILROAD TRANSPORTATION	539.3	537.1	510.7	509.2	-	-	-	-	-	-
4011	Class 1 railroads ²	485.3	483.3	461.2	459.7	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	268.3	224.5	279.7	269.2	-	246.5	204.2	260.0	250.1	-
411	Local and suburban transportation	78.5	78.1	83.4	84.3	-	71.6	70.8	76.4	77.0	-
412	Taxicabs	53.0	52.0	50.8	50.1	-	-	-	-	-	-
413	Intercity highway transportation	39.4	40.6	39.7	42.2	-	36.4	37.6	36.8	39.1	-
415	School buses	81.5	39.6	90.2	77.2	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,269.8	1,263.0	1,235.3	1,258.4	-	1,112.6	1,106.4	1,073.3	1,097.3	-
421.3	Trucking and trucking terminals	1,183.8	1,177.1	1,156.5	1,178.8	-	1,039.7	1,033.8	1,007.7	1,030.8	-
422	Public warehousing	86.0	85.9	78.8	79.6	-	72.9	72.6	65.6	56.5	-
44	WATER TRANSPORTATION	224.9	222.9	210.7	213.0	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	457.6	458.8	461.7	465.3	-	-	-	-	-	-
451.2	Air transportation	407.8	408.9	410.6	413.7	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	22.2	22.5	21.8	22.9	-	16.0	16.4	15.2	16.2	-
47	TRANSPORTATION SERVICES	197.2	198.5	203.7	206.6	-	-	-	-	-	-
48	COMMUNICATION	1,359.2	1,361.8	1,362.0	1,367.5	-	1,013.4	1,015.9	1,017.4	1,021.8	-
481	Telephone communication	1,077.5	1,079.5	1,068.2	1,070.7	-	732.4	784.1	778.0	779.2	-
483	Radio and television broadcasting	198.5	199.4	201.2	203.2	-	158.6	159.6	162.3	154.1	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	838.0	843.0	862.0	878.5	-	686.2	690.9	703.5	713.5	-
491	Electric services	396.5	398.6	410.3	416.0	-	320.3	322.5	332.3	337.4	-
492	Gas production and distribution	171.2	173.7	173.3	179.2	-	141.2	143.2	141.1	146.9	-
493	Combination utility services	197.5	197.5	206.3	209.9	-	161.9	161.8	168.2	171.4	-
495	Sanitary services	49.1	49.3	48.6	49.5	-	43.2	43.6	42.4	43.2	-
	WHOLESALE AND RETAIL TRADE	20,347	20,300	20,672	20,781	20,737	17,839	17,787	18,034	18,139	18,118
50.51	WHOLESALE TRADE	5,287	5,280	5,335	5,373	5,368	4,327	4,320	4,343	4,378	4,375
50	WHOLESALE TRADE - DURABLE GOODS	3,125	3,104	3,175	3,192	-	2,555	2,537	2,579	2,593	-
501	Motor vehicles and automotive equipment	416.8	413.9	415.2	417.7	-	336.6	333.9	334.0	336.1	-
502	Furniture and home furnishing	114.6	114.2	119.0	119.1	-	33.6	92.8	96.7	95.8	-
503	Lumber and construction materials	188.5	188.9	195.0	195.1	-	154.3	155.7	160.9	160.4	-
504	Sporting goods, toys, and hobby goods	69.9	69.9	74.6	75.3	-	57.2	56.9	59.7	59.7	-
505	Metals and minerals, except petroleum	151.7	149.6	155.2	155.4	-	122.6	120.7	124.9	125.2	-
506	Electrical goods	419.1	416.7	421.5	423.6	-	341.2	338.2	338.6	340.4	-
507	Hardware, plumbing, and heating equipment	242.4	241.5	245.3	246.8	-	199.1	198.6	200.9	202.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,318.8	1,309.3	1,341.1	1,351.7	-	1,078.5	1,071.2	1,087.5	1,095.1	-
509	Miscellaneous durable goods	203.0	199.8	207.8	207.6	-	171.8	168.8	175.4	175.7	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,162	2,176	2,160	2,181	-	1,772	1,783	1,764	1,785	-
511	Paper and paper products	151.7	151.5	154.7	156.2	-	123.9	124.0	125.3	125.9	-
512	Drugs, proprietaries, and sundries	146.7	146.3	150.5	151.7	-	124.1	124.0	127.0	128.3	-
513	Apparel, piece goods, and notions	168.4	169.0	166.9	168.4	-	133.7	133.9	131.2	132.4	-
514	Groceries and related products	679.9	690.5	677.1	688.9	-	587.4	597.6	580.3	590.6	-
516	Chemicals and allied products	127.8	128.9	128.5	130.5	-	93.6	94.0	92.0	94.2	-
517	Petroleum and petroleum products	223.6	224.7	225.4	226.3	-	154.2	164.4	170.0	171.4	-
518	Beer, wine, and distilled beverages	138.8	140.5	141.0	143.6	-	117.1	118.4	117.8	120.3	-
519	Miscellaneous nondurable goods	388.2	386.0	385.8	384.7	-	315.8	313.4	315.0	314.4	-
52-59	RETAIL TRADE	15,060	15,020	15,337	15,408	15,369	13,512	13,467	13,691	13,761	13,743
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	627.9	620.9	635.4	634.5	-	531.5	525.3	538.5	538.3	-
521	Lumber and other building materials	328.2	329.1	330.3	334.4	-	277.8	278.9	279.8	284.0	-
525	Hardware stores	150.3	149.7	150.1	152.2	-	129.0	128.3	128.1	130.3	-
53	GENERAL MERCHANDISE STORES	2,186.0	2,174.7	2,210.7	2,216.6	-	2,033.7	2,019.4	1,968.8	1,992.0	-
531	Department stores	1,810.6	1,799.8	1,837.7	1,839.9	-	1,695.4	1,683.5	1,632.0	1,543.3	-
533	Variety stores	255.7	253.0	252.1	251.9	-	236.2	232.4	233.5	231.7	-
539	Misc. general merchandise stores	119.7	121.9	120.9	124.8	-	103.1	103.5	103.3	107.0	-
54	FOOD STORES	2,384.8	2,385.9	2,437.6	2,457.8	-	2,202.3	2,202.3	2,258.4	2,277.0	-
541	Grocery stores	2,086.9	2,093.9	2,134.9	2,153.1	-	1,931.1	1,937.8	1,982.5	1,999.8	-
542	Meat markets and freezer provisioners	55.7	54.2	55.3	56.4	-	-	-	-	-	-
546	Retail bakeries	129.1	126.4	127.6	128.2	-	118.8	115.5	117.4	117.3	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,687.5	1,683.4	1,677.1	1,684.4	-	1,428.8	1,425.5	1,420.0	1,427.2	-
551,2	New and used car dealers	776.3	773.9	766.9	768.5	-	635.1	633.9	627.1	629.3	-
553	Auto and home supply stores	262.6	262.1	268.4	271.0	-	227.5	226.7	232.4	234.5	-
554	Gasoline service stations	566.4	566.3	561.2	563.4	-	493.7	493.5	491.4	493.4	-
56	APPAREL AND ACCESSORY STORES	941.7	931.8	963.7	964.5	-	804.1	795.6	822.3	824.5	-
561	Men's and boys' clothing and furnishings	132.6	129.5	130.0	131.4	-	112.3	109.5	109.6	111.0	-
562	Women's ready-to-wear stores	341.6	339.8	351.0	349.3	-	294.7	294.0	304.1	303.1	-
565	Family clothing stores	176.4	176.4	181.7	183.7	-	152.9	153.3	158.2	160.3	-
566	Shoe stores	193.6	189.2	199.1	198.4	-	160.8	155.7	163.3	163.4	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	598.6	594.6	602.1	606.1	-	495.4	492.8	497.4	498.9	-
571	Furniture and home furnishings stores	376.0	372.2	377.8	380.3	-	313.1	309.6	312.7	314.6	-
572	Household appliance stores	80.8	81.2	81.1	81.5	-	69.5	70.1	69.1	69.5	-
573	Radio, television, and music stores	141.8	141.2	143.2	144.3	-	112.8	113.1	115.6	114.8	-
58	EATING AND DRINKING PLACES	4,764.1	4,774.1	4,888.3	4,924.1	-	4,331.9	4,387.4	4,510.8	4,533.4	-
59	MISCELLANEOUS RETAIL	1,869.2	1,854.1	1,921.8	1,919.8	-	1,634.2	1,618.6	1,674.9	1,670.0	-
591	Drug stores and proprietary stores	490.1	484.5	478.2	480.5	-	444.5	438.6	431.9	433.9	-
592	Liquor stores	127.8	128.2	127.6	129.9	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	572.0	570.3	611.4	614.6	-	486.7	484.7	520.4	521.2	-
596	Nonstore retailers	255.6	253.1	264.0	267.2	-	237.8	235.4	243.2	245.1	-
598	Fuel and ice dealers	101.7	100.7	101.2	101.2	-	85.3	84.1	84.0	83.9	-
599	Retail stores, nec.	261.4	257.7	281.4	268.8	-	218.7	215.3	238.2	225.3	-
-	FINANCE, INSURANCE, AND REAL										
	ESTATE	5,206	5,234	5,326	5,383	5,408	3,953	3,979	4,024	4,076	4,097
60	BANKING	1,575.3	1,585.1	1,616.9	1,634.2	-	1,214.2	1,222.9	1,235.7	1,251.0	-
602	Commercial and stock savings banks	1,437.5	1,446.1	1,473.8	1,489.0	-	1,101.1	1,108.6	1,120.1	1,133.9	-
61	CREDIT AGENCIES OTHER THAN BANKS	559.4	564.6	579.6	581.3	-	421.1	426.4	440.8	441.7	-
612	Savings and loan associations	244.0	247.9	267.4	268.1	-	135.1	188.5	202.9	233.3	-
614	Personal credit institutions	203.6	203.3	199.2	198.2	-	152.4	152.8	153.9	153.1	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	221.8	224.1	241.6	246.0	-	-	-	-	-	-
621	Security brokers and dealers	179.3	181.5	197.8	201.5	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,225.2	1,232.5	1,237.6	1,240.9	-	858.3	862.9	857.7	850.9	-
631	Life insurance	531.6	534.5	536.1	537.5	-	324.8	327.7	333.4	335.8	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	142.2	143.8	144.8	145.1	-	114.3	115.7	115.2	115.5	-
633	Fire, marine, and casualty insurance	481.4	484.1	483.2	484.8	-	364.1	364.3	352.0	352.1	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	454.1	455.9	465.1	469.0	-	-	-	-	-	-
65	REAL ESTATE	1,032.5	1,033.2	1,038.3	1,063.6	-	-	-	-	-	-
651	Real estate operators and lessors	473.1	472.9	476.9	490.4	-	-	-	-	-	-
653	Real estate agents and managers	392.9	392.8	399.8	398.9	-	-	-	-	-	-
655	Subdividers and developers	145.4	146.1	149.8	152.4	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC	21.0	21.0	21.0	21.2	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES	116.6	117.9	125.5	126.4	-	-	-	-	-	-
-	SERVICES	18,013	18,145	18,633	18,772	18,858	16,047	16,176	16,581	16,703	16,777
70	HOTELS AND OTHER LODGING PLACES	1,158.3	1,210.4	1,125.2	1,169.8	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,117.9	1,146.4	1,089.3	1,123.8	-	1,029.5	1,057.1	999.0	1,030.2	-
72	PERSONAL SERVICES	889.4	883.8	887.2	886.1	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	357.0	354.5	355.4	357.1	-	318.8	317.2	317.6	319.0	-
723	Beauty shops	284.4	286.3	284.9	282.6	-	265.1	266.4	265.2	262.0	-
726	Funeral service and crematories	70.4	70.3	72.4	72.7	-	-	-	-	-	-
73	BUSINESS SERVICES	3,079.7	3,084.2	3,288.5	3,324.0	-	2,685.8	2,690.3	2,878.2	2,907.4	-
731	Advertising	152.8	154.3	155.8	157.8	-	115.9	117.1	119.3	121.4	-
732	Credit reporting and collection	73.5	73.5	72.1	72.3	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	119.3	118.0	126.5	129.0	-	-	-	-	-	-
734	Services to buildings	501.0	498.6	520.0	520.9	-	454.9	453.2	471.4	473.6	-
736	Personnel supply services	534.2	534.9	605.3	608.9	-	-	-	-	-	-
737	Computer and data processing services	305.6	308.3	335.4	343.0	-	255.1	257.4	280.1	285.8	-
75	AUTO REPAIR, SERVICES, AND GARAGES	576.3	571.6	576.4	578.5	-	492.2	486.3	491.3	492.6	-
753	Automotive repair shops	352.8	352.7	352.8	354.7	-	300.1	299.7	298.6	299.6	-
76	MISCELLANEOUS REPAIR SERVICES	285.9	284.4	294.1	294.6	-	245.6	244.1	245.9	247.0	-
78	MOTION PICTURES	232.9	236.9	211.0	220.0	-	204.8	211.0	179.9	188.5	-
781	Motion picture production and services	83.4	83.0	70.1	68.4	-	68.4	70.4	57.3	55.1	-
783	Motion picture theaters	137.8	142.5	130.1	140.9	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	876.6	889.5	852.8	927.1	-	803.5	816.0	774.3	847.9	-
80	HEALTH SERVICES	5,277.9	5,310.3	5,481.0	5,546.5	-	4,716.7	4,746.0	4,898.1	4,954.6	-
801	Offices of physicians	746.7	754.4	775.3	783.8	-	613.3	619.6	635.6	646.2	-
802	Offices of dentists	340.2	340.1	353.1	357.6	-	296.4	296.1	311.1	315.3	-
805	Nursing and personal care facilities	1,007.5	1,010.4	1,041.4	1,053.5	-	907.9	910.6	941.3	953.9	-
806	Hospitals	2,750.0	2,769.9	2,852.5	2,889.6	-	2,524.3	2,543.4	2,613.3	2,649.9	-
81	LEGAL SERVICES	505.7	513.7	527.1	548.4	-	435.2	442.5	450.3	459.3	-
82	EDUCATIONAL SERVICES	1,032.0	979.8	1,162.7	1,051.8	-	-	-	-	-	-
821	Elementary and secondary schools	289.8	263.9	305.2	292.8	-	-	-	-	-	-
822	Colleges and universities	625.8	601.8	734.9	638.7	-	-	-	-	-	-
83	SOCIAL SERVICES	1,138.0	1,199.1	1,191.9	1,178.9	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,564.2	1,567.1	1,595.8	1,579.8	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	995.6	1,010.2	1,027.6	1,042.4	-	831.5	843.7	858.8	872.3	-
891	Engineering and architectural services	547.5	553.6	563.9	575.7	-	466.6	472.7	478.4	493.2	-
893	Accounting, auditing, and bookkeeping	315.8	320.0	330.9	333.4	-	254.7	257.6	269.2	267.4	-
-	GOVERNMENT	16,477	15,611	16,414	16,194	15,488	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,995	2,949	2,782	2,825	2,831	-	-	-	-	-
-	Executive, by agency ⁴	2,939.1	2,893.1	2,727.7	2,769.1	-	-	-	-	-	-
-	Department of Defense	909.8	911.5	908.9	931.4	-	-	-	-	-	-
-	Postal Service	661.7	667.3	659.4	661.8	-	-	-	-	-	-
-	Other executive agencies	1,367.6	1,314.3	1,159.4	1,175.9	-	-	-	-	-	-
-	Legislative	41.3	41.5	39.3	40.4	-	-	-	-	-	-
-	Judicial	14.6	14.8	15.1	15.2	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	FEDERAL GOVERNMENT—Continued										
	Federal Government, by industry										
—	Manufacturing activities	109.1	108.9	108.1	110.5	—	—	—	—	—	
3731	Shipbuilding and repairing	56.7	56.5	57.5	58.4	—	—	—	—	—	
—	Transportation and public utilities, except Postal Service	41.5	41.5	40.7	41.1	—	—	—	—	—	
—	Services	418.7	423.4	404.9	403.7	—	—	—	—	—	
806	Federal government hospitals	237.6	238.6	229.9	230.8	—	—	—	—	—	
—	STATE AND LOCAL GOVERNMENT	13,482	12,662	13,632	13,369	12,657	—	—	—	—	
—	State government	3,493.2	3,417.8	3,612.4	3,465.5	—	—	—	—	—	
806	State government hospitals	534.3	537.0	532.0	533.8	—	—	—	—	—	
82	State education	1,264.5	1,167.4	1,424.5	1,257.2	—	—	—	—	—	
—	General administration including executive, legislative, and judicial functions	1,049.0	1,061.2	1,029.8	1,038.9	—	—	—	—	—	
—	Local government	9,988.6	9,244.2	10,019.5	9,903.8	—	—	—	—	—	
—	Transportation and public utilities	619.0	624.7	635.3	639.4	—	—	—	—	—	
806	Local government hospitals	606.5	610.4	624.0	630.9	—	—	—	—	—	
82	Local education	5,291.7	4,340.3	5,458.2	5,231.4	—	—	—	—	—	
—	General administration including executive, legislative, and judicial functions	3,061.2	3,215.6	2,928.6	3,022.6	—	—	—	—	—	

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 1980 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustment" in the Explanatory notes of this publication.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	Apr. 1980	May 1980	Mar. 1981	Apr. 1981	May 1981
	TOTAL	38,323	38,310	38,914	39,143	39,301
	PRIVATE SECTOR	30,250	30,309	30,885	31,124	31,312
	MINING	100	102	119	113	115
10	METAL MINING	9.0	9.3	9.4	9.1	9.3
11 12	COAL MINING	10.3	10.6	11.6	4.4	4.5
13	OIL AND GAS EXTRACTION	71.4	72.8	87.4	89.2	92.6
131.2	Crude petroleum, natural gas, and natural gas liquids	46.5	47.3	56.3	57.8	58.7
138	Oil and gas field services	24.9	25.5	31.1	31.4	33.9
14	NONMETALLIC MINERALS, EXCEPT FUELS	9.5	9.6	9.7	9.3	10.3
142	Crushed and broken stone	2.7	2.7	2.6	2.6	2.7
144	Sand and gravel	3.1	3.2	3.1	3.2	3.2
	CONSTRUCTION	371	374	387	391	395
15	GENERAL BUILDING CONTRACTORS	132.5	132.0	137.6	138.6	138.1
152	Residential building construction	78.4	78.1	80.7	82.0	81.3
153	Operative builders	14.3	13.8	14.3	14.9	14.8
154	Nonresidential building construction	39.8	40.1	42.1	41.7	41.5
16	HEAVY CONSTRUCTION CONTRACTORS	58.6	61.2	57.2	59.2	51.4
161	Highway and street construction	16.6	18.3	14.5	15.9	17.1
162	Heavy construction, except highway	42.0	42.9	42.7	43.3	44.3
17	SPECIAL TRADE CONTRACTORS	180.3	180.9	191.8	193.6	195.5
171	Plumbing, heating, air conditioning	49.8	50.1	52.2	52.9	53.7
172	Painting, paper hanging, decorating	11.6	11.4	12.4	12.5	12.8
173	Electrical work	33.0	33.0	36.5	36.6	36.7
174	Masonry, stonework, and plastering	20.4	20.9	22.9	22.6	23.2
175	Carpentering and flooring	14.3	14.2	15.6	15.6	15.2
176	Roofing and sheet metal work	13.1	13.1	13.6	13.6	13.7
	MANUFACTURING	6,387	6,287	6,294	6,333	6,371
24, 25, 32-39	DURABLE GOODS	3,078	2,996	3,024	3,051	3,055
20-23, 26-31	NONDURABLE GOODS	3,309	3,291	3,270	3,282	3,315
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	104.2	99.1	103.5	105.2	107.6
241	Logging camps and logging contractors	5.0	5.0	5.3	5.3	5.5
242	Sawmills and planing mills	21.6	20.3	20.0	20.0	20.5
2421	Sawmills and planing mills, general	15.1	14.0	14.2	14.1	14.4
243	Millwork, plywood, and structural members	41.8	39.2	42.7	43.7	44.7
244	Wood containers	6.8	7.1	6.9	6.9	7.3
245	Wood buildings and mobile homes	8.4	7.6	8.0	8.5	8.7
249	Miscellaneous wood products	20.6	19.9	20.6	20.8	20.8
25	FURNITURE AND FIXTURES	144.1	137.9	142.9	145.1	144.6
251	Household furniture	104.9	100.2	102.3	104.8	104.2
2511	Wood household furniture	43.8	43.2	44.2	44.3	44.3
2512	Upholstered household furniture	35.0	33.0	34.1	35.1	34.9
2515	Mattresses and bedsprings	8.6	7.9	8.4	8.3	8.3
252	Office furniture	12.7	12.6	13.1	13.0	13.1
253	Public building and related furniture	5.2	5.1	5.2	5.2	5.3
254	Partitions and fixtures	10.8	9.9	10.5	10.9	10.8
259	Miscellaneous furniture and fixtures	10.5	10.1	11.2	11.2	11.2
32	STONE, CLAY, AND GLASS PRODUCTS	129.7	126.9	125.3	126.4	127.9
322	Glass and glassware, pressed or blown	42.3	42.2	40.4	40.7	41.2
3221	Glass containers	23.5	23.5	22.5	22.6	23.2
3229	Pressed and blown glass, nec	18.8	18.7	17.9	18.1	18.0
323	Products of purchased glass	13.6	13.3	13.2	13.2	13.2
324	Cement, hydraulic	1.6	1.6	1.7	1.7	1.7
325	Structural clay products	6.8	6.4	6.2	6.5	6.6
326	Pottery and related products	16.1	15.7	14.7	14.4	14.5
327	Concrete, gypsum, and plaster products	15.2	15.1	14.6	14.9	15.2
329	Misc. nonmetallic mineral products	31.4	30.2	31.7	32.1	32.5
33	PRIMARY METAL INDUSTRIES	131.5	123.5	125.2	126.8	127.2
331	Blast furnace and basic steel products	40.2	40.2	40.5	41.6	42.3
3312	Blast furnaces and steel mills	32.2	30.6	30.6	31.6	32.0
332	Iron and steel foundries	19.5	18.6	18.3	18.3	18.3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Apr- 1980	May 1980	Mar- 1981	Apr- 1981	May 1981
PRIMARY METAL INDUSTRIES —Continued						
3321	Gray iron foundries	8.9	8.6	8.9	8.9	9.0
3322	Malleable iron foundries	1.3	1.2	1.3	1.1	1.1
3325	Steel foundries, nec	5.5	5.3	4.8	4.8	4.8
333	Primary nonferrous metals	5.2	5.4	5.1	5.2	5.2
3334	Primary aluminum	2.2	2.3	2.2	2.3	2.3
335	Nonferrous rolling and drawing	42.4	39.2	39.8	40.0	39.6
3351	Copper rolling and drawing	3.7	3.3	3.5	3.5	3.5
3353	Aluminum sheet, plate, and foil	4.3	4.3	3.9	4.0	4.0
3357	Nonferrous wire drawing and insulating	25.6	23.1	24.3	24.4	23.9
336	Nonferrous foundries	15.9	14.3	15.5	15.8	15.3
3361	Aluminum foundries	8.1	7.3	8.0	8.0	8.1
34	FABRICATED METAL PRODUCTS	346.9	330.8	334.2	338.1	339.5
341	Metal cans and shipping containers	13.6	13.2	12.5	12.7	12.8
3411	Metal cans	11.8	11.4	10.7	10.9	11.0
342	Cutlery, hand tools, and hardware	58.6	56.1	57.6	58.3	58.0
3423, 5	Hand and edge tools, and hand saws and blades	17.2	16.6	16.5	16.3	16.5
3429	Hardware, nec	34.3	32.4	34.3	35.2	35.0
343	Plumbing and heating, except electric	18.2	15.5	16.3	16.5	16.5
344	Fabricated structural metal products	71.9	69.7	70.3	71.4	72.0
3441	Fabricated structural metal	7.7	7.6	7.3	7.4	7.4
3442	Metal doors, sash, and trim	19.9	18.4	19.4	19.5	20.2
3443	Fabricated plate work (boiler shops)	17.9	18.1	18.6	18.7	18.7
3444	Sheet metal work	16.3	15.7	15.8	15.0	16.0
345	Screw machine products, bolts, etc.	25.9	24.8	23.5	23.7	23.7
3451	Screw machine products	13.0	12.4	12.1	12.2	12.3
3452	Bolts, nuts, rivets, and washers	12.9	12.4	11.4	11.5	11.4
346	Metal forgings and stampings	53.4	49.5	52.0	53.3	53.9
3462	Iron and steel forgings	4.3	4.1	4.3	4.2	4.3
3465	Automotive stampings	12.5	11.0	12.5	13.3	13.9
3469	Metal stampings, nec	34.0	31.9	32.7	33.2	33.1
347	Metal services, nec	25.2	24.4	24.1	24.5	24.3
3471	Plating and polishing	17.3	17.0	17.1	17.4	17.3
3479	Metal coating and allied services	7.9	7.4	7.0	7.1	7.0
348	Ordnance and accessories, nec	17.4	17.2	17.2	17.3	17.3
349	Misc. fabricated metal products	62.7	60.4	60.2	60.4	51.0
3494	Valves and pipe fittings	24.4	23.8	22.3	23.0	23.1
3496	Misc. fabricated wire products	15.3	14.4	14.6	14.7	14.7
35	MACHINERY, EXCEPT ELECTRICAL	500.3	495.8	502.3	503.1	505.3
351	Engines and turbines	26.3	25.3	23.4	22.7	22.9
3511	Turbines and turbine generator sets	6.1	6.0	6.1	6.0	5.8
3519	Internal combustion engines, nec	20.2	19.3	17.3	16.7	17.1
352	Farm and garden machinery	28.2	28.8	28.7	28.1	26.7
3523	Farm machinery and equipment	21.0	22.8	21.2	20.9	20.6
353	Construction and related machinery	48.2	47.8	51.2	51.2	51.5
3531	Construction machinery	14.6	14.2	14.9	15.0	15.2
3533	Oil field machinery	12.9	13.3	15.0	15.1	15.3
354	Metalworking machinery	59.3	58.6	57.0	57.1	58.3
3541	Machine tools, metal cutting types	10.7	10.3	10.3	10.3	10.5
3544	Special dies, tools, jigs, and fixtures	15.6	15.6	15.1	15.5	16.2
3545	Machine tool accessories	14.4	14.2	13.3	13.6	13.0
355	Special industry machinery	31.2	31.1	30.6	30.5	30.3
3551	Food products machinery	6.7	6.6	6.0	5.9	5.8
3552	Textile machinery	5.3	5.3	4.9	5.0	4.8
3555	Printing trades machinery	6.6	6.6	7.2	7.3	7.3
356	General industrial machinery	64.4	63.0	62.9	62.8	62.7
3561	Pumps and pumping equipment	11.9	11.7	11.5	11.5	11.5
3562	Ball and roller bearings	14.3	14.0	14.2	14.2	14.0
357	Office and computing machines	151.5	152.7	159.1	159.9	160.8
3573	Electronic computing equipment	123.3	124.0	131.4	132.0	132.8
358	Refrigeration and service machinery	39.8	37.9	39.4	39.5	40.1
3585	Refrigeration and heating equipment	26.9	25.0	27.0	27.0	27.3
359	Misc. machinery, except electrical	51.4	50.6	50.0	51.2	51.9
3599	Machinery, except electrical, nec	40.7	40.2	38.9	39.5	40.2
36	ELECTRIC AND ELECTRONIC EQUIPMENT	916.8	894.9	904.0	910.3	912.1
361	Electric distributing equipment	46.5	45.7	46.2	46.2	46.3
3612	Transformers	19.8	19.3	19.1	18.7	18.5
3613	Switchgear and switchboard apparatus	26.7	26.4	27.1	27.5	27.7
362	Electrical industrial apparatus	95.3	91.7	90.9	91.7	91.8
3621	Motors and generators	52.2	48.8	50.3	50.8	50.7
3622	Industrial controls	30.3	30.2	28.3	28.5	28.6
363	Household appliances	60.4	57.1	61.3	61.3	62.3
3632	Household refrigerators and freezers	9.5	8.5	11.1	11.2	11.4
3633	Household laundry equipment	4.2	3.5	4.1	4.2	4.4
3634	Electric housewares and fans	28.4	27.9	28.5	28.4	28.2
364	Electric lighting and wiring equipment	101.5	97.8	96.0	96.7	96.0
3641	Electric lamps	23.4	22.8	21.6	21.3	20.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1980	May 1980	Mar. 1981	Apr. 1981	May 1981
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	45.1	44.3	42.4	43.2	43.6
365	Radio and TV receiving equipment	59.2	55.4	58.2	58.0	58.0
3651	Radio and TV receiving sets	44.9	41.9	44.9	44.5	44.5
366	Communication equipment	207.2	205.7	206.9	207.0	207.4
3661	Telephone and telegraph apparatus	82.3	80.9	75.4	75.3	74.9
3662	Radio and TV communication equipment	124.9	124.8	131.5	131.7	132.5
367	Electronic components and accessories	292.8	290.3	286.8	289.8	290.3
3671-3	Electronic tubes	16.1	16.1	16.4	16.5	16.4
3674	Semiconductors and related devices	106.7	107.0	108.1	109.4	109.3
3679	Electronic components, nec	116.8	115.1	115.2	116.2	117.3
369	Misc. electrical equipment and supplies	53.9	51.2	57.7	59.0	50.0
3694	Engine electrical equipment	24.5	22.7	28.4	29.4	30.2
37	TRANSPORTATION EQUIPMENT	296.8	286.3	295.4	301.0	303.4
371	Motor vehicles and equipment	111.1	101.8	100.5	104.2	105.2
3711	Motor vehicles and car bodies	40.1	40.4	35.1	36.9	37.3
3713	Truck and bus bodies	4.7	4.2	3.7	3.9	3.5
3714	Motor vehicle parts and accessories	63.0	58.0	58.1	59.8	50.7
372	Aircraft and parts	118.4	118.5	124.4	124.5	125.2
3721	Aircraft	64.0	63.6	68.5	69.1	69.8
3724	Aircraft engines and engine parts	27.8	28.1	28.8	28.2	28.2
3728	Aircraft equipment, nec	26.6	26.8	27.1	27.2	27.2
373	Ship and boat building and repairing	21.9	21.1	23.6	23.3	23.8
3731	Ship building and repairing	16.0	15.8	16.9	17.0	16.8
374	Railroad equipment	7.1	7.1	5.5	5.6	5.5
376	Guided missiles, space vehicles, parts	23.6	23.8	25.9	26.5	26.7
3761	Guided missiles and space vehicles	19.6	19.8	21.5	22.0	22.2
379	Miscellaneous transportation equipment	7.0	6.6	7.3	7.7	8.3
38	INSTRUMENTS AND RELATED PRODUCTS	305.9	302.7	302.5	304.1	305.3
381	Engineering and scientific instruments	23.7	23.5	24.5	24.4	24.4
382	Measuring and controlling devices	107.2	105.4	105.3	106.7	107.0
3822	Environmental controls	25.8	24.8	23.8	23.9	23.6
3823	Process control instruments	17.7	17.6	18.9	19.1	19.3
3825	Instruments to measure electricity	46.9	46.5	48.0	48.3	48.6
383	Optical instruments and lenses	11.6	11.5	11.2	11.2	11.3
384	Medical instruments and supplies	84.9	84.8	86.3	86.2	85.4
3841	Surgical and medical instruments	41.4	41.5	41.3	42.1	42.3
3842	Surgical appliances and supplies	35.5	35.4	36.1	35.8	35.8
385	Ophthalmic goods	26.3	26.0	25.0	25.2	25.4
386	Photographic equipment and supplies	37.4	37.8	38.8	39.3	39.9
387	Watches, clocks, and watchcases	14.8	13.7	11.4	11.1	10.9
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	202.2	198.2	188.5	190.7	193.1
391	Jewelry, silverware, and plated ware	25.3	25.1	25.1	25.4	25.4
393	Musical instruments	10.0	8.8	10.3	10.3	10.3
394	Toys and sporting goods	64.2	63.8	57.1	58.7	53.4
3942.4	Dolls, games, toys, and children's vehicles	32.2	33.7	30.5	31.4	32.9
3949	Sporting and athletic goods, nec	32.0	30.1	26.6	27.3	27.5
395	Pens, pencils, office and art supplies	21.1	20.8	20.4	20.6	20.9
396	Costume jewelry and notions	31.1	30.4	27.3	27.2	27.4
399	Miscellaneous manufactures	50.5	49.3	48.3	48.5	48.8
NONDURABLE GOODS						
20	FOOD AND KINDRED PRODUCTS	473.5	479.4	471.5	472.3	478.3
201	Meat products	113.2	115.2	111.5	111.9	113.5
2011	Meat packing plants	29.1	29.4	28.1	28.5	28.5
2013	Sausages and other prepared meats	20.2	20.4	19.9	20.1	20.5
2016	Poultry dressing plants	56.5	58.2	56.8	56.7	57.6
202	Dairy products	37.0	37.8	36.6	37.3	37.3
2026	Fluid milk	17.2	17.6	16.9	17.3	17.4
203	Preserved fruits and vegetables	87.1	89.9	85.9	83.6	86.3
2032	Canned specialties	8.8	8.1	8.8	8.4	8.5
2033	Canned fruits and vegetables	26.9	27.1	26.3	24.4	25.5
2037	Frozen fruits and vegetables	19.6	21.5	18.5	19.0	19.9
204	Grain mill products	28.8	29.0	29.4	28.8	29.4
205	Bakery products	59.4	59.3	57.3	57.5	57.3
2051	Bread, cake, and related products	39.3	39.7	38.1	38.4	38.7
2052	Cookies and crackers	20.1	19.6	19.2	19.1	18.6
206	Sugar and confectionery products	38.5	37.9	40.3	40.5	40.3
207	Fats and oils	5.8	6.0	6.1	6.0	6.1
208	Beverages	40.0	40.4	40.8	41.5	41.4
2082	Malt beverages	7.1	7.1	7.3	7.5	7.5
2086	Bottled and canned soft drinks	17.8	18.3	18.5	19.2	19.1
209	Misc. foods and kindred products	63.7	63.9	63.6	65.2	66.7
21	TOBACCO MANUFACTURES	21.8	21.9	24.6	23.3	23.0
211	Cigarettes	13.9	13.9	15.1	14.9	14.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Apr. 1980	May 1980	Mar. 1981	Apr. 1981	May 1981
22	TEXTILE MILL PRODUCTS	413.3	407.9	396.0	398.1	399.5
221	Weaving mills, cotton	66.2	66.2	62.5	61.8	51.5
222	Weaving mills, synthetics	50.3	49.6	48.9	49.0	48.9
223	Weaving and finishing mills, wool	8.0	7.7	7.3	7.4	7.4
224	Narrow fabric mills	14.3	13.6	14.2	14.4	14.5
225	Knitting mills	143.9	143.3	138.2	140.1	141.4
2251	Women's hosiery, except socks	24.1	24.0	22.1	22.2	22.3
2252	Hosiery, nec	24.1	23.8	24.2	24.4	24.8
2253	Knit outerwear mills	48.2	48.7	47.8	49.4	50.4
2254	Knit underwear mills	23.7	23.9	23.6	23.4	23.3
2257	Circular knit fabric mills	13.9	13.2	12.1	12.2	12.0
226	Textile finishing, except wool	23.1	22.9	21.8	21.7	21.5
2261	Finishing plants, cotton	9.7	9.7	9.3	9.0	8.3
2262	Finishing plants, synthetic	6.4	6.3	6.3	6.5	6.5
227	Floor covering mills	23.6	22.5	22.0	22.2	22.6
228	Yarn and thread mills	63.5	62.5	61.6	61.8	62.1
2281	Yarn mills, except wool	39.5	38.8	39.0	39.2	39.4
2282	Throwing and winding mills	12.8	12.1	12.0	11.9	11.9
229	Miscellaneous textile goods	20.4	19.6	19.5	19.7	19.5
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,038.0	1,033.7	1,009.0	1,013.3	1,020.9
231	Men's and boys' suits and coats	59.2	61.5	59.4	59.6	53.5
232	Men's and boys' furnishings	310.0	311.1	291.0	296.1	298.2
2321	Men's and boys' shirts and nightwear	87.5	88.4	82.7	84.1	84.3
2327	Men's and boys' separate trousers	64.3	64.4	61.4	62.0	52.4
2328	Men's and boys' work clothing	88.0	88.4	81.6	84.2	85.6
233	Women's and misses' outerwear	365.8	359.6	354.9	353.5	354.4
2331	Women's and misses' blouses and waists	55.9	55.4	55.4	55.1	54.9
2335	Women's and misses' dresses	132.6	125.1	125.3	123.6	121.0
2337	Women's and misses' suits and coats	51.9	55.6	49.0	47.4	52.4
2339	Women's and misses' outerwear, nec	125.4	123.5	125.2	127.4	125.1
234	Women's and children's undergarments	78.0	77.7	75.3	76.0	76.7
2341	Women's and children's underwear	62.9	62.8	60.9	61.5	62.1
2342	Brassieres and allied garments	15.1	14.9	14.4	14.4	14.6
236	Children's outerwear	55.9	56.3	56.0	55.4	56.0
2361	Children's dresses and blouses	24.4	24.5	24.9	24.1	24.5
238	Misc. apparel and accessories	43.5	43.3	42.2	42.3	42.1
239	Misc. fabricated textile products	110.5	108.8	115.2	115.6	117.5
2391	Curtains and draperies	22.1	21.8	21.3	21.5	22.2
2392	House furnishings, nec	31.7	31.5	30.7	30.7	31.0
2396	Automotive and apparel trimmings	12.6	12.3	18.1	18.1	19.2
26	PAPER AND ALLIED PRODUCTS	160.9	159.6	159.3	160.5	161.5
261, 2,6	Paper and pulp mills	27.2	27.6	27.3	27.5	27.9
262	Paper mills, except building paper	24.2	24.6	24.5	24.7	25.1
263	Paperboard mills	6.0	5.9	6.0	5.9	5.9
264	Misc. converted paper products	78.0	76.9	77.3	78.0	78.3
265	Paperboard containers and boxes	49.7	49.2	48.6	49.1	49.4
27	PRINTING AND PUBLISHING	497.4	496.7	508.6	510.4	510.2
271	Newspapers	157.0	157.3	160.8	161.1	162.6
272	Periodicals	52.7	52.7	54.5	53.8	53.6
273	Books	55.5	55.0	55.9	56.4	55.5
274	Miscellaneous publishing	25.9	26.6	27.6	28.0	27.6
275	Commercial printing	131.3	130.1	136.5	137.4	137.2
2751	Commercial printing, letterpress	55.6	54.9	56.8	57.4	57.4
2752	Commercial printing, lithographic	70.0	69.7	73.3	73.5	73.3
276	Manifold business forms	16.1	15.9	15.4	15.4	15.6
278	Blankbooks and bookbinding	32.9	32.7	32.3	32.7	32.3
279	Printing trade services	10.8	10.7	11.1	11.2	11.2
28	CHEMICALS AND ALLIED PRODUCTS	275.9	275.7	281.4	280.2	281.8
281	Industrial inorganic chemicals	23.7	24.0	24.4	24.4	24.5
2819	Industrial inorganic chemicals, nec	15.8	16.0	16.5	16.5	16.6
282	Plastics materials and synthetics	45.5	44.6	43.4	43.3	43.3
2821	Plastics materials and resins	11.3	11.2	11.5	11.4	11.5
2824	Organic fibers, noncellulosic	26.9	26.1	25.0	25.0	24.9
283	Drugs	81.3	81.7	85.1	85.2	85.9
2834	Pharmaceutical preparations	68.5	68.6	71.4	71.5	71.9
284	Soap, cleaners, and toilet goods	55.3	55.2	57.7	56.2	56.3
2841	Soap and other detergents	9.4	9.5	9.3	9.1	9.1
2844	Toilet preparations	32.3	31.9	34.5	33.4	33.5
285	Paints and allied products	12.7	12.8	12.4	12.5	12.6
286	Industrial organic chemicals	25.9	25.8	26.0	26.0	26.0
2861,9	Gum, wood, and industrial organic chemicals, nec	21.2	21.0	21.6	21.6	21.7
287	Agricultural chemicals	10.8	11.1	10.8	10.9	11.2
289	Miscellaneous chemical products	20.7	20.5	21.6	21.7	22.0

