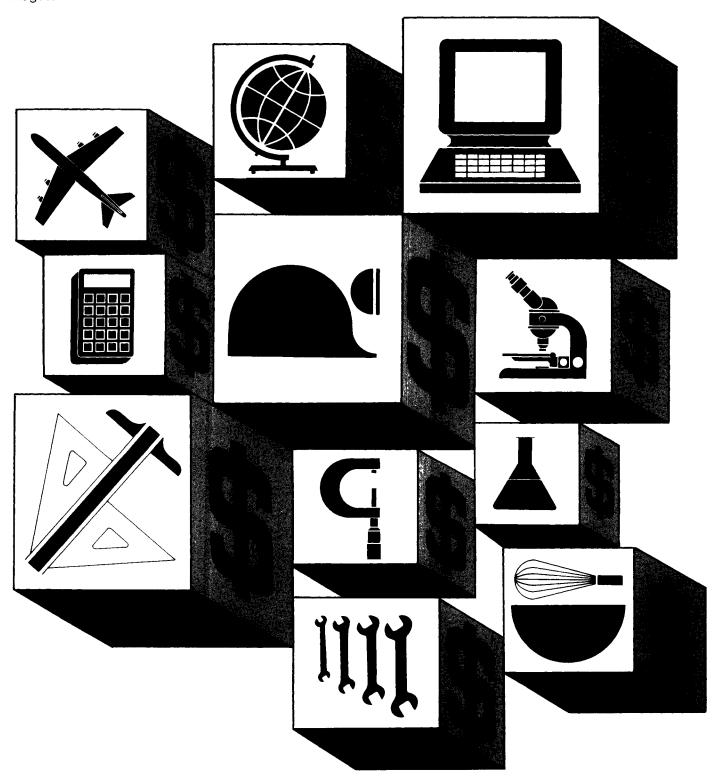


EMPLOYMENT AND EARNINGS

U.S. Department of Labor Bureau of Labor Statistics August 1989





U.S. DEPARTMENT OF LABOR

Elizabeth Dole, Secretary

BUREAU OF LABOR STATISTICS Janet L. Norwood, Commissioner

Employment and Earnings is prepared in the Office of Employment and Unemployment Statistics in collaboration with the Office of Publications. The data are collected by the Bureau of the Census (Department of Commerce) and State employment security agencies, in cooperation with the Bureau of Labor Statistics. A brief description of the cooperative statistical programs of the BLS with these agencies is presented in the Explanatory Notes. The State agencies are listed on the inside back cover.

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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.
Union affiliation 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, family
relationship data, weekly earnings data, and metropolitan-nonmetropolitan and poverty-nonpoverty
area data

Jan., Apr., July, Oct.

Establishment data

National annual averages:

Industry divisions (preliminary) Jan.

Industry detail (final) Mar.

Women employees (final) Mar.

National data revised to reflect new benchmarks and new

seasonal adjustment factors

June

Revised historical national data

Supplement¹

State and area annual averages May

Area definitions May

State and area labor force data

Annual averages May

¹ The latest supplement was published in August 1988.

Employment and Earnings

Vol. 36 No. 8 August 1989

Editors: Gloria Peterson Green, Rosalie K. Epstein

Contents

	Page
List of statistical tables Employment and unemployment developments, July 1989	2
Statistical tables:	
Historical— Household data Establishment data:	6
Employment Hours and earnings	43 79
Not seasonally adjusted—	
Household data Establishment data:	9
Employment:	
National	44
State and area Hours and earnings:	61
National	82
State and area	104
State and area labor force data	111
Seasonally adjusted—	
Household data Establishment data:	36
Employment	56
Hours and earnings	101
Productivity data	108
Explanatory notes	117