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1980	May 1980	Mar. 1981	Apr. 1981	May 1981
29	PETROLEUM AND COAL PRODUCTS	23.5	26.7	29.1	29.5	30.1
291	Petroleum refining	18.3	21.5	24.2	24.5	25.0
30	RUBBER AND MISC. PLASTICS PRODUCTS	261.5	246.5	253.0	256.5	259.2
301	Tires and inner tubes	12.3	11.8	11.6	11.6	11.7
302	Rubber and plastics footwear	13.6	13.1	12.5	12.6	12.5
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.1	5.8	5.8	6.0	6.1
306	Fabricated rubber products, nec	37.5	35.3	35.7	36.3	36.9
307	Miscellaneous plastics products	192.0	180.5	187.4	190.0	192.0
31	LEATHER AND LEATHER PRODUCTS	143.3	142.5	137.2	137.6	140.6
311	Leather tanning and finishing	2.7	2.7	2.9	2.9	3.0
314	Footwear, except rubber	96.6	97.3	93.2	93.4	95.5
3143	Men's footwear, except athletic	34.6	34.6	35.5	35.8	36.1
3144	Women's footwear, except athletic	39.9	40.4	35.0	34.7	36.3
316	Luggage	9.1	8.8	8.2	8.3	8.3
317	Handbags and personal leather goods	21.2	20.6	19.7	19.3	20.2
	TRANSPORTATION AND PUBLIC UTILITIES	1,279	1,289	1,318	1,322	1,330
41	LOCAL AND INTERURBAN PASSENGER TRANSPORT	66.2	70.2	72.7	71.8	73.2
411	Local and suburban transportation	12.6	13.0	15.3	15.3	15.5
412	Taxicabs	6.8	6.9	7.3	7.3	7.2
413	Intercity highway transportation	4.9	5.0	5.0	5.0	5.0
415	School buses	39.2	42.6	42.4	41.4	42.8
42	TRUCKING AND WAREHOUSING	150.5	149.7	149.1	149.2	150.0
421,3	Trucking and trucking terminals	134.7	133.8	134.4	134.7	135.5
422	Public warehousing	15.8	15.9	14.7	14.5	14.5
44	WATER TRANSPORTATION	19.9	19.6	20.7	21.4	21.9
45	TRANSPORTATION BY AIR	147.6	149.2	149.8	150.6	151.8
451,2	Air transportation	139.1	140.7	141.3	142.1	143.1
46	PIPE LINES, EXCEPT NATURAL GAS	2.5	2.7	3.0	3.1	3.1
47	TRANSPORTATION SERVICES	91.9	92.5	96.3	97.2	97.5
48	COMMUNICATION	626.2	627.9	634.5	636.9	639.5
481	Telephone communication	543.1	544.3	547.6	548.6	550.1
483	Radio and television broadcasting	62.3	62.5	63.8	64.7	65.2
49	ELECTRIC, GAS, AND SANITARY SERVICES	150.1	152.3	162.1	163.3	164.4
491	Electric services	69.6	70.6	76.2	76.8	77.2
492	Gas production and distribution	35.2	35.9	37.5	37.9	38.4
493	Combination utility services	35.1	35.5	37.4	37.7	37.9
495	Sanitary services	5.4	5.4	6.0	6.1	5.9
	WHOLESALE AND RETAIL TRADE	8,730	8,807	8,817	8,903	8,980
50,51	WHOLESALE TRADE	1,349	1,357	1,373	1,377	1,383
50	WHOLESALE TRADE-DURABLE GOODS	758	759	764	768	772
501	Motor vehicles and automotive equipment	90.9	90.1	88.3	88.6	88.7
502	Furniture and home furnishings	43.8	43.4	45.0	44.9	45.4
503	Lumber and construction materials	34.4	34.2	35.6	36.0	36.5
504	Sporting goods, toys, and hobby goods	23.6	23.8	24.9	25.1	25.4
505	Metals and minerals, except petroleum	29.4	29.9	29.7	29.7	29.9
506	Electrical goods	120.7	120.7	122.3	122.8	123.3
507	Hardware, plumbing, and heating equipment	68.1	67.2	65.4	66.2	66.5
508	Machinery, equipment, and supplies	299.5	301.3	305.5	307.2	308.8
509	Miscellaneous durable goods	47.8	48.3	47.2	47.8	47.8
51	WHOLESALE TRADE-NONDURABLE GOODS	591	598	609	609	611
511	Paper and paper products	45.2	45.5	47.9	48.7	48.8
512	Drugs, proprietaries, and sundries	64.4	64.1	65.5	65.7	65.9
513	Apparel, piece goods, and notions	81.4	81.3	81.8	81.3	81.9
514	Groceries and related products	149.7	156.4	156.2	157.1	158.8
516	Chemicals and allied products	32.4	32.9	34.9	35.3	34.8
517	Petroleum and petroleum products	49.7	50.6	51.8	52.0	51.9
518	Beer, wine, and distilled beverages	20.7	20.9	21.9	22.0	22.0
519	Miscellaneous nondurable goods	113.6	114.3	113.9	114.3	114.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1980	May 1980	Mar. 1981	Apr. 1981	May 1981
52-59	RETAIL TRADE	7,381	7,450	7,444	7,525	7,597
52	BUILDING MATERIALS AND GARDEN SUPPLIES	164.0	166.5	161.8	167.9	169.3
521	Lumber and other building materials	63.4	64.5	64.4	65.8	57.1
525	Hardware stores	54.6	54.6	54.7	54.9	55.8
53	GENERAL MERCHANDISE STORES	1,482.3	1,476.0	1,428.2	1,425.2	1,420.5
531	Department stores	1,211.5	1,201.2	1,164.0	1,154.2	1,146.6
533	Variety stores	192.7	195.5	187.5	193.1	194.1
539	Misc. general merchandise stores	78.1	79.3	76.7	77.9	79.3
54	FOOD STORES	995.0	1,003.6	1,033.6	1,039.1	1,044.6
541	Grocery stores	829.4	838.4	865.9	867.4	872.9
542	Meat markets and freezer provisioners	18.4	18.6	16.6	17.5	15.9
546	Retail bakeries	79.2	79.8	79.8	80.2	81.4
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	302.5	299.9	298.5	302.8	307.3
551.2	New and used car dealers	116.6	114.0	112.0	113.3	113.9
553	Auto and home supply stores	46.1	46.5	47.2	48.0	48.3
554	Gasoline service stations	123.7	123.7	124.4	125.9	128.9
56	APPAREL AND ACCESSORY STORES	652.1	652.7	661.3	675.7	671.9
561	Men's and boys' clothing and furnishings	57.9	57.7	56.3	58.1	57.9
562	Women's ready-to-wear stores	305.3	306.1	309.9	314.3	313.9
565	Family clothing stores	131.8	132.6	135.7	137.6	138.4
566	Shoe stores	83.6	83.0	81.9	87.2	83.5
57	FURNITURE AND HOME FURNISHING STORES	203.5	201.8	206.1	206.1	206.5
571	Furniture and home furnishings stores	135.5	134.6	137.3	137.5	138.4
572	Household appliance stores	22.4	22.1	23.1	23.0	22.5
573	Radio, television, and music stores	45.6	45.1	45.7	45.6	45.7
58	EATING AND DRINKING PLACES	2,588.5	2,649.6	2,623.7	2,670.4	2,727.3
59	MISCELLANEOUS RETAIL	993.3	1,000.0	1,031.0	1,038.5	1,049.0
591	Drug stores and proprietary stores	301.0	302.7	299.1	300.4	301.3
592	Liquor stores	29.8	29.7	31.0	32.2	33.5
594	Miscellaneous shopping goods stores	341.1	344.6	367.7	365.6	371.6
596	Nonstore retailers	153.7	149.2	162.9	161.3	159.6
598	Fuel and ice dealers	23.4	22.8	24.0	23.5	23.1
599	Retail stores, nec	123.3	130.2	126.7	135.1	139.7
-	FINANCE, INSURANCE, AND REAL ESTATE	3,015	3,020	3,135	3,147	3,159
60	BANKING	1,101.5	1,103.9	1,144.6	1,147.5	1,151.2
602	Commercial and stock savings banks	1,014.9	1,017.0	1,053.7	1,056.0	1,059.0
61	CREDIT AGENCIES OTHER THAN BANKS	372.0	368.2	395.7	396.5	396.9
612	Savings and loan associations	178.4	177.7	197.5	198.1	198.4
614	Personal credit institutions	123.6	121.1	127.5	127.7	127.8
62	SECURITY, COMMODITY BROKERS, AND SERVICES	87.7	88.4	99.6	100.6	101.3
621	Security brokers and dealers	70.4	70.9	81.0	81.9	82.6
63	INSURANCE CARRIERS	740.8	741.1	752.7	753.2	756.1
631	Life insurance	287.1	289.2	295.9	296.7	300.0
632	Medical service and health insurance	102.6	102.7	105.1	105.3	105.1
633	Fire, marine, and casualty insurance	301.0	301.7	302.1	301.7	301.5
64	INSURANCE AGENTS, BROKERS, AND SERVICE	279.7	280.3	290.8	292.8	291.0
65	REAL ESTATE	359.2	364.5	373.4	377.5	392.6
651	Real estate operators and lessors	137.8	140.5	145.7	147.7	149.3
653	Real estate agents and managers	172.8	174.7	176.3	177.1	179.2
655	Subdividers and developers	33.4	34.7	35.7	37.7	39.0
66	COMBINED REAL ESTATE, INSURANCE, ETC	13.7	13.5	13.1	13.0	12.9
67	HOLDING AND OTHER INVESTMENT OFFICES	60.8	60.3	65.2	66.0	66.5
-	SERVICES	10,368	10,430	10,816	10,915	10,961
70	HOTELS AND OTHER LODGING PLACES	585.3	605.0	554.4	593.0	613.7
701	Hotels, motels, and tourist courts	568.0	587.3	537.4	574.7	594.3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1980	May 1980	Mar. 1981	Apr. 1981	May 1981
72	PERSONAL SERVICES	630.7	611.2	620.9	623.9	539.1
721	Laundry, cleaning, and garment services	224.2	225.6	222.6	225.3	226.4
723	Beauty shops	251.5	254.0	252.1	252.9	253.3
726	Funeral service and crematories	18.7	19.3	18.9	18.9	19.1
73	BUSINESS SERVICES	1,308.7	1,309.4	1,401.5	1,415.1	1,426.0
73*	Advertising	71.0	71.6	74.2	73.9	74.6
732	Credit reporting and collection	54.4	53.4	50.7	51.1	51.9
733	Mailing, reproduction, stenographic	58.8	57.4	62.9	62.4	52.5
734	Services to buildings	183.6	183.1	191.3	192.7	137.9
736	Personnel supply services	327.5	331.1	357.9	364.9	367.6
737	Computer and data processing services	141.1	138.6	158.6	159.5	157.5
75	AUTO REPAIR, SERVICES, AND GARAGES	97.5	96.1	97.0	97.4	97.0
753	Automotive repair shops	42.7	42.1	43.1	43.7	43.7
76	MISCELLANEOUS REPAIR SERVICES	59.7	58.8	58.5	57.8	58.3
78	MOTION PICTURES	84.4	83.9	82.4	85.8	86.7
781	Motion picture production and services	27.0	24.7	24.4	22.2	21.9
783	Motion picture theaters	51.6	53.4	52.2	57.6	58.8
79	AMUSEMENT AND RECREATION SERVICES	282.2	312.4	278.3	301.9	332.0
80	HEALTH SERVICES	4,231.0	4,251.6	4,434.5	4,446.9	4,451.3
801	Offices of physicians	577.7	579.3	596.8	600.4	602.2
802	Offices of dentists	286.3	288.3	300.7	302.6	334.1
805	Nursing and personal care facilities	880.4	887.2	918.0	919.9	925.9
806	Hospitals	2,184.9	2,192.6	2,297.0	2,300.4	2,335.2
81	LEGAL SERVICES	347.8	350.4	371.0	374.3	374.2
82	EDUCATIONAL SERVICES	608.6	597.7	646.0	639.5	521.1
821	Elementary and secondary schools	183.2	184.7	201.8	202.1	231.8
822	Colleges and universities	358.0	345.9	374.6	367.7	349.8
83	SOCIAL SERVICES	834.9	850.2	887.8	890.4	330.4
89	MISCELLANEOUS SERVICES	321.4	315.2	347.9	347.0	340.8
891	Engineering and architectural services	111.9	112.6	122.0	121.9	123.1
893	Accounting, auditing, and bookkeeping	151.2	143.8	165.6	165.3	158.7
	GOVERNMENT	8,073	8,001	8,029	8,019	7,989
	FEDERAL GOVERNMENT	1,002	945	876	878	881
	STATE AND LOCAL GOVERNMENT	7,071	7,056	7,153	7,141	7,108
	State government	1,681.7	1,649.4	1,683.7	1,682.5	1,552.1
	Hospitals	335.6	337.2	334.5	334.8	333.5
	State education	704.8	675.4	702.7	701.4	530.3
	General administration including executive, legislative, and judicial functions	432.4	428.4	432.9	433.2	434.2
	Local government	5,389.6	5,406.3	5,469.6	5,458.0	5,445.6
	Transportation and public utilities	96.0	96.9	100.8	101.8	122.7
	Hospitals	486.5	487.3	506.0	505.8	506.9
	Local education	3,575.3	3,586.7	3,625.4	3,615.8	3,606.7
	General administration including executive, legislative, and judicial functions	1,006.4	1,007.9	1,007.2	1,005.6	1,001.3

**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	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June P	July P
TOTAL	89,960	90,219	90,461	90,668	90,844	90,949	91,091	91,253	91,347	91,453	91,564	91,583	91,956
GOODS-PRODUCING	25,151	25,322	25,445	25,521	25,629	25,631	25,647	25,557	25,705	25,703	25,705	25,805	25,922
MINING	1,004	1,008	1,023	1,032	1,052	1,069	1,083	1,091	1,098	950	957	1,112	1,141
CONSTRUCTION	4,270	4,324	4,362	4,379	4,389	4,387	4,390	4,389	4,416	4,413	4,334	4,274	4,253
MANUFACTURING	19,877	19,990	20,050	20,110	20,188	20,175	20,174	20,177	20,191	20,332	20,414	20,423	20,528
DURABLE GOODS	11,859	11,907	11,968	12,013	12,090	12,077	12,084	12,374	12,099	12,207	12,254	12,277	12,339
Lumber and wood products	662	671	680	679	683	687	639	691	692	702	710	699	700
Furniture and fixtures	447	456	462	462	463	464	464	466	467	473	484	487	487
Stone, clay, and glass products	645	651	656	655	658	655	654	654	651	655	658	655	654
Primary metal industries	1,070	1,077	1,092	1,108	1,126	1,137	1,137	1,149	1,141	1,145	1,142	1,143	1,145
Fabricated metal products	1,545	1,567	1,575	1,578	1,582	1,581	1,579	1,577	1,581	1,595	1,504	1,533	1,516
Machinery, except electrical	2,462	2,454	2,463	2,481	2,489	2,490	2,487	2,481	2,490	2,491	2,511	2,522	2,534
Electric and electronic equipment	2,064	2,074	2,078	2,087	2,096	2,103	2,110	2,110	2,117	2,134	2,143	2,149	2,166
Transportation equipment	1,841	1,839	1,843	1,848	1,874	1,839	1,840	1,833	1,849	1,873	1,872	1,835	1,887
Instruments and related products	708	707	709	709	712	712	713	711	712	714	715	718	724
Miscellaneous manufacturing ind.	415	411	410	406	407	409	411	411	409	413	414	415	425
NONDURABLE GOODS	8,018	8,083	8,092	8,097	8,098	8,098	8,090	8,103	8,092	8,125	8,160	8,143	8,189
Food and kindred products	1,708	1,720	1,712	1,711	1,705	1,701	1,696	1,705	1,691	1,697	1,703	1,676	1,684
Tobacco manufactures	70	68	68	69	71	71	71	72	72	72	71	72	72
Textile mill products	828	844	843	845	844	842	841	839	838	842	843	844	852
Apparel and other textile products	1,254	1,263	1,261	1,256	1,253	1,250	1,244	1,243	1,243	1,250	1,258	1,252	1,281
Paper and allied products	682	687	689	691	692	692	691	691	699	691	694	695	697
Printing and publishing	1,255	1,256	1,261	1,262	1,265	1,269	1,259	1,272	1,276	1,280	1,283	1,233	1,286
Chemicals and allied products	1,099	1,097	1,101	1,102	1,103	1,105	1,106	1,109	1,108	1,107	1,109	1,110	1,110
Petroleum and coal products	208	208	208	208	209	209	211	210	210	211	213	212	211
Rubber and misc. plastic products	692	703	717	722	725	729	730	731	734	744	753	757	751
Leather and leather products	222	232	232	231	231	230	231	231	231	231	233	232	235
SERVICE-PRODUCING	64,809	64,897	65,016	65,147	65,215	65,318	65,444	65,631	65,642	65,758	65,859	65,777	65,944
TRANSPORTATION AND PUBLIC UTILITIES	5,119	5,126	5,124	5,129	5,114	5,118	5,124	5,135	5,139	5,151	5,148	5,145	5,151
WHOLESALE AND RETAIL TRADE	20,355	20,413	20,450	20,461	20,464	20,470	20,529	20,500	20,635	20,536	20,714	20,703	20,798
WHOLESALE TRADE	5,261	5,274	5,290	5,296	5,296	5,300	5,305	5,313	5,316	5,333	5,346	5,341	5,352
RETAIL TRADE	15,094	15,139	15,160	15,165	15,168	15,170	15,224	15,237	15,319	15,303	15,368	15,352	15,446
FINANCE, INSURANCE, AND REAL ESTATE	5,173	5,188	5,206	5,221	5,235	5,254	5,268	5,283	5,293	5,316	5,326	5,330	5,344
SERVICES	17,940	17,981	18,043	18,087	18,160	18,240	18,300	18,343	18,371	18,475	18,540	18,553	18,553
GOVERNMENT	16,222	16,189	16,193	16,249	16,242	16,236	16,223	16,240	16,204	16,170	16,131	15,931	16,098
FEDERAL	2,893	2,808	2,784	2,795	2,796	2,800	2,799	2,795	2,731	2,767	2,779	2,731	2,775
STATE AND LOCAL	13,329	13,381	13,409	13,454	13,446	13,436	13,424	13,445	13,423	13,403	13,352	13,250	13,323

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	1980								1981				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
TOTAL	38,094	38,045	38,141	38,269	38,425	38,473	38,570	38,657	38,780	38,877	38,931	38,987	39,088
GOODS-PRODUCING	6,795	6,704	6,681	6,721	6,736	6,754	6,778	6,795	6,806	6,814	6,823	6,828	6,915
MINING	102	103	104	105	107	108	111	113	115	117	119	114	116
CONSTRUCTION	376	375	374	379	381	384	388	390	391	392	394	397	397
MANUFACTURING	6,317	6,226	6,203	6,237	6,248	6,262	6,279	6,292	6,300	6,305	6,310	6,367	6,402
DURABLE GOODS	3,002	2,948	2,934	2,942	2,956	2,973	2,990	3,003	3,008	3,013	3,020	3,054	3,073
Lumber and wood products	100	97	98	101	102	102	102	103	104	104	104	105	108
Furnitures and fixtures	139	136	133	135	137	137	138	139	139	141	141	145	146
Stone, clay, and glass products	127	124	122	124	125	125	126	125	126	127	126	127	128
Primary metal industries	124	121	116	118	121	122	124	124	124	124	124	127	128
Fabricated metal products	331	322	320	326	329	330	330	331	330	331	333	337	341
Machinery, except electrical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Electric and electronic equipment	897	881	876	877	878	882	888	892	897	898	902	912	915
Transportation equipment	286	284	288	288	287	292	296	291	292	294	295	302	303
Instruments and related products	303	293	302	301	301	302	302	304	303	302	302	303	305
Miscellaneous manufacturing ind.	199	193	194	191	190	189	188	191	192	191	191	192	194
NONDURABLE GOODS	3,315	3,278	3,269	3,295	3,292	3,289	3,289	3,292	3,292	3,292	3,290	3,313	3,329
Food and kindred products	508	499	505	515	509	508	506	505	505	505	500	505	507
Tobacco manufactures	25	25	25	24	25	25	26	25	26	26	26	25	26
Textile mill products	407	395	392	399	398	398	398	398	397	395	395	393	399
Apparel and other textile products	1,025	1,021	1,018	1,020	1,016	1,012	1,008	1,005	1,004	1,001	1,001	1,006	1,012
Paper and allied products	160	157	156	157	158	158	159	159	159	153	160	151	152
Printing and publishing	498	493	498	497	500	500	502	504	504	503	507	510	511
Chemicals and allied products	276	276	276	275	276	277	278	280	281	282	283	282	282
Petroleum and coal products	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Rubber and misc. plastics products	248	233	236	241	244	246	247	249	250	250	252	257	251
Leather and leather products	141	139	134	139	138	137	137	137	137	133	137	137	139
SERVICE-PRODUCING	31,299	31,341	31,460	31,548	31,689	31,719	31,792	31,862	31,974	32,063	32,108	32,133	32,173
TRANSPORTATION AND PUBLIC UTILITIES	1,288	1,286	1,287	1,290	1,295	1,312	1,307	1,311	1,310	1,314	1,318	1,327	1,329
WHOLESALE AND RETAIL TRADE	8,844	8,871	8,891	8,915	8,936	8,935	8,941	8,945	8,998	9,031	9,051	9,090	9,024
WHOLESALE TRADE	1,362	1,353	1,367	1,367	1,371	1,374	1,370	1,373	1,375	1,373	1,377	1,383	1,389
RETAIL TRADE	7,482	7,512	7,524	7,548	7,565	7,561	7,571	7,568	7,623	7,653	7,674	7,702	7,635
FINANCE, INSURANCE, AND REAL ESTATE	3,029	3,028	3,044	3,054	3,065	3,078	3,089	3,103	3,120	3,130	3,138	3,153	3,169
SERVICES	10,382	10,399	10,495	10,526	10,582	10,613	10,671	10,723	10,765	10,803	10,830	10,882	10,935
GOVERNMENT	7,756	7,757	7,743	7,763	7,811	7,781	7,784	7,782	7,781	7,785	7,771	7,757	7,745
FEDERAL	942	939	918	893	879	883	886	887	887	885	878	877	877
STATE AND LOCAL	6,814	6,818	6,825	6,870	6,932	6,898	6,898	6,895	6,894	6,900	6,893	6,880	6,868

¹ 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 EMPLOYMENT

B-8. Production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

(In thousands)

Industry division and group	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
TOTAL PRIVATE	59,945	60,182	60,368	60,464	60,598	60,667	60,807	60,870	60,951	61,114	61,179	61,276	61,611
GOODS-PRODUCING	17,906	18,064	18,167	18,213	18,291	18,278	18,305	18,293	18,346	18,333	18,317	18,337	18,508
MINING	747	748	759	763	779	791	800	805	813	689	694	922	844
CONSTRUCTION	3,345	3,386	3,416	3,426	3,431	3,428	3,452	3,439	3,459	3,462	3,376	3,320	3,313
MANUFACTURING	13,814	13,930	13,992	14,024	14,081	14,059	14,053	14,053	14,074	14,187	14,247	14,245	14,351
DURABLE GOODS	8,131	8,176	8,229	8,259	8,320	8,301	8,306	8,297	8,325	8,412	8,442	8,458	8,511
Lumber and wood products	552	563	568	567	569	573	575	575	577	585	593	584	585
Furniture and fixtures	359	367	372	373	373	374	374	375	376	385	392	394	396
Stone, clay, and glass products	495	502	506	506	508	505	504	503	501	505	507	505	503
Primary metal industries	810	818	833	847	864	874	876	873	879	884	880	881	882
Fabricated metal products	1,135	1,153	1,161	1,165	1,169	1,168	1,166	1,164	1,169	1,178	1,184	1,187	1,200
Machinery, except electrical	1,572	1,567	1,573	1,579	1,581	1,577	1,577	1,573	1,575	1,580	1,594	1,592	1,606
Electric and electronic equipment	1,297	1,304	1,306	1,310	1,316	1,322	1,324	1,326	1,334	1,345	1,353	1,356	1,372
Transportation equipment	1,181	1,178	1,185	1,189	1,215	1,182	1,183	1,175	1,190	1,213	1,210	1,221	1,223
Instruments and related products	421	422	421	422	422	423	422	419	420	422	423	422	428
Miscellaneous manufacturing ind.	309	305	304	301	303	303	305	305	304	307	306	305	316
NONDURABLE GOODS	5,683	5,754	5,763	5,765	5,761	5,758	5,747	5,756	5,749	5,775	5,805	5,737	5,840
Food and kindred products	1,172	1,184	1,177	1,177	1,170	1,166	1,152	1,163	1,158	1,164	1,170	1,146	1,156
Tobacco manufactures	54	53	54	54	55	55	55	55	56	56	55	56	57
Textile mill products	717	733	732	734	732	731	729	727	727	729	731	732	740
Apparel and other textile products	1,072	1,078	1,077	1,073	1,071	1,068	1,062	1,061	1,051	1,065	1,071	1,077	1,096
Paper and allied products	511	516	518	520	521	521	521	520	519	521	523	524	525
Printing and publishing	698	701	704	703	704	707	705	707	708	709	710	708	709
Chemicals and allied products	616	616	620	619	621	622	623	625	626	627	629	628	632
Petroleum and coal products	133	134	134	134	134	133	134	134	134	134	135	133	133
Rubber and misc. plastics products	524	543	551	556	558	561	562	564	566	575	584	587	592
Leather and leather products	186	196	196	195	195	194	194	195	194	195	197	195	200
SERVICE-PRODUCING	42,039	42,118	42,201	42,251	42,307	42,389	42,502	42,572	42,615	42,775	42,862	42,939	43,133
TRANSPORTATION AND PUBLIC UTILITIES	4,268	4,270	4,272	4,275	4,260	4,265	4,264	4,273	4,258	4,291	4,272	4,263	4,271
WHOLESALE AND RETAIL TRADE	17,858	17,901	17,929	17,933	17,932	17,932	17,982	18,013	18,031	18,027	18,084	18,077	18,202
WHOLESALE TRADE	4,304	4,309	4,317	4,320	4,318	4,324	4,324	4,329	4,330	4,342	4,352	4,343	4,362
RETAIL TRADE	13,554	13,592	13,612	13,613	13,614	13,608	13,658	13,684	13,701	13,685	13,732	13,734	13,840
FINANCE, INSURANCE, AND REAL ESTATE	3,920	3,929	3,939	3,950	3,960	3,972	3,986	3,992	3,996	4,017	4,024	4,023	4,036
SERVICES	15,993	16,018	16,061	16,093	16,155	16,220	16,270	16,297	16,320	16,441	16,482	16,521	16,594

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

p preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1978				
January.....	66.3	77.0	80.8	79.9
February.....	66.3	76.5	82.8	82.9
March.....	72.1	80.2	83.7	92.3
April.....	73.3	78.2	77.9	85.2
May.....	65.4	78.2	80.2	83.7
June.....	70.6	73.0	78.2	83.4
July.....	62.5	71.2	74.1	81.7
August.....	66.9	69.5	77.3	80.8
September.....	67.2	72.1	77.0	79.4
October.....	66.3	76.2	79.4	75.0
November.....	72.4	76.7	73.3	77.6
December.....	70.9	77.6	74.7	75.0
1979				
January.....	65.1	72.1	72.1	74.7
February.....	66.0	68.6	71.8	70.6
March.....	64.2	65.7	70.1	69.5
April.....	54.1	65.7	64.8	67.2
May.....	60.5	62.8	59.6	59.6
June.....	62.5	63.7	54.4	58.1
July.....	57.0	55.5	56.7	55.8
August.....	53.2	50.0	51.5	55.2
September.....	49.1	53.5	52.0	50.0
October.....	61.6	52.0	50.6	46.2
November.....	49.4	53.5	51.2	38.1
December.....	49.7	49.4	47.7	35.8
1980				
January.....	52.6	50.6	40.4	32.0
February.....	53.2	46.8	33.4	32.6
March.....	49.4	38.7	30.8	31.7
April.....	34.6	30.8	24.7	32.3
May.....	32.8	27.0	26.2	31.4
June.....	31.4	25.9	28.2	31.4
July.....	36.9	35.5	35.2	31.4
August.....	64.8	54.9	45.1	32.6
September.....	64.0	71.2	61.0	34.9
October.....	61.3	69.8	73.5	43.6
November.....	63.4	64.8	72.7	55.8
December.....	56.7	64.0	65.4	70.9p
1981				
January.....	59.6	61.0	68.6	76.7p
February.....	55.8	61.3	68.6	
March.....	52.3	64.2	65.7p	
April.....	69.8	68.9	66.6p	
May.....	62.5	67.2p		
June.....	48.3p	62.2p		
July.....	64.0p			
August.....				
September.....				
October.....				
November.....				
December.....				

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

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P
1 ALABAMA	1,357.6	1,344.7	1,342.5	17.1	6.9	17.0	72.5	70.9	71.4	363.9	357.1	357.5
2 Birmingham	353.1	342.1	346.7	9.9	2.0	9.5	20.5	19.6	20.0	65.2	61.6	60.8
3 Huntsville	118.8	120.1	120.6	(1)	(1)	(1)	4.2	4.0	4.1	35.5	35.3	35.8
4 Mobile	153.7	152.3	152.6	(1)	(1)	(1)	11.7	10.3	10.0	28.9	30.7	31.0
5 Montgomery	107.6	107.0	107.4	(1)	(1)	(1)	7.4	6.2	6.3	16.7	16.2	16.2
6 Tuscaloosa	48.7	47.6	48.0	2.1	.6	2.3	2.5	2.3	2.5	8.6	7.9	8.0
7 ALASKA	176.3	176.7	184.2	6.5	8.2	8.3	11.7	10.9	12.5	15.5	12.6	14.2
8 ARIZONA	991.2	1,020.7	1,000.8	24.9	24.7	25.2	73.1	70.8	70.5	152.4	157.3	158.5
9 Phoenix	623.3	640.6	631.1	.4	.4	.4	48.9	48.7	48.8	112.2	115.8	116.3
10 Tucson	177.1	188.2	183.4	7.7	7.6	7.8	13.4	13.2	13.2	20.8	22.7	23.3
11 ARKANSAS	740.0	756.4	751.4	5.2	5.4	5.4	39.2	35.9	36.2	208.9	214.1	217.0
12 Fayetteville—Springdale	63.0	65.6	64.8	(1)	(1)	(1)	2.9	2.6	2.7	18.7	19.9	20.3
13 Fort Smith	66.3	67.8	67.6	1.0	1.1	1.2	2.9	2.6	2.6	20.7	22.5	23.3
14 Little Rock—North Little Rock	180.3	180.2	179.9	(1)	(1)	(1)	10.0	9.1	9.3	30.4	29.1	29.1
15 Pine Bluff	32.9	32.2	31.8	(1)	(1)	(1)	3.5	2.5	2.6	6.2	6.2	6.3
16 CALIFORNIA	9,883.9	9,945.7	9,992.9	43.6	45.2	45.6	437.7	395.2	397.3	1,987.0	1,982.4	1,985.3
17 Anaheim—Santa Ana—Garden Grove	844.4	863.8	869.2	2.4	2.4	2.5	50.4	50.0	50.4	221.7	223.0	223.9
18 Bakersfield	132.2	133.7	135.7	11.3	11.9	12.1	7.5	7.7	7.9	9.3	9.4	9.9
19 Fresno	182.8	186.5	186.0	1.0	1.1	1.1	10.9	10.7	10.8	22.6	22.0	22.0
20 Los Angeles—Long Beach	3,619.7	3,659.9	3,668.3	12.9	13.9	14.0	121.8	109.9	110.5	910.5	917.9	920.7
21 Modesto	87.0	87.4	87.2	.1	.1	.1	5.7	4.8	4.8	17.7	18.3	18.5
22 Oxnard—Simi Valley—Ventura	156.1	157.5	157.6	2.7	2.8	2.8	8.5	8.6	8.3	24.3	24.2	24.4
23 Riverside—San Bernardino—Ontario	433.5	437.5	434.4	2.4	2.4	2.3	25.9	25.8	25.6	63.3	61.1	61.1
24 Sacramento	399.8	406.4	407.1	.5	.5	.5	19.2	18.6	18.7	26.1	27.2	27.1
25 Salinas—Seaside—Monterey	89.6	89.6	90.6	.4	.4	.4	3.1	2.9	3.0	9.3	9.1	9.2
26 San Diego	652.4	661.0	659.6	.6	.6	.6	35.8	37.5	37.0	107.9	106.8	106.7
27 San Francisco—Oakland	1,568.9	1,581.4	1,588.4	3.2	3.7	3.7	75.0	72.4	73.0	203.0	204.1	204.5
28 San Jose	676.8	683.4	687.6	.2	.2	.2	25.4	23.9	24.2	240.5	236.0	237.6
29 Santa Barbara—Santa Maria—Lompoc	123.2	124.2	124.3	1.5	1.6	1.6	5.0	4.9	4.9	16.5	16.9	15.9
30 Santa Rosa	93.0	92.9	93.0	.5	.4	.5	5.9	5.4	5.5	14.7	14.8	14.9
31 Stockton	117.3	119.1	119.5	.1	.1	.1	5.7	5.0	5.1	19.4	20.4	20.6
32 Vallejo—Fairfield—Napa	100.3	102.9	103.5	.5	.6	.6	4.9	4.8	4.7	11.0	10.9	11.2
33 COLORADO	1,262.0	1,252.9	1,267.4	35.2	36.3	37.6	79.3	60.9	66.9	181.5	183.3	184.3
34 Denver—Boulder	804.6	802.3	811.3	18.8	20.0	20.7	48.3	37.0	40.6	126.1	127.7	128.5
35 CONNECTICUT	1,441.8	1,441.4	1,450.6	(2)	(2)	(2)	51.2	48.3	52.6	445.5	438.0	440.3
36 Bridgeport	172.4	171.7	172.2	(2)	(2)	(2)	4.4	4.4	4.0	65.5	66.4	57.0
37 Hartford	405.0	403.6	404.5	(2)	(2)	(2)	14.2	13.2	13.6	102.2	98.0	97.5
38 New Britain	65.7	66.0	65.9	(2)	(2)	(2)	2.4	2.2	2.3	30.5	29.8	29.9
39 New Haven—West Haven	194.5	193.3	193.4	(2)	(2)	(2)	7.1	7.3	7.6	44.4	40.1	39.8
40 Stamford	110.5	110.6	112.8	(2)	(2)	(2)	5.9	5.3	5.8	31.5	31.2	31.3
41 Waterbury	91.0	88.2	89.0	(2)	(2)	(2)	3.1	2.3	2.7	33.9	32.8	32.9
42 DELAWARE	261.3	258.4	260.8	(1)	(1)	(1)	15.6	13.2	13.5	68.9	71.7	72.8
43 Wilmington	231.0	230.2	231.6	(1)	(1)	(1)	16.5	14.1	14.5	62.6	65.5	65.9
44 DISTRICT OF COLUMBIA	618.1	613.5	615.8	(1)	(1)	(1)	13.5	13.5	13.6	15.4	15.5	15.6
45 Washington SMSA	1,584.0	1,598.3	1,611.9	(1)	(1)	(1)	76.0	73.5	75.3	55.9	56.3	56.8
46 FLORIDA	3,551.1	3,735.3	3,737.9	10.8	10.7	10.7	263.1	282.0	283.1	450.0	471.0	471.3
47 Bradenton	43.8	41.5	41.6	-	-	-	4.1	2.9	3.0	7.3	7.5	7.5
48 Daytona Beach	78.0	79.8	79.7	(1)	(1)	(1)	4.5	4.8	4.8	8.1	8.3	8.4
49 Fort Lauderdale—Hollywood	350.0	349.5	348.0	(1)	(1)	(1)	31.3	31.1	31.1	41.7	40.8	40.6
50 Fort Myers—Cape Coral	64.2	65.2	65.2	(1)	(1)	(1)	8.0	7.9	7.9	3.8	3.7	3.7
51 Gainesville	67.0	67.8	67.7	(1)	(1)	(1)	3.9	3.6	3.8	4.7	4.8	4.9
52 Jacksonville	292.2	298.7	298.5	(1)	(1)	(1)	16.0	16.4	16.7	34.0	34.6	34.8
53 Lakeland—Winter Haven	114.9	118.1	116.9	5.7	5.8	5.8	8.4	9.2	9.2	20.5	22.1	21.8
54 Melbourne—Titusville—Cocoa	103.0	103.2	102.9	(1)	(1)	(1)	6.1	6.7	6.4	22.3	23.3	23.4
55 Miami	725.2	733.0	733.9	(1)	(1)	(1)	38.7	37.0	37.3	101.1	101.9	102.1
56 Orlando	286.2	294.6	294.0	(1)	(1)	(1)	18.4	21.0	21.2	35.5	36.6	36.8
57 Panama City	34.2	33.6	34.0	(1)	(1)	(1)	2.0	1.9	1.9	3.5	3.6	3.7
58 Pensacola	97.6	101.4	101.8	(1)	(1)	(1)	6.6	7.7	7.5	12.7	12.7	12.7
59 Sarasota	69.1	73.3	72.9	(1)	(1)	(1)	7.0	7.5	7.4	6.1	6.2	6.3
60 Tallahassee	75.2	76.1	76.3	(1)	(1)	(1)	3.7	4.0	4.0	2.9	2.8	2.8
61 Tampa—St. Petersburg	539.7	558.2	550.6	(1)	(1)	(1)	38.5	41.3	41.9	74.4	77.1	76.6
62 West Palm Beach—Boca Raton	203.9	211.0	208.6	(1)	(1)	(1)	19.8	20.3	20.1	28.3	27.7	27.8

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	
72.0	71.5	71.3	272.6	270.4	270.1	59.0	58.7	58.9	204.4	208.0	206.8	296.1	301.2	289.4	1
29.1	28.8	29.0	82.7	83.0	83.2	23.1	22.8	23.0	66.8	68.5	68.9	55.8	55.8	52.3	2
2.6	2.6	2.6	21.3	21.5	21.5	3.5	3.5	3.5	17.5	18.2	18.5	34.2	35.0	34.6	3
11.0	10.9	10.8	37.4	36.8	37.0	7.0	7.4	7.5	29.6	29.5	29.7	28.1	26.7	26.6	4
5.0	4.8	4.8	23.6	23.8	23.8	6.3	6.2	6.2	20.0	20.5	20.2	28.6	29.3	29.9	5
1.8	1.8	1.8	9.3	9.4	9.4	1.7	1.7	1.7	6.0	5.9	5.9	16.7	18.0	16.4	6
18.1	18.1	19.0	30.4	30.5	31.8	8.3	8.5	8.8	31.2	30.9	31.7	54.6	57.0	57.9	7
50.2	51.3	51.7	238.4	244.9	243.0	57.1	59.0	59.3	204.6	208.7	207.4	190.5	204.0	185.1	8
30.3	31.3	31.5	159.4	162.8	161.9	44.4	46.0	46.2	129.6	133.9	132.8	98.1	101.7	93.2	9
8.7	8.7	8.8	39.6	41.3	40.9	8.1	8.3	8.4	39.3	40.9	40.5	39.5	45.5	40.5	10
43.3	42.9	43.7	160.7	163.4	164.6	31.6	31.8	32.3	117.2	119.3	119.0	133.9	143.6	133.2	11
3.9	3.9	3.9	15.4	15.8	15.7	2.3	2.4	2.4	9.3	9.5	9.5	10.5	11.5	10.6	12
3.7	3.6	3.6	14.3	14.0	14.2	2.5	2.5	2.5	13.2	12.1	12.0	8.0	9.4	8.2	13
13.8	14.0	14.1	41.7	42.4	42.5	12.5	12.6	12.8	34.3	34.5	35.0	37.6	38.5	37.1	14
3.9	4.0	4.1	6.5	6.4	6.4	1.4	1.3	1.3	4.9	5.1	4.9	6.5	6.7	6.2	15
543.1	545.7	549.0	2,258.0	2,294.8	2,314.3	619.8	630.5	631.9	2,171.8	2,241.7	2,252.7	1,822.9	1,810.2	1,816.8	16
27.4	29.0	29.0	201.6	207.9	210.2	56.3	59.4	59.7	174.2	181.7	183.1	110.4	110.4	110.4	17
7.6	7.9	8.0	34.0	34.1	34.8	4.8	5.0	5.0	23.7	24.5	24.6	34.0	33.2	33.4	18
10.9	10.7	10.6	49.0	50.3	51.2	10.9	11.2	11.2	35.7	37.5	37.4	41.8	43.0	41.7	19
198.1	198.9	200.2	811.2	825.6	829.8	232.6	236.0	236.5	833.6	854.3	857.9	499.0	503.4	498.7	20
3.9	3.7	3.7	21.4	21.6	21.5	3.4	3.5	3.5	17.0	17.3	17.5	17.8	18.1	17.6	21
6.5	6.2	6.3	36.7	37.4	37.6	7.5	7.6	7.6	31.0	32.3	32.3	38.9	38.4	38.3	22
25.5	26.1	26.1	106.2	108.9	108.7	18.4	18.6	18.6	89.5	92.4	91.5	102.3	102.2	100.5	23
21.5	21.9	22.1	92.8	95.9	96.6	22.2	23.0	23.0	73.8	75.3	75.4	143.7	144.0	143.7	24
5.0	5.1	5.1	22.9	23.4	23.7	4.4	4.4	4.4	19.6	20.2	20.4	24.9	24.1	24.4	25
29.0	28.4	28.6	146.5	148.4	148.4	38.2	39.4	39.4	148.5	154.4	155.1	145.9	145.5	143.8	26
130.2	131.7	132.4	359.1	364.1	366.5	147.0	148.5	149.0	353.6	360.0	362.3	297.8	296.9	297.0	27
21.5	21.8	22.0	126.4	130.3	130.9	27.2	28.2	28.2	153.8	160.7	162.2	81.8	82.3	82.3	28
5.1	5.1	5.1	30.0	30.0	30.1	5.6	5.7	5.7	34.2	34.7	34.6	25.3	25.3	25.4	29
4.5	4.5	4.5	22.5	22.9	23.0	5.7	5.7	5.7	18.6	18.4	18.4	20.6	20.8	20.5	30
8.1	7.8	7.9	27.7	28.0	28.3	5.0	5.1	5.1	23.4	24.7	24.3	27.9	28.0	28.1	31
4.7	4.7	4.8	21.2	22.5	22.8	3.3	3.3	3.3	18.8	20.0	19.6	35.9	36.1	36.5	32
80.0	82.2	83.2	306.2	307.8	310.6	76.8	78.5	79.2	257.1	257.1	263.6	245.9	246.8	242.1	33
55.9	57.7	58.4	192.7	194.5	196.0	54.2	55.5	56.0	170.1	171.0	174.5	138.5	138.8	136.5	34
61.7	61.2	61.5	301.7	300.0	302.4	105.9	108.9	110.4	250.1	299.8	300.3	185.7	185.2	183.1	35
6.3	6.3	6.2	36.7	36.0	36.5	7.3	7.3	7.3	34.4	33.8	33.8	17.8	17.5	17.4	36
14.0	13.9	14.0	82.1	82.9	83.1	61.5	62.9	63.5	75.9	77.9	78.0	55.1	54.8	54.8	37
3.3	3.2	3.2	11.0	11.3	11.3	1.8	1.9	1.9	10.6	11.0	11.1	6.1	6.6	6.2	38
16.2	16.2	16.2	41.1	42.1	42.5	10.9	11.0	11.3	48.9	50.7	50.6	25.9	25.9	25.4	39
4.2	4.3	4.5	23.8	24.2	24.8	7.6	7.7	7.8	27.0	27.4	28.1	10.5	10.5	10.5	40
3.1	3.1	3.1	15.8	15.8	15.9	3.6	3.5	3.5	19.8	19.5	19.7	11.7	11.2	11.2	41
12.5	12.2	12.3	57.4	55.7	56.4	12.1	12.0	12.1	48.7	48.4	49.7	46.2	45.3	44.0	42
12.0	11.8	11.8	47.7	47.0	46.9	11.2	11.3	11.4	43.7	43.3	45.1	37.3	37.3	36.1	43
25.4	25.7	25.8	63.9	63.9	64.3	35.3	35.9	36.1	178.8	185.8	184.8	285.8	273.2	275.6	44
66.9	68.0	68.2	300.1	307.5	310.4	91.5	94.4	95.5	426.8	446.9	452.0	566.8	551.7	553.7	45
219.8	225.3	224.5	914.5	972.6	968.6	252.1	268.4	270.3	811.2	872.6	875.8	629.6	632.7	633.6	46
1.5	1.5	1.5	11.0	10.9	10.8	2.9	2.9	2.9	8.1	8.2	8.4	8.9	7.5	7.5	47
3.2	3.3	3.4	22.0	22.5	22.4	4.2	4.6	4.6	21.3	21.8	21.5	14.7	14.5	14.6	48
16.9	17.1	17.1	101.8	100.8	100.3	28.6	28.4	28.2	82.8	84.1	83.3	46.9	47.2	47.4	49
3.8	4.2	4.2	18.3	18.4	18.2	5.8	6.1	6.3	13.7	13.8	13.8	10.8	11.1	11.1	50
1.6	1.7	1.8	13.7	14.2	14.0	2.7	2.8	2.7	10.7	11.7	11.8	29.7	29.0	28.7	51
23.9	24.3	24.5	74.5	76.8	77.0	27.4	27.2	27.3	62.2	64.9	65.1	54.2	54.5	53.1	52
5.1	4.9	4.9	28.2	29.1	28.6	6.7	6.6	6.6	22.7	23.0	22.9	17.6	17.4	17.1	53
4.6	4.6	4.5	21.4	21.1	21.0	4.0	3.9	4.0	24.5	24.7	24.8	20.1	18.9	18.8	54
71.7	72.8	72.4	188.3	188.4	188.6	52.7	54.4	54.6	175.8	180.8	181.2	96.9	97.7	97.7	55
14.9	14.5	14.6	76.9	77.7	76.5	19.2	20.4	20.4	80.6	81.5	82.1	40.7	42.9	42.4	56
2.1	1.9	1.9	8.9	8.9	9.1	1.7	1.8	1.8	7.1	6.8	6.9	8.9	8.7	8.7	57
5.5	4.9	5.1	22.2	22.6	22.7	4.4	4.3	4.5	21.3	22.7	22.9	24.9	26.5	26.4	58
3.0	3.0	3.0	19.4	20.6	19.9	6.0	6.5	6.5	17.5	19.3	19.6	10.1	10.2	10.2	59
2.3	2.5	2.5	14.6	13.8	13.7	3.4	3.5	3.6	12.6	13.4	13.5	35.7	36.1	36.2	60
30.3	31.0	31.4	146.5	149.8	148.5	39.0	39.8	40.2	129.0	134.6	133.9	82.0	84.6	78.1	61
8.4	8.5	8.6	50.5	52.7	51.3	17.2	17.3	17.2	48.7	52.6	51.6	31.0	31.9	32.0	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		
	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P
1 GEORGIA	2,135.2	2,167.8	2,163.5	7.8	7.6	7.8	104.0	99.2	98.7	508.9	520.1	522.3
2 Albany	44.1	44.8	45.0	(1)	(1)	(1)	3.1	2.9	2.9	10.6	10.7	10.9
3 Atlanta	953.8	975.2	978.2	(1)	(1)	(1)	45.9	42.2	42.0	137.1	144.9	144.8
4 Augusta	122.8	123.1	123.2	(1)	(1)	(1)	5.3	5.3	5.3	36.2	35.4	35.4
5 Columbus	81.3	78.8	79.7	(1)	(1)	(1)	4.0	3.9	4.1	21.1	20.8	20.6
6 Macon	96.8	96.5	96.7	(1)	(1)	(1)	5.2	4.7	4.5	15.6	15.7	15.9
7 Savannah	85.0	85.9	87.0	(1)	(1)	(1)	5.2	6.2	6.3	16.5	17.0	17.4
8 HAWAII	406.9	405.1	405.3	(1)	(1)	(1)	24.9	24.3	24.0	25.0	23.0	25.0
9 Honolulu	335.6	335.5	335.5	(1)	(1)	(1)	20.0	20.5	20.4	18.0	16.9	18.4
10 IDAHO	332.0	328.3	330.8	4.7	4.7	5.3	16.7	16.6	17.4	54.6	53.1	54.2
11 Boise City	80.7	79.1	79.4	(1)	(1)	(1)	5.6	6.2	6.4	8.7	8.2	8.5
12 ILLINOIS	4,922.3	4,825.4	4,878.7	33.0	16.5	33.1	205.6	184.7	188.3	1,227.0	1,185.3	1,193.3
13 Bloomington—Normal	48.9	48.9	48.8	(2)	(2)	(2)	2.0	1.9	2.0	7.0	7.0	7.0
14 Champaign—Urbana—Rantoul	74.6	76.9	72.9	(2)	(2)	(2)	1.9	1.6	1.8	7.7	7.6	7.8
15 Chicago—Gary	3,552.8	(*)	(*)	5.2	(*)	(*)	146.9	(*)	(*)	918.0	(*)	(*)
16 Chicago SMSA	3,302.6	3,223.1	3,242.0	5.1	4.9	5.1	131.3	110.4	113.7	826.8	813.3	817.7
17 Davenport—Rock Island—Moline	167.2	161.8	163.8	(2)	(2)	(2)	7.7	7.6	7.8	51.1	47.0	48.4
18 Decatur	55.2	55.0	56.0	(2)	(2)	(2)	2.5	2.2	2.4	20.0	19.3	19.5
19 Kankakee	35.1	33.9	34.4	(2)	(2)	(2)	2.0	1.7	1.8	9.3	9.4	9.2
20 Peoria	153.7	148.3	149.1	(2)	(2)	(2)	7.7	6.7	7.0	51.7	48.0	48.2
21 Rockford	120.1	117.0	118.0	(2)	(2)	(2)	3.7	3.7	3.9	51.7	49.9	50.4
22 Springfield	87.0	86.4	86.7	(2)	(2)	(2)	4.4	3.7	3.9	6.2	6.7	6.7
23 INDIANA	2,123.5	2,136.0	2,130.7	10.4	6.6	9.9	92.7	87.6	90.5	638.7	666.3	670.1
24 Anderson	44.4	46.9	46.4	(1)	(1)	(1)	1.1	1.1	1.1	18.0	20.5	20.3
25 Elkhart	67.0	68.8	69.3	-	-	-	2.2	2.2	2.3	33.0	35.0	35.2
26 Evansville	128.6	126.2	129.0	2.9	1.6	2.8	7.4	6.9	7.2	36.3	37.1	37.4
27 Fort Wayne	176.2	172.1	172.4	(1)	(1)	(1)	8.5	7.9	8.2	55.5	53.7	54.4
28 Gary—Hammond—East Chicago	250.2	252.4	251.9	(1)	(1)	(1)	15.6	14.8	15.1	91.2	92.5	93.4
29 Indianapolis	535.1	535.9	536.2	(1)	(1)	(1)	24.4	22.7	23.3	122.1	122.6	123.8
30 Lafayette—West Lafayette	53.3	56.6	53.6	(1)	(1)	(1)	2.5	2.6	2.8	11.5	11.2	11.4
31 Muncie	47.7	49.9	46.8	(1)	(1)	(1)	1.7	1.4	1.5	12.9	13.0	12.6
32 South Bend	109.8	107.4	107.1	(1)	(1)	(1)	4.9	4.5	4.5	30.4	30.6	30.6
33 Terre Haute	64.5	61.4	60.9	1.5	.4	1.1	4.1	3.4	3.5	16.1	15.4	15.5
34 IOWA	1,100.9	1,089.4	1,082.3	2.5	2.2	2.2	49.6	42.9	43.8	240.2	236.5	236.0
35 Cedar Rapids	85.8	82.7	82.6	(1)	(1)	(1)	3.6	3.6	3.7	28.5	26.5	26.3
36 Des Moines	179.5	178.5	179.1	(1)	(1)	(1)	7.3	6.2	6.2	24.1	24.3	24.6
37 Dubuque	43.9	42.2	42.2	(1)	(1)	(1)	1.7	1.3	1.3	15.8	13.9	14.1
38 Sioux City	49.4	47.7	47.5	(1)	(1)	(1)	2.6	1.7	2.0	8.7	9.0	9.0
39 Waterloo—Cedar Falls	65.9	65.1	64.0	(1)	(1)	(1)	2.8	1.8	1.8	23.5	22.2	21.9
40 KANSAS	952.5	962.3	962.4	15.6	16.6	17.5	50.1	42.8	44.4	184.9	186.8	186.8
41 Lawrence	26.8	28.8	26.9	(2)	(2)	(2)	1.0	.7	.8	4.8	4.9	4.9
42 Topeka	86.6	85.7	86.6	.2	.2	.2	3.7	3.2	3.5	10.5	10.0	9.8
43 Wichita	204.6	208.2	208.5	2.9	3.3	3.5	10.4	9.8	10.2	62.2	63.3	63.4
44 KENTUCKY	1,213.4	1,178.7	1,188.9	53.5	28.3	38.8	60.7	55.0	56.9	271.7	275.6	277.1
45 Lexington—Fayette	142.0	142.5	141.1	(1)	(1)	(1)	7.0	5.3	5.2	28.8	29.2	29.4
46 Louisville	390.3	390.7	391.6	(1)	(1)	(1)	16.6	16.9	17.4	96.8	99.7	99.7
47 Owensboro	30.3	30.5	31.0	1.0	1.0	1.1	1.9	1.9	1.9	6.8	6.7	7.1
48 LOUISIANA	1,564.1	1,623.4	1,629.1	88.1	93.1	95.0	140.0	151.1	152.1	211.5	214.6	217.1
49 Alexandria	50.5	52.8	51.8	(1)	(1)	(1)	3.9	4.2	4.3	5.5	5.3	5.5
50 Baton Rouge	201.9	207.8	208.6	1.3	1.4	1.4	24.5	24.1	23.7	25.6	26.2	26.4
51 Lafayette	78.7	87.2	87.4	15.4	17.9	18.3	5.5	6.0	6.2	4.2	4.6	4.7
52 Lake Charles	67.0	67.6	68.0	2.1	2.3	2.4	9.4	8.9	9.1	13.6	14.0	14.0
53 Monroe	49.7	50.8	50.1	.5	.5	.5	3.7	3.4	3.4	8.1	7.9	7.9
54 New Orleans	501.4	500.6	501.2	17.7	18.8	19.0	30.4	31.2	31.3	53.7	54.6	55.0
55 Shreveport	148.0	152.2	154.0	5.8	5.5	5.9	8.6	10.4	11.5	26.7	27.0	27.0
56 MAINE	430.6	419.8	428.8	(1)	(1)	(1)	21.2	20.0	21.6	116.1	113.3	114.9
57 Lewiston—Auburn	35.6	35.1	35.0	(1)	(1)	(1)	1.4	1.2	1.2	12.4	11.7	11.7
58 Portland	94.6	93.5	95.5	(1)	(1)	(1)	4.0	4.0	4.5	18.9	18.5	18.5
59 MARYLAND	1,707.6	1,703.7	1,717.1	(1)	(1)	(1)	105.0	95.8	96.1	237.6	235.2	236.3
60 Baltimore	956.8	957.0	959.9	(1)	(1)	(1)	53.0	48.1	47.8	160.3	159.6	159.4

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	
136.9	140.5	140.9	490.7	486.4	486.0	111.6	113.8	113.8	345.2	357.2	358.3	430.1	442.9	435.8	1
2.2	2.2	2.1	9.6	10.1	10.0	1.9	1.9	2.0	6.2	6.6	6.7	10.5	10.4	10.4	2
83.4	87.1	89.7	261.4	263.2	262.6	67.4	69.2	69.2	197.3	204.1	204.7	161.3	164.5	165.2	3
4.3	4.4	4.4	22.5	22.6	22.7	4.6	4.4	4.4	17.9	18.5	18.6	32.2	32.4	32.3	4
3.5	3.4	3.4	16.4	15.2	15.2	5.4	5.6	5.6	11.1	11.1	11.3	19.8	18.9	19.4	5
4.8	4.5	4.6	19.7	19.2	19.4	5.6	6.0	5.9	16.9	16.5	16.6	29.0	30.0	29.7	6
8.7	7.9	7.9	19.4	19.6	19.8	4.0	4.2	4.3	15.4	15.2	15.3	15.7	15.9	16.0	7
31.0	30.8	30.7	104.6	103.1	104.0	33.6	34.5	34.6	99.0	99.1	98.9	88.8	90.3	88.1	8
25.8	25.6	25.6	87.0	85.4	85.8	29.3	30.2	30.3	79.9	80.1	80.2	75.6	76.8	74.8	9
20.3	20.1	20.0	80.9	80.1	80.1	23.6	23.5	23.4	61.4	59.4	60.7	69.8	70.8	69.7	10
5.2	5.3	5.4	21.0	19.8	19.7	8.1	7.8	7.8	15.2	14.9	14.9	16.9	16.9	16.7	11
287.2	285.1	285.5	1,142.0	1,124.7	1,129.6	316.2	310.5	314.9	949.0	960.5	974.4	762.3	758.1	759.6	12
3.2	3.1	3.1	12.3	12.2	12.1	7.8	7.6	7.7	8.6	8.4	8.5	8.0	8.7	8.4	13
2.7	2.6	2.7	19.5	19.3	19.2	2.5	2.5	2.5	12.2	11.6	11.7	28.1	31.7	27.2	14
209.6	(*)	(*)	823.9	(*)	(*)	232.5	(*)	(*)	695.5	(*)	(*)	521.3	(*)	(*)	15
197.4	197.7	198.1	771.3	743.2	750.2	223.0	219.6	222.1	659.7	652.4	653.6	488.0	481.6	481.5	16
7.1	7.0	7.0	41.6	41.0	41.0	7.2	7.1	7.2	25.3	24.7	24.6	27.2	27.4	27.8	17
5.2	5.2	5.5	11.0	11.5	11.5	2.8	2.7	2.7	8.6	8.6	8.7	5.0	5.4	5.6	18
1.5	1.4	1.5	7.3	6.8	6.9	1.2	1.1	1.1	6.2	6.4	6.5	7.6	7.0	7.3	19
7.9	8.1	7.9	35.9	34.9	34.7	7.2	7.1	7.1	26.1	26.0	26.9	17.2	17.5	17.3	20
4.9	4.4	4.5	24.9	24.5	24.7	4.2	4.2	4.2	17.9	17.6	17.7	12.8	12.7	12.6	21
5.0	4.7	4.7	19.1	18.7	18.7	6.6	6.8	6.8	17.3	17.6	17.6	28.3	28.1	28.2	22
103.7	105.2	105.2	480.7	471.8	470.6	102.8	101.2	102.3	342.0	343.6	344.7	352.4	353.7	337.3	23
1.4	1.3	1.3	9.4	9.4	9.4	1.7	1.6	1.6	7.1	7.3	7.2	5.7	5.7	5.5	24
2.0	2.2	2.2	13.4	13.1	13.2	2.1	2.1	2.1	9.0	9.0	9.1	5.3	5.2	5.2	25
7.2	7.0	7.2	31.0	30.8	30.8	4.7	4.6	4.7	25.9	25.4	25.5	13.2	12.8	13.4	26
11.2	10.9	11.0	42.3	41.8	41.7	10.7	10.6	10.7	29.2	29.0	29.2	18.8	18.2	17.2	27
12.2	14.7	14.9	52.6	51.5	51.7	9.5	9.2	9.2	35.8	37.6	36.8	33.3	32.1	30.8	28
31.4	31.2	31.3	132.3	132.6	132.7	38.9	38.7	39.2	95.8	98.1	98.2	90.2	90.0	87.7	29
1.5	1.5	1.5	10.8	11.0	10.8	2.6	2.6	2.6	9.2	9.4	9.4	15.2	18.3	15.1	30
2.0	2.0	2.0	12.1	12.4	12.2	1.6	1.5	1.5	8.2	8.1	8.4	9.2	11.5	8.6	31
4.3	4.6	4.6	27.6	25.7	25.6	5.5	5.3	5.3	24.0	23.9	23.0	13.1	12.8	13.5	32
3.7	3.4	3.4	16.3	15.3	15.2	2.2	2.2	2.1	9.5	9.4	9.2	11.1	11.9	10.9	33
55.6	53.7	53.9	280.2	277.2	276.5	58.3	58.1	58.4	204.1	212.0	205.6	210.4	206.8	205.8	34
3.8	3.8	3.8	19.4	18.2	18.2	4.4	4.3	4.3	15.8	15.8	15.8	10.4	10.4	10.5	35
11.2	11.3	11.4	46.7	46.6	46.8	20.9	20.9	21.0	39.7	39.7	39.9	29.6	29.4	29.2	36
1.7	1.6	1.6	9.2	9.1	9.2	1.3	1.3	1.3	10.4	10.7	10.7	3.9	4.2	4.0	37
3.9	3.7	3.7	12.8	12.3	12.1	2.9	2.9	2.9	12.0	11.9	11.8	6.5	6.1	6.0	38
2.5	2.5	2.4	13.9	14.2	14.2	2.1	2.0	2.0	10.9	10.9	10.9	10.2	11.4	10.8	39
64.4	64.9	66.3	225.6	231.3	231.4	47.8	47.8	48.3	173.6	178.3	180.0	190.5	193.8	187.7	40
1.4	1.3	1.4	5.4	5.6	5.4	.8	.8	.9	4.0	4.4	4.3	9.4	11.1	9.2	41
7.5	7.6	7.7	18.7	19.0	19.2	6.2	6.4	6.4	17.2	17.5	17.7	22.6	21.8	22.1	42
10.8	10.8	10.9	44.8	46.4	46.4	9.3	9.2	9.4	38.9	39.9	40.5	25.3	25.5	24.2	43
69.6	67.4	67.4	259.4	254.2	255.5	52.7	52.7	53.1	211.8	212.5	213.7	234.0	233.0	226.4	44
7.4	7.6	7.6	31.4	32.6	32.5	7.4	7.4	7.6	26.5	27.1	26.8	33.5	33.3	32.0	45
24.3	22.9	22.8	89.1	88.2	88.5	23.5	23.2	23.4	78.3	80.4	80.8	61.7	59.4	59.1	46
2.4	2.4	2.4	6.9	6.9	6.9	1.2	1.2	1.2	5.6	5.6	5.6	4.5	4.8	4.8	47
124.8	127.4	128.3	354.2	362.4	363.2	75.0	75.6	76.1	269.8	280.4	281.9	300.7	318.8	315.4	48
2.5	2.6	2.5	11.0	11.6	11.6	2.8	2.9	3.0	10.2	11.1	10.8	14.6	15.1	14.1	49
10.9	11.4	11.5	43.9	45.8	46.0	11.1	11.3	11.3	33.6	35.2	35.3	51.0	52.4	53.0	50
5.8	6.4	6.5	20.3	22.0	22.2	2.8	2.9	2.9	15.4	16.0	16.2	9.3	11.4	10.4	51
3.8	3.9	3.7	14.5	14.8	14.9	2.8	2.8	2.8	9.7	9.7	9.9	11.1	11.2	11.2	52
2.7	2.9	2.9	13.1	13.2	13.1	3.7	4.0	4.0	7.9	8.2	8.3	10.0	10.7	10.0	53
52.4	52.0	52.4	127.4	124.2	124.5	30.2	30.3	30.6	108.0	111.2	110.6	81.6	78.3	77.8	54
10.3	10.9	11.0	35.6	36.8	36.9	7.2	7.1	7.2	28.5	29.6	29.5	25.3	24.9	25.0	55
19.3	19.0	19.7	93.4	88.8	92.4	16.8	16.8	17.0	80.1	79.9	81.7	83.7	82.0	81.5	56
1.2	1.2	1.2	8.2	8.5	8.4	1.5	1.6	1.7	7.6	7.7	7.7	3.3	3.2	3.1	57
5.6	5.4	5.6	25.7	25.8	26.5	7.4	7.7	7.8	20.2	19.9	20.3	12.8	12.2	12.3	58
87.0	85.2	86.3	413.3	417.5	425.2	93.4	95.3	97.0	366.3	374.5	380.1	405.0	400.2	396.1	59
59.3	57.7	58.5	216.1	214.2	216.6	58.0	59.4	60.3	198.5	210.3	211.7	211.6	207.7	205.6	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		
	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P
1 MASSACHUSETTS	2,678.4	2,691.6	2,702.4	(1)	(1)	(1)	76.2	70.8	71.9	680.4	670.9	679.7
2 Boston	1,494.6	1,502.9	1,517.3	(1)	(1)	(1)	41.9	42.1	44.1	298.2	293.6	297.4
3 Brockton	58.3	58.4	58.5	(1)	(1)	(1)	1.8	1.4	1.5	12.8	12.8	13.1
4 Fall River	55.1	54.2	54.1	(1)	(1)	(1)	1.5	1.3	1.4	20.6	20.1	20.1
5 Lawrence—Haverhill	116.4	115.4	116.1	(1)	(1)	(1)	3.6	3.4	3.4	45.4	44.6	45.3
6 Lowell	77.7	78.1	78.6	(1)	(1)	(1)	2.8	2.7	2.9	28.8	28.7	29.5
7 New Bedford	65.2	64.6	64.8	(1)	(1)	(1)	1.7	1.6	1.7	25.8	25.5	25.7
8 Springfield—Chicopee—Holyoke	234.2	233.8	231.7	(1)	(1)	(1)	7.4	6.4	6.5	67.8	64.0	64.5
9 Worcester	167.9	167.0	166.9	(1)	(1)	(1)	6.3	6.2	6.5	49.6	48.2	48.5
10 MICHIGAN	3,424.3	3,493.5	3,499.6	13.5	12.8	13.0	118.5	112.7	115.1	967.0	1,029.7	1,034.9
11 Ann Arbor	136.9	140.9	137.4	(1)	(1)	(1)	2.9	2.5	2.6	41.6	44.5	44.7
12 Battle Creek	63.9	64.2	64.4	(1)	(1)	(1)	1.9	1.7	1.8	21.9	22.1	22.4
13 Bay City	33.5	34.7	35.0	(1)	(1)	(1)	.9	.8	.9	8.8	9.4	9.6
14 Detroit	1,672.9	1,689.6	1,696.4	1.3	1.4	1.3	52.7	50.6	50.2	474.5	488.5	492.3
15 Flint	182.7	198.2	197.2	(1)	(1)	(1)	6.4	7.6	8.2	64.9	76.5	75.9
16 Grand Rapids	266.1	275.6	274.8	(1)	(1)	(1)	12.1	11.6	12.0	89.0	94.1	94.6
17 Jackson	51.2	51.7	51.6	(1)	(1)	(1)	1.5	1.2	1.2	13.7	14.7	14.8
18 Kalamazoo—Portage	108.5	107.2	107.8	(1)	(1)	(1)	5.8	4.3	4.9	32.6	33.1	33.2
19 Lansing—East Lansing	195.9	197.2	196.6	(1)	(1)	(1)	7.1	5.6	6.3	39.3	42.9	43.4
20 Muskegon—Norton Shores—Muskegon Hts.	60.4	60.8	61.0	(1)	(1)	(1)	2.2	2.0	2.2	20.2	20.4	20.5
21 Saginaw	81.3	86.1	85.0	(1)	(1)	(1)	2.5	2.0	2.1	26.9	31.4	31.0
22 MINNESOTA	1,790.4	1,766.8	1,776.2	15.9	15.9	16.3	82.8	63.1	60.1	371.2	365.5	372.9
23 Duluth—Superior	61.3	58.2	58.7	(1)	(1)	(1)	2.4	1.7	1.9	7.7	7.6	7.7
24 Minneapolis—St. Paul	1,101.8	1,104.9	1,108.2	(1)	(1)	(1)	47.9	32.9	30.7	245.7	246.0	247.9
25 Rochester	50.5	50.2	50.6	(2)	(2)	(2)	2.3	1.6	1.6	10.2	10.3	10.6
26 St. Cloud	55.1	55.5	53.7	(1)	(1)	(1)	3.2	3.1	2.9	12.4	12.1	11.7
27 MISSISSIPPI	826.1	829.0	820.3	10.9	11.2	11.3	45.9	41.2	42.0	217.4	220.8	221.3
28 Jackson	146.5	145.9	144.8	1.4	1.6	1.7	8.2	6.8	7.1	18.8	18.5	18.7
29 MISSOURI	1,978.9	1,980.1	1,983.7	7.9	5.9	6.5	80.2	77.2	81.2	435.8	428.2	429.7
30 Kansas City	625.4	624.2	626.8	.5	.5	.5	26.1	23.8	25.0	115.8	119.6	118.8
31 St. Joseph	37.8	36.8	37.0	(2)	(2)	(2)	2.5	1.9	2.1	9.2	9.0	9.1
32 St. Louis	988.3	983.6	983.3	2.7	1.6	2.6	34.2	42.6	42.8	240.6	231.9	232.7
33 Springfield	84.4	85.2	85.2	(2)	(2)	(2)	3.7	3.4	3.5	18.7	18.8	19.2
34 MONTANA	290.5	285.9	290.1	8.6	8.7	8.7	16.3	14.7	15.1	23.6	23.0	23.3
35 Billings	48.7	47.8	48.1	(1)	(1)	(1)	2.6	2.7	2.8	4.2	4.2	4.2
36 Great Falls	29.3	29.4	29.7	(1)	(1)	(1)	1.9	1.7	1.7	1.7	1.3	1.3
37 NEBRASKA	636.9	636.0	639.4	1.8	1.6	1.7	29.9	27.3	27.7	94.5	96.4	96.6
38 Lincoln	102.2	101.2	100.8	(2)	(2)	(2)	4.1	3.7	3.7	13.9	13.4	13.3
39 Omaha	265.7	265.8	269.5	(2)	(2)	(2)	10.2	10.1	10.3	35.4	35.1	35.7
40 NEVADA	402.5	414.6	417.5	6.2	8.1	8.4	26.0	25.8	26.2	19.3	20.1	20.3
41 Las Vegas	220.4	227.3	227.8	.5	.6	.7	13.5	13.1	13.2	7.0	7.2	7.3
42 Reno	115.5	117.0	117.8	1.0	1.2	1.2	7.5	7.5	7.5	8.0	8.5	8.5
43 NEW HAMPSHIRE	390.5	384.9	389.8	.4	.4	.4	20.1	18.3	18.5	117.0	115.1	115.1
44 Manchester	74.1	73.9	74.4	(2)	(2)	(2)	3.5	3.2	3.4	17.2	16.7	16.8
45 Nashua	64.8	65.2	65.8	(2)	(2)	(2)	2.8	2.7	2.8	30.3	30.7	30.9
46 NEW JERSEY	3,103.1	3,078.4	3,134.1	2.6	2.3	2.2	115.9	102.7	113.1	790.8	776.7	784.6
47 Atlantic City	91.1	99.3	104.5	-	-	-	6.1	4.3	4.5	9.0	8.5	8.1
48 Camden	333.9	329.7	332.3	.1	.1	.1	14.3	13.3	13.5	70.8	70.3	70.3
49 Hackensack	403.7	394.5	399.7	(1)	(1)	(1)	14.9	12.7	15.0	113.5	108.8	109.0
50 Jersey City	233.2	225.3	226.0	-	-	-	5.1	4.7	5.0	70.7	67.1	67.7
51 Long Branch—Asbury Park	166.8	167.4	171.8	(1)	(1)	(1)	7.0	7.2	8.1	25.0	25.7	25.9
52 New Bruns. Perth Amboy—Sayreville	292.1	287.7	287.5	(1)	(1)	(1)	10.5	9.3	10.3	91.7	90.7	91.9
53 Newark	950.9	936.9	943.5	.8	.8	.9	35.1	27.4	30.8	249.8	242.7	245.3
54 Paterson—Clifton—Passaic	190.2	187.3	187.8	(1)	(1)	(1)	7.1	6.3	6.6	67.5	65.6	65.6
55 Trenton	163.9	163.6	164.6	(1)	(1)	(1)	3.7	2.7	3.2	34.5	35.0	35.2
56 Vineland—Millville—Bridgeton	55.8	54.2	54.5	(1)	(1)	(1)	2.0	1.9	1.9	18.0	18.0	18.0
57 NEW MEXICO	465.6	468.7	470.1	30.0	31.1	31.3	31.8	29.5	30.6	34.4	32.6	32.7
58 Albuquerque	184.8	187.6	187.8	(1)	(1)	(1)	12.6	11.9	12.2	17.9	17.3	17.4
59 Las Cruces	29.0	30.1	29.1	-	-	-	1.8	1.9	2.0	2.5	2.4	2.4
60 NEW YORK	7,283.0	7,260.0	7,307.7	6.5	6.7	6.6	222.8	206.7	215.2	1,456.7	1,438.8	1,451.5
61 Albany—Schenectady—Troy	342.4	340.7	340.3	(1)	(1)	(1)	12.2	10.5	10.9	58.3	57.2	57.1
62 Binghamton	119.1	118.1	120.2	(1)	(1)	(1)	4.0	3.7	4.0	42.9	42.9	43.9

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)

State and area	Total			Mining			Construction			Manufacturing		
	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P
1 PUERTO RICO	(*)	(*)	(*)	.9	.8	(*)	41.5	35.2	(*)	(*)	(*)	(*)
2 Caguas	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
3 Mayaguez	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
4 Ponce	(*)	(*)	(*)	(*)	(*)	(*)	4.1	3.2	2.8	(*)	(*)	(*)
5 San Juan	(*)	(*)	(*)	(*)	(*)	(*)	28.5	24.6	24.6	(*)	(*)	(*)
6, VIRGIN ISLANDS	36.8	36.7	36.9	(2)	(2)	(2)	3.3	3.0	3.2	3.3	3.2	3.2

- ¹ Combined with services.
- ² Combined with construction.
- ³ Area included in Chicago-Gary Standard Consolidated Statistical Area.
- ⁴ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
- ⁵ Subarea of New York—Northeastern New Jersey.
- ⁶ Subarea of Rochester Standard Metropolitan Statistical Area.
- ⁷ Area included in New York and Nassau-Suffolk combined SMSA's.
- ⁸ Subarea of New York Standard Metropolitan Statistical Area.
- ⁹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
- ¹⁰ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical

- Area: Philadelphia County.
- ¹¹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.
- ¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
- ¹³ Total includes data for industry divisions not shown separately.
- ¹⁴ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.
- p = preliminary.
- * Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government		
JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P
17.4	17.6	(*)	114.5	114.5	(*)	27.4	27.9	(*)	81.6	82.7	(*)	262.7	235.3	(*)
(*)	(*)	(*)	5.6	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	12.7	11.3	(*)
(*)	(*)	(*)	6.0	5.8	(*)	(*)	(*)	(*)	(*)	(*)	(*)	16.0	15.5	(*)
(*)	(*)	(*)	7.9	7.8	(*)	(*)	(*)	(*)	(*)	(*)	(*)	19.1	17.6	(*)
13.7	(*)	(*)	72.2	72.4	(*)	20.6	20.9	(*)	56.4	(*)	(*)	125.5	123.8	(*)
2.0	2.0	2.0	7.4	7.5	7.5	1.5	1.6	1.6	5.9	5.8	5.8	13.4	13.6	13.6

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
-	TOTAL PRIVATE	\$233.33	\$234.39	\$252.38	\$254.88	\$256.67	\$6.61	\$6.64	\$7.17	\$7.20	\$7.23
-	MINING	395.28	380.94	423.98	416.64	442.51	9.15	9.07	9.58	9.92	10.08
10	METAL MINING	411.68	380.93	454.90	468.03	-	10.14	10.24	11.26	11.36	-
101	Iron ores	418.72	407.74	458.62	512.35	-	10.99	11.08	11.82	11.86	-
102	Copper ores	427.45	321.30	477.76	473.88	-	10.30	10.50	11.54	11.53	-
11, 12	COAL MINING	442.09	390.20	456.55	410.85	-	10.97	10.93	11.50	11.84	-
12	BITUMINOUS COAL AND LIGNITE MINING	442.20	391.63	459.69	412.09	-	11.00	10.97	11.55	11.91	-
13	OIL AND GAS EXTRACTION	386.86	388.57	428.95	423.94	-	3.54	8.54	9.49	9.40	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	399.84	400.73	449.53	440.08	-	9.80	9.75	10.78	10.53	-
138	Oil and gas field services	382.11	383.39	421.79	418.55	-	3.13	8.14	9.11	9.04	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	324.95	328.74	350.35	353.89	-	7.47	7.54	8.11	8.23	-
142	Crushed and broken stone	317.90	321.33	339.82	342.34	-	7.16	7.27	7.83	7.98	-
-	CONSTRUCTION	371.04	373.23	388.56	396.44	405.28	9.79	9.90	10.53	10.60	10.75
15	GENERAL BUILDING CONTRACTORS	334.70	337.64	343.20	347.48	-	9.12	9.20	9.56	9.52	-
152	Residential building construction	316.46	315.45	316.45	321.05	-	8.67	8.69	8.99	8.82	-
153	Operative builders	291.40	288.35	303.11	310.00	-	7.94	7.90	8.35	8.47	-
154	Nonresidential building construction	357.42	362.84	373.40	378.08	-	9.66	9.78	10.23	10.33	-
16	HEAVY CONSTRUCTION CONTRACTORS	379.26	381.71	401.20	408.84	-	9.03	9.22	9.98	10.07	-
161	Highway and street construction	380.19	380.49	368.45	394.05	-	8.70	8.89	9.12	9.25	-
162	Heavy construction, except highway	379.45	381.64	415.67	415.51	-	9.21	9.40	10.34	10.44	-
17	SPECIAL TRADE CONTRACTORS	387.50	389.02	405.72	414.60	-	10.53	10.60	11.27	11.39	-
171	Plumbing, heating, air conditioning	400.75	405.22	424.88	427.89	-	10.63	10.72	11.30	11.38	-
172	Painting, paper hanging, decorating	350.66	345.23	359.10	369.60	-	9.85	9.78	10.50	10.56	-
173	Electrical work	449.32	450.00	482.22	491.81	-	11.95	12.00	12.69	13.03	-
174	Masonry, stonework, and plastering	367.83	369.58	379.62	387.80	-	10.42	10.44	10.94	11.08	-
175	Carpentering and flooring	317.28	330.18	348.50	361.43	-	9.17	9.38	10.22	10.21	-
176	Roofing and sheet metal work	319.93	321.78	314.85	336.65	-	9.22	9.22	9.87	9.95	-
-	MANUFACTURING	282.96	282.85	317.59	319.99	316.80	7.20	7.29	7.92	7.96	8.00
24, 25, 32-39	DURABLE GOODS	304.90	302.64	343.07	345.51	341.23	7.68	7.76	8.45	8.51	8.53
20-23, 26-31	NONDURABLE GOODS	252.20	254.87	280.13	281.64	282.30	6.50	6.62	7.11	7.13	7.22
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	250.37	254.51	274.03	279.56	273.35	6.52	6.68	6.92	7.08	7.10
241	Logging camps and logging contractors	341.75	354.48	349.44	370.00	-	8.63	8.84	8.96	9.32	-
242	Sawmills and planing mills	257.74	265.30	286.00	289.41	-	6.66	6.82	7.15	7.29	-
2421	Sawmills and planing mills, general	272.22	279.89	301.95	305.29	-	6.98	7.14	7.53	7.69	-
2426	Hardwood dimension and flooring	176.81	176.15	195.71	200.19	-	4.69	4.71	4.98	5.03	-
243	Millwork, plywood, and structural members	242.82	239.02	267.81	274.82	-	6.34	6.46	6.78	6.94	-
2431	Millwork	239.53	231.78	270.97	279.79	-	6.32	6.35	6.86	7.03	-
2434	Wood kitchen cabinets	214.54	205.91	235.55	241.02	-	5.83	5.90	6.15	6.18	-
2435	Hardwood veneer and plywood	185.44	184.88	222.48	224.80	-	4.88	4.97	5.40	5.43	-
2436	Softwood veneer and plywood	315.34	314.02	327.06	338.04	-	7.71	7.97	8.28	8.59	-
244	Wood containers	180.07	178.49	214.82	213.25	-	4.92	4.89	5.48	5.44	-
245	Wood buildings and mobile homes	217.77	222.40	245.59	243.20	-	6.10	6.11	6.48	6.52	-
2451	Mobile homes	214.72	215.23	243.05	243.05	-	5.10	6.08	6.43	6.43	-
249	Miscellaneous wood products	211.29	210.37	237.92	235.97	-	5.39	5.45	5.86	5.87	-
25	FURNITURE AND FIXTURES	205.15	200.19	224.46	228.14	222.05	5.50	5.53	5.83	5.88	5.89
251	Household furniture	186.52	182.31	208.35	211.14	-	5.11	5.15	5.44	5.47	-
2511	Wood household furniture	171.08	171.12	196.06	196.45	-	4.70	4.78	5.04	5.05	-
2512	Upholstered household furniture	196.56	184.42	215.92	220.75	-	5.46	5.44	5.82	5.84	-
2514	Metal household furniture	198.35	190.99	221.26	229.03	-	5.39	5.38	5.63	5.74	-
2515	Mattresses and bedsprings	213.94	211.07	224.96	228.69	-	5.69	5.72	6.08	6.05	-
252	Office furniture	231.47	218.42	250.80	255.12	-	5.92	5.84	6.37	6.41	-
253	Public building and related furniture	228.52	222.71	256.37	258.30	-	5.80	5.74	6.54	6.64	-
254	Partitions and fixtures	256.61	251.46	267.95	277.42	-	6.70	6.67	7.07	7.15	-
269	Miscellaneous furniture and fixtures	239.32	230.01	255.67	261.49	-	5.20	6.15	6.44	6.62	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
-	TOTAL PRIVATE	35.3	35.3	35.2	35.4	35.5	-	-	-	-	-
-	MINING	43.2	42.0	43.8	42.0	43.9	-	-	-	-	-
10	METAL MINING	40.6	37.2	40.4	41.2	-	-	-	-	-	
101	Iron ores	38.1	36.8	38.8	43.2	-	-	-	-	-	
102	Copper ores	41.5	30.6	41.4	41.1	-	-	-	-	-	
11, 12	COAL MINING	40.3	35.7	39.7	34.7	-	-	-	-	-	
12	BITUMINOUS COAL AND LIGNITE MINING	40.2	35.7	39.8	34.6	-	-	-	-	-	
13	OIL AND GAS EXTRACTION	45.3	45.5	45.2	45.1	-	-	-	-	-	
131, 2	Crude petroleum, natural gas, and natural gas liquids	40.8	41.1	41.7	41.4	-	-	-	-	-	
138	Oil and gas field services	47.0	47.1	46.3	46.3	-	-	-	-	-	
14	NONMETALLIC MINERALS, EXCEPT FUELS	43.5	43.6	43.2	43.0	-	-	-	-	-	
142	Crushed and broken stone	44.4	44.2	43.4	42.9	-	-	-	-	-	
-	CONSTRUCTION	37.9	37.7	36.9	37.4	37.7	-	-	-	-	
15	GENERAL BUILDING CONTRACTORS	36.7	36.7	35.9	36.5	-	-	-	-	-	
152	Residential building construction	36.5	36.3	35.2	36.4	-	-	-	-	-	
153	Operative builders	36.7	36.5	36.3	36.6	-	-	-	-	-	
154	Nonresidential building construction	37.0	37.1	36.5	36.6	-	-	-	-	-	
16	HEAVY CONSTRUCTION CONTRACTORS	42.0	41.4	40.2	40.6	-	-	-	-	-	
181	Highway and street construction	43.7	42.8	40.4	42.6	-	-	-	-	-	
162	Heavy construction, except highway	41.2	40.6	40.2	39.8	-	-	-	-	-	
17	SPECIAL TRADE CONTRACTORS	36.8	36.7	36.0	36.4	-	-	-	-	-	
171	Plumbing, heating, air conditioning	37.7	37.8	37.6	37.6	-	-	-	-	-	
172	Painting, paper hanging, decorating	35.6	35.3	34.2	35.0	-	-	-	-	-	
173	Electrical work	37.6	37.5	38.0	37.6	-	-	-	-	-	
174	Masonry, stonework, and plastering	35.3	35.4	34.7	35.0	-	-	-	-	-	
175	Carpentering and flooring	34.6	35.2	34.1	35.4	-	-	-	-	-	
176	Roofing and sheet metal work	34.7	34.9	31.9	33.8	-	-	-	-	-	
-	MANUFACTURING	39.3	38.8	40.1	40.2	39.6	2.5	2.4	2.9	3.0	
24, 25, 32-39	DURABLE GOODS	39.7	39.0	40.6	40.6	40.0	2.4	2.3	3.0	3.0	
20-23, 28-31	NONDURABLE GOODS	38.8	38.5	39.4	39.5	39.1	2.5	2.6	2.9	2.9	
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	38.4	38.1	39.6	39.5	38.5	2.5	2.5	2.9	2.9	
241	Logging camps and logging contractors	39.6	40.1	39.0	39.7	-	3.8	3.7	3.7	3.9	
242	Sawmills and planing mills	38.7	38.9	40.0	39.7	-	3.1	3.2	3.3	3.2	
2421	Sawmills and planing mills, general	39.0	39.2	40.1	39.7	-	3.4	3.5	3.5	3.3	
2426	Hardwood dimension and flooring	37.7	37.4	39.5	39.8	-	1.9	1.8	2.5	2.7	
243	Millwork, plywood, and structural members	38.3	37.0	39.5	39.6	-	1.9	1.8	2.5	2.5	
2431	Millwork	37.9	36.5	39.5	39.8	-	1.5	1.1	1.9	1.9	
2434	Wood kitchen cabinets	36.8	34.9	38.3	39.0	-	1.3	1.0	1.3	1.9	
2435	Hardwood veneer and plywood	38.0	37.2	41.2	41.4	-	2.2	2.1	3.9	3.8	
2436	Softwood veneer and plywood	40.9	39.4	39.5	38.9	-	3.0	3.2	3.4	3.1	
244	Wood containers	36.6	36.5	39.2	39.2	-	1.7	1.4	2.6	2.5	
245	Wood buildings and mobile homes	35.7	36.4	37.9	37.3	-	1.1	1.3	1.8	1.6	
2451	Mobile homes	35.2	35.4	37.8	37.8	-	.8	1.1	1.3	1.2	
249	Miscellaneous wood products	39.2	38.6	40.6	40.2	-	2.3	2.3	2.9	2.8	
26	FURNITURE AND FIXTURES	37.3	36.2	38.5	38.8	37.7	1.4	1.1	1.9	2.0	
261	Household furniture	36.5	35.4	38.3	38.6	-	1.1	.8	1.9	1.8	
2611	Wood household furniture	36.4	35.8	38.9	38.9	-	1.1	.9	2.0	2.0	
2612	Upholstered household furniture	36.0	33.9	37.1	37.8	-	.7	.5	1.2	1.3	
2614	Metal household furniture	36.8	35.5	39.3	39.9	-	1.3	.8	3.3	2.8	
2615	Mattresses and bedsprings	37.6	36.9	37.0	37.8	-	2.0	1.5	1.7	1.7	
262	Office furniture	39.1	37.4	40.0	39.8	-	1.9	1.1	2.5	2.7	
263	Public building and related furniture	39.4	38.8	39.2	38.9	-	2.4	2.3	2.4	2.5	
264	Partitions and fixtures	38.3	37.7	37.9	38.8	-	2.1	2.2	1.9	2.3	
269	Miscellaneous furniture and fixtures	38.6	37.4	39.7	39.5	-	.8	.7	1.4	1.8	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	\$308.73	\$305.88	\$337.02	\$341.13	\$339.42	\$7.53	\$7.59	\$8.20	\$9.30	\$8.36
321	Flat glass	385.84	371.45	440.50	487.73	-	9.48	9.24	10.64	11.11	-
322	Glass and glassware, pressed or blown	329.26	322.74	359.98	361.08	-	3.07	8.15	8.78	8.85	-
3221	Glass containers	356.42	349.80	385.54	387.92	-	8.63	8.68	9.29	9.37	-
3229	Pressed and blown glass, nec	292.33	285.25	324.01	323.19	-	7.29	7.39	8.06	8.10	-
323	Products of purchased glass	242.94	245.76	297.20	297.41	-	5.41	6.40	7.43	7.38	-
324	Cement, hydraulic	454.97	453.46	459.41	467.31	-	10.68	10.72	11.26	11.51	-
325	Structural clay products	244.73	237.46	267.55	270.68	-	5.18	6.29	6.59	5.70	-
326	Pottery and related products	240.24	234.84	273.24	276.19	-	6.24	6.33	6.90	7.01	-
327	Concrete, gypsum, and plaster products	316.63	318.61	339.39	342.72	-	7.45	7.55	8.10	8.15	-
3271	Concrete block and brick	283.96	291.25	315.48	311.41	-	6.65	6.68	7.36	7.45	-
3272	Concrete products, nec	277.38	279.71	298.91	304.80	-	6.62	6.74	7.10	7.24	-
3273	Ready-mixed concrete	351.42	350.27	367.69	370.87	-	3.23	8.32	8.99	8.98	-
329	Misc. nonmetallic mineral products	299.63	295.66	334.54	340.73	-	7.38	7.41	8.12	8.25	-
3291	Abrasive products	287.62	287.39	321.36	319.52	-	7.30	7.35	7.80	7.87	-
3292	Asbestos products	302.81	309.00	348.19	354.84	-	7.44	7.50	8.31	8.31	-
33	PRIMARY METAL INDUSTRIES	377.32	379.44	436.81	440.08	435.78	9.65	9.83	10.68	10.76	10.76
331	Blast furnace and basic steel products	427.12	434.71	505.09	505.92	-	11.24	11.47	12.41	12.40	-
3312	Blast furnaces and steel mills	441.13	450.20	520.76	522.52	-	11.67	11.91	12.89	12.87	-
3317	Steel pipe and tubes	347.65	340.77	427.23	420.93	-	3.96	9.21	10.10	10.07	-
332	Iron and steel foundries	314.73	311.54	358.20	368.52	-	8.07	8.05	9.30	9.19	-
3321	Gray iron foundries	311.12	308.77	361.82	381.64	-	8.06	8.02	9.23	9.47	-
3322	Malleable iron foundries	331.74	330.85	373.18	380.05	-	8.87	8.87	9.52	9.72	-
3325	Steel foundries, nec	319.98	315.51	350.66	343.76	-	3.06	8.09	8.47	3.53	-
333	Primary nonferrous metals	448.33	440.78	483.05	490.23	-	10.70	10.83	11.68	11.87	-
3334	Primary aluminum	481.64	484.26	515.42	521.48	-	11.55	11.53	12.48	12.75	-
335	Nonferrous rolling and drawing	355.25	357.46	406.73	410.18	-	3.75	8.87	9.57	9.72	-
3351	Copper rolling and drawing	291.78	297.86	368.93	360.82	-	7.52	7.56	8.54	8.53	-
3353	Aluminum sheet, plate, and foil	445.10	454.33	514.11	536.68	-	10.99	11.33	12.04	12.51	-
3357	Nonferrous wire drawing and insulating	326.36	328.05	371.36	368.63	-	7.96	8.10	8.80	8.84	-
336	Nonferrous foundries	282.30	277.40	323.97	323.60	-	7.22	7.30	7.96	7.99	-
3361	Aluminum foundries	289.20	281.94	333.34	330.48	-	7.34	7.40	8.17	8.15	-
34	FABRICATED METAL PRODUCTS	297.94	291.65	332.52	335.78	329.60	7.43	7.44	8.17	8.23	8.24
341	Metal cans and shipping containers	434.28	435.27	472.16	478.28	-	9.87	9.87	10.78	10.87	-
3411	Metal cans	453.77	456.26	489.92	497.25	-	10.22	10.23	11.16	11.25	-
342	Cutlery, hand tools, and hardware	268.66	261.95	314.81	318.00	-	6.96	6.93	7.89	7.95	-
3423, 5	Hand and edge tools, and hand saws and blades	263.25	262.33	299.55	299.49	-	6.82	6.94	7.47	7.45	-
3429	Hardware, nec	276.86	267.71	331.14	335.96	-	7.21	7.12	8.32	8.42	-
343	Plumbing and heating, except electric	251.79	244.65	280.41	286.77	-	6.54	6.63	7.19	7.26	-
3432	Plumbing fittings and brass goods	242.70	241.70	274.00	274.22	-	6.37	6.48	6.85	5.89	-
3433	Heating equipment, except electric	251.02	234.42	273.56	285.26	-	5.42	6.44	7.18	7.24	-
344	Fabricated structural metal products	290.73	287.83	315.97	317.19	-	7.25	7.25	7.86	7.31	-
3441	Fabricated structural metal	309.89	303.75	335.36	336.20	-	7.54	7.50	8.12	8.20	-
3442	Metal doors, sash, and trim	228.54	230.50	248.96	252.95	-	5.86	5.88	6.40	6.42	-
3443	Fabricated plate work (boiler shops)	323.83	320.36	352.19	350.38	-	7.86	7.91	8.59	3.63	-
3444	Sheet metal work	285.38	283.67	314.42	319.16	-	7.28	7.33	7.96	8.08	-
3446	Architectural metal work	264.49	267.02	290.60	291.46	-	5.73	6.76	7.32	7.65	-
345	Screw machine products, bolts, etc.	273.03	267.63	312.12	314.47	-	5.86	6.88	7.65	7.67	-
3451	Screw machine products	252.89	244.60	286.72	285.82	-	6.36	6.42	7.15	7.11	-
3452	Bolts, nuts, rivets, and washers	292.93	291.73	338.21	342.36	-	7.36	7.33	8.13	8.21	-
346	Metal forgings and stampings	344.00	330.03	397.57	405.88	-	8.60	8.55	9.58	9.71	-
3462	Iron and steel forgings	398.05	343.29	412.68	414.12	-	9.50	9.13	10.09	10.20	-
3465	Automotive stampings	412.97	423.60	505.91	521.40	-	10.35	10.67	11.63	11.85	-
3469	Metal stampings, nec	258.07	252.50	287.68	291.37	-	6.55	6.61	7.21	7.23	-
347	Metal services, nec	239.79	241.20	264.71	263.66	-	5.95	6.03	6.52	6.51	-
3471	Plating and polishing	227.94	226.94	254.63	254.23	-	5.80	5.91	6.43	5.42	-
3479	Metal coating and allied services	265.63	272.31	286.33	284.33	-	6.25	6.26	6.59	5.59	-
348	Ordnance and accessories, nec	303.73	295.32	332.11	331.70	-	7.39	7.42	8.12	8.11	-
3483	Ammunition, exc. for small arms, nec	272.25	263.58	295.07	294.47	-	6.91	6.90	7.47	7.57	-
349	Misc. fabricated metal products	279.70	272.26	307.04	311.00	-	7.01	7.09	7.50	7.55	-
3494	Valves and pipe fittings	298.89	291.43	334.94	331.29	-	7.38	7.55	8.11	8.10	-
3496	Misc. fabricated wire products	244.37	236.07	268.80	277.01	-	5.14	6.10	6.57	5.74	-
35	MACHINERY, EXCEPT ELECTRICAL	322.75	319.20	360.50	362.97	357.62	7.93	8.00	8.75	8.31	8.33
351	Engines and turbines	372.06	383.17	438.60	441.19	-	9.54	9.85	10.75	10.84	-
3511	Turbines and turbine generator sets	352.41	358.93	383.66	387.69	-	8.68	9.11	9.52	9.62	-
3519	Internal combustion engines, nec	377.86	391.49	457.56	458.18	-	9.84	10.09	11.16	11.23	-
352	Farm and garden machinery	346.32	354.99	390.67	398.52	-	8.88	9.01	9.67	9.84	-
3523	Farm machinery and equipment	357.75	366.80	408.03	414.12	-	9.08	9.17	10.35	10.20	-
353	Construction and related machinery	346.63	343.80	397.70	399.65	-	3.58	8.66	9.56	9.53	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
32	STONE, CLAY, AND GLASS PRODUCTS	41.0	40.3	41.1	41.1	40.6	3.6	3.6	3.9	4.3	-
321	Flat glass	40.7	40.2	41.4	43.9	-	3.0	3.6	3.7	5.0	-
322	Glass and glassware, pressed or blown	40.8	39.6	41.0	40.8	-	3.7	3.5	3.9	4.1	-
3221	Glass containers	41.3	40.3	41.5	41.4	-	4.2	4.0	4.3	4.6	-
3229	Pressed and blown glass, nec	40.1	38.6	40.2	39.9	-	3.1	2.9	3.4	3.5	-
323	Products of purchased glass	37.9	38.4	40.0	40.3	-	1.5	1.9	3.1	3.3	-
324	Cement, hydraulic	42.6	42.3	40.8	40.6	-	2.9	3.1	3.2	3.2	-
325	Structural clay products	39.6	38.3	40.6	40.4	-	2.7	2.7	3.0	2.7	-
326	Pottery and related products	38.5	37.1	39.6	39.4	-	1.9	1.8	2.1	1.8	-
327	Concrete, gypsum, and plaster products	42.5	42.2	41.9	42.0	-	5.2	5.1	5.3	5.2	-
3271	Concrete block and brick	42.7	43.6	43.0	41.8	-	5.0	5.2	5.3	4.9	-
3272	Concrete products, nec	41.9	41.5	42.1	42.1	-	4.3	4.1	4.6	4.7	-
3273	Ready-mixed concrete	42.7	42.1	40.9	41.3	-	5.9	5.6	5.4	5.4	-
329	Misc. nonmetallic mineral products	40.6	39.9	41.2	41.3	-	2.9	2.8	3.4	3.6	-
3291	Abrasive products	39.4	39.1	41.2	40.6	-	2.3	2.2	3.0	3.3	-
3292	Asbestos products	40.7	41.2	41.9	42.7	-	2.1	2.4	3.1	3.7	-
33	PRIMARY METAL INDUSTRIES	39.1	38.6	40.9	40.9	40.5	2.1	2.1	3.2	3.3	-
331	Blast furnace and basic steel products	38.0	37.9	40.7	40.8	-	1.4	1.4	2.9	3.0	-
3312	Blast furnaces and steel mills	37.8	37.8	40.4	40.6	-	1.3	1.3	2.7	2.8	-
3317	Steel pipe and tubes	38.8	37.0	42.3	41.8	-	1.9	1.9	4.7	4.2	-
332	Iron and steel foundries	39.0	38.7	39.8	40.1	-	2.1	2.2	3.0	3.2	-
3321	Gray iron foundries	38.6	38.5	39.2	40.3	-	1.8	1.9	3.1	3.6	-
3322	Malleable iron foundries	37.4	37.3	39.2	39.1	-	1.7	1.5	2.4	2.6	-
3325	Steel foundries, nec	39.7	39.0	41.4	40.3	-	2.7	2.7	3.0	2.5	-
333	Primary nonferrous metals	41.9	40.7	41.1	41.3	-	3.8	3.7	3.2	3.3	-
3334	Primary aluminum	41.7	42.0	41.3	40.9	-	4.0	3.9	3.5	3.4	-
335	Nonferrous rolling and drawing	40.6	40.3	42.5	42.2	-	3.1	3.0	4.8	4.6	-
3351	Copper rolling and drawing	38.8	39.4	43.2	42.3	-	2.2	1.8	5.5	4.6	-
3353	Aluminum sheet, plate and foil	40.5	40.1	42.7	42.9	-	4.6	4.8	5.9	5.3	-
3357	Nonferrous wire drawing and insulating	41.0	40.5	42.2	41.7	-	2.8	3.0	4.8	4.6	-
336	Nonferrous foundries	39.1	38.0	40.7	40.5	-	2.0	1.9	2.6	2.7	-
3361	Aluminum foundries	39.4	38.1	40.8	40.5	-	2.1	2.0	2.8	2.9	-
34	FABRICATED METAL PRODUCTS	40.1	39.2	40.7	40.8	40.0	2.4	2.4	3.0	3.1	-
341	Metal cans and shipping containers	44.0	44.1	43.8	44.0	-	4.2	4.4	4.5	4.9	-
3411	Metal cans	44.4	44.6	43.9	44.2	-	4.1	4.3	4.3	4.8	-
342	Cutlery, hand tools, and hardware	38.6	37.8	39.9	40.0	-	1.4	1.3	2.6	2.7	-
3423, 5	Hand and edge tools, and hand saws and blades	38.6	37.8	40.1	40.2	-	1.3	1.1	2.5	2.5	-
3429	Hardware, nec	38.4	37.6	39.8	39.9	-	1.3	1.2	2.8	2.9	-
343	Plumbing and heating, except electric	38.5	36.9	39.0	39.5	-	1.5	1.4	1.7	1.9	-
3432	Plumbing fittings and brass goods	38.1	37.3	40.0	39.8	-	1.1	1.0	2.2	2.3	-
3433	Heating equipment, except electric	39.1	36.4	38.1	39.4	-	1.8	1.7	1.1	1.6	-
344	Fabricated structural metal products	40.1	39.7	40.2	40.1	-	2.5	2.5	2.5	2.6	-
3441	Fabricated structural metal	41.1	40.5	41.3	41.0	-	3.5	3.3	2.9	2.9	-
3442	Metal doors, sash, and trim	39.0	39.2	38.9	39.4	-	1.6	2.3	2.1	2.2	-
3443	Fabricated plate work (boiler shops)	41.2	40.5	41.0	40.6	-	2.6	2.6	2.9	3.0	-
3444	Sheet metal work	39.2	38.7	39.5	39.5	-	2.5	2.3	2.3	2.3	-
3446	Architectural metal work	39.3	39.5	39.7	39.6	-	2.1	2.5	1.8	2.1	-
345	Screw machine products, bolts, etc.	39.8	38.9	40.8	41.0	-	2.8	2.5	3.1	3.0	-
3451	Screw machine products	39.7	38.1	40.1	40.2	-	3.0	2.7	2.8	2.8	-
3452	Bolts, nuts, rivets, and washers	39.8	39.8	41.6	41.7	-	2.6	2.3	3.3	3.2	-
346	Metal forgings and stampings	40.0	38.6	41.5	41.8	-	2.3	2.7	3.9	4.1	-
3462	Iron and steel forgings	41.9	37.6	40.9	40.6	-	2.5	2.6	3.3	3.4	-
3465	Automotive stampings	39.9	39.7	43.5	44.0	-	1.7	3.3	5.6	5.3	-
3469	Metal stampings, nec	39.4	38.2	39.9	40.3	-	2.4	2.1	2.6	2.7	-
347	Metal services, nec	40.3	40.0	40.6	40.5	-	3.1	3.0	2.8	2.9	-
3471	Plating and polishing	39.3	38.4	39.6	39.6	-	2.8	2.6	2.7	2.8	-
3479	Metal coating and allied services	42.5	43.5	42.8	42.5	-	3.6	4.0	2.9	3.3	-
348	Ordnance and accessories, nec	41.1	39.8	40.9	40.9	-	2.7	2.3	2.6	2.9	-
3483	Ammunition, exc. for small arms, nec	39.4	38.2	39.5	38.9	-	1.8	1.4	1.7	1.8	-
349	Misc. fabricated metal products	39.9	38.4	40.4	40.6	-	2.2	1.9	2.8	2.3	-
3494	Valves and pipe fittings	40.5	38.6	41.3	40.9	-	2.6	2.1	3.5	3.0	-
3496	Misc. fabricated wire products	39.8	38.7	40.3	41.1	-	1.9	1.6	2.5	2.9	-
35	MACHINERY, EXCEPT ELECTRICAL	40.7	39.9	41.2	41.2	40.5	3.0	2.7	3.3	3.4	-
351	Engines and turbines	39.0	38.9	40.8	40.7	-	1.9	1.5	3.4	3.3	-
3511	Turbines and turbine generator sets	40.6	39.4	40.3	40.3	-	4.0	3.6	3.1	3.1	-
3519	Internal combustion engines, nec	38.4	38.8	41.0	40.8	-	1.2	.8	3.5	3.4	-
352	Farm and garden machinery	39.0	39.4	40.4	40.5	-	2.1	1.9	3.3	3.5	-
3523	Farm machinery and equipment	39.4	40.0	40.6	40.6	-	2.3	2.0	3.6	3.7	-
353	Construction and related machinery	40.4	39.7	41.6	41.5	-	2.7	2.4	3.4	3.4	-

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				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
		MACHINERY, EXCEPT ELECTRICAL—Continued									
3531	Construction machinery	38.5	38.1	40.6	40.3	-	1.1	0.8	2.0	1.9	-
3532	Mining machinery	41.2	39.8	40.1	40.3	-	2.5	2.1	2.1	2.2	-
3533	Oil field machinery	43.1	42.4	45.5	45.0	-	5.3	5.1	6.3	6.3	-
3535	Conveyers and conveying equipment	40.5	39.9	39.1	38.8	-	2.8	3.0	2.4	2.6	-
3537	Industrial trucks and tractors	39.0	37.3	38.5	39.3	-	2.0	1.4	2.2	2.3	-
354	Metalworking machinery	42.2	40.6	42.0	41.9	-	4.5	3.8	4.3	4.3	-
3541	Machine tools, metal cutting types	43.5	41.1	42.4	42.0	-	5.9	4.8	4.8	4.9	-
3542	Machine tools, metal forming types	40.9	38.8	40.1	39.6	-	4.6	4.0	3.0	2.5	-
3544	Special dies, tools, jigs, and fixtures	42.8	41.6	42.7	42.9	-	4.8	4.4	5.2	5.1	-
3545	Machine tool accessories	41.4	40.3	41.6	41.4	-	3.9	3.2	3.6	3.5	-
3546	Power driven hand tools	39.2	37.7	39.3	38.5	-	2.0	1.4	1.9	2.1	-
355	Special industry machinery	41.1	40.0	41.1	41.1	-	3.1	2.8	2.8	2.8	-
3551	Food products machinery	40.3	38.8	40.8	40.6	-	2.3	1.9	2.1	2.1	-
3552	Textile machinery	40.6	39.4	40.3	41.3	-	2.3	1.8	2.1	2.4	-
3555	Printing trades machinery	42.9	41.3	42.7	42.7	-	4.1	3.5	3.8	3.3	-
356	General industrial machinery	40.7	39.7	41.0	41.0	-	3.1	2.9	3.2	3.2	-
3561	Pumps and pumping equipment	39.7	38.2	40.3	40.1	-	2.3	2.2	3.1	2.9	-
3562	Ball and roller bearings	42.0	41.7	42.4	42.2	-	4.0	4.2	3.9	3.5	-
3563	Air and gas compressors	41.3	40.4	41.9	41.7	-	3.6	3.9	3.3	3.3	-
3564	Blowers and fans	41.6	40.4	40.2	40.8	-	3.6	3.1	2.9	3.3	-
3566	Speed changers, drives, and gears	41.4	40.2	42.4	42.4	-	3.5	2.5	4.3	4.5	-
3568	Power transmission equipment, nec	40.1	38.2	41.4	41.5	-	2.2	2.0	3.5	3.8	-
357	Office and computing machines	41.4	40.7	41.1	40.8	-	2.4	2.3	2.4	2.4	-
3573	Electronic computing equipment	41.6	40.8	41.0	40.8	-	2.4	2.2	2.5	2.6	-
358	Refrigeration and service machinery	39.4	38.8	40.4	40.5	-	1.7	1.6	2.5	2.5	-
3585	Refrigeration and heating equipment	39.3	39.3	40.7	41.1	-	1.6	1.8	2.4	2.9	-
359	Misc. machinery, except electrical	40.4	39.8	41.1	41.4	-	3.5	3.2	3.8	3.8	-
3592	Carburetors, pistons, rings, valves	39.5	37.9	41.5	40.7	-	2.1	1.9	2.9	3.3	-
3599	Machinery, except electrical, nec	40.5	40.1	41.0	41.5	-	3.7	3.4	3.9	3.9	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	39.4	38.4	40.1	40.2	39.5	1.9	1.7	2.3	2.3	-
361	Electric distributing equipment	38.7	38.3	40.2	40.0	-	2.1	2.3	2.7	2.5	-
3612	Transformers	39.4	39.3	40.9	40.4	-	2.5	3.0	2.7	2.4	-
3613	Switchgear and switchboard apparatus	38.2	37.6	39.6	39.6	-	1.7	1.8	2.7	2.6	-
362	Electrical industrial apparatus	39.7	39.3	40.9	41.0	-	2.0	1.9	2.8	2.9	-
3621	Motors and generators	40.0	40.1	40.8	40.8	-	2.0	2.1	2.8	3.0	-
3622	Industrial controls	39.5	38.6	39.8	40.3	-	1.9	1.7	2.0	2.3	-
363	Household appliances	38.8	36.1	39.0	39.3	-	1.4	1.0	1.7	1.8	-
3632	Household refrigerators and freezers	39.3	36.6	38.8	39.7	-	1.2	1.5	1.5	1.9	-
3633	Household laundry equipment	39.0	35.8	38.8	38.9	-	.4	.3	.7	1.1	-
3634	Electric housewares and fans	39.1	37.3	38.9	39.2	-	1.6	.8	1.5	1.9	-
364	Electric lighting and wiring equipment	39.0	38.2	40.0	40.1	-	1.6	1.4	2.4	2.3	-
3641	Electric lamps	39.4	38.4	40.2	39.9	-	1.3	1.1	2.0	1.9	-
3643	Current-carrying wiring devices	39.4	39.1	40.6	40.6	-	1.8	1.8	2.9	2.8	-
3644	Noncurrent-carrying wiring devices	39.2	38.6	40.7	41.6	-	1.3	1.1	2.5	2.8	-
3645	Residential lighting fixtures	37.1	35.6	38.3	38.9	-	.6	.6	1.5	1.6	-
365	Radio and TV receiving equipment	38.1	37.9	39.4	39.6	-	1.3	1.1	1.9	1.5	-
3651	Radio and TV receiving sets	37.9	38.0	38.9	39.0	-	1.3	1.3	1.9	1.7	-
366	Communication equipment	40.3	39.7	40.4	40.8	-	2.1	1.9	2.1	2.1	-
3661	Telephone and telegraph apparatus	39.9	39.3	40.7	41.1	-	1.8	1.7	2.2	2.1	-
3662	Radio and TV communication equipment	40.6	40.0	40.2	40.6	-	2.3	2.1	2.0	2.1	-
367	Electronic components and accessories	39.4	38.2	40.0	39.9	-	2.2	2.1	2.3	2.2	-
3671 3	Electronic tubes	41.2	40.2	40.8	40.9	-	2.3	2.1	1.8	1.9	-
3674	Semiconductors and related devices	39.4	37.4	40.5	40.6	-	2.5	2.2	2.4	2.3	-
3679	Electronic components, nec	39.6	38.9	39.9	39.7	-	2.3	2.1	2.4	2.3	-
369	Misc. electrical equipment and supplies	39.3	38.1	40.4	40.5	-	1.2	1.0	2.4	2.3	-
3691	Storage batteries	38.1	37.4	40.1	40.1	-	.8	1.2	1.9	2.1	-
3694	Engine electrical equipment	39.0	37.3	40.0	40.2	-	.7	.7	2.4	2.2	-
37	TRANSPORTATION EQUIPMENT	40.0	39.6	41.6	41.4	40.7	2.6	2.8	3.7	3.6	-
371	Motor vehicles and equipment	38.8	38.6	42.2	42.1	-	1.6	1.8	4.1	3.9	-
3711	Motor vehicles and car bodies	38.1	38.4	42.7	42.5	-	1.4	1.8	4.6	4.2	-
3713	Truck and bus bodies	39.6	39.3	40.0	40.5	-	2.5	2.3	2.5	3.5	-
3714	Motor vehicle parts and accessories	39.4	38.8	42.4	42.2	-	1.7	1.9	4.0	4.0	-
3715	Truck trailers	37.5	37.0	37.7	37.7	-	1.0	.9	1.7	1.6	-
372	Aircraft and parts	41.7	41.1	41.5	41.3	-	3.9	3.9	3.5	3.5	-
3721	Aircraft	41.5	41.1	41.4	41.2	-	3.3	3.1	3.1	3.2	-
3724	Aircraft engines and engine parts	41.0	40.7	40.4	40.0	-	4.4	4.8	3.4	3.3	-
3728	Aircraft equipment, nec	42.7	41.4	42.8	42.8	-	4.6	4.5	4.4	4.5	-
373	Ship and boat building and repairing	40.9	40.2	40.8	40.2	-	3.5	3.7	3.6	3.3	-
3731	Ship building and repairing	41.1	40.4	40.6	40.2	-	3.5	3.9	3.4	3.3	-
3732	Boat building and repairing	39.9	39.5	41.7	40.3	-	3.3	3.3	4.3	3.6	-
374	Railroad equipment	38.9	38.9	38.5	-	-	2.3	3.0	2.1	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	\$371.13	\$363.40	\$402.70	\$412.10	-	\$9.03	\$9.20	\$9.87	\$9.93	-
3761	Guided missiles and space vehicles	374.10	366.43	408.44	421.04	-	9.08	9.23	10.11	10.17	-
379	Miscellaneous transportation equipment	283.04	285.57	299.96	294.46	-	7.39	7.36	7.37	7.33	-
3792	Travel trailers and campers	217.31	223.61	266.23	259.11	-	5.97	6.06	6.74	6.73	-
38	INSTRUMENTS AND RELATED PRODUCTS	275.00	271.26	294.59	296.54	\$298.69	5.79	6.85	7.31	7.34	\$7.43
381	Engineering and scientific instruments	294.11	291.40	312.83	317.29	-	7.07	7.09	7.53	7.72	-
382	Measuring and controlling devices	284.13	279.10	290.48	291.37	-	5.93	6.96	7.19	7.23	-
3822	Environmental controls	246.18	242.56	265.38	269.10	-	6.28	6.40	6.77	6.83	-
3823	Process control instruments	294.25	294.80	307.44	308.98	-	5.78	6.84	7.20	7.27	-
3825	Instruments to measure electricity	310.16	302.13	296.46	294.62	-	7.51	7.46	7.43	7.44	-
383	Optical instruments and lenses	293.15	296.86	301.84	315.02	-	7.15	7.44	7.70	7.74	-
384	Medical instruments and supplies	226.51	221.57	252.57	253.37	-	5.72	5.77	6.33	5.35	-
3841	Surgical and medical instruments	224.11	215.90	253.53	253.31	-	5.52	5.55	6.26	5.27	-
3842	Surgical appliances and supplies	229.31	226.48	251.66	253.84	-	5.91	5.96	6.42	5.41	-
385	Ophthalmic goods	210.94	204.91	224.07	224.00	-	5.30	5.35	5.56	5.60	-
386	Photographic equipment and supplies	359.51	356.53	398.52	398.55	-	8.79	8.76	9.72	9.65	-
387	Watches, clocks, and watchcases	198.12	192.62	224.19	224.01	-	5.20	5.22	5.69	5.70	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	208.35	206.22	230.68	231.86	228.31	5.44	5.47	5.93	5.93	5.93
391	Jewelry, silverware, and plated ware	214.88	217.55	238.77	242.06	-	5.73	5.71	6.30	5.32	-
3911	Jewelry, precious metal	204.20	206.23	234.84	238.24	-	5.61	5.65	6.33	5.37	-
393	Musical instruments	202.29	200.34	221.94	220.60	-	5.38	5.40	5.81	5.79	-
394	Toys and sporting goods	193.39	187.75	217.25	218.90	-	5.01	4.98	5.50	5.50	-
3942, 4	Dolls, games, toys, and children's vehicles	183.92	177.01	206.42	207.76	-	4.84	4.81	5.32	5.30	-
3949	Sporting and athletic goods, nec	203.06	199.31	227.93	231.26	-	5.18	5.15	5.67	5.71	-
395	Pens, pencils, office and art supplies	226.55	222.05	241.00	244.42	-	5.58	5.65	6.04	5.05	-
396	Costume jewelry and notions	176.81	175.58	198.27	199.95	-	4.69	4.72	5.11	5.14	-
3961	Costume jewelry	167.10	170.37	179.73	181.06	-	4.48	4.46	4.78	4.79	-
399	Miscellaneous manufactures	228.44	226.50	250.13	249.74	-	5.98	6.04	6.48	5.47	-
3993	Signs and advertising displays	246.35	240.31	266.34	266.17	-	6.50	6.46	6.90	6.86	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	270.86	275.31	295.71	294.92	295.37	6.84	6.90	7.43	7.41	7.44
201	Meat products	271.26	274.95	295.71	290.38	-	5.92	7.05	7.43	7.37	-
2011	Meat packing plants	346.93	350.02	369.22	359.79	-	3.38	8.60	8.94	8.84	-
2013	Sausages and other prepared meats	320.00	323.57	349.60	343.33	-	8.00	8.13	8.74	8.67	-
2016	Poultry dressing plants	161.98	165.52	183.74	181.44	-	4.45	4.51	4.81	4.80	-
202	Dairy products	283.50	289.49	303.89	309.09	-	5.75	6.86	7.43	7.43	-
2022	Cheese, natural and processed	261.06	267.15	276.51	287.96	-	6.43	6.58	7.39	7.11	-
2026	Fluid milk	302.60	306.31	317.12	322.63	-	7.07	7.14	7.55	7.70	-
203	Preserved fruits and vegetables	218.42	232.20	248.95	244.19	-	5.84	6.00	6.50	5.46	-
2032	Canned specialties	243.62	248.57	292.74	273.46	-	5.62	6.81	7.14	7.14	-
2033	Canned fruits and vegetables	221.43	243.49	265.00	255.07	-	6.05	6.18	6.83	5.73	-
2037	Frozen fruits and vegetables	201.70	215.84	220.80	215.51	-	5.35	5.71	6.00	5.14	-
204	Grain mill products	329.38	333.41	340.69	348.47	-	7.66	7.70	8.17	3.18	-
2041	Flour and other grain mill products	342.14	360.96	361.00	364.05	-	7.62	7.83	8.04	8.09	-
2048	Prepared feeds, nec	263.09	271.48	275.64	280.58	-	6.09	6.17	6.51	6.51	-
205	Bakery products	280.08	281.74	299.15	301.47	-	7.20	7.28	7.75	7.79	-
2051	Bread, cake, and related products	281.44	284.90	298.72	302.19	-	7.31	7.40	7.82	7.89	-
2052	Cookies and crackers	274.80	270.87	298.94	297.70	-	5.87	6.91	7.53	7.43	-
206	Sugar and confectionery products	260.56	265.05	292.80	292.33	-	5.63	6.71	7.32	7.29	-
2061-3	Cane and beet sugar	330.06	344.04	357.86	366.79	-	3.19	8.29	8.48	3.53	-
2065	Confectionery products	222.90	223.88	254.92	252.20	-	5.73	5.80	6.57	6.50	-
207	Fats and oils	301.59	304.88	332.13	334.34	-	7.03	7.14	7.75	7.83	-
208	Beverages	338.94	344.35	360.60	362.91	-	3.07	8.15	8.86	3.83	-
2082	Malt beverages	479.83	490.60	509.41	507.53	-	10.93	11.00	11.93	11.97	-
2086	Bottled and canned soft drinks	253.34	260.62	268.54	278.66	-	5.09	5.22	6.58	5.73	-
209	Misc. foods and kindred products	221.49	229.10	250.65	247.68	-	5.97	5.92	6.46	5.40	-
21	TOBACCO MANUFACTURES	307.58	296.46	348.56	357.34	371.22	3.01	8.10	9.33	9.33	9.47
211	Cigarettes	354.63	337.59	407.93	416.23	-	3.14	9.30	10.38	10.70	-
22	TEXTILE MILL PRODUCTS	195.62	195.20	217.62	218.97	217.80	4.94	5.07	5.40	5.42	5.50
221	Weaving mills, cotton	202.81	205.41	222.75	224.66	-	5.02	5.24	5.50	5.52	-
222	Weaving mills, synthetics	207.55	213.86	233.08	236.86	-	5.15	5.36	5.63	5.68	-
223	Weaving and finishing mills, wool	209.84	208.03	231.69	234.89	-	5.22	5.28	5.51	5.55	-
224	Narrow fabric mills	180.18	182.62	200.07	202.10	-	4.55	4.63	4.94	4.99	-
225	Knitting mills	181.63	178.40	194.95	195.20	-	4.73	4.77	5.39	5.37	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	41.1	39.5	40.8	41.5	-	3.3	3.0	3.2	3.3	-
3761	Guided missiles and space vehicles	41.2	39.7	40.4	41.4	-	2.9	2.8	2.8	3.0	-
379	Miscellaneous transportation equipment	38.3	38.8	40.7	39.9	-	1.2	1.5	2.6	1.9	-
3792	Travel trailers and campers	36.4	36.9	39.5	38.5	-	.5	1.2	2.0	1.7	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	40.5	39.6	40.3	40.4	40.2	2.1	1.8	2.2	2.3	-
381	Measuring and controlling devices	41.6	41.1	41.0	41.1	-	2.7	2.7	3.0	2.9	-
382	Environmental controls	41.0	40.1	40.4	40.3	-	2.1	1.7	1.9	2.1	-
3822	Process control instruments	39.2	37.9	39.2	39.4	-	1.1	1.1	1.5	1.5	-
3823	Instruments to measure electricity	43.4	43.1	42.7	42.5	-	3.6	3.3	2.9	2.9	-
3825	Optical instruments and lenses	41.3	40.5	39.9	39.6	-	1.7	1.2	1.6	1.8	-
383	Medical instruments and supplies	41.0	39.9	39.2	40.7	-	3.3	2.6	2.4	3.3	-
384	Surgical and medical instruments	39.6	38.4	39.9	39.9	-	1.8	1.4	2.1	2.3	-
3841	Surgical appliances and supplies	40.6	38.9	40.5	40.4	-	1.8	1.2	2.5	2.6	-
3842	Ophthalmic goods	38.8	38.0	39.2	39.6	-	2.1	1.7	1.9	2.2	-
385	Photographic equipment and supplies	39.8	38.3	40.3	40.0	-	1.8	1.3	1.6	1.6	-
386	Watches, clocks, and watchcases	40.9	40.7	41.0	41.3	-	2.5	2.2	2.9	2.7	-
387	Watches, clocks, and watchcases	38.1	36.9	39.4	39.3	-	.9	.6	1.5	1.2	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	38.3	37.7	38.9	39.1	38.5	1.5	1.3	1.9	1.9	-
391	Jewelry, precious metal	37.5	38.1	37.9	38.3	-	1.4	.8	1.7	1.7	-
3911	Musical instruments	36.4	36.5	37.1	37.4	-	1.4	.8	1.8	1.5	-
393	Toys and sporting goods	37.6	37.1	38.2	38.1	-	.7	.8	1.0	.8	-
394	Dolls, games, toys, and children's vehicles	38.6	37.7	39.5	39.8	-	1.3	1.0	2.1	2.3	-
3942, 4	Sporting and athletic goods, nec	38.0	36.8	38.8	39.2	-	1.2	.7	1.8	1.7	-
3949	Pens, pencils, office and art supplies	39.2	38.7	40.2	40.5	-	1.4	1.3	2.4	2.8	-
395	Costume jewelry and notions	40.6	39.3	39.9	40.4	-	2.3	2.3	1.9	2.4	-
396	Costume jewelry	37.7	37.2	38.8	38.9	-	1.7	1.0	2.0	2.0	-
3961	Miscellaneous manufactures	37.3	38.2	37.6	37.8	-	1.3	.9	1.7	1.7	-
399	Signs and advertising displays	38.2	37.5	38.6	38.6	-	1.5	1.5	2.0	1.7	-
3993	Signs and advertising displays	37.9	37.2	38.6	38.8	-	1.9	1.8	2.4	1.8	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	39.6	39.9	39.8	39.8	39.7	3.6	4.0	3.6	3.5	-
201	Meat packing plants	39.2	39.0	39.8	39.4	-	3.6	3.5	3.7	3.4	-
2011	Sausages and other prepared meats	41.4	40.7	41.3	40.7	-	4.7	4.4	4.3	3.7	-
2013	Poultry dressing plants	40.0	39.8	40.0	39.6	-	3.2	2.9	3.7	3.3	-
2016	Dairy products	36.4	36.7	38.2	37.8	-	2.5	2.6	3.1	2.9	-
202	Cheese, natural and processed	42.0	42.2	40.9	41.6	-	4.3	4.5	3.8	4.0	-
2022	Fluid milk	40.6	40.6	39.0	40.5	-	3.8	3.9	3.0	3.5	-
2026	Preserved fruits and vegetables	42.8	42.9	41.4	41.9	-	4.5	4.8	4.2	4.4	-
203	Canned specialties	37.4	38.7	38.3	37.8	-	2.8	4.2	2.7	2.8	-
2032	Canned fruits and vegetables	36.8	36.5	41.0	38.3	-	3.8	4.0	4.0	3.4	-
2033	Frozen fruits and vegetables	36.6	39.4	38.8	37.9	-	2.7	5.3	2.5	2.3	-
2037	Grain mill products	37.7	37.8	36.8	35.1	-	3.0	3.0	2.6	3.0	-
204	Flour and other grain mill products	43.0	43.3	41.7	42.6	-	5.5	5.8	5.0	5.2	-
2041	Prepared feeds, nec	44.9	46.1	44.9	45.0	-	5.7	6.8	5.4	5.7	-
2048	Bakery products	43.2	44.0	41.7	43.1	-	6.2	6.9	5.4	5.9	-
205	Bread, cake, and related products	38.9	38.7	38.6	38.7	-	3.4	3.4	3.1	3.2	-
2051	Cookies and crackers	38.5	38.5	38.2	38.3	-	3.8	3.8	3.3	3.5	-
2052	Sugar and confectionery products	40.0	39.2	39.7	39.8	-	2.2	2.2	2.4	2.4	-
206	Cane and beet sugar	39.3	39.5	40.0	40.1	-	1.9	2.2	2.5	2.3	-
2061-3	Confectionery products	40.3	41.5	42.2	43.0	-	1.4	2.8	3.1	3.6	-
2066	Fats and oils	38.9	38.6	38.8	38.8	-	2.0	1.9	2.3	1.9	-
207	Beverages	42.9	42.7	42.8	42.7	-	5.1	5.2	4.6	5.1	-
208	Malt beverages	42.0	42.2	40.7	41.1	-	4.4	4.8	4.4	4.7	-
2082	Bottled and canned soft drinks	43.9	44.6	42.7	42.4	-	5.8	6.5	6.6	6.5	-
2086	Misc. foods and kindred products	41.6	41.9	40.2	41.1	-	4.5	4.9	3.9	4.5	-
209	Misc. foods and kindred products	37.1	38.7	38.8	38.7	-	3.1	3.8	3.8	3.0	-
TOBACCO MANUFACTURES											
21	Cigarettes	38.4	36.6	38.6	38.3	39.2	.8	.9	2.3	1.7	-
211	Cigarettes	38.8	36.3	39.3	38.9	-	.8	.8	2.7	1.9	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	39.6	38.5	40.3	40.4	39.6	2.8	2.4	3.3	3.4	-
221	Weaving mills, synthetics	40.4	39.2	40.5	40.7	-	3.2	3.1	3.4	3.7	-
222	Weaving and finishing mills, wool	40.3	39.9	41.4	41.7	-	3.1	2.8	3.8	3.9	-
223	Narrow fabric mills	40.2	39.4	41.3	41.5	-	2.7	2.2	3.8	3.9	-
224	Knitting mills	39.6	39.7	40.5	40.5	-	2.0	1.6	2.5	2.6	-
225	Knitting mills	38.4	37.4	38.3	38.5	-	2.4	2.1	2.4	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				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
		TEXTILE MILL PRODUCTS—Continued									
2251	Women's hosiery, except socks	36.3	35.8	37.4	38.1	-	1.7	1.4	2.1	2.5	-
2252	Hosiery, nec	37.2	36.1	38.5	39.3	-	1.8	1.6	2.3	3.0	-
2253	Knit outerwear mills	38.7	37.8	37.5	37.6	-	2.3	2.4	2.2	2.1	-
2254	Knit underwear mills	36.7	37.1	36.4	36.7	-	1.4	1.4	1.2	1.3	-
2257	Circular knit fabric mills	41.0	39.8	39.2	39.0	-	4.0	3.5	2.6	2.1	-
226	Textile finishing, except wool	40.8	37.0	42.0	42.5	-	3.3	2.1	4.1	4.5	-
2261	Finishing plants, cotton	41.2	35.4	41.2	41.3	-	3.1	2.0	3.7	3.7	-
2262	Finishing plants, synthetics	41.0	38.6	43.1	44.1	-	3.8	2.3	4.6	5.8	-
227	Floor covering mills	38.9	38.1	40.8	40.6	-	2.6	2.5	4.3	4.0	-
228	Yarn and thread mills	39.4	38.5	40.4	40.2	-	3.0	2.4	3.5	3.4	-
2281	Yarn mills, except wool	40.0	38.8	40.4	40.4	-	3.1	2.7	3.6	3.6	-
2282	Throwing and winding mills	37.7	37.1	40.1	39.4	-	3.2	2.2	3.4	3.0	-
229	Miscellaneous textile goods	40.2	39.3	41.3	42.0	-	2.4	2.2	3.7	4.0	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.6	35.3	36.0	36.3	35.9	1.0	.8	1.1	1.2	-
231	Men's and boys' suits and coats	36.6	37.2	36.2	36.8	-	.8	.8	.7	.8	-
232	Men's and boys' furnishings	36.7	36.5	36.7	36.9	-	1.2	.8	.9	1.0	-
2321	Men's and boys' shirts and nightwear	36.8	36.5	36.5	36.5	-	1.3	.9	1.0	.9	-
2327	Men's and boys' separate trousers	35.9	35.3	36.4	36.4	-	.8	.6	1.1	1.2	-
2328	Men's and boys' work clothing	37.3	37.3	37.8	37.9	-	1.5	1.1	.9	1.1	-
233	Women's and misses' outerwear	33.5	33.4	34.0	34.3	-	.8	.7	1.0	1.0	-
2331	Women's and misses' blouses and waists	34.3	35.1	34.0	34.8	-	.8	.7	1.0	1.1	-
2335	Women's and misses' dresses	31.8	31.0	32.7	32.8	-	.8	.6	.9	.9	-
2337	Women's and misses' suits and coats	34.0	34.7	34.8	34.7	-	.8	.9	.7	.9	-
2339	Women's and misses' outerwear, nec	34.8	34.5	35.0	35.4	-	.9	.7	1.1	1.1	-
234	Women's and children's undergarments	36.1	35.2	36.2	36.8	-	1.1	.8	1.1	1.4	-
2341	Women's and children's underwear	36.8	35.5	36.3	36.9	-	1.2	.9	1.1	1.4	-
2342	Brassieres and allied garments	33.1	33.7	36.0	36.2	-	.6	.5	1.3	1.3	-
236	Children's outerwear	36.5	35.9	36.3	36.8	-	1.1	.8	1.1	1.4	-
2361	Children's dresses and blouses	36.2	35.3	35.7	36.4	-	.9	.9	.8	1.2	-
238	Misc. apparel and accessories	36.1	35.5	37.0	37.3	-	1.0	.7	1.3	1.4	-
239	Misc. fabricated textile products	37.1	36.6	38.9	39.3	-	1.3	.9	2.0	2.3	-
2391	Curtains and draperies	36.2	35.0	37.6	37.4	-	1.1	.3	1.3	1.1	-
2392	House furnishings, nec	37.2	36.6	38.3	38.9	-	1.5	1.2	1.8	2.3	-
2396	Automotive and apparel trimmings	37.4	38.1	41.3	41.7	-	.9	1.2	2.9	2.9	-
26	PAPER AND ALLIED PRODUCTS	41.7	41.4	42.5	42.7	42.4	3.7	4.2	4.4	4.5	-
261, 2, 6	Paper and pulp mills	44.1	44.1	45.0	44.9	-	5.9	6.9	6.4	5.3	-
262	Paper mills, except building paper	44.6	44.6	45.5	45.3	-	6.0	7.0	6.6	5.5	-
263	Paperboard mills	43.5	44.1	43.3	43.1	-	6.8	7.2	7.2	7.3	-
264	Misc. converted paper products	40.1	39.6	40.4	41.0	-	2.6	2.5	2.6	2.9	-
2641	Paper coating and glazing	41.6	39.4	42.1	42.6	-	2.9	2.5	3.0	3.0	-
2642	Envelopes	39.4	39.0	40.3	40.1	-	2.2	1.7	1.8	1.9	-
2643	Bags, except textile bags	40.2	40.8	40.3	40.5	-	2.4	2.6	2.6	2.8	-
265	Paperboard containers and boxes	40.3	39.8	41.9	42.2	-	1.9	2.3	3.5	3.6	-
2651	Folding paperboard boxes	40.7	40.9	42.0	42.7	-	3.1	3.5	4.0	4.2	-
2653	Corrugated and solid fiber boxes	40.2	39.8	42.0	42.4	-	1.1	1.7	3.6	3.7	-
2654	Sanitary food containers	41.4	39.5	43.1	43.7	-	2.6	3.0	3.7	4.2	-
27	PRINTING AND PUBLISHING	36.7	36.8	37.3	37.3	37.2	2.1	2.2	2.3	2.3	-
271	Newspapers	33.7	33.6	33.5	33.6	-	1.6	1.5	1.4	1.4	-
272	Periodicals	36.5	36.7	37.4	37.1	-	2.4	2.3	2.0	2.0	-
273	Books	37.1	38.0	38.9	38.2	-	1.7	2.1	2.7	2.2	-
2731	Book publishing	37.2	38.7	38.5	37.4	-	.7	1.2	2.3	1.5	-
2732	Book printing	36.9	37.1	39.4	39.0	-	2.7	3.2	3.2	2.9	-
274	Miscellaneous publishing	36.4	37.5	35.7	36.4	-	1.5	2.0	1.0	1.2	-
275	Commercial printing	37.7	37.7	38.6	38.5	-	2.4	2.5	2.8	2.8	-
2751	Commercial printing, letterpress	37.5	37.4	38.1	38.3	-	2.0	2.0	2.3	2.3	-
2752	Commercial printing, lithographic	37.8	37.9	38.8	38.6	-	2.5	2.7	3.1	3.0	-
276	Manifold business forms	40.1	39.7	40.1	40.6	-	2.3	2.7	2.6	3.0	-
278	Blank books and bookbinding	38.3	38.6	38.6	38.7	-	1.7	1.9	1.6	1.5	-
279	Printing trade service	37.4	37.6	37.3	37.7	-	3.1	3.6	3.5	3.3	-
28	CHEMICALS AND ALLIED PRODUCTS	41.2	40.7	41.6	41.7	41.6	2.8	2.8	3.2	3.3	-
281	Industrial inorganic chemicals	41.3	41.1	41.6	41.4	-	2.9	2.9	3.3	3.0	-
2819	Industrial inorganic chemicals, nec	40.9	40.8	41.3	41.1	-	2.7	2.9	3.0	2.8	-
282	Plastics materials and synthetics	40.5	40.3	42.0	42.2	-	2.2	2.4	3.4	3.5	-
2821	Plastics materials and resins	41.0	40.6	43.3	43.3	-	2.7	3.0	4.6	4.9	-
2824	Organic fibers, noncellulosic	39.8	39.9	41.2	41.3	-	1.5	1.7	2.4	2.3	-
283	Drugs	41.3	40.1	40.7	41.1	-	3.0	2.6	2.8	2.8	-
2834	Pharmaceutical preparations	40.6	39.3	40.2	40.7	-	3.1	2.6	2.7	2.9	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$307.04	\$307.23	\$335.36	\$334.95	-	\$7.60	\$7.70	\$8.26	\$8.25	-
2841	Soap and other detergents	425.27	435.89	447.53	446.04	-	9.89	10.09	10.53	10.52	-
2844	Toilet preparations	233.84	233.53	262.01	260.96	-	5.95	6.05	6.65	6.59	-
2842, 3	Polishing, sanitation, and finishing preparations	276.90	273.13	324.42	328.46	-	7.10	7.15	8.05	8.11	-
285	Paints and allied products	292.33	292.19	335.74	330.01	-	7.29	7.36	8.09	8.01	-
286	Industrial organic chemicals	407.77	408.79	446.05	456.19	-	9.64	9.71	10.57	10.56	-
2865	Cyclic crudes and intermediates	363.44	369.82	418.97	425.63	-	8.80	8.89	10.12	10.11	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	423.16	422.15	455.60	465.45	-	9.91	9.98	10.72	10.70	-
287	Agricultural chemicals	351.48	352.73	366.37	372.34	-	8.08	8.28	8.56	8.72	-
289	Miscellaneous chemical products	314.24	313.60	342.79	347.76	-	7.74	7.84	8.30	8.40	-
	PETROLEUM AND COAL PRODUCTS	431.88	437.68	491.81	488.42	\$502.48	10.21	10.25	11.28	11.28	\$11.42
291	Petroleum refining	465.04	470.37	533.05	526.53	-	11.02	10.99	12.17	12.16	-
295	Paving and roofing materials	329.18	334.62	371.36	380.95	-	7.62	7.80	8.44	8.58	-
	RUBBER AND MISC. PLASTICS PRODUCTS	254.27	252.83	295.30	296.93	290.14	6.47	6.55	7.22	7.26	7.29
301	Tires and inner tubes	367.65	362.45	462.16	467.73	-	9.50	9.93	11.03	11.11	-
302	Rubber and plastics footwear	182.21	187.44	177.71	187.23	-	4.38	4.40	4.79	4.74	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	284.69	287.15	328.18	331.69	-	6.86	7.09	7.74	7.86	-
306	Fabricated rubber products, nec	238.07	233.84	272.39	271.49	-	6.12	6.17	6.66	6.72	-
307	Miscellaneous plastics products	232.66	233.01	266.42	268.06	-	5.92	5.99	6.53	6.57	-
	LEATHER AND LEATHER PRODUCTS	170.17	165.98	185.13	187.49	180.18	4.55	4.56	4.95	4.96	4.95
311	Leather tanning and finishing	245.43	231.08	264.55	264.96	-	6.06	5.91	6.50	6.51	-
314	Footwear, except rubber	164.63	159.07	178.08	180.58	-	4.39	4.37	4.80	4.79	-
3143	Men's footwear, except athletic	175.18	167.90	194.66	195.00	-	4.61	4.60	5.03	5.00	-
3144	Women's footwear, except athletic	157.62	153.24	165.79	171.02	-	4.26	4.21	4.67	4.66	-
316	Luggage	181.54	193.67	193.15	190.62	-	4.88	5.11	4.94	4.93	-
317	Handbags and personal leather goods	155.79	147.99	167.08	171.92	-	4.28	4.34	4.68	4.71	-
	TRANSPORTATION AND PUBLIC UTILITIES	345.23	354.71	376.89	380.56	385.09	8.74	8.89	9.59	9.51	9.70
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	413.17	440.80	446.04	-	-	9.52	10.11	10.62	-	-
	LOCAL AND INTERURBAN PASSENGER TRANSPORTATION										
41	Local and suburban transportation	218.49	246.93	229.71	229.82	-	5.37	6.71	6.61	6.72	-
411	Local and suburban transportation	274.31	284.21	285.77	283.67	-	6.98	7.07	7.29	7.33	-
413	Intercity highway transportation	353.78	380.07	381.99	373.27	-	9.80	10.30	10.57	10.34	-
	TRUCKING AND WAREHOUSING	358.02	354.24	393.35	395.60	-	9.11	9.13	10.06	9.99	-
421, 3	Trucking and trucking terminals	366.03	361.23	402.19	404.15	-	9.29	9.31	10.26	10.18	-
422	Public warehousing	249.45	252.95	266.95	268.03	-	6.53	6.57	6.97	6.98	-
46	PIPE LINES, EXCEPT NATURAL GAS	431.32	428.40	488.46	474.88	-	10.52	10.20	11.63	11.20	-
	COMMUNICATION	330.30	335.27	360.76	367.20	-	8.32	8.34	9.11	9.18	-
481	Telephone communication	338.75	345.10	373.07	379.63	-	8.49	8.50	9.35	9.42	-
4817	Switchboard operating employees ³	224.53	231.82	259.76	259.31	-	6.93	6.92	7.64	7.56	-
4818	Line construction employees ⁴	439.49	449.33	468.93	484.00	-	10.08	10.12	10.88	11.00	-
483	Radio and television broadcasting	280.80	284.97	303.20	307.80	-	7.37	7.46	8.00	8.10	-
	ELECTRIC, GAS, AND SANITARY SERVICES	366.96	379.90	407.68	409.34	-	8.80	8.96	9.80	9.84	-
491	Electric services	383.35	405.59	420.33	421.16	-	9.02	9.26	9.89	9.93	-
492	Gas production and distribution	334.14	332.92	368.24	368.92	-	8.23	8.20	9.07	9.02	-
493	Combination utility services	388.40	402.27	451.69	452.51	-	9.45	9.67	10.99	11.01	-
495	Sanitary services	289.54	289.22	315.59	323.23	-	5.96	7.02	7.55	7.77	-
	WHOLESALE AND RETAIL TRADE	175.71	178.65	188.48	189.92	192.93	5.44	5.48	5.89	5.88	5.90
50, 51	WHOLESALE TRADE	265.11	266.64	289.14	289.50	291.82	6.94	6.98	7.51	7.53	7.55
50	WHOLESALE TRADE-DURABLE GOODS	268.80	269.66	291.75	292.11	-	5.91	6.95	7.50	7.49	-
501	Motor vehicles and automotive equipment	245.25	246.40	266.34	272.92	-	6.37	6.40	6.90	6.98	-
502	Furniture and home furnishings	237.75	236.33	258.54	259.50	-	5.34	6.37	6.95	6.92	-
503	Lumber and construction materials	270.59	272.26	297.18	301.08	-	7.01	7.09	7.62	7.72	-
504	Sporting goods, toys, and hobby goods	267.41	270.38	293.92	294.30	-	7.15	7.21	7.88	7.99	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.4	39.9	40.6	40.6	-	2.5	2.6	2.5	2.9	-
2841	Soap and other detergents	43.0	43.2	42.5	42.0	-	4.3	4.3	3.5	3.9	-
2844	Toilet preparations	39.3	38.6	39.4	39.6	-	1.8	2.2	2.0	2.4	-
2842, 3	Polishing, sanitation, and finishing preparations	39.0	38.2	40.3	40.5	-	1.4	1.3	2.3	2.5	-
285	Paints and allied products	40.1	39.7	41.5	41.2	-	2.0	2.1	3.5	3.3	-
286	Industrial organic chemicals	42.3	42.1	42.2	43.2	-	2.9	3.1	3.6	4.3	-
2865	Cyclic crudes and intermediates	41.3	41.6	41.4	42.1	-	2.5	2.3	3.5	3.9	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	42.7	42.3	42.5	43.5	-	3.1	3.3	3.6	4.0	-
287	Agricultural chemicals	43.5	42.6	42.8	42.7	-	5.0	4.5	4.7	4.3	-
289	Miscellaneous chemical products	40.6	40.0	41.3	41.4	-	2.5	2.5	2.9	3.1	-
29	PETROLEUM AND COAL PRODUCTS	42.3	42.7	43.6	43.3	44.0	3.0	3.5	4.2	3.7	-
291	Petroleum refining	42.2	42.8	43.8	43.3	-	2.6	3.0	4.0	3.3	-
295	Paving and roofing materials	43.2	42.9	44.0	44.4	-	5.3	5.9	5.7	5.1	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	39.3	38.6	40.9	40.9	39.8	2.1	2.2	3.2	3.3	-
301	Tires and inner tubes	38.7	36.5	41.9	42.1	-	1.1	1.6	2.9	3.1	-
302	Rubber and plastics footwear	41.6	42.6	37.1	39.5	-	2.8	3.1	2.3	3.0	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.5	40.5	42.4	42.2	-	1.5	1.7	3.1	3.1	-
306	Fabricated rubber products, nec	38.9	37.9	40.9	40.4	-	2.0	1.8	3.0	2.8	-
307	Miscellaneous plastics products	39.3	38.9	40.8	40.8	-	2.4	2.3	3.4	3.4	-
31	LEATHER AND LEATHER PRODUCTS	37.4	36.4	37.4	37.8	36.4	1.6	1.2	1.5	1.7	-
311	Leather tanning and finishing	40.5	39.1	40.7	40.7	-	3.0	2.1	3.6	3.4	-
314	Footwear, except rubber	37.5	36.4	37.1	37.7	-	1.5	1.0	1.2	1.5	-
3143	Men's footwear, except athletic	38.0	36.5	38.7	39.0	-	1.2	.7	1.3	1.5	-
3144	Women's footwear, except athletic	37.0	36.4	35.5	36.7	-	1.8	1.3	1.3	1.8	-
316	Luggage	37.2	37.9	39.1	38.2	-	2.4	3.3	1.5	1.9	-
317	Handbags and personal leather goods	36.4	34.1	35.7	36.5	-	1.4	1.2	1.3	1.5	-
	TRANSPORTATION AND PUBLIC UTILITIES	39.5	39.9	39.3	39.6	39.7	-	-	-	-	-
	RAILROAD TRANSPORTATION:										
4011	Class I railroads	43.4	43.6	42.0	-	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.3	36.8	34.6	34.2	-	-	-	-	-	-
411	Local and suburban transportation	39.3	40.2	39.2	38.7	-	-	-	-	-	-
413	Intercity highway transportation	36.1	36.9	35.8	36.1	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	39.3	38.8	39.1	39.6	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	39.4	38.8	39.2	39.7	-	-	-	-	-	-
422	Public warehousing	38.2	38.5	38.3	38.4	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	41.0	42.0	42.0	42.4	-	-	-	-	-	-
48	COMMUNICATION	39.7	40.2	39.6	40.0	-	-	-	-	-	-
481	Telephone communication	39.9	40.6	39.9	40.3	-	-	-	-	-	-
4817	Switchboard operating employees	32.4	33.5	34.0	34.3	-	-	-	-	-	-
4818	Line construction employees	43.6	44.4	43.1	44.0	-	-	-	-	-	-
483	Radio and television broadcasting	38.1	38.2	37.9	38.0	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.7	42.4	41.6	41.6	-	-	-	-	-	-
491	Electric services	42.5	43.8	42.5	42.2	-	-	-	-	-	-
492	Gas production and distribution	40.6	40.6	40.6	40.9	-	-	-	-	-	-
493	Combination utility services	41.1	41.6	41.1	41.1	-	-	-	-	-	-
495	Sanitary services	41.6	41.2	41.2	41.6	-	-	-	-	-	-
	WHOLESALE AND RETAIL TRADE	32.3	32.6	32.0	32.3	32.7	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.2	38.2	38.5	38.6	38.6	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	38.9	38.8	38.9	39.0	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.5	38.5	38.6	39.1	-	-	-	-	-	-
502	Furniture and home furnishings	37.5	37.1	37.2	37.5	-	-	-	-	-	-
503	Lumber and construction materials	38.6	38.4	39.0	39.0	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.4	37.5	37.3	37.3	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	\$321.93	\$318.24	\$349.92	\$346.58	-	\$8.15	\$8.16	\$8.77	\$8.73	-
506	Electrical goods	276.64	279.69	306.15	303.42	-	7.13	7.19	7.85	7.89	-
507	Hardware, plumbing, and heating equipment	253.33	253.72	266.50	266.64	-	6.58	6.59	6.94	5.98	-
508	Machinery, equipment, and supplies	281.24	282.10	303.79	302.59	-	7.12	7.16	7.73	7.58	-
509	Miscellaneous durable goods	225.04	220.71	240.24	240.00	-	5.83	5.87	6.24	5.25	-
51	WHOLESALE TRADE-NONDURABLE GOODS	258.96	262.17	284.26	285.38	-	5.98	7.01	7.52	7.51	-
511	Paper and paper products	290.18	287.07	311.70	305.44	-	7.95	7.93	8.47	8.30	-
512	Drugs, proprietaries, and sundries	273.79	274.16	293.23	297.70	-	7.44	7.37	7.99	7.95	-
513	Apparel, piece goods, and notions	231.10	229.22	249.75	247.05	-	5.28	6.28	6.75	6.75	-
514	Groceries and related products	244.28	252.98	286.48	287.23	-	5.92	6.95	7.43	7.43	-
516	Chemicals and allied products	327.89	321.70	343.15	349.20	-	9.28	8.27	8.89	9.00	-
517	Petroleum and petroleum products	342.28	341.70	353.70	342.99	-	8.60	8.50	9.00	8.84	-
518	Beer, wine, and distilled beverages	300.20	305.31	325.68	334.06	-	8.07	8.12	8.35	8.98	-
519	Miscellaneous nondurable goods	219.07	220.23	235.16	237.16	-	5.69	5.75	6.14	5.15	-
52-59	RETAIL TRADE	147.14	150.61	156.38	158.47	\$161.39	4.84	4.89	5.23	5.23	\$5.24
52	BUILDING MATERIALS AND GARDEN SUPPLIES	195.83	198.75	207.52	209.79	-	5.25	5.30	5.67	5.67	-
521	Lumber and other building materials	217.72	219.13	228.51	229.51	-	5.54	5.59	5.92	5.90	-
525	Hardware stores	157.54	159.38	169.85	171.36	-	4.62	4.58	5.07	5.04	-
53	GENERAL MERCHANDISE STORES	141.41	145.31	148.63	151.34	-	4.81	4.86	5.09	5.13	-
531	Department stores	146.41	150.49	153.36	157.24	-	4.98	5.05	5.27	5.33	-
533	Variety stores	116.92	118.40	121.64	122.43	-	3.95	3.96	4.18	4.15	-
539	Misc. general merchandise stores	113.58	116.27	128.29	129.44	-	3.85	3.85	4.22	4.23	-
54	FOOD STORES	194.30	201.88	212.28	217.09	-	5.11	6.25	6.87	5.87	-
541	Grocery stores	202.55	209.95	222.14	226.81	-	5.31	6.46	7.12	7.11	-
546	Retail bakeries	138.14	138.27	137.54	143.86	-	4.62	4.64	4.86	4.91	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	211.31	215.46	228.61	229.82	-	5.62	5.70	6.08	5.08	-
551, 2	New and used car dealers	251.52	255.84	268.80	269.95	-	6.55	6.68	7.00	7.03	-
553	Auto and home supply stores	210.94	216.36	230.11	228.63	-	5.17	5.29	5.71	5.59	-
554	Gasoline service stations	156.29	160.03	172.18	172.79	-	4.44	4.47	4.85	4.84	-
56	APPAREL AND ACCESSORY STORES	122.69	124.26	130.95	133.34	-	4.26	4.27	4.66	4.63	-
561	Men's and boys' clothing and furnishings	156.33	159.41	167.69	168.20	-	4.84	4.89	5.29	5.24	-
562	Women's ready-to-wear stores	109.33	111.60	116.31	118.96	-	3.99	4.00	4.34	4.31	-
565	Family clothing stores	117.01	113.27	125.89	130.59	-	4.12	4.06	4.48	4.55	-
566	Shoe stores	128.33	133.06	137.55	138.33	-	4.41	4.48	4.93	4.82	-
57	FURNITURE AND HOME FURNISHINGS STORES	189.31	193.55	201.48	204.04	-	5.44	5.53	5.84	5.88	-
571	Furniture and home furnishings stores	192.24	193.28	202.76	205.91	-	5.54	5.57	5.86	5.90	-
572	Household appliance stores	200.15	205.85	220.19	220.01	-	5.67	5.75	6.22	5.18	-
573	Radio, television, and music stores	174.73	186.91	186.48	188.94	-	5.05	5.28	5.55	5.64	-
58	EATING AND DRINKING PLACES⁵	97.52	98.26	101.79	103.36	-	3.68	3.68	3.93	3.93	-
59	MISCELLANEOUS RETAIL	150.87	153.28	159.32	160.65	-	4.82	4.82	5.09	5.10	-
591	Drug stores and proprietary stores	130.54	132.88	136.12	138.18	-	4.41	4.40	4.71	4.70	-
594	Miscellaneous shopping goods stores	136.65	140.26	145.01	147.08	-	4.51	4.51	4.77	4.76	-
596	Nonstore retailers	191.48	194.05	199.92	198.24	-	5.75	5.81	5.95	5.90	-
598	Fuel and ice dealers	237.84	238.70	253.84	256.51	-	6.21	6.20	6.58	5.53	-
599	Retail stores, nec	159.09	162.35	171.20	170.61	-	4.88	4.89	5.05	5.17	-
-	FINANCE, INSURANCE, AND REAL ESTATE⁶	210.03	208.87	225.26	225.99	228.69	5.77	5.77	6.24	5.25	5.30
60	BANKING	180.68	180.31	194.91	195.28	-	4.95	4.94	5.34	5.35	-
602	Commercial and stock savings banks	177.76	176.90	191.63	191.99	-	4.87	4.86	5.25	5.26	-
61	CREDIT AGENCIES OTHER THAN BANKS	189.67	187.82	202.03	202.40	-	5.14	5.16	5.52	5.53	-
612	Savings and loan associations	181.06	177.02	187.72	188.96	-	4.92	4.89	5.20	5.22	-
614	Personal credit institutions	181.90	184.47	200.93	201.84	-	4.97	5.11	5.49	5.47	-
63	INSURANCE CARRIERS	237.13	239.14	254.82	257.85	-	6.29	6.36	6.85	5.95	-
631	Life insurance	248.03	249.10	264.08	269.70	-	6.51	6.59	7.08	7.25	-
632	Medical service and health insurance	228.22	227.84	243.00	242.73	-	5.99	5.98	6.48	5.49	-
633	Fire, marine, and casualty insurance	230.51	232.73	247.73	250.24	-	6.23	6.29	6.75	6.80	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.5	39.0	39.9	39.7	-	-	-	-	-	
505	Electrical goods	38.8	38.9	39.0	38.9	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.5	38.5	38.4	38.2	-	-	-	-	-	
508	Machinery, equipment, and supplies	39.5	39.4	39.3	39.4	-	-	-	-	-	
509	Miscellaneous durable goods	38.6	37.6	38.5	38.4	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS ..	37.1	37.4	37.8	38.0	-	-	-	-	-	
511	Paper and paper products	36.5	36.2	36.8	36.8	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	36.8	37.2	36.7	37.4	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.8	36.5	37.0	36.6	-	-	-	-	-	
514	Groceries and related products	35.3	36.4	38.3	38.4	-	-	-	-	-	
516	Chemicals and allied products	39.6	38.9	38.6	38.8	-	-	-	-	-	
517	Petroleum and petroleum products	39.8	40.2	39.3	38.8	-	-	-	-	-	
518	Beer, wine, and distilled beverages	37.2	37.6	36.8	37.2	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.5	38.3	38.3	38.5	-	-	-	-	-	
52-59	RETAIL TRADE	30.4	30.8	29.9	30.3	30.8	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	37.3	37.5	36.6	37.0	-	-	-	-	-	
521	Lumber and other building materials	39.3	39.2	38.6	38.9	-	-	-	-	-	
525	Hardware stores	34.1	34.8	33.5	34.0	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	29.4	29.9	29.2	29.5	-	-	-	-	-	
531	Department stores	29.4	29.8	29.1	29.5	-	-	-	-	-	
533	Variety stores	29.6	29.9	29.1	29.5	-	-	-	-	-	
539	Misc. general merchandise stores	29.5	30.2	30.4	30.6	-	-	-	-	-	
54	FOOD STORES	31.8	32.3	30.9	31.6	-	-	-	-	-	
541	Grocery stores	32.1	32.5	31.2	31.9	-	-	-	-	-	
546	Retail bakeries	29.9	29.8	28.3	29.3	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.6	37.8	37.6	37.8	-	-	-	-	-	
551, 2	New and used car dealers	38.4	38.3	38.4	38.4	-	-	-	-	-	
553	Auto and home supply stores	40.8	40.9	40.3	40.9	-	-	-	-	-	
554	Gasoline service stations	35.2	35.8	35.5	35.7	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	28.8	29.1	28.1	28.8	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	32.3	32.6	31.7	32.1	-	-	-	-	-	
562	Women's ready-to-wear stores	27.4	27.9	26.8	27.6	-	-	-	-	-	
565	Family clothing stores	28.4	27.9	28.1	28.7	-	-	-	-	-	
566	Shoe stores	29.1	29.7	27.9	28.7	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES	34.8	35.0	34.5	34.7	-	-	-	-	-	
571	Furniture and home furnishings stores	34.7	34.7	34.6	34.9	-	-	-	-	-	
572	Household appliance stores	35.3	35.8	35.4	35.6	-	-	-	-	-	
573	Radio, television, and music stores	34.6	35.4	33.6	33.5	-	-	-	-	-	
58	EATING AND DRINKING PLACES	26.5	26.7	25.9	26.3	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	31.3	31.8	31.3	31.5	-	-	-	-	-	
591	Drug stores and proprietary stores	29.6	30.2	28.9	29.4	-	-	-	-	-	
594	Miscellaneous shopping goods stores	30.3	31.1	30.4	30.9	-	-	-	-	-	
596	Nonstore retailers	33.3	33.4	33.6	33.6	-	-	-	-	-	
598	Fuel and ice dealers	38.3	38.5	38.0	38.4	-	-	-	-	-	
599	Retail stores, nec	32.6	33.2	33.9	33.0	-	-	-	-	-	
-	FINANCE, INSURANCE, AND REAL ESTATE	36.4	36.2	36.1	36.1	36.3	-	-	-	-	
60	BANKING	36.5	36.5	36.5	36.5	-	-	-	-	-	
602	Commercial and stock savings banks	36.5	36.4	36.5	36.5	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.9	36.4	36.6	36.6	-	-	-	-	-	
612	Savings and loan associations	36.8	36.2	36.1	36.2	-	-	-	-	-	
614	Personal credit institutions	36.6	36.1	36.6	36.9	-	-	-	-	-	
63	INSURANCE CARRIERS	37.7	37.6	37.2	37.1	-	-	-	-	-	
631	Life insurance	38.1	37.8	37.3	37.2	-	-	-	-	-	
632	Medical service and health insurance	38.1	38.1	37.5	37.4	-	-	-	-	-	
633	Fire, marine, and casualty insurance	37.0	37.0	36.7	36.8	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
-	SERVICES	\$190.57	\$191.32	\$205.73	\$206.66	\$208.89	\$5.81	\$5.78	\$6.33	\$6.32	\$6.33
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	139.15	137.77	147.05	147.25	-	4.46	4.43	4.79	4.75	-
	PERSONAL SERVICES:										
721	Lundry, cleaning, and garment services	151.53	151.87	162.24	164.08	-	4.47	4.52	4.80	4.84	-
723	Beauty shops	129.60	126.71	140.87	143.58	-	4.32	4.31	4.68	4.77	-
	BUSINESS SERVICES										
73	Advertising	199.98	202.40	213.19	213.19	-	5.06	6.06	6.48	5.49	-
731	Services to buildings	289.07	281.67	312.21	313.47	-	3.12	7.89	8.77	8.83	-
734	Computer and data processing services	144.84	146.40	149.33	148.51	-	5.21	5.21	5.47	5.44	-
737	Automotive repair shops	258.84	263.15	293.18	292.35	-	7.17	7.19	7.86	7.93	-
	AUTO REPAIR, SERVICES, AND GARAGES										
75	Miscellaneous repair services	228.61	232.41	240.41	243.84	-	5.08	6.10	6.36	6.40	-
753	Motion picture production and services	252.85	254.28	266.95	270.68	-	6.50	6.52	6.81	5.87	-
	MISCELLANEOUS REPAIR SERVICES										
76	Motion picture production and services	270.48	276.50	297.59	299.90	-	5.90	7.00	7.65	7.57	-
	MOTION PICTURES										
78	Motion picture production and services	206.06	200.36	209.99	199.94	-	7.23	7.03	8.30	7.31	-
781	Amusement and recreation services	421.20	398.48	466.26	440.71	-	13.40	10.27	12.27	11.69	-
	AMUSEMENT AND RECREATION SERVICES										
79	Amusement and recreation services	164.47	164.84	176.03	172.14	-	5.34	5.20	6.07	5.70	-
	HEALTH SERVICES										
80	Offices of physicians	185.46	188.58	203.72	205.30	-	5.62	5.68	6.23	5.24	-
801	Offices of dentists	190.19	190.45	208.66	208.98	-	5.87	5.86	6.46	5.43	-
802	Nursing and personal care facilities	163.29	161.87	177.16	174.72	-	5.65	5.64	6.26	5.24	-
805	Hospitals	129.17	131.67	138.60	139.50	-	4.14	4.18	4.50	4.50	-
806	Legal services	204.17	209.42	226.45	228.80	-	5.97	6.07	6.68	6.69	-
	LEGAL SERVICES										
81	Legal services	256.34	253.62	271.10	274.63	-	7.43	7.33	7.95	8.03	-
	MISCELLANEOUS SERVICES										
89	Engineering and architectural services	321.77	324.61	348.73	355.64	-	8.49	8.52	9.25	9.31	-
891	Accounting, auditing, and bookkeeping	351.14	352.69	387.00	387.87	-	9.05	9.09	10.00	9.92	-
893	Accounting, auditing, and bookkeeping	270.48	277.49	287.98	297.38	-	7.33	7.38	7.70	7.93	-

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

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

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

⁴ Data relate to employees in such occupations in the telephone industry as central office craft persons; installation and exchange repair craft persons; line, cable and conduit craft persons; and laborers. In 1977, such employees made up 37 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁵ Money payments only; tips, not included.

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

- Data not available.

p - preliminary.

NOTE: Data from April 1980 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustment" in the Explanatory notes of this publication.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1980	July 1980	May 1981	June 1981P	July 1981P	June 1980	July 1980	May 1981	June 1981P	July 1981P
		-	SERVICES	32.8	33.1	32.5	32.7	33.0	-	-	-
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	31.2	31.1	30.7	31.0	-	-	-	-	-	-
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	33.9	33.6	33.8	33.9	-	-	-	-	-	-
723	Beauty shops	30.0	29.4	30.1	30.1	-	-	-	-	-	-
73	BUSINESS SERVICES	33.0	33.4	32.9	32.9	-	-	-	-	-	-
731	Advertising	35.6	35.7	35.6	35.5	-	-	-	-	-	-
734	Services to buildings	27.8	28.1	27.3	27.3	-	-	-	-	-	-
737	Computer and data processing services	36.1	36.6	37.3	37.1	-	-	-	-	-	-
75	AUTO REPAIR, SERVICES, AND GARAGES	37.6	38.1	37.8	38.1	-	-	-	-	-	-
753	Automotive repair shops	38.9	39.0	39.2	39.4	-	-	-	-	-	-
76	MISCELLANEOUS REPAIR SERVICES	39.2	39.5	38.9	39.1	-	-	-	-	-	-
78	MOTION PICTURES	28.5	28.5	25.3	25.6	-	-	-	-	-	-
781	Motion picture production and services	40.5	38.8	38.0	37.7	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	30.8	31.7	29.0	30.2	-	-	-	-	-	-
80	HEALTH SERVICES	33.0	33.2	32.7	32.9	-	-	-	-	-	-
801	Offices of physicians	32.4	32.5	32.3	32.2	-	-	-	-	-	-
802	Offices of dentists	28.9	28.7	28.3	28.0	-	-	-	-	-	-
805	Nursing and personal care facilities	31.2	31.5	30.8	31.0	-	-	-	-	-	-
806	Hospitals	34.2	34.5	33.9	34.2	-	-	-	-	-	-
81	LEGAL SERVICES	34.5	34.6	34.1	34.2	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	37.9	38.1	37.7	38.2	-	-	-	-	-	-
891	Engineering and architectural services	38.8	38.8	38.7	39.1	-	-	-	-	-	-
893	Accounting, auditing, and bookkeeping	36.9	37.6	37.4	37.5	-	-	-	-	-	-

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				
	June 1980	July 1980	May 1981	June 1981P	July 1981P
MANUFACTURING	\$6.99	\$7.07	\$7.64	\$7.68	\$7.73
DURABLE GOODS	7.45	7.54	8.15	8.21	8.24
Lumber and wood products	6.31	6.46	6.68	6.83	-
Furniture and fixtures	5.40	5.45	5.69	5.73	-
Stone, clay, and glass products	7.21	7.27	7.82	7.92	-
Primary metal industries	9.40	9.57	10.27	10.34	-
Fabricated metal products	7.22	7.22	7.88	7.93	-
Machinery, except electrical	7.65	7.74	8.41	8.47	-
Electric and electronic equipment	6.70	6.80	7.34	7.36	-
Transportation equipment	8.93	9.00	9.82	9.92	-
Instruments and related products	6.62	6.70	7.11	7.14	-
Miscellaneous manufacturing industries	5.34	5.38	5.79	5.79	-
NONDURABLE GOODS	6.30	6.40	6.86	6.88	6.97
Food and kindred products	6.54	6.57	7.11	7.09	-
Tobacco manufactures	7.92	8.01	8.77	9.12	-
Textile mill products	4.77	4.92	5.19	5.20	-
Apparel and other textile products	4.45	4.45	4.91	4.91	-
Paper and allied products	7.45	7.58	8.00	8.10	-
Printing and publishing	7.25	7.31	7.35	7.90	-
Chemicals and allied products	7.98	8.09	8.65	8.69	-
Petroleum and coal products	9.86	9.85	10.77	10.82	-
Rubber and misc. plastics products	6.30	6.37	6.95	6.98	-
Leather and leather products	4.45	4.48	4.85	4.84	-

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

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

p=preliminary

C-4. Gross and spendable average weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division, in current and constant (1977) dollars

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
	June 1980	May 1981	June 1981P	Worker with no dependents			Married worker with 3 dependents		
				June 1980	May 1981	June 1981P	June 1980	May 1981	June 1981P
TOTAL PRIVATE:									
Current dollars	\$233.33	\$252.38	\$254.88	\$187.59	\$199.59	\$201.32	\$205.06	\$213.20	\$220.08
Constant (1977) dollars	170.94	170.18	170.49	137.43	134.59	134.66	150.23	147.13	147.21
MINING:									
Current dollars	395.28	423.98	416.64	293.63	308.61	304.26	324.93	342.78	337.59
Constant (1977) dollars	289.58	285.89	278.69	215.11	208.10	203.52	238.04	231.14	225.88
CONSTRUCTION:									
Current dollars	371.04	388.56	396.44	279.12	287.59	292.27	307.59	318.22	323.68
Constant (1977) dollars	271.82	262.01	265.18	204.48	193.92	195.50	225.34	214.58	216.51
MANUFACTURING:									
Current dollars	282.96	317.59	319.99	221.94	243.40	244.92	242.71	266.99	268.72
Constant (1977) dollars	207.30	214.15	214.04	162.59	164.13	163.83	177.81	180.03	179.75
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	345.23	376.89	380.56	262.71	280.66	282.84	288.78	309.89	312.55
Constant (1977) dollars	252.92	254.14	254.56	192.46	189.25	189.19	211.56	203.96	209.36
WHOLESALE AND RETAIL TRADE:									
Current dollars	175.71	188.48	189.92	145.64	154.12	155.16	162.34	169.85	170.78
Constant (1977) dollars	128.73	127.09	127.04	106.70	103.92	103.79	118.93	114.53	114.23
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	210.03	225.26	225.99	170.80	180.73	181.25	187.13	197.76	198.31
Constant (1977) dollars	153.87	151.89	151.16	125.13	121.87	121.24	137.09	133.35	132.63
SERVICES:									
Current dollars	190.57	205.73	206.66	156.62	166.60	167.27	172.20	182.71	183.43
Constant (1977) dollars	139.61	138.73	138.23	114.74	112.34	111.39	125.15	123.20	122.70

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

² Spendable earnings are calculated by taking the average weekly pay for all production or nonsupervisory jobs, both full-time and part-time, and then deducting social security and Federal income taxes applicable to a single worker or to a married worker with three dependents who earned

this amount (see Explanatory Notes for the establishment data in the back of this publication). A technical note on the calculation and uses of the spendable earnings series is available on request.

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	June 1980	July 1980	May 1981	June 1981P	July 1981P
	Hours				
TOTAL PRIVATE	107.7	107.0	108.4	110.3	110.6
GOODS-PRODUCING	102.2	98.6	102.5	104.8	103.5
MINING	125.6	119.2	113.5	131.5	140.9
CONSTRUCTION	123.9	123.8	113.8	118.7	122.0
MANUFACTURING	96.9	92.7	99.8	100.9	98.2
DURABLE GOODS	96.6	91.7	100.6	101.4	98.1
Lumber and wood products	87.4	86.9	94.7	95.7	92.9
Furniture and fixtures	91.2	83.9	100.0	101.3	96.1
Stone, clay, and glass products	95.6	92.1	95.2	96.8	94.1
Primary metal industries	87.7	81.6	95.1	95.9	93.2
Fabricated metal products	95.1	88.6	97.8	98.9	95.2
Machinery, except electrical	110.3	105.1	111.2	112.1	109.1
Electric and electronic equipment	103.6	98.2	108.4	109.6	106.6
Transportation equipment	85.8	82.0	92.2	91.8	87.4
Instruments and related products	112.8	108.4	111.7	113.2	111.7
Miscellaneous manufacturing industries	92.2	86.5	91.6	93.6	90.3
NONDURABLE GOODS	97.4	94.2	98.7	100.2	98.2
Food and kindred products	98.4	102.2	95.8	97.7	100.2
Tobacco manufactures	88.5	83.9	88.8	90.4	94.3
Textile mill products	90.5	84.2	92.1	93.2	89.3
Apparel and other textile products	97.1	90.3	96.9	99.1	93.7
Paper and allied products	98.4	95.3	99.9	101.8	100.1
Printing and publishing	105.5	104.6	108.5	108.2	107.4
Chemicals and allied products	101.1	97.8	102.0	103.1	102.6
Petroleum and coal products	101.5	103.8	105.1	105.0	106.9
Rubber and misc. plastics products	92.9	86.3	103.5	105.1	100.6
Leather and leather products	92.8	79.9	92.6	94.4	85.8
SERVICE-PRODUCING	110.8	111.7	111.7	113.4	114.5
TRANSPORTATION AND PUBLIC UTILITIES	106.7	106.6	104.9	106.5	106.1
WHOLESALE AND RETAIL TRADE	106.1	106.6	106.2	108.0	109.0
WHOLESALE TRADE	109.8	109.8	111.1	112.3	112.4
RETAIL TRADE	104.6	105.4	104.4	106.3	107.7
FINANCE, INSURANCE, AND REAL ESTATE	116.2	116.4	117.5	119.0	120.2
SERVICES	116.4	118.3	119.0	120.8	122.4

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	June 1980	July 1980	May 1981	June 1981P	July 1981P
	Payrolls				
TOTAL PRIVATE	135.6	135.4	148.2	151.4	152.4
GOODS-PRODUCING	130.3	127.3	141.8	146.3	146.1
MINING	165.5	155.7	158.3	187.9	204.5
CONSTRUCTION	149.6	151.2	147.8	155.2	161.9
MANUFACTURING	123.0	119.1	139.2	141.5	138.4
DURABLE GOODS	122.5	117.4	140.2	142.4	138.1
Lumber and wood products	111.8	113.8	128.6	133.0	129.4
Furniture and fixtures	115.5	106.8	134.4	137.2	130.4
Stone, clay, and glass products	123.9	120.4	134.3	138.3	135.5
Primary metal industries	114.4	108.3	137.2	139.3	135.4
Fabricated metal products	119.7	111.5	135.3	137.7	132.8
Machinery, except electrical	139.7	134.3	155.6	157.9	154.0
Electric and electronic equipment	131.7	126.5	151.8	153.8	150.9
Transportation equipment	108.6	105.0	129.8	130.4	124.0
Instruments and related products	144.8	140.4	154.3	157.1	156.9
Miscellaneous manufacturing industries	114.9	108.5	124.6	127.2	122.6
NONDURABLE GOODS	123.9	122.0	137.5	139.9	138.9
Food and kindred products	125.3	131.2	132.5	134.7	138.7
Tobacco manufactures	127.9	122.7	144.8	152.2	161.0
Textile mill products	112.2	107.2	124.9	126.6	123.2
Apparel and other textile products	120.9	112.1	133.2	136.6	127.9
Paper and allied products	128.5	127.3	141.1	145.8	145.8
Printing and publishing	128.5	128.6	143.5	143.8	144.2
Chemicals and allied products	129.7	127.2	142.6	144.8	146.0
Petroleum and coal products	132.4	135.9	151.4	151.3	155.9
Rubber and misc. plastics products	116.2	109.4	144.4	147.5	141.7
Leather and leather products	117.2	101.0	127.2	129.7	117.8
SERVICE-PRODUCING	139.4	141.1	152.6	155.0	156.9
TRANSPORTATION AND PUBLIC UTILITIES	133.5	135.5	143.8	146.5	147.2
WHOLESALE AND RETAIL TRADE	134.9	136.7	146.2	148.6	150.4
WHOLESALE TRADE	141.3	142.0	154.7	156.2	157.6
RETAIL TRADE	131.4	133.8	141.7	144.5	146.6
FINANCE, INSURANCE, AND REAL ESTATE	147.6	147.9	161.3	163.9	166.8
SERVICES	145.3	147.1	162.1	164.2	166.6

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	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
TOTAL PRIVATE	35.1	35.2	35.3	35.3	35.3	35.3	35.3	35.2	35.3	35.4	35.3	35.3	35.3
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	39.2	39.5	39.6	39.7	39.8	39.9	40.1	39.8	39.9	40.2	40.3	40.1	40.0
<i>Overtime hours</i>	2.5	2.7	2.7	2.8	3.0	3.0	3.0	2.8	2.8	2.9	3.2	3.0	2.9
DURABLE GOODS	39.5	40.0	40.1	40.1	40.4	40.4	40.6	40.1	40.4	40.8	40.8	40.5	40.5
<i>Overtime hours</i>	2.4	2.7	2.7	2.8	3.0	3.1	3.0	2.8	2.8	3.0	3.2	3.0	3.0
Lumber and wood products	38.2	38.8	38.7	38.6	39.1	39.3	39.8	39.1	39.1	39.5	39.8	39.0	38.6
Furniture and fixtures	36.8	37.6	38.1	38.0	38.0	38.4	38.5	38.6	38.6	38.9	39.0	39.8	38.4
Stone, clay, and glass products	40.4	40.5	40.8	40.8	40.9	41.0	41.3	40.6	40.7	41.2	41.0	40.7	40.7
Primary metal industries	38.9	39.4	39.7	40.1	40.8	41.2	41.1	40.7	41.0	41.2	41.0	40.8	40.7
Fabricated metal products	39.8	40.2	40.4	40.4	40.5	40.4	40.5	40.2	40.4	40.9	40.9	40.7	40.7
Machinery, except electrical	40.6	40.8	40.9	40.8	41.0	40.9	41.1	40.8	40.9	41.3	41.4	41.2	41.2
Electric and electronic equipment	39.1	39.5	39.6	39.8	39.9	40.0	40.1	39.6	40.0	40.2	40.4	40.2	40.3
Transportation equipment	40.0	40.8	40.7	40.7	41.2	41.0	41.3	40.5	40.9	42.0	41.8	41.5	41.2
Instruments and related products	40.2	40.3	40.2	40.3	40.4	40.4	40.6	40.5	40.5	40.1	40.4	40.4	40.9
Miscellaneous manufacturing and	38.4	38.6	38.8	38.6	38.6	38.9	38.8	38.6	38.7	38.9	39.2	39.2	39.2
NONDURABLE GOODS	38.6	38.9	38.9	39.0	39.1	39.2	39.5	39.2	39.2	39.3	39.6	39.4	39.2
<i>Overtime hours</i>	2.7	2.8	2.8	2.8	2.9	2.9	3.0	2.9	2.8	2.9	3.1	3.0	2.9
Food and kindred products	39.7	39.8	39.7	39.6	39.8	39.7	40.3	39.9	39.7	40.1	40.0	39.8	39.5
Tobacco manufactures	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Textile mill products	39.1	39.5	39.8	39.8	39.9	40.1	40.0	40.0	39.9	39.8	40.5	40.2	40.3
Apparel and other textile products	35.2	35.2	35.2	35.4	35.2	35.5	36.1	35.5	35.7	35.5	35.0	35.0	35.8
Paper and allied products	41.7	42.0	42.2	42.2	42.4	42.8	42.6	42.4	42.4	42.6	42.8	42.7	42.7
Printing and publishing	37.0	37.0	36.9	37.1	36.8	37.4	37.5	37.3	37.1	37.3	37.6	37.5	37.3
Chemicals and allied products	41.0	41.2	41.4	41.5	41.6	41.6	41.6	41.5	41.5	41.5	41.7	41.8	41.9
Petroleum and coal products	42.1	42.1	42.4	42.8	42.9	43.2	43.8	43.8	43.5	44.1	43.8	43.2	43.3
Rubber and misc. plastics products	39.1	40.2	40.2	40.5	40.8	40.9	40.9	40.3	40.5	40.7	41.3	41.0	40.3
Leather and leather products	36.2	36.5	36.4	36.7	36.3	36.6	36.8	37.0	37.1	36.6	37.1	37.1	36.3
TRANSPORTATION AND PUBLIC UTILITIES	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
WHOLESALE AND RETAIL TRADE	32.0	32.1	32.1	32.1	32.2	32.1	32.2	32.2	32.2	32.3	32.1	32.0	32.0
WHOLESALE TRADE	38.1	38.3	38.5	38.5	38.5	38.6	38.8	38.5	38.6	38.6	38.5	38.5	38.5
RETAIL TRADE	30.0	30.1	30.1	30.1	30.2	30.0	30.1	30.2	30.2	30.3	30.1	30.0	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	32.6	32.6	32.7	32.7	32.7	32.8	32.8	32.8	32.7	32.5	32.5

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 workers' on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

(1977=100)

Industry division and group	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
TOTAL PRIVATE	105.9	106.6	107.1	107.4	107.7	107.9	108.2	107.9	108.4	108.9	108.9	109.3	109.5
GOODS-PRODUCING	98.7	100.2	101.3	101.7	102.0	102.3	102.4	100.9	102.4	102.8	103.1	103.2	104.0
MINING	117.0	120.5	123.1	124.0	126.6	130.1	130.1	128.6	128.2	112.0	113.3	128.7	138.2
CONSTRUCTION	114.3	114.5	117.6	117.7	114.4	115.6	113.9	109.1	116.6	115.8	112.9	112.5	113.2
MANUFACTURING	94.9	96.5	97.2	97.6	98.4	98.5	98.9	98.0	98.4	99.9	100.7	100.2	100.7
DURABLE GOODS	94.4	96.0	96.8	97.3	98.6	98.5	99.0	97.8	98.6	100.7	101.1	100.7	101.2
Lumber and wood products	85.9	88.5	89.5	89.1	90.6	91.7	93.2	91.7	91.9	94.5	95.1	92.8	92.0
Furniture and fixtures	88.6	92.6	95.1	95.1	95.1	96.4	96.6	97.4	97.4	100.5	102.6	102.6	102.0
Stone, clay, and glass products	90.9	92.4	93.9	93.9	94.5	94.1	94.6	92.8	92.7	94.8	94.5	93.4	93.1
Primary metal industries	82.8	84.7	86.9	89.3	92.6	94.6	94.6	94.0	94.7	95.7	94.8	94.5	94.3
Fabricated metal products	92.0	94.4	95.6	95.9	96.4	96.1	96.2	95.3	96.2	98.2	98.7	98.4	99.5
Machinery, except electrical	108.1	108.3	109.0	109.1	109.8	109.3	109.8	108.7	109.1	110.5	111.8	111.3	112.1
Electric and electronic equipment	101.7	103.6	103.7	104.6	105.3	106.1	106.5	105.3	107.0	108.4	109.6	109.3	110.9
Transportation equipment	86.1	87.6	87.9	88.2	91.3	88.3	89.1	86.8	88.7	93.3	92.2	92.4	91.9
Instruments and related products	110.9	111.4	110.9	111.4	111.7	112.0	112.3	111.2	111.5	110.9	112.0	111.7	114.7
Miscellaneous manufacturing ind.	91.4	90.7	90.9	89.5	90.1	90.8	91.2	90.7	90.6	92.0	92.4	92.4	95.4
NONDURABLE GOODS	95.6	97.4	97.7	98.0	98.0	98.4	98.9	98.3	98.1	98.7	100.1	99.4	99.8
Food and kindred products	100.2	101.5	100.7	100.4	100.3	99.7	100.9	100.4	99.0	100.5	100.8	98.2	98.4
Tobacco manufactures	91.6	90.6	95.6	100.1	102.2	97.1	98.4	98.1	96.5	96.5	98.4	99.4	103.5
Textile mill products	87.7	90.5	91.1	91.3	91.3	91.6	91.2	90.9	90.7	90.7	92.6	92.0	93.2
Apparel and other textile products	93.9	94.5	94.4	94.6	93.9	94.4	95.4	94.0	94.3	94.1	96.0	96.5	97.7
Paper and allied products	95.9	97.6	98.4	98.8	99.4	100.4	99.9	99.2	99.1	99.9	100.8	100.7	100.3
Printing and publishing	105.9	106.4	106.6	107.0	106.3	108.5	108.5	108.2	107.8	108.5	109.5	109.9	108.5
Chemicals and allied products	98.2	98.7	99.8	99.9	100.5	100.6	100.8	101.1	101.0	101.2	102.0	102.1	103.0
Petroleum and coal products	99.8	100.6	101.3	102.2	102.5	102.4	104.6	104.6	103.9	105.3	105.4	102.4	102.7
Rubber and misc. plastics products	89.5	95.3	96.7	98.3	99.4	100.0	100.4	99.3	100.1	102.2	105.3	105.1	104.2
Leather and leather products	83.5	89.0	88.5	88.8	87.8	88.1	88.5	89.5	93.3	88.5	90.6	90.2	90.0
SERVICE-PRODUCING	109.8	110.1	110.3	110.6	110.9	111.0	111.3	111.7	111.8	112.3	112.0	111.3	112.5
TRANSPORTATION AND PUBLIC UTILITIES	106.4	105.9	106.0	106.3	105.7	106.6	105.0	105.4	105.1	105.4	104.9	105.5	106.0
WHOLESALE AND RETAIL TRADE	105.0	105.7	106.0	106.1	106.3	105.9	106.6	106.3	106.9	107.2	106.9	106.6	107.4
WHOLESALE TRADE	109.0	109.7	110.5	110.6	110.5	110.9	111.5	111.1	111.1	111.4	111.4	111.1	111.6
RETAIL TRADE	103.5	104.2	104.3	104.3	104.7	103.9	104.7	105.2	105.4	105.6	105.2	104.9	105.7
FINANCE, INSURANCE, AND REAL ESTATE	114.7	115.3	114.9	115.9	116.2	116.5	117.3	117.4	117.5	117.8	117.4	117.5	118.4
SERVICES	115.3	115.5	115.8	116.0	116.9	117.3	117.7	118.2	118.4	119.3	119.2	118.3	119.3

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	1980						1981						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
Hourly Earnings Index ² (1977=100)													
TOTAL PRIVATE (in current dollars).....	127.6	128.7	129.4	130.6	132.1	132.6	133.8	135.0	135.8	136.7	137.7	138.3	138.9
MINING ³	134.3	135.0	136.7	137.5	139.2	139.8	142.1	143.2	144.0	145.7	145.6	147.0	148.2
CONSTRUCTION.....	121.8	122.9	123.1	124.4	125.2	126.2	127.6	128.0	128.6	129.0	129.4	130.5	131.8
MANUFACTURING.....	130.4	131.3	132.3	133.5	134.6	135.4	136.5	137.5	138.5	139.9	140.7	141.5	142.2
TRANSPORTATION AND PUBLIC UTILITIES.....	127.7	128.1	128.1	130.9	132.6	132.8	133.7	135.4	136.1	137.3	138.9	139.7	139.7
WHOLESALE AND RETAIL TRADE.....	128.2	129.3	129.9	130.8	132.3	132.4	133.7	135.0	135.8	136.4	137.4	137.7	139.1
FINANCE, INSURANCE, AND REAL ESTATE.....	126.7	128.7	129.1	129.9	132.4	131.9	133.2	135.0	136.0	135.4	136.8	137.4	138.0
SERVICES.....	125.0	126.6	127.3	128.5	130.5	131.1	132.0	133.2	134.0	134.8	136.0	136.6	136.8
TOTAL PRIVATE (in 1977 dollars) ⁴	93.8	93.9	93.3	93.2	93.3	92.7	92.8	92.7	92.8	93.0	93.1	93.0	-
Average hourly earnings													
TOTAL PRIVATE.....	\$6.66	\$6.72	\$6.76	\$6.83	\$6.90	\$6.94	\$6.99	\$7.04	\$7.09	\$7.14	\$7.18	\$7.23	\$7.25
MINING.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
CONSTRUCTION.....	9.93	10.02	10.05	10.15	10.21	10.30	10.39	10.44	10.49	10.52	10.57	10.69	10.79
MANUFACTURING.....	7.29	7.36	7.41	7.49	7.59	7.63	7.69	7.74	7.80	7.90	7.95	7.98	8.00
TRANSPORTATION AND PUBLIC UTILITIES.....	8.90	8.93	8.94	9.12	9.20	9.26	9.33	9.44	9.48	9.57	9.67	9.72	9.72
WHOLESALE AND RETAIL TRADE.....	5.50	5.54	5.57	5.61	5.66	5.69	5.72	5.78	5.81	5.84	5.89	5.90	5.92
FINANCE, INSURANCE, AND REAL ESTATE.....	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
SERVICES.....	5.86	5.91	5.94	6.00	6.07	6.11	6.15	6.20	6.24	6.27	6.32	6.37	6.41
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars.....	233.77	236.54	238.63	241.10	243.57	244.98	246.75	247.81	250.28	252.76	253.45	255.22	255.28
1977 dollars ⁵	171.89	172.53	172.05	172.09	171.89	171.19	171.12	170.20	170.96	172.06	171.37	171.52	-
Real spendable earnings (married worker with 3 dependents, 1977 dollars) ⁶	151.02	151.34	150.74	150.57	150.20	149.48	148.38	147.49	147.96	148.73	148.07	148.38	-

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-7.

⁶ See footnote 2, table C-5.

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		
	MAY r1981	JUNE r1981	JULY p1981	July 1980 to July 1981	May 1981 to June 1981	June 1981 to July 1981
TOTAL.....	171,433	170,746	171,034	2.4	-0.4	0.2
PRIVATE SECTOR.....	139,867	139,252	139,681	3.3	-0.4	0.3
MINING.....	2,193	2,398	2,577	18.4	9.4	7.4
CONSTRUCTION.....	8,259	8,063	8,089	-0.6	-2.4	0.3
MANUFACTURING.....	42,495	42,189	42,276	4.7	-0.7	0.2
DURABLE GOODS.....	25,816	25,641	25,699	5.6	-0.7	0.2
NONDURABLE GOODS.....	16,679	16,548	16,577	3.3	-0.8	0.2
TRANSPORTATION AND PUBLIC UTILITIES.....	10,564	10,539	10,528	0.0	-0.2	-0.1
WHOLESALE AND RETAIL TRADE.....	34,703	34,550	34,592	2.4	-0.4	0.1
FINANCE, INSURANCE, AND REAL ESTATE.....	10,051	10,031	10,072	3.4	-0.2	0.4
SERVICES.....	31,603	31,483	31,547	3.6	-0.4	0.2
GOVERNMENT.....	31,566	31,494	31,354	-1.6	-0.2	-0.4

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

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

**PRODUCTIVITY
SEASONALLY ADJUSTED**

**C-10. Indexes of output and compensation per hour, unit costs, and prices,
private business sector, seasonally adjusted**

1977=100!

Item	Annual average		Quarterly indexes										
			1978		1979				1980				1981
	1979	1980	IV	I	II	III	IV	I	II	III	IV	I	II
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	r 99.5	r99.3	99.9	99.7	r99.7	r99.4	r99.1	r99.5	r99.1	r99.4	r99.1	r100.3	p100.5
Output	107.7	106.8	106.7	107.7	107.1	107.8	108.2	108.7	105.4	105.7	107.5	r109.5	p108.8
Hours	r108.2	r107.5	106.8	108.1	r107.4	r108.4	r109.1	r109.2	r106.4	r106.3	r108.4	r109.2	p108.2
Compensation per hour	r119.3	r131.4	111.9	115.0	r118.1	r120.7	r123.2	r126.4	r130.1	r133.1	r135.9	r139.7	p143.2
Real compensation per hour	r 99.6	r96.6	100.3	100.6	r100.3	r99.2	r98.0	r96.7	r96.5	r96.9	r96.0	r96.1	p96.8
Unit labor costs	119.9	132.3	112.1	115.4	118.5	121.4	r124.3	127.0	131.3	133.9	137.0	139.4	p142.4
Unit nonlabor payments	110.9	118.4	109.1	109.6	110.4	111.5	r112.2	r115.2	116.0	r119.7	r122.7	r127.6	p127.3
Implicit price deflator	116.9	127.6	111.1	113.4	115.8	118.1	120.2	123.0	126.1	129.1	132.2	r135.4	p137.3
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	r 99.1	r98.8	99.8	99.5	99.1	r98.9	r98.8	r98.9	r98.2	r99.0	r99.0	r100.0	p99.8
Output	107.7	106.8	106.8	107.9	107.1	107.8	108.2	108.5	105.1	105.8	107.7	109.7	p108.7
Hours	r108.7	r108.1	107.1	108.4	r108.0	r109.0	r109.4	r109.8	r107.1	r106.9	r108.8	r109.7	p109.0
Compensation per hour	r119.0	r130.8	111.9	114.9	r117.7	r120.2	r123.0	r126.0	r129.4	r132.3	r135.4	r139.1	p142.4
Real compensation per hour	r 99.3	r96.2	100.3	100.4	r100.0	r98.8	r97.8	r96.4	r96.0	r96.3	r95.6	r95.7	p96.3
Unit labor costs	120.0	132.4	112.2	115.4	118.7	121.5	124.4	127.4	131.8	r133.6	136.8	r139.1	p142.7
Unit nonlabor payments	108.5	r117.5	107.0	107.1	107.7	r109.2	r110.1	r113.9	r115.1	119.2	r122.0	r127.8	p126.6
Implicit price deflator	116.2	127.4	110.5	112.6	115.1	117.4	119.7	122.9	126.3	128.8	131.9	r135.3	p137.3
MANUFACTURING:													
Output per hour of all persons	r102.0	r101.7	102.0	101.5	102.3	r102.0	r102.1	r102.0	r100.8	r100.5	r103.4	r104.2	p105.3
Output	108.6	r103.6	108.3	109.3	108.5	108.5	108.3	108.0	101.7	99.7	r105.2	r107.1	p108.0
Hours	r106.5	r101.9	106.2	107.7	106.1	r106.4	r106.0	r105.9	r100.9	r99.2	r101.8	r102.8	p102.6
Compensation per hour	r118.8	r131.6	111.5	114.5	r118.6	r119.8	r122.3	r125.4	r130.0	r133.9	r137.3	r140.9	p144.5
Real compensation per hour	r 99.2	r96.8	100.0	100.2	100.7	r98.5	r97.2	r95.9	r96.4	r97.5	r97.0	r96.9	p97.7
Unit labor costs	116.5	129.4	109.3	112.9	115.9	117.5	119.8	122.9	r129.0	r133.3	132.8	r135.3	p137.2
DURABLE GOODS													
Output per hour of all persons	100.7	r99.6	101.9	100.7	r101.6	r100.1	r100.4	r99.8	r99.0	r98.1	r101.4	r102.5	p103.8
Output	110.2	r102.9	110.9	111.7	110.3	109.5	109.1	108.3	r100.8	97.8	r104.5	r106.7	p107.8
Hours	r109.3	r103.3	108.9	110.8	r108.6	r109.4	r108.7	r108.5	r101.9	r99.8	r103.1	r104.1	p103.9
Compensation per hour	r118.4	r131.7	111.1	114.1	118.4	r119.3	r121.5	r125.1	r129.9	r134.1	r137.7	r141.4	p144.9
Real compensation per hour	r 98.8	r96.8	99.6	99.8	r100.6	r98.1	r96.6	r95.7	r96.4	r97.6	r97.3	r97.2	p98.0
Unit labor costs	117.5	r132.2	109.0	113.3	116.6	119.2	121.1	r125.3	r131.3	r136.7	r135.9	r138.0	p139.6
NONDURABLE GOODS													
Output per hour of all persons	r104.0	r104.9	102.2	102.6	r103.5	r105.0	r104.9	r105.5	r103.5	104.1	r106.5	r106.8	p107.6
Output	106.4	r104.8	104.5	105.7	r105.9	107.0	r107.0	r107.5	r102.9	r102.4	r106.4	r107.8	p108.2
Hours	r102.3	r99.9	102.2	103.0	r102.2	r101.9	r102.0	r101.9	r99.4	r98.4	r99.9	r100.9	p100.6
Compensation per hour	r118.8	r131.0	111.6	114.5	r118.2	r119.9	r122.9	r125.0	r129.6	r133.3	r136.0	r139.6	p143.2
Real compensation per hour	r 99.2	r96.3	100.1	100.1	r100.4	r98.6	r97.7	r95.7	r96.2	r97.1	r96.1	r96.0	p96.8
Unit labor costs	114.3	r124.9	109.2	111.5	r114.1	114.2	r117.2	r118.6	r125.2	r128.1	r127.7	r130.7	p133.1
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	r100.4	r101.0	100.5	100.6	r100.7	r100.5	r99.9	r100.2	r100.1	r101.8	r101.8	r103.3	N.A.
Output	109.3	108.5	108.0	109.5	109.0	109.4	109.3	109.9	106.8	107.7	109.7	r112.8	N.A.
Hours	r108.8	r107.5	107.5	108.9	r108.3	r108.9	r109.4	r109.6	r106.7	r105.8	r107.8	r109.1	N.A.
Compensation per hour	r118.7	r130.7	111.5	114.5	r117.6	r120.1	r122.7	r125.7	r129.3	r132.5	r135.5	r139.2	N.A.
Real compensation per hour	r 99.1	r96.2	99.9	100.1	r99.9	r98.7	r97.5	r96.2	r95.9	r96.5	r95.7	r95.7	N.A.
Total unit costs	116.8	129.7	109.6	112.2	115.3	118.2	121.3	124.2	129.2	131.1	134.1	r136.0	N.A.
Unit labor costs	118.2	129.4	111.0	113.8	116.8	119.5	122.8	125.4	129.1	130.2	133.1	r134.7	N.A.
Unit nonlabor costs	112.7	130.2	106.0	107.8	111.2	114.6	117.2	120.9	129.3	133.8	136.9	r139.5	N.A.
Unit profits	99.0	90.2	108.9	105.6	100.7	97.5	92.2	95.5	83.4	89.1	92.4	r106.8	N.A.
Implicit price deflator	114.8	125.2	109.6	111.5	113.7	115.9	118.1	121.0	124.1	126.4	129.5	r132.7	N.A.

p=preliminary.
r=revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	IV 1979	I 1980	II 1980	III 1980	IV 1980	I 1981	I 1979	II 1979	III 1979	IV 1979	I 1980	II 1980
	r 1980	r 1980	II 1980	IV 1980	I 1981	I 1981	I 1980	II 1980	III 1980	IV 1980	I 1981	II 1981
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	r1.6	r-1.8	r1.3	r-1.1	r4.6	p1.1	r-0.1	r-0.6	0.0	r0.0	r0.7	p1.5
Output	1.8	-11.5	1.1	6.9	r7.9	p-2.6	0.9	-1.6	-1.9	-0.7	r0.8	p3.2
Hours	r0.2	-9.9	r-0.2	r8.1	3.1	p-3.7	r1.0	r-1.0	-1.9	r-0.7	r0.0	p1.7
Compensation per hour	r10.7	r12.3	9.5	r8.6	r11.8	p10.3	r9.9	r10.1	r10.3	r10.3	10.5	p10.1
Real compensation per hour	r-5.0	r-0.7	r1.6	r-3.8	r0.4	p3.1	r-3.8	r-3.8	-2.3	r-2.0	-0.7	p0.3
Unit labor costs	9.0	14.4	8.1	r9.8	r6.9	p9.2	10.0	10.8	10.3	10.3	r9.7	p8.5
Unit nonlabor payments	r11.2	2.6	r13.7	r10.2	r17.2	p-0.9	5.1	5.1	7.4	r9.3	r10.8	p9.8
Implicit price deflator	9.7	10.5	9.8	9.9	r10.0	p5.9	8.4	9.0	9.4	10.0	10.1	p8.9
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	r0.3	r-2.9	r3.6	r-0.2	r4.3	p-0.9	r-0.7	r-1.0	0.1	0.1	r1.1	p1.6
Output	1.4	-12.1	2.9	7.1	r7.9	p-3.5	0.6	-1.9	-1.8	-0.5	r1.1	p3.5
Hours	r1.1	r-9.5	r-0.7	r7.3	3.5	p-2.6	r1.3	r-0.9	-1.9	r-0.6	0.0	p1.8
Compensation per hour	r10.2	r11.3	r9.0	r9.8	r11.6	p9.6	r9.7	r9.9	r10.1	r10.1	10.4	p10.0
Real compensation per hour	r5.4	r-1.6	r1.2	r-2.7	r0.2	p2.4	r-4.0	r-4.0	-2.5	r-2.2	-0.8	p0.2
Unit labor costs	9.9	14.6	5.3	10.1	r7.0	p10.6	10.4	11.0	9.9	9.9	9.2	p8.2
Unit nonlabor payments	14.6	4.2	r15.0	r9.9	r20.3	p-3.6	6.4	6.9	9.1	10.8	r12.2	p10.0
Implicit price deflator	11.3	11.3	8.2	10.0	r11.0	p6.0	9.1	9.7	9.6	10.2	r10.1	p8.8
MANUFACTURING:												
Output per hour of all persons	r-0.5	r-4.7	r-1.2	r12.1	r3.2	p4.2	r0.5	r-1.5	r-1.5	r1.2	r2.2	p4.5
Output	r-1.0	r-21.5	-7.6	r24.4	r7.3	p3.2	r-1.2	-6.3	r-8.2	-2.8	-0.8	p6.2
Hours	r-0.6	-17.6	-6.5	r11.0	r4.0	p-1.0	r-1.7	r-4.9	r-6.7	r-4.0	r-2.9	p1.7
Compensation per hour	r10.4	15.5	12.7	r10.5	r11.1	p10.4	r9.4	r9.6	r11.7	r12.3	r12.4	p11.2
Real compensation per hour	r-5.3	2.1	r4.5	r-2.2	r-0.3	p3.2	r-4.2	r-4.3	r-1.0	r-0.3	r1.0	p1.3
Unit labor costs	r10.9	r21.2	14.0	r-1.5	r7.7	p6.0	r8.9	r11.3	13.4	r10.9	10.0	p6.4
DURABLE GOODS												
Output per hour of all persons	r-2.2	-3.4	r-3.5	r14.1	4.4	p5.2	r-0.9	r-2.6	r-2.1	r1.0	r2.7	p4.8
Output	r-2.9	-25.0	r-11.2	r30.1	r8.5	p4.4	-3.0	-8.7	-10.7	r-4.2	r-1.5	p7.0
Hours	r-0.8	-22.4	r-8.0	r14.0	4.0	p-0.7	r-2.1	r-6.2	r-8.8	r-5.2	r-4.1	p2.0
Compensation per hour	r12.3	16.5	r13.4	r11.3	r11.1	p10.3	r9.6	r9.7	r12.4	r13.3	r13.0	p11.5
Real compensation per hour	r-3.7	r2.9	r5.2	r-1.4	-0.3	p3.1	r-4.1	r-4.1	r-0.5	r0.7	r1.6	p1.6
Unit labor costs	14.8	r20.5	17.6	r-2.5	r6.4	p4.9	10.7	r12.6	r14.7	r12.2	r10.1	p6.3
NONDURABLE GOODS												
Output per hour of all persons	r2.2	r-7.2	r2.2	r9.5	r1.4	p2.8	r2.7	r0.0	r-0.9	r1.5	1.3	p3.9
Output	r1.9	r-15.9	r-2.2	16.5	r5.6	p1.4	r1.7	r-2.8	r-4.3	r-0.6	r0.3	p5.1
Hours	r-0.3	r-9.4	r-4.3	r6.4	r4.1	p-1.4	r-1.0	r-2.7	r-3.5	r-2.1	r-1.0	p1.1
Compensation per hour	r7.0	r15.6	r11.9	r8.2	r11.2	p10.5	r9.2	r9.7	r11.2	r10.6	r11.7	p10.4
Real compensation per hour	r-8.2	2.2	r3.8	r-4.2	r-0.2	p3.3	r-4.4	r-4.1	-1.5	r-1.7	r0.4	p0.6
Unit labor costs	r4.7	r24.5	r9.5	-1.2	r9.6	p7.6	r6.3	r9.7	r12.2	r9.0	r10.2	p6.3
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	r1.5	-0.5	r6.7	r0.0	r6.3	N.A.	r-0.3	r-0.5	r1.3	r1.9	r3.1	N.A.
Output	2.2	-10.9	3.4	r7.9	r11.5	N.A.	0.4	-2.0	-1.6	0.4	r2.6	N.A.
Hours	r0.7	-10.5	r-3.1	r7.9	r4.8	N.A.	r0.7	r-1.5	-2.8	r-1.5	-0.5	N.A.
Compensation per hour	r10.2	12.0	r10.2	r9.4	r11.4	N.A.	r9.8	r9.9	10.3	r10.4	r10.8	N.A.
Real compensation per hour	r-5.4	-1.0	r2.2	r-3.1	r0.0	N.A.	r-3.9	r-3.9	-2.2	r1.9	-0.5	N.A.
Total unit costs	9.8	17.0	6.2	9.4	r5.6	N.A.	10.6	12.0	11.0	10.5	r9.5	N.A.
Unit labor costs	8.6	12.6	3.2	9.4	r4.8	N.A.	10.1	10.5	8.9	8.4	r7.4	N.A.
Unit nonlabor costs	13.5	30.6	14.7	9.5	r7.9	N.A.	12.2	16.3	16.8	16.8	r15.4	N.A.
Unit profits	15.3	-41.9	30.3	15.7	r77.9	N.A.	-9.5	-17.2	-8.6	0.3	r11.8	N.A.
Implicit price deflator	10.3	10.5	7.9	9.9	r10.4	N.A.	8.5	9.1	9.1	9.6	9.7	N.A.

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—Continued

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P	JUNE 1980	MAY 1981	JUNE 1981P
VIRGINIA	\$240.07	\$263.74	\$269.60	39.1	39.6	40.0	\$6.14	\$6.66	\$6.74
Bristol	208.07	220.41	214.08	37.9	38.2	35.8	5.49	5.77	5.98
Lynchburg	231.46	255.81	270.25	38.9	38.7	40.7	5.95	6.61	6.64
Norfolk—Virginia Beach—Portsmouth	253.92	287.04	282.61	39.8	41.3	40.2	6.38	6.95	7.03
Northern Virginia ¹	274.13	292.00	292.47	39.5	40.0	39.9	6.94	7.30	7.33
Petersburgh—Colonial Heights—Hopewell	300.75	258.06	341.50	40.1	33.0	40.8	7.50	7.82	8.37
Richmond	313.23	354.44	355.20	39.7	40.6	40.0	7.89	8.73	8.88
Roanoke	229.88	245.92	246.72	40.4	39.6	39.1	5.69	6.21	6.31
WASHINGTON	362.16	406.46	401.19	38.9	39.5	38.1	9.31	10.29	10.53
Seattle—Everett	369.66	413.12	(*)	39.2	38.9	(*)	9.43	10.62	(*)
Spokane	344.19	355.26	(*)	38.5	37.2	(*)	8.94	9.55	(*)
Tacoma	337.68	404.42	(*)	36.0	38.7	(*)	9.38	10.45	(*)
WEST VIRGINIA	308.46	344.99	348.13	38.8	39.7	40.2	7.95	8.69	8.66
Charleston	362.71	432.83	419.44	41.5	43.5	42.8	8.74	9.95	9.80
Huntington—Ashland	358.29	384.94	394.99	39.2	39.4	40.1	9.14	9.77	9.85
Parkersburg—Marietta	339.89	381.07	392.28	41.0	40.8	42.0	8.29	9.34	9.34
Wheeling	328.77	388.00	383.77	39.0	38.8	39.2	8.43	10.00	9.79
WISCONSIN	318.63	352.13	353.25	39.8	40.3	40.4	8.00	8.73	8.74
Appleton—Oshkosh	307.68	352.72	351.77	40.5	42.2	42.3	7.60	8.36	8.32
Eau Claire	315.74	339.86	347.98	40.6	41.0	41.5	7.78	8.29	8.38
Green Bay	339.17	373.65	378.14	42.0	41.3	41.7	8.07	9.05	9.07
Janeville—Beloit	315.41	367.34	364.23	39.6	39.5	39.2	7.97	9.30	9.30
Kenosha	384.26	390.41	415.43	41.2	39.7	41.0	9.33	9.83	10.12
La Crosse	288.99	316.75	306.40	40.8	41.2	41.0	7.08	7.69	7.47
Madison	319.03	335.45	335.76	38.5	39.2	39.2	8.28	8.57	8.57
Milwaukee	351.52	384.60	384.62	40.1	40.2	40.1	8.77	9.56	9.59
Racine	343.76	377.21	379.44	39.6	40.0	40.2	8.69	9.42	9.44
WYOMING	301.04	321.20	322.09	40.3	39.9	38.9	7.47	8.05	8.28
VIRGIN ISLAND	286.18	333.15	349.44	41.0	41.8	42.0	6.98	7.97	8.32

¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
² Subarea of New York—Northeastern New Jersey.
³ Subarea of Rochester Standard Metropolitan Statistical Area.
⁴ Area included in New York and Nassau-Suffolk combined SMSA's.
⁵ Subarea of New York Standard Metropolitan Statistical Area.
⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
⁷ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area:

Lackawanna County.
⁸ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
⁹ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.
p = preliminary.
* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		May 1981	June 1981P	May 1981	June 1981P	May 1981	June 1981P	May 1981	June 1981P	May 1981	June 1981P	May 1981	June 1981P
	PAPER AND ALLIED PRODUCTS—Continued												
263	Paperboard mills	2.0	-	1.3	-	0.4	-	1.1	-	0.3	-	0.4	-
264	Misc. converted paper products	3.3	-	2.2	-	.9	-	3.0	-	1.2	-	.9	-
265	Paperboard containers and boxes	3.2	-	2.1	-	.9	-	3.0	-	1.1	-	1.1	-
2651	Folding paperboard boxes	3.3	-	2.4	-	.9	-	3.0	-	1.1	-	1.0	-
2653	Corrugated and solid fiber boxes	2.8	-	1.8	-	.8	-	2.4	-	1.0	-	.8	-
27	PRINTING AND PUBLISHING	3.0	3.5	2.5	2.9	.4	.4	2.8	3.0	1.7	1.6	.6	.8
271	Newspapers	3.4	-	3.1	-	.1	-	2.9	-	2.3	-	.1	-
272	Periodicals	2.3	-	2.2	-	.1	-	2.1	-	1.5	-	.2	-
273	Books	3.1	-	2.1	-	.8	-	3.6	-	1.6	-	1.2	-
274	Miscellaneous publishing	2.5	-	2.1	-	.4	-	2.5	-	1.6	-	.5	-
275	Commercial printing	2.5	-	1.8	-	.6	-	2.8	-	1.2	-	1.0	-
2751	Commercial printing, letterpress	2.5	-	1.7	-	.7	-	2.9	-	1.3	-	.9	-
2752	Commercial printing, lithographic	2.5	-	2.0	-	.5	-	2.8	-	1.2	-	1.0	-
278	Blankbooks and bookbinding	3.7	-	2.9	-	.8	-	3.1	-	1.5	-	.8	-
28	CHEMICALS AND ALLIED PRODUCTS	2.0	2.4	1.5	2.0	.3	.3	1.4	1.8	.6	.6	.3	.5
281	Industrial inorganic chemicals	1.6	-	1.2	-	.2	-	1.1	-	.5	-	.2	-
2819	Industrial inorganic chemicals, nec	1.6	-	1.3	-	.1	-	1.0	-	.5	-	.1	-
282	Plastics materials and synthetics	1.5	-	1.0	-	.3	-	1.0	-	.4	-	.1	-
2821	Plastics materials and resins	1.5	-	1.3	-	.1	-	1.1	-	.6	-	.1	-
2824	Organic fibers, noncellulosic	1.1	-	.7	-	.2	-	.6	-	.2	-	(1)	-
283	Drugs	2.1	-	1.8	-	.1	-	1.2	-	.5	-	.3	-
2834	Pharmaceutical preparations	1.9	-	1.6	-	.2	-	1.3	-	.6	-	.3	-
284	Soap, cleaners, and toilet goods	2.7	-	1.8	-	.7	-	2.0	-	.8	-	.5	-
2841	Soap and other detergents	2.3	-	1.3	-	1.0	-	2.3	-	.4	-	.9	-
2844	Toilet preparations	3.0	-	2.0	-	.7	-	2.1	-	1.0	-	.5	-
285	Paints and allied products	3.2	-	2.7	-	.3	-	1.8	-	1.1	-	.2	-
286	Industrial organic chemicals	1.4	-	1.1	-	.1	-	1.0	-	.4	-	.1	-
287	Agricultural chemicals	2.4	-	1.9	-	.3	-	3.2	-	1.0	-	1.6	-
289	Miscellaneous chemical products	2.6	-	2.0	-	.5	-	1.8	-	.9	-	.4	-
29	PETROLEUM AND COAL PRODUCTS	2.7	3.0	1.9	2.6	.7	.2	1.8	1.8	.6	.6	.6	.5
291	Petroleum refining	2.2	-	1.8	-	.3	-	1.5	-	.4	-	.6	-
295	Paving and roofing materials	5.6	-	2.6	-	2.8	-	3.0	-	1.5	-	.7	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	4.0	4.4	2.7	3.0	1.0	1.0	3.3	3.5	1.6	1.6	.8	1.0
301	Tires and inner tubes	2.0	-	.8	-	.8	-	1.4	-	.3	-	.4	-
302	Rubber and plastics footwear	5.4	-	3.1	-	2.1	-	5.1	-	2.8	-	.9	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting	3.1	-	2.0	-	.9	-	3.0	-	1.3	-	1.2	-
306	Fabricated rubber products, nec	3.9	-	2.1	-	1.5	-	2.4	-	1.1	-	.5	-
307	Miscellaneous plastics products	4.5	-	3.3	-	.9	-	3.9	-	2.0	-	1.0	-
31	LEATHER AND LEATHER PRODUCTS	7.0	6.9	4.8	5.2	1.9	1.4	5.8	5.7	3.1	2.8	1.7	2.0
311	Leather tanning and finishing	5.7	-	4.2	-	1.3	-	5.0	-	1.8	-	2.1	-
314	Footwear, except rubber	7.5	-	4.9	-	2.1	-	5.4	-	3.1	-	1.2	-
3143	Men's footwear, except athletic	5.2	-	4.3	-	.5	-	4.6	-	3.0	-	.4	-
3144	Women's footwear, except athletic	9.7	-	5.2	-	3.8	-	5.6	-	2.7	-	1.9	-
	NONMANUFACTURING:												
-	MINING	6.6	5.8	5.3	4.7	.9	.8	4.9	3.5	3.3	2.4	.5	.2
10	METAL MINING	2.9	2.7	1.8	1.7	.7	.7	1.8	1.6	.8	.8	.4	.3
101	Iron ores	4.1	-	.9	-	1.9	-	2.2	-	.2	-	.7	-
102	Copper ores	2.1	-	1.9	-	.1	-	.9	-	.5	-	(1)	-
12	BITUMINOUS COAL AND LIGNITE MINING	1.1	2.4	.5	.8	.5	1.2	1.2	.9	.3	.5	.7	.1
13	OIL AND GAS EXTRACTION	8.5	8.0	7.2	6.9	.8	.7	6.4	5.0	4.6	3.6	.4	.2
131.2	Crude petroleum, natural gas, and natural gas liquids	4.0	-	3.4	-	.4	-	1.5	-	1.1	-	.1	-
138	Oil and gas field services	11.3	-	9.6	-	1.1	-	9.5	-	6.8	-	.6	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	4.4	3.4	2.2	2.2	1.8	.9	2.4	2.2	1.1	1.0	.8	.7
142	Crushed and broken stone	4.5	-	2.3	-	2.1	-	2.4	-	1.2	-	1.0	-
144	Sand and gravel	6.5	-	2.3	-	3.4	-	2.7	-	1.0	-	1.0	-
-	COMMUNICATION:												
481	Telephone communication	1.1	-	1.0	-	(1)	-	.8	-	.4	-	(1)	-

¹ Less than 0.05.

p=preliminary.

ESTABLISHMENT DATA

SEASONALLY ADJUSTED LABOR TURNOVER

D-3. Labor turnover rates in manufacturing, 1971 to date, seasonally adjusted

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions												
1971.....	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972.....	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973.....	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974.....	4.7	4.6	4.5	4.6	4.5	4.3	4.3	4.1	4.0	3.8	3.3	3.1
1975.....	3.0	3.2	3.2	3.6	3.7	3.8	4.0	4.0	3.9	3.8	3.8	3.8
1976.....	4.2	4.1	4.2	4.1	4.0	3.8	3.9	3.8	3.7	3.6	3.8	3.8
1977.....	3.9	4.5	4.1	4.0	4.0	4.0	4.0	4.0	3.9	4.0	4.0	4.3
1978.....	4.0	3.9	3.9	4.2	4.0	4.1	4.1	4.1	4.2	4.2	4.2	4.3
1979.....	4.1	4.1	4.0	4.0	4.0	4.1	3.9	3.9	3.9	3.9	3.9	3.8
1980.....	3.9	3.8	3.7	3.2	3.1	3.4	3.5	3.6	3.7	3.7	3.6	3.5
1981.....	3.5	3.5	3.4	3.4	3.1	P3.4						
New hires												
1971.....	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972.....	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973.....	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974.....	3.8	3.7	3.6	3.5	3.5	3.3	3.3	3.1	3.0	2.7	2.3	1.9
1975.....	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.4	2.3	2.4	2.5
1976.....	2.6	2.7	2.9	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.5	2.5
1977.....	2.6	2.8	2.8	2.9	3.0	2.8	2.8	2.9	2.8	2.9	2.8	3.1
1978.....	2.9	2.8	2.9	3.1	3.0	3.1	3.1	3.1	3.2	3.3	3.3	3.3
1979.....	3.1	3.1	3.0	3.0	3.0	3.1	2.9	2.8	2.8	2.8	2.8	2.8
1980.....	2.7	2.6	2.5	2.1	1.8	1.9	2.0	2.0	2.1	2.1	2.1	2.1
1981.....	2.1	2.2	2.1	2.1	2.0	P2.1						
Recalls												
1976.....	1.1	1.0	1.1	1.0	1.0	0.9	1.0	0.9	0.8	0.9	0.9	1.0
1977.....	.9	1.3	1.0	.9	.8	.8	.8	.8	.8	.7	.8	.8
1978.....	.8	.7	.8	.8	.8	.7	.7	.7	.7	.7	.7	.7
1979.....	.7	.7	.7	.7	.8	.7	.8	.7	.8	.8	.8	.7
1980.....	.9	.9	.9	.8	1.0	1.2	1.3	1.4	1.4	1.3	1.2	1.1
1981.....	1.0	1.0	1.1	1.1	1.0	P1.0						
Total separations												
1971.....	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972.....	4.2	4.1	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973.....	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974.....	5.1	5.0	4.9	4.7	4.6	4.5	4.5	4.8	4.4	4.8	5.2	4.9
1975.....	5.2	5.1	4.6	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.8	3.5
1976.....	3.6	3.5	3.8	3.9	3.7	3.9	3.9	3.9	3.9	3.9	3.6	3.6
1977.....	3.9	4.1	3.8	3.7	3.8	3.7	3.9	4.0	3.9	3.8	3.8	4.0
1978.....	3.8	3.8	3.8	4.0	3.9	3.9	3.9	3.8	4.0	3.9	3.9	4.1
1979.....	4.0	3.9	3.9	4.0	4.0	4.0	4.0	4.3	3.9	4.0	4.1	4.0
1980.....	4.2	4.0	4.0	5.2	5.5	4.8	3.8	4.0	3.5	3.6	3.3	3.5
1981.....	3.6	3.6	3.4	3.2	3.4	P3.4						
Quits												
1971.....	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972.....	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.6
1973.....	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974.....	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.2	2.0	1.8	1.7
1975.....	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976.....	1.6	1.6	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.6	1.5	1.6
1977.....	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9	1.9	1.9	2.0
1978.....	1.9	1.9	2.0	2.1	2.0	2.1	2.1	2.1	2.2	2.2	2.1	2.2
1979.....	2.2	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.8
1980.....	1.9	1.9	1.8	1.6	1.5	1.4	1.4	1.4	1.3	1.3	1.4	1.5
1981.....	1.4	1.4	1.3	1.3	1.3	P1.4						
Layoffs												
1971.....	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972.....	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973.....	.9	.8	.9	.8	.9	.9	.9	1.2	1.0	.8	1.0	1.1
1974.....	1.4	1.3	1.2	1.1	1.1	1.1	1.1	1.4	1.3	1.8	2.5	2.5
1975.....	2.9	3.0	2.7	2.6	2.5	2.2	1.7	1.6	1.7	1.5	1.5	1.3
1976.....	1.2	1.0	1.2	1.3	1.2	1.3	1.3	1.3	1.4	1.5	1.3	1.2
1977.....	1.3	1.5	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.1	1.0	1.1
1978.....	1.0	1.0	1.0	1.0	1.0	.9	.9	.9	.9	.9	.9	1.0
1979.....	.9	.9	.9	1.0	1.0	1.1	1.1	1.4	1.2	1.2	1.3	1.3
1980.....	1.4	1.3	1.4	2.7	3.2	2.6	1.6	1.8	1.5	1.5	1.3	1.2
1981.....	1.4	1.3	1.3	1.1	1.3	P1.3						

p=preliminary.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p
ALABAMA:												
Birmingham	2.2	1.7	1.1	1.0	0.9	0.5	2.6	3.0	0.6	0.5	1.3	1.9
Mobile	5.4	8.8	3.1	5.3	2.2	3.5	4.5	3.9	1.7	1.5	2.1	1.3
ALASKA	8.5	17.5	5.6	10.6	1.8	3.0	11.7	6.3	3.2	3.5	.4	2.8
ARIZONA	3.7	3.8	2.9	3.1	.6	.5	3.3	3.0	1.8	1.7	.4	.4
Phoenix	3.9	3.8	3.3	3.1	.5	.5	3.3	3.0	1.8	1.7	.3	.4
ARKANSAS	5.1	6.1	3.9	4.6	.9	.9	4.7	4.3	2.9	2.6	.9	.5
Fort Smith	5.5	10.2	3.7	8.5	1.3	.8	3.9	4.7	2.1	2.3	.8	.9
Little Rock—North Little Rock	3.1	3.9	2.6	2.9	.3	.6	3.4	2.9	1.6	1.4	1.0	.6
Pine Bluff	2.9	3.3	2.3	2.9	.2	.2	3.5	2.5	1.6	1.5	.9	.6
CALIFORNIA	3.5	3.6	2.5	2.5	.9	.9	3.6	3.5	1.5	1.5	1.3	1.1
COLORADO	2.9	3.2	2.6	2.8	.3	.3	2.7	2.6	1.6	1.8	.4	.2
Denver—Boulder	3.0	2.7	2.7	2.4	.3	.2	2.8	2.5	1.6	1.7	.4	.2
CONNECTICUT	2.0	2.5	1.4	1.7	.4	.6	2.4	2.0	1.0	1.0	.5	.4
Hartford	1.5	1.9	1.1	1.3	.2	.4	1.9	1.9	1.0	1.0	.2	.3
DELAWARE	2.7	2.6	1.4	1.5	.7	.5	2.5	2.1	.8	.8	.6	.5
Wilmington	2.1	2.2	.9	1.2	.4	.5	2.4	1.7	.5	.5	.8	.4
FLORIDA	4.5	4.2	3.8	3.4	.6	.6	5.0	4.8	2.8	2.5	1.3	1.3
Fort Lauderdale—Hollywood	5.8	4.8	5.4	4.4	.3	.3	5.2	4.7	3.6	2.9	.4	.5
Jacksonville	4.9	3.5	3.3	2.2	1.5	1.2	4.3	4.3	1.7	1.0	1.8	1.5
Miami	5.2	4.0	4.2	3.8	.8	.2	4.2	3.8	2.5	2.4	.9	.6
Orlando	4.1	6.9	3.6	5.7	.4	1.0	4.1	6.9	2.1	3.9	1.4	1.1
Pensacola	1.6	2.8	1.5	2.3	.1	.4	1.7	1.8	1.2	1.1	(¹)	.3
Tampa—St. Petersburg	4.8	4.5	4.2	3.6	.5	.8	5.6	5.8	3.5	3.3	1.2	1.7
West Palm Beach—Boca Raton	3.3	3.2	2.7	3.0	.6	.2	3.7	3.6	2.4	2.3	.6	.1
GEORGIA	3.4	3.6	2.7	2.9	.5	.5	3.6	3.3	2.0	2.0	.8	.5
Atlanta ²	2.6	2.9	2.0	2.2	.5	.6	3.2	2.6	1.2	1.2	1.2	.7
HAWAII ³	1.5	2.0	.8	1.3	.5	.5	1.7	4.6	.5	.8	.5	3.4
IDAHO ⁴	6.5	6.0	2.2	2.9	3.9	2.9	3.2	4.6	1.4	1.4	.7	2.6
ILLINOIS:												
Chicago SMSA	2.8	2.7	1.9	1.7	.7	.7	2.6	2.6	1.0	.9	.7	.7
Davenport—Rock Island—Moline	1.9	2.0	.6	.8	.9	.7	2.0	2.0	.4	.5	.9	.7
Decatur	1.2	2.3	.3	.4	.8	1.7	2.1	3.1	.3	.3	1.3	2.4
Peoria	1.4	1.8	.5	.6	.8	1.0	1.5	2.1	.3	.3	.9	1.4
Rockford	2.1	3.4	1.0	1.1	1.0	2.2	2.6	2.6	.7	.8	1.3	1.1
INDIANA ⁵	2.8	3.1	1.2	1.7	1.0	.9	2.6	2.5	.7	.7	1.1	1.0
Indianapolis ⁶	2.2	3.1	1.1	1.8	.5	.6	2.4	2.2	.7	.5	.8	.7
IOWA	2.5	2.6	1.0	1.3	1.4	1.0	3.0	2.1	.7	.7	1.8	.9
Cedar Rapids	2.0	2.6	.5	.4	1.4	1.8	1.8	1.9	.4	.5	1.0	.7
Des Moines	2.7	1.8	.5	.3	1.4	.7	3.5	1.8	.4	.4	1.9	.6
KANSAS	3.4	3.6	2.7	2.8	.6	.6	3.2	3.6	1.8	2.0	.7	.9
Topeka	3.5	3.3	2.5	2.2	1.0	1.1	3.7	4.4	1.1	1.3	1.1	1.7
Wichita	2.9	3.3	2.3	2.6	.4	.4	3.0	3.1	1.6	2.1	.6	.3
KENTUCKY	3.4	4.2	1.5	1.8	1.5	1.9	3.7	2.9	.8	.8	2.1	1.2
Lexington—Fayette	2.2	4.4	1.2	1.5	.9	2.8	6.1	1.5	.7	.5	5.0	.2
Louisville	2.3	2.9	.8	1.1	.7	1.0	2.2	2.2	.1	.4	.6	.8
LOUISIANA:												
New Orleans	4.9	7.7	4.2	6.1	.5	1.2	3.7	4.6	2.0	2.7	.5	.4
MAINE	4.4	5.4	2.8	3.8	1.4	1.3	4.4	4.2	1.7	1.8	1.9	1.6
Portland	4.3	4.3	1.8	3.4	2.4	.7	4.5	3.3	1.4	2.0	2.5	.6
MARYLAND	3.0	3.6	1.4	2.1	1.4	1.2	2.7	3.0	.8	1.1	1.2	1.0
Baltimore	2.9	2.9	1.2	1.7	1.4	1.0	2.6	2.7	.7	.9	1.2	.9
MASSACHUSETTS	2.8	3.2	1.9	2.2	.7	.7	2.7	2.7	1.2	1.3	.9	.6
Boston	2.7	3.0	1.9	2.4	.6	.5	2.5	2.6	1.0	1.2	.8	.6

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p	Apr. 1981	May 1981 ^p
PENNSYLVANIA	3.0	3.0	1.2	1.5	1.5	1.3	2.8	2.8	0.7	0.7	1.3	1.4
Allentown—Bethlehem—Easton	2.7	2.4	.9	1.2	1.5	1.0	2.6	2.6	.7	.8	1.4	1.3
Alltoona	3.0	4.3	1.1	1.3	1.8	2.7	2.5	2.3	.4	.5	1.8	1.3
Erie	2.3	2.7	1.2	1.4	.7	.8	3.5	2.9	.6	.6	2.0	1.4
Harrisburg	2.8	3.2	1.4	1.8	.8	1.2	3.8	2.4	1.6	1.2	1.5	.3
Johnstown	3.7	4.3	.7	1.1	2.5	3.1	3.2	2.7	.5	.5	2.2	1.5
Lancaster	2.6	2.5	1.8	1.8	.7	.5	2.1	2.2	1.1	1.2	.3	.3
Northeast Pennsylvania	3.0	3.0	1.4	1.6	1.5	1.3	3.2	3.3	.9	.9	1.9	1.9
Philadelphia SMSA	2.6	2.8	1.3	1.5	1.1	1.1	2.6	2.8	.7	.8	1.2	1.3
Pittsburgh	2.7	2.4	.7	.9	1.6	1.3	2.3	2.7	.3	.3	1.2	1.5
Reading	2.8	2.4	1.7	1.6	.9	.7	2.6	2.3	1.0	.8	1.1	1.0
Scranton	3.4	3.0	1.5	1.5	1.8	1.5	3.9	3.1	1.1	.9	2.3	1.9
Wilkes-Barre—Hazleton	2.5	3.2	1.4	1.6	.9	1.3	2.4	3.3	.6	.9	1.3	1.8
Williamsport	1.5	1.7	.8	.9	.7	.6	3.4	1.7	.3	.4	2.4	.8
York	3.0	3.0	1.8	1.9	1.1	1.0	2.9	2.4	1.2	.9	1.2	1.0
RHODE ISLAND	3.8	3.6	2.5	2.4	1.0	1.0	3.9	3.4	1.6	1.5	1.6	1.1
Providence—Warwick—Pawtucket	3.7	3.6	2.5	2.3	.9	1.0	3.8	3.4	1.6	1.5	1.5	1.1
SOUTH CAROLINA	3.0	3.3	2.2	2.5	.5	.5	3.0	3.1	1.6	1.7	.4	.5
Charleston—North Charleston	3.4	3.8	2.8	3.3	.5	.4	3.7	3.5	2.2	2.0	.5	.3
Columbia	2.2	2.9	1.6	2.4	.5	.3	3.0	3.0	1.6	1.7	.5	.5
Greenville—Spartanburg	3.0	3.8	2.4	3.1	.4	.5	3.4	3.2	1.9	2.0	.4	.2
SOUTH DAKOTA	2.5	3.9	1.3	3.0	1.0	.6	2.1	3.1	1.0	1.4	.5	.8
Sioux Falls	3.7	1.8	1.2	1.3	2.4	.4	2.2	3.9	.9	.8	.8	2.6
TENNESSEE:												
Memphis.....	3.1	2.5	1.9	1.6	1.0	.7	2.1	2.1	.9	.9	.5	.4
TEXAS:												
Dallas—Fort Worth	4.3	4.5	3.9	4.1	.3	.3	4.1	4.6	2.9	3.2	.2	.4
Houston	3.9	4.3	3.7	4.0	.2	.1	3.5	3.7	2.5	2.6	.1	.2
San Antonio	5.0	5.4	4.4	4.7	.4	.5	4.9	5.0	3.4	3.3	.1	.4
UTAH	3.5	3.5	2.9	3.0	.6	.3	3.5	3.5	2.2	2.1	.6	.9
Salt Lake City—Ogden	3.3	3.0	2.8	2.6	.4	.3	3.5	3.4	2.2	1.9	.7	.9
VERMONT	3.0	3.7	1.6	2.8	1.2	.5	2.4	2.8	1.1	1.2	.8	1.1
Burlington	2.0	4.5	1.6	4.0	.2	.2	2.1	1.8	.6	.7	1.2	.8
Springfield	3.5	2.8	1.0	2.1	2.5	.5	1.8	3.5	.6	.9	.7	2.1
VIRGINIA	2.8	3.1	1.6	1.9	.9	1.0	3.1	3.0	1.1	1.1	1.2	1.1
Richmond	2.2	2.6	1.4	1.8	(¹)	.1	1.8	2.5	.6	.9	.1	.6
WASHINGTON:												
Seattle—Everett	2.0	1.6	1.2	1.0	.6	.5	2.0	2.3	.8	.8	.7	1.0
WEST VIRGINIA	2.8	2.0	.9	.8	1.8	.6	3.4	2.2	.8	.6	1.7	1.1
WISCONSIN	3.8	3.1	1.1	1.6	2.5	1.2	2.3	2.4	.6	.7	1.0	.9
Milwaukee	2.1	2.6	.8	1.2	1.0	1.0	2.4	2.3	.5	.6	1.1	.9
WYOMING	5.9	5.6	4.8	4.5	1.1	.9	3.9	4.3	3.1	2.0	.2	1.8

¹ Less than 0.05.

² Excludes agricultural chemicals, and miscellaneous manufacturing.

³ Excludes canned fruits, vegetables, preserves, jams, and jellies.

⁴ Excludes canning and preserving, and sugar.

⁵ Excludes canning and preserving.

⁶ Excludes canning and preserving, and newspapers.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁸ Subarea of Rochester Standard Metropolitan Statistical Area.

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

¹⁰ Subarea of New York Standard Metropolitan Statistical Area.

¹¹ Excludes new-hire rate for transportation equipment.

¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹³ Excludes canning and preserving, printing and publishing.

p = preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover except for data for the States of California, New Mexico, and West Virginia which are collected and calculated by the Bureau of Labor Statistics (Washington Office).

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
	JUN. 1980	MAY. 1981	JUN. 1981P	Number			Percent of labor force		
				JUN. 1980	MAY. 1981	JUN. 1981P	JUN. 1980	MAY. 1981	JUN. 1981P
ALABAMA	1,652.6	1,645.9	1,640.7	156.8	144.0	160.1	9.5	8.7	9.8
Birmingham	381.1	376.4	374.9	34.9	34.3	36.9	9.1	9.1	9.8
Huntsville	138.3	138.2	138.6	14.2	12.1	13.5	10.3	8.8	9.7
Mobile	188.4	184.8	186.0	16.3	14.4	16.7	8.7	7.8	9.0
Montgomery	120.8	119.6	120.7	9.5	8.8	10.5	7.9	7.4	8.7
Tuscaloosa	51.5	52.6	51.2	4.4	5.0	5.0	8.6	9.6	9.9
ALASKA	196.0	193.0	202.8	19.9	16.0	18.3	10.2	8.3	9.0
ARIZONA	1,125.9	1,130.2	1,131.6	86.2	61.3	72.1	7.7	5.4	6.4
Phoenix	689.4	689.7	690.9	47.9	31.5	35.6	6.9	4.6	5.1
Tucson	200.0	207.5	206.3	12.8	9.5	11.2	6.4	4.6	5.4
ARKANSAS	984.7	1,000.8	1,010.9	80.9	77.4	85.0	8.2	7.7	8.4
Fayetteville-Springdale	75.7	77.3	77.7	5.1	3.6	3.9	6.7	4.6	5.0
Fort Smith	86.1	84.8	85.9	10.1	6.4	6.7	11.7	7.5	7.7
Little Rock-North Little Rock	187.6	190.8	193.6	11.6	13.3	14.6	6.2	6.9	7.5
Pine Bluff	39.9	40.3	40.8	2.7	3.8	4.2	6.9	9.3	10.3
CALIFORNIA	11,164.0	11,315.3	11,320.8	804.0	695.8	762.0	7.2	6.1	6.7
Anaheim-Santa Ana-Garden Grove	1,087.4	1,139.6	1,142.7	52.5	40.1	51.1	4.8	3.5	4.5
Bakersfield	186.0	189.3	194.7	13.8	12.5	14.0	7.4	6.6	7.2
Fresno	265.2	271.6	273.2	23.4	22.9	22.9	8.8	8.4	8.4
Los Angeles-Long Beach	3,582.0	3,508.0	3,496.0	249.0	216.0	230.0	6.9	6.2	6.6
Modesto	129.0	130.6	130.2	19.0	18.4	18.7	14.7	14.1	14.4
Oxnard-Simi Valley-Ventura	231.2	238.6	238.1	17.2	13.9	16.7	7.4	5.8	7.0
Riverside-San Bernardino-Ontario	572.0	587.8	585.6	48.2	41.1	45.9	8.4	7.0	7.8
Sacramento	463.0	479.9	478.6	39.4	34.4	37.2	8.5	7.2	7.8
Salinas-Seaside-Monterey	130.0	132.5	132.6	10.4	9.2	10.0	8.0	6.9	7.5
San Diego	747.7	772.7	768.2	54.3	44.0	49.6	7.3	5.7	6.5
San Francisco-Oakland	1,596.2	1,649.7	1,648.7	93.1	79.4	90.3	5.8	4.8	5.5
San Jose	736.1	762.1	766.6	44.8	38.2	45.2	6.1	5.0	5.9
Santa Barbara-Santa Maria-Lompoc	146.0	150.9	149.8	8.4	7.3	7.6	5.7	4.8	5.1
Santa Rosa	130.5	133.9	133.2	10.5	9.1	9.6	8.0	6.8	7.2
Stockton	167.1	166.9	172.6	17.6	16.0	17.2	10.5	9.6	9.9
Vallejo-Fairfield-Napa	125.6	131.1	131.0	9.9	8.3	9.0	7.9	6.3	6.9
COLORADO	1,513.4	1,466.4	1,501.5	92.9	82.1	89.8	6.1	5.6	6.0
Denver-Boulder	889.6	874.3	890.3	49.6	44.8	49.8	5.6	5.1	5.6
CONNECTICUT	1,647.5	1,585.2	1,610.1	105.0	84.5	96.1	6.4	5.3	6.0
Bridgeport	202.1	193.1	195.5	13.2	10.5	11.6	6.5	5.4	5.9
Hartford	397.5	384.8	390.6	21.1	18.3	21.4	5.3	4.7	5.5
New Britain	78.7	76.6	77.5	4.8	4.2	5.0	6.1	5.5	6.5
New Haven-West Haven	210.0	201.6	203.9	14.0	12.3	13.7	6.7	6.1	6.7
Stamford	125.0	120.4	123.2	6.8	4.2	4.6	5.4	3.5	3.8
Waterbury	115.0	106.0	107.7	9.9	7.2	7.6	8.6	6.8	7.1
DELAWARE	287.9	285.3	289.3	25.1	19.3	21.2	8.7	6.8	7.3
Wilmington	254.7	252.2	252.5	23.6	17.0	18.7	9.3	6.7	7.4
DISTRICT OF COLUMBIA	321.1	301.1	304.1	25.8	26.6	29.8	8.0	8.8	9.8
Washington SMSA	1,658.8	1,640.4	1,674.3	79.4	75.5	91.0	4.8	4.6	5.4
FLORIDA	3,997.0	4,132.6	4,145.0	263.0	275.7	262.7	6.6	6.7	6.3
Bradenton	58.1	58.3	56.4	3.1	3.7	3.2	5.4	6.3	5.8
Daytona Beach	96.8	100.7	101.2	5.2	6.4	5.6	5.4	6.4	5.5
Fort Lauderdale-Hollywood	431.3	435.2	439.5	22.5	23.5	21.9	5.2	5.4	5.0
Fort Myers-Cape Coral	76.8	81.2	80.2	4.6	4.8	4.3	5.9	6.0	5.4
Gainesville	70.7	71.9	72.6	3.4	3.1	3.1	4.9	4.3	4.2
Jacksonville	304.7	315.0	317.5	19.6	20.7	19.6	6.4	6.6	6.2
Lakeland-Winter Haven	128.1	132.9	132.5	13.2	13.8	14.5	10.3	10.4	11.0
Melbourne-Titusville-Cocoa	110.6	111.5	112.5	9.2	9.6	9.3	8.3	8.6	8.2
Miami	737.0	753.1	755.7	48.8	52.0	45.7	6.6	6.9	6.0
Orlando	324.9	338.3	340.0	21.9	23.1	22.6	6.7	6.8	6.7
Panama City	38.9	38.8	39.5	3.4	3.6	3.3	8.6	9.4	8.3
Pensacola	110.5	114.8	116.7	7.3	6.6	6.5	6.6	5.8	5.6
Sarasota	69.4	74.2	74.1	3.7	3.5	3.5	5.3	4.7	4.7
Tallahassee	79.6	80.6	82.6	4.0	3.5	4.1	5.0	4.3	5.0
Tampa-St. Petersburg	609.1	638.9	634.9	35.8	38.1	36.2	5.9	6.0	5.7
West Palm Beach-Boca Raton	230.7	247.1	243.1	16.6	16.7	16.1	7.2	6.8	6.6

See footnotes at end of table

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
	JUN. 1980	MAY. 1981	JUN. 1981P	Number			Percent of labor force		
				JUN. 1980	MAY. 1981	JUN. 1981P	JUN. 1980	MAY. 1981	JUN. 1981P
GEORGIA	2,407.5	2,425.0	2,442.2	183.8	132.2	152.0	7.6	5.5	6.2
Albany.....	49.8	50.4	51.5	4.4	3.4	4.1	8.9	6.7	8.1
Atlanta.....	973.0	993.8	1,000.9	64.3	48.1	54.3	6.6	4.8	5.4
Augusta.....	123.4	124.4	126.9	8.7	7.5	8.8	7.0	6.0	7.0
Columbus ¹	84.6	82.0	83.7	7.1	5.5	6.6	8.4	6.7	7.9
Macon.....	98.4	98.7	100.4	6.4	5.4	6.7	6.5	5.5	6.7
Savannah.....	88.0	88.5	90.3	6.6	4.8	5.3	7.5	5.4	5.9
HAWAII	404.0	405.7	412.9	21.1	21.8	25.7	5.2	5.4	6.2
Honolulu.....	316.0	318.5	323.4	15.9	15.7	18.7	5.0	4.9	5.8
IDAHO	432.5	429.0	439.0	35.7	27.5	31.6	8.2	6.4	7.2
Boise City.....	90.4	91.1	92.0	6.4	4.9	5.6	7.1	5.4	6.1
ILLINOIS²	5,478.0	5,473.1	5,588.1	508.0	445.6	472.2	9.3	8.1	8.4
Bloomington—Normal.....	58.5	59.8	60.3	3.9	3.7	3.7	6.7	6.2	6.1
Champaign—Urbana—Rantoul.....	81.6	85.5	83.3	5.4	5.2	5.4	6.6	6.1	6.5
Chicago.....	3,431.6	3,409.0	3,486.7	293.4	262.3	280.1	8.5	7.7	8.0
Davenport—Rock Island—Moline ³	189.0	187.9	189.6	14.1	15.4	14.5	7.5	8.2	7.7
Decatur.....	62.0	61.1	62.6	8.8	6.8	6.7	14.3	11.1	10.8
Kankakee.....	42.3	40.9	42.0	5.6	4.5	4.7	13.4	10.9	11.2
Peoria.....	174.8	171.8	174.4	15.9	14.2	14.2	9.1	8.3	8.2
Rockford.....	136.4	133.1	136.7	15.2	11.9	13.3	11.2	9.0	9.7
Springfield.....	96.7	96.6	98.2	8.1	6.3	6.5	8.4	6.5	6.6
INDIANA	2,678.9	2,591.2	2,605.6	312.6	221.9	237.4	11.7	8.6	9.1
Anderson.....	60.7	56.0	55.0	13.0	5.9	5.4	21.5	10.5	9.8
Elkhart.....	70.5	66.4	67.5	10.4	5.2	5.7	14.8	7.9	8.4
Evansville ⁴	148.0	146.3	149.2	11.5	10.7	11.6	7.8	7.3	7.8
Fort Wayne.....	199.7	191.4	191.3	22.0	17.6	17.1	11.0	9.2	8.9
Gary—Hammond—East Chicago.....	306.9	289.3	293.6	42.4	27.2	30.8	13.8	9.4	10.5
Indianapolis.....	612.7	604.1	610.4	53.2	42.6	47.3	8.7	7.1	7.8
Lafayette—West Lafayette.....	59.3	61.5	59.1	4.5	3.8	4.1	7.7	6.3	6.9
Muncie.....	57.2	57.2	55.7	7.7	5.7	6.6	13.4	10.0	11.9
South Bend.....	143.4	134.8	135.4	15.9	10.8	11.6	11.1	8.0	8.6
Terre Haute.....	83.0	79.9	79.4	7.5	7.4	7.8	9.1	9.2	9.8
IOWA	1,511.3	1,466.6	1,487.3	96.7	77.4	90.6	6.4	5.3	6.1
Cedar Rapids.....	93.1	88.8	89.5	7.0	5.6	6.9	7.5	6.4	7.7
Des Moines.....	188.4	186.5	188.9	12.2	10.7	12.5	6.5	5.8	6.6
Dubuque.....	47.2	45.5	45.8	3.9	3.9	4.4	8.3	8.7	9.5
Sioux City ⁵	55.9	54.2	54.9	3.7	3.3	4.2	6.7	6.2	7.7
Waterloo—Cedar Falls.....	70.8	69.1	68.8	5.1	4.2	5.3	7.2	6.1	7.7
KANSAS	1,227.1	1,229.0	1,251.0	61.6	47.5	52.6	5.0	3.9	4.2
Lawrence.....	34.2	36.3	34.9	1.9	1.5	1.7	5.5	4.1	5.0
Topeka.....	98.2	97.5	100.1	5.6	4.8	5.4	5.7	4.9	5.4
Wichita.....	230.9	233.8	237.7	11.9	8.7	10.0	5.2	3.7	4.2
KENTUCKY	1,666.6	1,631.4	1,670.5	149.9	123.3	125.3	9.0	7.6	7.5
Lexington—Fayette.....	177.6	176.8	179.2	10.2	7.6	8.1	5.8	4.3	4.5
Louisville ⁶	443.6	435.7	442.0	44.0	32.2	33.6	9.9	7.4	7.6
Owensboro.....	42.7	42.4	43.4	3.6	2.7	3.0	8.4	6.5	6.9
LOUISIANA	1,729.8	1,773.8	1,797.8	122.8	132.5	154.0	7.1	7.5	8.6
Alexandria.....	66.8	69.8	69.6	6.0	7.0	7.6	8.9	10.0	11.0
Baton Rouge.....	220.3	226.9	232.5	18.2	20.8	26.4	8.3	9.2	11.3
Lafayette.....	78.4	85.8	86.8	3.3	3.2	4.0	4.3	3.7	4.6
Lake Charles.....	74.1	74.9	76.0	5.4	5.7	6.6	7.3	7.6	8.7
Monroe.....	53.1	54.2	53.4	4.7	4.7	4.9	8.8	8.7	9.1
New Orleans.....	477.6	478.3	481.4	28.8	32.5	36.7	6.0	6.8	7.6
Shreveport.....	155.0	158.2	160.9	11.4	11.2	12.7	7.4	7.1	7.9
MAINE	514.4	500.0	517.7	40.0	36.7	39.9	7.8	7.3	7.7
Lewiston—Auburn.....	38.7	38.1	38.3	2.8	2.7	3.0	7.3	7.0	7.9
Portland.....	92.6	91.2	93.2	5.8	5.4	5.8	6.2	6.0	6.2
MARYLAND	2,169.3	2,138.4	2,183.5	150.5	133.5	154.4	6.9	6.2	7.1
Baltimore.....	1,075.2	1,053.7	1,072.1	86.7	75.5	86.6	8.1	7.2	8.1

See footnotes at end of table

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN 1980	MAY 1981	JUN. 1981P	JUN. 1980	MAY 1981	JUN. 1981P	JUN. 1980	MAY 1981	JUN. 1981P
MASSACHUSETTS¹	2,893.0	2,900.9	2,982.7	191.0	165.2	191.0	6.6	5.7	6.4
Boston	1,398.2	1,425.9	1,464.6	83.0	73.4	85.5	5.9	5.1	5.8
Brockton	82.4	81.0	82.3	7.0	6.0	7.0	8.5	7.4	8.5
Fall River ²	73.1	72.2	73.3	6.8	5.5	5.9	9.3	7.6	8.1
Lawrence—Haverhill ¹	143.0	142.9	146.1	9.7	7.9	9.1	6.8	5.5	6.2
Lowell	121.9	122.1	125.8	8.4	7.3	8.9	6.9	6.0	7.1
New Bedford	80.9	81.4	82.1	7.5	6.8	6.9	9.2	8.3	8.4
Springfield—Chicopee—Holyoke	269.4	269.7	272.1	17.0	15.2	16.8	6.3	5.7	6.2
Worcester	195.7	195.1	201.5	12.3	10.4	13.4	6.3	5.4	6.6
MICHIGAN²	4,390.0	4,391.1	4,469.7	628.0	504.5	495.2	14.3	11.5	11.1
Ann Arbor	145.9	148.1	148.4	14.5	11.1	11.3	9.9	7.5	7.6
Battle Creek	81.6	82.1	83.5	9.9	8.8	8.4	12.1	10.7	10.1
Bay City	55.4	53.5	54.3	10.4	6.3	5.7	18.8	11.7	10.6
Detroit	2,063.7	2,056.4	2,092.6	305.2	246.7	238.7	14.8	12.0	11.4
Flint	239.4	234.6	239.7	55.8	31.3	33.3	23.3	13.4	13.9
Grand Rapids	318.3	329.9	336.3	31.7	27.6	28.9	10.0	8.4	8.6
Jackson	67.2	67.8	68.7	8.7	7.5	7.4	13.0	11.1	10.7
Kalamazoo—Portage	137.1	136.1	139.8	13.3	11.5	11.9	9.7	8.5	8.5
Lansing—East Lansing	243.5	249.4	253.7	24.9	25.0	25.0	10.2	10.0	9.8
Muskegon—Norton Shores—Muskegon Heights	79.8	80.1	82.0	11.7	10.7	10.9	14.7	13.4	13.2
Saginaw	106.7	102.4	103.0	21.2	10.8	10.6	19.8	10.5	10.3
MINNESOTA	2,195.4	2,199.7	2,249.6	136.2	106.8	121.1	6.2	4.9	5.4
Duluth—Superior ¹	119.4	115.6	116.4	11.5	8.0	8.1	9.6	6.9	7.0
Minneapolis—St. Paul	1,134.2	1,180.5	1,196.6	57.3	48.8	55.9	5.1	4.1	4.7
Rochester	56.9	57.6	59.7	2.8	2.2	2.6	4.9	3.8	4.4
St. Cloud	78.0	76.5	78.2	6.4	4.3	5.4	8.2	5.7	6.9
MISSISSIPPI	1,043.8	1,023.9	1,021.8	93.4	77.5	87.7	8.9	7.6	8.6
Jackson	157.5	151.7	154.0	9.2	8.7	9.9	5.8	5.7	6.4
MISSOURI	2,347.8	2,379.3	2,413.8	189.1	165.5	179.3	8.1	7.0	7.4
Kansas City ¹	695.7	701.7	714.6	51.4	39.9	43.7	7.4	5.7	6.1
St. Joseph	46.0	46.2	47.3	3.7	3.5	3.9	8.0	7.7	8.2
St. Louis ¹	1,110.6	1,124.0	1,142.3	104.2	91.3	99.8	9.4	8.1	8.7
Springfield	104.2	107.7	108.9	6.0	5.9	6.2	5.7	5.5	5.7
MONTANA	394.8	392.1	407.5	23.8	22.3	27.3	6.0	5.7	6.7
Billings	58.5	59.3	59.9	2.9	2.5	3.3	5.0	4.2	5.5
Great Falls	34.8	35.6	36.5	2.7	2.4	3.2	7.7	6.8	8.8
NEBRASKA	804.2	802.7	819.5	35.0	28.8	32.5	4.3	3.6	4.0
Lincoln	112.7	113.1	115.9	4.3	4.0	4.6	3.8	3.5	3.9
Omaha ¹	286.2	285.0	290.4	17.6	14.4	16.6	6.1	5.1	5.7
NEVADA	381.0	394.3	398.6	25.2	24.6	26.6	6.6	6.2	6.7
Las Vegas	209.2	216.9	218.4	16.5	15.7	17.1	7.9	7.3	7.8
Reno	108.1	110.5	111.1	5.2	5.1	5.2	4.8	4.6	4.7
NEW HAMPSHIRE	472.2	467.6	479.5	25.3	20.7	23.1	5.4	4.4	4.8
Manchester	81.9	81.3	83.2	4.6	3.7	4.6	5.6	4.5	5.6
Nashua	79.1	79.4	81.3	4.3	3.6	4.3	5.4	4.6	5.3
NEW JERSEY²	3,641.0	3,613.5	3,612.0	290.0	286.7	269.0	8.0	7.9	7.4
Atlantic City	108.0	114.4	119.6	8.7	9.7	9.7	8.0	8.5	8.1
Jersey City	247.1	244.2	240.5	28.7	31.2	27.7	11.6	12.8	11.5
Long Branch—Asbury Park	238.8	242.9	246.5	18.6	17.5	16.2	7.8	7.2	6.6
New Brunswick—Perth Amboy—Sayreville	332.7	329.6	326.4	24.8	24.1	22.7	7.5	7.3	7.0
Newark	982.5	981.1	978.0	77.1	76.3	72.1	7.8	7.8	7.4
Paterson—Clifton—Passaic	214.5	212.5	210.5	22.0	20.5	19.3	10.3	9.7	9.2
Trenton	163.6	163.6	163.3	11.7	9.7	9.1	7.1	5.9	5.6
Vineland—Millville—Bridgeton	61.0	60.1	60.0	7.3	8.4	7.9	12.0	14.0	13.1
NEW MEXICO	551.0	555.9	564.9	43.9	39.5	45.8	8.0	7.1	8.1
Albuquerque	204.0	205.9	209.2	17.4	14.3	16.5	8.5	6.9	7.9

See footnotes at end of table

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1980	MAY. 1981	JUN. 1981P	JUN. 1980	MAY. 1981	JUN. 1981P	JUN. 1980	MAY. 1981	JUN. 1981P
NEW YORK²	8,008.0	7,930.7	8,063.2	575.0	576.3	610.7	7.2	7.3	7.6
Albany—Schenectady—Troy.....	377.8	379.2	381.1	23.0	22.9	24.9	6.1	6.0	6.5
Binghamton ¹	141.7	140.0	143.5	9.5	8.8	10.2	6.7	6.3	7.1
Buffalo.....	574.1	569.7	576.4	59.7	49.1	54.8	10.4	8.6	9.5
Elmira.....	39.6	40.1	40.8	3.3	3.2	3.8	8.4	7.9	9.3
Nassau-Suffolk.....	1,330.1	1,314.9	1,347.1	83.0	74.9	89.9	6.2	5.7	6.7
New York.....	3,617.8	3,572.1	3,623.3	248.8	281.3	276.7	6.9	7.9	7.6
New York City ²	3,005.0	2,957.0	2,998.0	219.0	253.0	243.0	7.3	8.6	8.1
Poughkeepsie.....	108.3	108.6	111.1	6.2	6.3	7.2	5.7	5.8	6.4
Rochester.....	470.0	469.3	477.1	32.0	26.5	30.8	6.8	5.7	6.4
Syracuse.....	300.4	300.5	303.6	24.1	20.7	22.8	8.0	6.9	7.5
Utica—Rome.....	136.9	137.1	139.3	10.3	10.3	11.2	7.5	7.5	8.0
NORTH CAROLINA	2,832.9	2,770.8	2,831.2	214.8	160.6	178.2	7.6	5.8	6.3
Asheville.....	86.7	83.3	86.4	5.3	5.3	5.4	6.1	6.3	6.2
Charlotte—Gastonia.....	357.2	352.0	358.4	20.5	15.6	18.0	5.7	4.4	5.0
Greensboro—Winston-Salem—High Point.....	426.4	423.1	430.9	30.3	21.7	24.5	7.1	5.1	5.7
Raleigh—Durham.....	295.2	293.0	297.1	15.4	12.2	14.0	5.2	4.2	4.7
NORTH DAKOTA	323.3	332.1	331.6	16.8	15.7	17.2	5.2	4.7	5.2
Fargo—Moorhead ¹	71.8	75.3	74.9	4.2	4.0	4.3	5.9	5.4	5.8
OHIO²	5,161.0	5,186.5	5,165.8	503.0	413.8	435.4	9.7	8.0	8.4
Akron.....	303.1	305.8	300.5	28.2	24.7	25.8	9.3	8.1	8.6
Canton.....	189.0	187.7	187.2	18.6	15.3	16.2	9.8	8.1	8.7
Cincinnati ¹	684.0	695.5	696.5	53.6	50.5	54.0	7.8	7.3	7.8
Cleveland.....	950.8	951.4	951.6	78.0	67.4	72.7	8.2	7.1	7.6
Columbus.....	561.0	578.5	577.7	35.3	37.8	40.9	6.3	6.5	7.1
Dayton.....	393.5	397.2	394.7	35.6	27.8	29.8	9.0	7.0	7.5
Toledo ¹	374.7	373.9	373.9	44.6	33.8	34.7	11.9	9.0	9.3
Youngstown—Warren.....	242.3	234.1	233.0	33.4	21.0	22.0	13.8	9.0	9.4
OKLAHOMA	1,353.9	1,388.5	1,408.7	73.8	44.3	46.6	5.5	3.2	3.3
Oklahoma City.....	413.2	432.6	440.3	20.9	12.7	13.4	5.0	2.9	3.1
Tulsa.....	330.6	340.7	345.7	16.6	10.3	11.2	5.0	3.0	3.2
OREGON	1,314.1	1,318.0	1,348.2	115.6	119.6	126.5	8.8	9.1	9.4
Eugene—Springfield.....	137.5	138.3	140.8	14.7	14.1	14.8	10.7	10.2	10.5
Portland ¹	643.0	643.6	656.8	42.4	46.8	51.5	6.6	7.3	7.8
Salem.....	123.9	121.7	125.6	10.1	10.3	10.7	8.1	8.5	8.5
PENNSYLVANIA²	5,382.0	5,397.7	5,447.2	429.0	418.5	504.7	8.0	7.8	9.3
Allentown—Bethlehem—Easton ¹	306.3	308.0	311.0	22.7	23.4	27.9	7.4	7.6	9.0
Altoona.....	61.1	57.2	58.3	5.1	5.6	7.3	8.4	9.8	12.5
Erie.....	129.1	124.9	127.2	11.7	12.1	14.5	9.1	9.7	11.4
Harrisburg.....	219.4	229.5	230.4	12.7	12.6	15.8	5.8	5.5	6.8
Johnstown.....	111.1	106.6	107.7	12.9	14.1	15.0	11.6	13.3	13.9
Lancaster.....	178.6	182.1	184.5	10.6	8.9	11.5	5.9	4.9	6.2
Northeast Pennsylvania.....	284.8	286.2	288.1	27.0	26.8	30.4	9.5	9.4	10.5
Philadelphia ¹	2,150.5	2,141.3	2,151.8	156.1	153.3	183.6	7.3	7.2	8.5
Pittsburgh.....	1,023.7	1,028.5	1,041.0	77.0	69.4	81.8	7.5	6.8	7.9
Reading.....	154.6	160.5	162.5	12.6	13.2	16.6	8.1	8.2	10.2
Williamsport.....	53.1	53.8	53.8	6.2	7.5	7.2	11.6	14.0	13.4
York.....	174.7	178.0	180.2	12.6	12.9	15.9	7.2	7.2	8.8
RHODE ISLAND	471.7	463.6	470.1	35.6	31.5	33.3	7.5	6.8	7.1
Providence—Warwick—Pawtucket ¹	465.0	457.2	463.6	36.1	31.5	33.5	7.8	6.9	7.2
SOUTH CAROLINA	1,335.6	1,338.5	1,374.0	108.6	95.5	108.0	8.1	7.1	7.9
Charleston—North Charleston.....	161.2	161.8	167.3	12.6	10.7	12.7	7.8	6.6	7.6
Columbia.....	171.0	178.4	179.0	8.6	9.7	10.9	5.0	5.4	6.1
Greenville—Spartanburg.....	260.6	267.7	273.1	15.9	17.0	18.5	6.1	6.4	6.8
SOUTH DAKOTA	355.1	343.5	355.4	17.4	15.2	19.3	4.9	4.4	5.4
Rapid City.....	43.8	42.0	43.6	2.4	2.2	2.6	5.5	5.2	5.9
Sioux Falls.....	64.1	64.4	66.4	3.1	3.0	3.7	4.8	4.7	5.6
TENNESSEE	2,037.7	2,021.7	2,064.7	160.8	153.4	178.0	7.9	7.6	8.6
Chattanooga ¹	193.6	188.0	190.5	15.2	13.4	15.9	7.8	7.1	8.3
Knoxville.....	214.5	217.2	221.5	12.8	14.1	16.3	6.0	6.5	7.4
Memphis ¹	396.3	391.1	397.7	27.3	26.9	32.5	6.9	6.9	8.2
Nashville—Davidson.....	412.6	409.0	417.0	27.0	23.8	28.1	6.5	5.8	6.7

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1980	MAY. 1981	JUN. 1981P	JUN. 1980	MAY. 1981	JUN. 1981P	JUN. 1980	MAY. 1981	JUN. 1981P
TEXAS¹	6,428.0	6,673.5	6,754.1	390.0	345.1	488.0	6.1	5.2	7.2
Amarillo	86.6	87.4	89.5	4.2	3.4	5.4	4.9	3.9	6.0
Austin	247.5	264.9	263.3	10.7	9.1	12.6	4.3	3.4	4.8
Beaumont—Port Arthur—Orange	166.6	173.4	175.4	13.4	13.8	17.9	8.0	8.0	10.2
Corpus Christi	142.9	147.5	148.8	10.0	8.9	12.6	7.0	6.0	8.5
Dallas—Fort Worth	1,526.4	1,604.4	1,627.2	82.6	71.8	108.2	5.4	4.5	6.6
El Paso	174.4	177.4	181.3	17.6	16.3	21.3	10.1	9.2	11.7
Galveston—Texas City	84.5	86.8	88.5	6.1	6.0	8.1	7.2	6.9	9.2
Houston	1,473.0	1,543.2	1,554.8	72.8	65.7	96.7	4.9	4.3	6.2
Lubbock	99.6	101.9	101.7	5.3	4.7	6.6	5.3	4.6	6.5
San Antonio	431.5	438.3	448.4	36.1	28.7	41.2	8.4	6.5	9.2
Waco	79.3	82.7	82.6	5.1	4.0	5.5	6.5	4.9	6.7
Wichita Falls	60.3	62.5	63.2	2.9	2.2	3.1	4.9	3.6	4.9
UTAH	617.1	600.4	610.7	42.9	35.0	38.4	6.9	5.8	6.3
Salt Lake City—Ogden	403.6	394.6	399.6	26.5	22.7	24.2	6.6	5.8	6.1
VERMONT	246.3	246.8	252.3	17.6	13.8	14.2	7.1	5.6	5.6
VIRGINIA	2,575.4	2,559.2	2,607.0	143.8	138.2	157.7	5.6	5.4	6.0
Lynchburg	77.5	76.3	77.0	4.2	4.0	4.6	5.4	5.3	6.0
Newport News—Hampton	171.4	173.5	178.8	9.8	9.6	11.6	5.7	5.6	6.5
Norfolk—Virginia Beach—Portsmouth ¹	333.6	334.3	341.8	23.1	19.6	22.9	6.9	5.9	6.7
Petersburg—Colonial Heights—Hopewell	63.3	59.5	61.0	4.3	4.1	4.6	6.8	6.9	7.6
Richmond	334.8	335.9	340.0	14.0	12.8	14.9	4.2	3.8	4.4
Roanoke	112.6	109.9	111.8	5.2	5.7	6.2	4.6	5.2	5.6
WASHINGTON	1,961.3	1,921.5	1,947.1	149.9	163.7	180.9	7.6	8.5	9.3
Seattle—Everett	853.8	838.2	845.8	54.2	61.9	70.4	6.3	7.4	8.3
Spokane	151.7	145.5	147.4	12.0	12.4	13.7	7.9	8.5	9.3
Tacoma	174.8	171.5	172.0	14.0	15.0	16.1	8.0	8.8	9.4
WEST VIRGINIA	776.4	767.5	756.4	71.9	93.9	81.8	9.3	12.2	10.8
Charleston	130.2	125.4	122.7	9.9	11.2	10.4	7.6	8.9	8.5
Huntington—Ashland ¹	126.7	125.6	125.7	12.7	12.9	13.6	10.1	10.3	10.8
Parkersburg—Marietta ¹	73.8	71.3	70.6	7.2	6.0	6.2	9.8	8.5	8.7
Wheeling ¹	84.5	81.5	80.0	8.5	7.8	6.8	10.1	9.5	8.5
WISCONSIN	2,445.6	2,417.8	2,471.4	195.0	158.7	178.3	8.0	6.6	7.2
Appleton—Oshkosh	153.0	148.7	153.8	12.0	9.5	11.0	7.9	6.4	7.2
Eau Claire	57.8	59.9	59.6	4.7	3.8	4.2	8.1	6.3	7.1
Green Bay	90.2	90.5	93.8	6.7	6.4	7.9	7.4	7.1	8.4
Janesville—Beloit	72.2	70.3	71.9	10.9	4.1	5.0	15.2	5.8	6.9
Kenosha	62.7	59.4	60.1	5.4	5.0	5.3	8.6	8.3	8.8
La Crosse	47.7	49.7	50.4	2.7	3.0	3.3	5.8	6.1	6.5
Madison	183.7	185.4	187.9	10.0	8.3	10.1	5.4	4.5	5.4
Milwaukee	741.5	734.7	750.6	53.2	49.7	54.6	7.2	6.8	7.3
Racine	90.1	88.0	90.8	8.2	7.0	7.6	9.1	8.0	8.4
WYOMING	240.2	243.1	257.3	10.1	10.0	11.1	4.2	4.1	4.3

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 1980 have been benchmarked to 1980 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1981 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.

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 1,133 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

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

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

Employment

Coverage. The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Employment in both agricultural and nonagricultural in-

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

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

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 worker's 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 Report 601.

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 of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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

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

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

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

Statistics on manufactures and business, Bureau of the Census. BLS establishment statistics on employment differ from employment counts derived by the Bureau of Census from its censuses or annual 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. Beginning in January 1972, coverage was expanded to include employees of small firms and selected nonprofit activities who had not been covered previously. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these included in the BLS establishment statistics. Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

Household Data (A tables)

COLLECTION AND COVERAGE

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

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

Inmates of institutions, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumera-

tions and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are included as part of the categories "total noninstitutional population" and "total labor force," are, however, obtained from the Department of Defense.

Each month 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.

Beginning in September 1975, the sample was enlarged by 9,000 households in order to provide greater reliability for smaller States and thus permit the publication of annual statistics for all 50 States and the District of Columbia. These supplementary households were added to the national 47,000 household sample in January 1978.

Over the period November 1978 to April 1979 the sample was again enlarged by 9,000 households. These supplementary households were added to the 56,000 household sample in January 1980.

Beginning in May 1981 the sample size was cut by about 6,000 occupied housing units. The reduction did not affect the ability to publish reliable State and local estimates and had practically no effect on the reliability of national estimates.

CONCEPTS

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

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

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

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

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

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

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

Jobseekers are all unemployed persons who made specific efforts to find a job, sometime during the 4-week period preceding the survey week. Jobseekers do not include persons unemployed because they (a) were waiting to be called back to a job from which they had been laid off or (b) were waiting to report to a new wage or salary job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to 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 pick-up point.

The civilian labor force comprises the total of all civilians classified

as employed or unemployed in accordance with the criteria described above. The "total labor force" also includes members of the Armed Forces stationed either in the United States or abroad.

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

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

Employment-population ratios represent the proportion of the total noninstitutional population that is employed.

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

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

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

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

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

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

The distribution of employment by hours worked relates to persons "at work" during the survey week. At-work data differ from data on total employment because the latter include persons in 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," correspondingly 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 the 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: (1) That unemployed persons looking for full-time work lost an average of 37.5 hours (2) that those looking for part-time work lost the average number of hours actually worked by voluntary part-time workers during the survey week, and (3) that persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

White and *black and other* are terms used to describe the race of workers. The "black-and-other category," includes all persons who identified themselves in the enumeration process to be other than white. At the time of the 1970 Census of Population, 89 percent of the black-and-other population group were black; the remainder were primarily American Indians, Alaskan Natives, and Asians and Pacific Islanders. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

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

Major activity: going to school and *major activity: other* are terms used to describe whether the activity of young persons during the reference week is primarily one of going to school or not. Statistics on major activity are published every month in table A-7 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. Tables for veterans in this volume are limited to males in the civilian noninstitutional population, i.e., veterans in institutions and females are excluded.

Nonveterans are males who never served in the Armed Forces.

The *poverty areas* classification consists of all Census geographical divisions in which 20 percent or more of the residents were poor according to the 1970 Decennial Census. Persons were classified as poor or nonpoor by using income thresholds adopted by a Federal interagency

committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas and, conversely, the areas include many people who are not poor.

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

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. Data refer to the sole or primary job of wage and salary workers. 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.

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 are 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 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 counts of families used in this volume refer to primary families only, that is, all persons in the household who are related to the householder. Families are classified either as married-couple families or as those maintained by women or men without spouses. 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.

HISTORIC COMPARABILITY

Raised lower age limit

Beginning with data for 1967, the lower age limit for official statistics on persons in the labor force was raised from 14 to 16 years. A detailed discussion of this and other definitional changes introduced at that time including estimates of their effect on the various series, is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*.

Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning in 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning 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

in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning in 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged. In addition, beginning in 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of about 800,000; labor force and employment totals were raised by a little more than 300,000, and unemployment levels and rates were essentially unchanged. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black and other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black and other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

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

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

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

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than determined by the interviewer as before. The purpose of this change 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 1979, the first-stage ratio estimation method was changed in the CPS estimation procedure. The new procedure is described in the Estimating Methods section. The reasoning behind the change and an indication of the differences appear in "Change in the Estimation Procedure for the Current Population Survey beginning in January 1979" in the February 1979 issue of *Employment and Earnings*. Differences between the old and new procedures exist only for metropolitan and nonmetropolitan estimates, not for the total U.S.

Changes in the occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational classifications introduced into the Current Population Survey (CPS).

These changes stemmed from an exhaustive review of the classification system to be used for the 1970 Census of Population. This review, the most comprehensive since the 1940 census, was to reduce the size of large groups, to be more specific about general and "not elsewhere classified" groups, and to provide information on emerging significant occupations. Differences in March 1970 employment levels tabulated on both the 1960 and 1970 classification systems ranged from a drop of 650,000 in operatives to an increase of 570,000 in service workers, much of which resulted from a shift between these two groups; the nonfarm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

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

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

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

Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for 8 months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a 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 with the existing 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 housing 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.

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

ESTIMATING METHODS

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

The CPS estimation procedure involves weighting the data from each sample person. The basic weight, which is the inverse of the probability of the person being in the sample, is a rough measure of the number of actual persons that the sample person represents. In States supplemented in the 1978 and 1980 expansions, almost all sample persons within the same sample area have the same basic weight, but the weight may differ across sample areas. The basic weight is the same for almost all sample persons in unsupplemented States. The basic weights are then adjusted for noninterview, and the ratio estimation procedure is applied.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 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 latter estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:

a. *First-stage ratio estimate.* In the CPS, a portion of the 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. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

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

Table A. Characteristics of the CPS sample

Time period	Number of sample areas	Households eligible		Households visited 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	57,500	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.

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

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

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

Rounding of estimates

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

Reliability of the estimates

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

Nonsampling errors. The full extent of nonsampling error is unknown, but special studies have been conducted to 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 represent all sample households and all persons within sample households (undercoverage).

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program. This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the *Current Population Survey Reinterview Program, January 1961 through December 1966*, Technical Paper No. 19, 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 article "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. Overall undercoverage as compared to the level of the decennial census, is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than for females and larger for black and other races than for whites. Ratio estimation to independent age-sex-race population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls used have not been adjusted for undercoverage in the 1970 census, which was estimated at 2.5 percent of the population, with differentials by age, sex, and race similar to those observed in the CPS.

Additional information on nonsampling error in the CPS appears in the paper, "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailar, Statistical Policy Working Paper 3, U.S. Department of Commerce, Office of Federal Statistical Policy and Standards; in the paper "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, 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 two 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, as described below, for levels, labor force participation rates, and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-66 period they should be multiplied by 1.22. Table K provides generalized standard errors for quarterly estimates 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 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 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 111,000.

Standard errors for rates and percentages. The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends on both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are

not published when the monthly base is less than 75,000 or the annual average base is less than 35,000.

Tables 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 in different categories, use the factor indicated by the numerator of the percentage.

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

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		
Employed	208	161
Unemployed	229	175
Unemployed	122	123
Males, 20 years and over:		
Civilian labor force	113	95
Employed	131	114
Unemployed	84	85
Females, 20 years and over:		
Civilian labor force	167	124
Employed	168	128
Unemployed	71	74
Both sexes, 16-19 years:		
Civilian labor force	80	85
Employed	85	94
Unemployed	58	72
Black and other, 16 years and over:		
Civilian labor force	73	56
Employed	84	63
Unemployed	59	62
Males, 20 years and over:		
Civilian labor force	40	34
Employed	49	43
Unemployed	40	42
Females, 20 years and over:		
Civilian labor force	62	46
Employed	62	48
Unemployed	36	40
Both sexes, 16-19 years:		
Civilian labor force	33	37
Employed	31	36
Unemployed	28	30

on the estimated 3.6 percent is then approximately $0.09 \times 1.26 = 0.1$ 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. For example, suppose that one is interested in the year-to-year change of a monthly unemployment rate. Let us 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 table F (0.11 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 $0.11 \times 1.40 = 0.15$ percentage point.

The approximate standard error of levels involving year-to-year change of quarterly estimates pertaining to CPS earnings data for per-

sons 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 C. Standard errors for unemployment rates by major characteristics

Selected categories	Standard error of-		Selected categories	Standard error of-	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers)	0.12	0.12	OCCUPATION		
Males, 20 years and over .....	.15	.15	Blue-collar workers—Continued		
Females, 20 years and over .....	.17	.18	Operatives, except transport	0.44	0.50
Both sexes, 16-19 years .....	.57	.67	Transport equipment operatives .....	.70	.77
White workers .....	.12	.12	Nonfarm laborers .....	.71	.81
Black (and other) workers .....	.46	.49	Service workers .....	.32	.36
Married men, spouse present .....	.15	.16	Farm workers .....	.54	.62
Married women, spouse present .....	.21	.23	INDUSTRY		
Full-time workers .....	.12	.13	Nonagricultural private wage and		
Part-time workers .....	.32	.40	salary workers .....	.13	.13
Unemployed 15 weeks and over .....	.06	.07	Construction .....	.59	.70
OCCUPATION			Manufacturing .....	.27	.30
White-collar workers .....	.12	.13	Durable goods .....	.37	.41
Professional and technical .....	.18	.20	Nondurable goods .....	.39	.45
Managers and administrators,			Transportation and public		
except farm .....	.20	.23	utilities .....	.38	.42
Sales workers .....	.36	.41	Wholesale and retail trade .....	.26	.29
Clerical workers .....	.23	.25	Finance and service industries .....	.17	.19
Blue-collar workers .....	.24	.26	Government workers .....	.20	.23
Craft and kindred workers .....	.33	.37	Agricultural wage and salary		
			workers	1.07	1.26

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

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, 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 and other	Total or white, 16-19 years	Black and other, 16-19 years	Total or white	Both sexes 16-19 years, or part-time labor force ²	Black and other	Black and other, 16-19 years
50	8	8	12	12	11	12	12	12
100	11	11	17	17	16	17	16	17
500	24	23	37	33	35	39	36	34
1,000	34	33	52	37	48	55	49	39
2,000	47	45	70	-	68	77	65	-
4,000	66	58	89	-	93	107	80	-
6,000	81	65	96	-	110	129	-	-
8,000	93	68	93	-	123	147	-	-
10,000	103	65	78	-	132	162	-	-
15,000	123	33	-	-	145	191	-	-
20,000	130	-	-	-	146	211	-	-
30,000	163	-	-	-	-	-	-	-
40,000	179	-	-	-	-	-	-	-
50,000	189	-	-	-	-	-	-	-
60,000	194	-	-	-	-	-	-	-
70,000	195	-	-	-	-	-	-	-
80,000	191	-	-	-	-	-	-	-
100,000	179	-	-	-	-	-	-	-
120,000	119	-	-	-	-	-	-	-

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

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

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

NOTE: The standard errors in this table must be multiplied by 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 data and unemployment data:			Total or white:		
Total	1.00	.74	Total .....	.97	1.08
Males only .....	.93	.84	Both sexes, 16-19 years .....	.97	1.21
Females only .....	.86	.75	Black and other:		
Both sexes, 16-19 years	1.00	1.18	Total	1.04	1.13
Part-time labor force	1.00	1.18	Both sexes, 16-19 years	1.04	1.24

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

Table K. Standard errors for estimates of quarterly level

(In thousands)

Estimated quarterly level	Characteristic								
	Total				Males			Females	
	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	12	11	11
75	13	15	15	13	15	15	15	13	13
100	15	17	17	15	17	17	17	15	15
150	19	21	21	19	21	21	21	19	19
200	22	24	24	22	24	24	24	22	21
250	24	27	27	24	27	27	27	24	24
300	26	30	30	26	30	30	29	26	26
500	34	38	38	34	38	38	37	34	33
750	42	47	46	42	47	47	45	42	41
1,000	48	54	53	48	54	54	50	48	46
1,500	59	66	63	59	66	66	59	59	56
2,000	68	76	72	68	76	76	65	68	63
2,500	76	85	79	75	84	84	69	75	69
3,000	83	93	85	82	92	92	71	82	74
5,000	107	119	100	105	117	116	64	105	85
7,500	130	145	107	127	140	138	-	127	-
10,000	149	165	102	144	157	155	-	145	-
15,000	180	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, C, and D tables)

COLLECTION

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

Federal-State cooperation

Under cooperative arrangements, responding establishments report employment, hours, and earnings data and/or labor turnover 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

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

Form BLS 790 provides for entry of data on the 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. Form DL 1219 provides for the collection of information on the total number of accessions and separations, by type, during the calendar month, and total employment during the pay period which includes the 12th of the month.

CONCEPTS

Industrial classification

Establishments reporting on Form BLS 790 and Form DL 1219 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. 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, earnings, and labor turnover for the Nation and for most States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. 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 sectors.

Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal

Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

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

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday or paid vacation, or who work during a part of the pay period even though they are unemployed or on strike during the rest of the period are counted as employed. Not counted as employed are persons who are on layoff, on leave without pay, or 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. When the pay period reported is longer than 1 week, figures are reduced to a weekly basis.

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

Construction workers include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices, laborers, etc., whether working at the site of construction or in shops or yards, at jobs (such as 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 non-

supervisory workers. Included are hours paid for holidays and 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 as unpaid absenteeism, labor turnover, part-time work, and stoppages cause average weekly hours to be lower than scheduled hours of work for an establishment. Group averages further reflect changes in the workweek of component industries.

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

sion and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Gross average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing the total number of hours paid for, reduced to a weekly basis, by the number of employees, as defined above. Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

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

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

Since part-time as well as full-time workers are included, and since the proportion of part-time workers has been rising, the series understates the increase in earnings for full-time workers. As noted, "fringe benefits" are not included in the earnings. For a more complete discussion of the uses and limitations of these series, see the article by Paul M. Schwab, "Two Divergent Measures of Purchasing Power," in the *Monthly Labor Review* for August 1979. Reprints of this article are available upon request from the Bureau of Labor Statistics.

"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 adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

Indexes of aggregate weekly payrolls and hours. The indexes of aggregate weekly payrolls and hours are prepared by dividing the current month's aggregate by the 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 levels 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 employment over the specified time

span. The indexes are calculated from 172 unpublished seasonally adjusted employment series (two-digit nonmanufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December 1974 issue of *Employment and Earnings*.

Labor turnover

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

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

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

Recalls are permanent or temporary additions to the employment roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting more than 7 consecutive days. (The collection of recalls, as a separate item, began January 1976.)

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

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

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

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

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

Relationship of labor turnover to employment series

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

ESTIMATING METHODS

The principal features of the procedure used to estimate employment for the 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. The labor turnover estimates are stratified by industry only.

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 1980 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 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 1980 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

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

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and where stratified, individual cells)
Monthly data		
All employees	All-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.	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.	Sum of production- or nonsupervisory-worker estimates, or estimates of women employees, for component cells.
Gross average weekly hours	Production- or nonsupervisory-worker hours divided by number of production or nonsupervisory workers.	Average, weighted by production- or nonsupervisory-worker employment, of the average weekly hours for component cells.
Average weekly overtime hours	Production-worker overtime hours divided by number of production workers.	Average, weighted by production-worker employment, of the average weekly overtime hours for component cells.
Gross average hourly earnings	Total production- or nonsupervisory-worker payroll divided by total production- or nonsupervisory-worker hours.	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Gross average weekly earnings	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates	The number of particular actions (e.g., quits) in reporting establishments divided by total employment in those firms. The result is multiplied by 100.	Average, weighted by employment, of the rates for component cells.
Annual average data		
All employees, 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.
Labor turnover rates	Annual average aggregate (of each labor turnover action) divided by annual average employment.	Annual average aggregate (of each labor turnover action) divided by annual average employment.

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.

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.

Table M. Comparison of nonagricultural employment benchmarks and estimates for March 1980

Industry division	Benchmark, March 1980	Estimate, March 1980	Percent difference
Total	90,253,000	90,316,000	0.1
Mining	990,000	996,000	.6
Construction	4,087,000	4,150,000	1.5
Manufacturing	20,722,000	20,793,000	.3
Transportation and public utilities	5,127,000	5,143,000	.3
Wholesale and retail trade	20,068,000	20,226,000	.7
Finance, insurance, and real estate	5,090,000	5,085,000	-.1
Services	17,636,000	17,478,000	-.9
Government	16,533,000	16,445,000	-5

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, 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 and labor turnover statistics programs, with their emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after 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. Table O shows the approximate coverage, in terms of employment, of the labor turnover sample.

Table N. Approximate size and coverage of BLS employment and payrolls sample, March 1980¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	166,300	35,270,000 ¹	38
Mining	2,100	369,000	37
Construction	16,100	739,000	18
Manufacturing	44,200	11,175,000	54
Transportation and public utilities:			
Railroad transportation (ICC)	40	482,000	90
Other transportation and public utilities	7,600	2,623,000	57
Wholesale and retail trade	41,100	3,288,000	16
Finance, insurance, and real estate	11,200	1,826,000 ¹	36
Services	25,500	3,516,000	20
Government:			
Federal ²	4,500	2,869,000 ¹	100
State and local	13,900	8,383,000 ¹	61

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 4,500 reports covering about 55 percent of employment in Federal establishments.

Table O. Approximate size and coverage of BLS labor turnover sample, March 1980

Industry	Employees	
	Number reported	Percent of total
Total	9,252,000	40
Manufacturing	8,461,000	41
Mining	227,000	23
Telephone communication	744,000	70

Reliability of the employment estimates

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

from improvements in the quality of the benchmark data. Table P presents the average percent revisions of the six most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

Table P. 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	0.3	-	-
Total private .....	.3	0.1	0.2
Mining	1.0	.5	.5
Construction	1.7	.2	.3
Manufacturing .....	.3	.1	.1
Durable goods .....	.4	.1	.1
Nondurable goods .....	.4	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.4	.1	.2
Wholesale .....	.7	.2	.3
Retail .....	.4	.2	.2
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.7	.4	.8
Government ³ .....	.5	-	-

¹ The average percent revision in employment for the following benchmarks: 1970, 1971, 1974, 1978, 1979 and 1980.

² Relative errors relate to March 1971 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.

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 P and for individual industries with the specified number of employees in table Q. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

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

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

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

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

Table Q. 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	0.9	1.5
100,000	4,400	.7	1.1
200,000	7,100	.5	.9
500,000	15,200	.4	.8
1,000,000	17,100	.3	.5
2,000,000	28,500	.3	.5

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to March 1971 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 R 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.

Table R. Errors of preliminary employment estimates

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
INDUSTRY DIVISIONS		
Total nonagricultural employment	83,000	69,000
Mining	5,000	5,000
Construction	19,000	16,000
Manufacturing	29,000	27,000
Durable two-digit industries	3,700	3,500
Nondurable two-digit industries	2,500	2,500
Transportation and public utilities	14,000	14,000
Wholesale and retail trade	30,000	27,000
Finance, insurance, and real estate	8,000	7,000
Services	31,000	26,000
Government	46,000	36,000
DETAILED INDUSTRIES: SIZE OF EMPLOYMENT ESTIMATE		
50,000	300	400
100,000	700	700
200,000	1,100	1,100
500,000	3,900	4,100
1,000,000	3,800	3,900
2,000,000	6,000	6,100

NOTE: Division level data are based on differences from January 1975 through December 1980. Detailed industry data are based on differences from August 1978 through June 1979.

STATISTICS FOR STATES AND AREAS

State and area employment, hours, earnings, and labor turnover data are collected and prepared by State agencies in cooperation with BLS. The area statistics relate to metropolitan areas. Definitions for

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

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

PRODUCTIVITY DATA

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

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 labor input, or labor productivity, measure changes in the volume of goods and services produced per unit of labor.

Compensation per hour includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and sup-

plementary 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* include profits, depreciation, interest, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current-dollar gross national product and dividing by output. In these tables, unit nonlabor costs contain all the components of unit nonlabor payments except unit profits. *Unit profits* include corporate profits and inventory valuation adjustments per unit of output.

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

Notes on the data

For the private business sector and the nonfarm business sector, these indexes relate to the gross domestic product less household and institutions, owner-occupied housing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business.

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

State and Area Unemployment Data (E table)

FEDERAL-STATE COOPERATIVE PROGRAM

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

ESTIMATING METHODS

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

Monthly employment and unemployment estimates in the remaining 40 States and 214 labor market areas are prepared in several stages.

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

2. *Preliminary estimate—unemployment*: In the current month, the estimate of unemployment is an aggregate of the estimates for each of three building block categories: (1) Persons who were previously employed in industries covered by State unemployment insurance (UI) laws; (2) those previously employed in industries not covered by these laws; and (3) those who were either 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 unemployment insurance claimants, plus estimates of claimants whose benefits have been exhausted, those persons disqualified from receiving benefits for nonmonetary reasons (because they quit, were discharged for cause, etc., but would other-

wise have been eligible), and persons who either filed claims late or not at all.

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

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

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

U = total entrant unemployment

E = total employment

X = total experienced unemployment

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

3. *Correction factors for employment and unemployment* are then applied at the State level to the UI-based estimates obtained above for each of the 40 States and the District of Columbia. These correction factors are based on the ratio of the CPS to the UI-based estimates for

the 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 both for the State (obtained directly from the CPS in the 10 large States or by the UI-based method in the remaining States), and labor market areas (LMA's) within the State. The total 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 State employment security agencies using UI-based estimating procedures are adjusted, or benchmarked, by BLS to the annual average CPS estimates for the 40 States for which monthly CPS estimates are not available. This adjustment is necessary because the State-prepared estimates are not as reliable as the CPS annual averages due to differences in State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

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

Seasonal Adjustment

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 data are published regularly in *Employment and Earnings*.

The seasonal adjustment programs used for these series are based on an *adaptation* of the standard ratio-to-moving average method. They provide for "moving" adjustment factors to take account of changing seasonal patterns. A detailed description of the method is given in the publication, *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, the 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 adjust labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which essentially 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 being calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, the BLS will calculate and publish (in *Employment and Earnings*) a new 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 will continue to be made once a year, at the beginning of each calendar year.

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

Revised seasonally adjusted data for selected labor force series based on the experience through December 1980, new seasonal adjustment factors to be used to calculate the overall unemployment rate for the first 6 months of 1981, and a description of the current seasonal adjustment methodology are published in the January 1981 issue of *Employment and Earnings*. Revised seasonally adjusted data covering the entire 5-year revision period for a broader range of labor force series appear in the February 1981 issue of this publication. Many additional series, which are either components or aggregates of the series presented, are available from the 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 of 1981. 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 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. Beginning with data for July 1981, these failed or unsatisfactory seasonally adjusted series are used in the aggregation to broader level seasonally adjusted series. In prior months, the unadjusted series were used in the aggregation process.

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

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

The revised seasonally adjusted series for the establishment data reflect experience through March 1981. Seasonal factors to be used for current adjustment appear in the July 1981 issue of *Employment and Earnings*.

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

BLS Region	
IV ALABAMA	-Department of Industrial Relations, Industrial Relations Building, Room 427, Montgomery 36130
X ALASKA	-Employment Security Division, Department of Labor, P.O. Box 3-7000, Juneau 99802
IX ARIZONA	-Department of Economic Security, P.O. Box 6123, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, P.O. Box 2981, Little Rock 72203
IX CALIFORNIA	-Employment Development Department, P.O. Box 1679, Sacramento 95808 (CES).
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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
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VII IOWA	-Department of Job Service, 1000 East Grand Avenue, Des Moines 50319
VII KANSAS	-Division of Employment, Department of Human Resources, 401 Topeka Avenue, Topeka 66603
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VIII MONTANA	-Employment Security Division, 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 Department, P.O. Box 602, Carson City 89713
I NEW HAMPSHIRE	-Department of Employment Security, 32 South Main Street, Concord 03301
II NEW JERSEY	-Department of Labor and Industry, John Fitch Plaza, Room 202, Trenton 08625
VI NEW MEXICO	-Employment Services Division, 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 12201
IV NORTH CAROLINA	-Employment Security Commission, P.O. Box 25903, Raleigh 27611
VII 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	-Employment Security Commission, 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	-Department of Labor and Industry, Seventh and Forster Streets, Harrisburg 17121
II PUERTO RICO	-Department of Labor, 414 Barbosa Avenue, Hato Rey 00917
I RHODE ISLAND	-Department of Employment Security, 24 Mason Street, Providence 02903
IV SOUTH CAROLINA	-Employment Security Commission, P.O. Box 995, Columbia 29202
VII SOUTH DAKOTA	-Department of Labor, P.O. Box 1730, Aberdeen 57401
IV TENNESSEE	-Department of Employment Security, 436—6th Avenue, North, Room 519, Nashville 37219
VI TEXAS	-Employment Commission, 1117 Trinity Street, Austin 78701
VIII UTAH	-Department of Employment Security, P.O. Box 11249, Salt Lake City 84147
I VERMONT	-Department of Employment Security, P.O. Box 488, Montpelier 05602
III VIRGINIA	-Division of Research and Statistics, Department of Labor and Industry, P.O. Box 12064, Richmond 23241 (CES). Employment Commission, P.O. Box 1358, Richmond 2311 (LAUS and LTS)
II VIRGIN ISLAND	-Division of Employment Security, P.O. Box 1092, St. Thomas 00801 (CES)
X WASHINGTON	-Employment and Security Department, 212 Maple Park, Olympia 98504
III WEST VIRGINIA	-Department of Employment Security, 112 California Avenue, Charleston 25305
V WISCONSIN	-Department of Industry, Labor, and Human Relations, P.O. Box 7944, Madison 53707
VII WYOMING	-Employment Security Commission, P.O. Box 2760, Casper 82601