MONTHLY HOUSEHOLD DATA

		Page
Employme	ent Status	
Employm	on outus	
A- 1.	Employment status of the noninstitutional population 16 years and over, 1955 to date	6
A- 2.	Employment status of the noninstitutional population 16 years and over by sex, 1978 to date	7
A- 3.	Employment status of the civilian noninstitutional population 16 years and over, 1955 to date.	8
A- 4.	Employment status of the civilian noninstitutional population by age, sex, and race	9
A- 5.	Employment status of the black-and-other civilian noninstitutional population by age and sex	12
A- 6.	Employment status of the civilian noninstitutional population by race, sex, and age	13
A- 7.	Employment status of the civilian noninstitutional population 16 to 24 years of age by school	
	enrollment, years of school completed, sex, race, and Hispanic origin.	14
A- 8.	Employment status of male Vietnam-era veterans and nonveterans by age	16
A- 9.	Employed and unemployed full- and part-time workers by sex, age, and race	17
A-10.	Employment status of persons in families by family relationship.	18
Character	istics of the Unemployed	
A-11.	Unemployed persons by marital status, race, age, and sex.	19
A-12.	Unemployed persons by occupation and sex	20
A-13.	Unemployed persons by industry and sex	21
A-14.	Unemployed persons by reason for unemployment, sex, and race	22
A-15.	Unemployed persons by reason for unemployment, sex, age, and duration of unemployment.	23
A-16.	Unemployed persons by duration of unemployment	23
A-17.	Unemployed persons by sex, age, race, marital status, and duration of unemployment	24
A-18.	Unemployed persons by occupation, industry, and duration of unemployment.	. 25
A-19.	Unemployed jobseekers by sex, age, race, and jobsearch methods used	26
A-20.	Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used.	26
71 20.	onemployed journels by sex, reason for anomployment, and journal medical acca.	
Character	istics of the Employed	
A-21.	Employed civilians in agriculture and nonagricultural industries by age and sex.	27
A-22.	Employed civilians by occupation, sex, and age.	28
A-23.	Employed civilians by occupation, race, and sex	29
A-24.	Employed civilians by age, sex, and class of worker.	30
A-25.	Employed civilians by industry and occupation	31
A-26.	Employed civilians with a job but not at work by reason, sex, and pay status.	31
A-27.	Persons at work by hours of work and type of industry	32
A-28.	Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry,	
	and usual status	32
A-29.	Persons at work in nonagricultural industries by class of worker and full- or part-time status.	33
A-30.	Persons at work in nonagricultural industries by sex, age, race, marital status, and full-	
	or part-time status	34
A-31.	Persons at work in nonfarm occupations by sex and full- or part-time status.	35
Seasonal	y Adjusted Employment and Unemployment Data	
A-32.	Employment status of the noninstitutional population, including Armed Forces stationed in the	
	United States, by sex, seasonally adjusted	36
A-33.	Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted	37
A-34.	Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic	
	origin, seasonally adjusted	38
A-35.	Employed civilians by selected social and economic categories, seasonally adjusted.	39
A-36.	Employed civilians by sex and age, seasonally adjusted	40
A-37.	Unemployed persons by sex and age, seasonally adjusted	40
A-38.	Unemployment rates by sex and age, seasonally adjusted.	41
A-39.	Selected unemployment indicators, seasonally adjusted	41
A-40.	Unemployed persons by duration of unemployment, seasonally adjusted .	42
A-41.	Unemployed persons by reason for unemployment, seasonally adjusted.	42

MONTHLY ESTABLISHMENT DATA

		Page
Employm	ent-National	
B - 1.	Employees on nonagricultural payrolls by major industry, 1937 to date.	43
B- 2.		44
B- 3.		55
B- 4.	Employees on nonagricultural payrolls by major industry and manufacturing group,	
	seasonally adjusted	56
В- 5.	Women employees on nonagricultural payrolls by major industry and manufacturing group,	
	seasonally adjusted	57
В- 6.	Production or nonsupervisory workers on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted	58
В- 7.	Diffusion indexes of employment change, seasonally adjusted.	59
Employm	ent-States and Areas	
В- 8.	Employees on nonagricultural payrolls in States and selected areas by major industry.	. 61
Hours and	d Earnings–National	
C- 1.	Average hours and earnings of production or nonsupervisory workers on private nonagricultural	
	payrolls by major industry, 1964 to date	79
C- 2.	Average hours and earnings of production or nonsupervisory workers on private nonagricultural	
0 2 .	payrolls by detailed industry	82
C- 2a.	Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles	
- 	(SIC 3761) manufacturing	98
C- 3.	Average hourly earnings, excluding overtime, of production workers on manufacturing payrolls.	99
	Average hourly and weekly earnings of production or nonsupervisory workers on private	
	nonagricultural payrolls by major industry, in current and constant (1977) dollars	100
C-1.5.	Average weekly hours of production or nonsupervisory workers on private nonagricultural	
0 0.	payrolls by major industry and manufacturing group, seasonally adjusted	101
C- 6.	Indexes of aggregate weekly hours of production or nonsupervisory workers on private	
	nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted.	102
C- 7.	Average hourly and weekly earnings of production or nonsupervisory workers on private	
0	nonagricultural payrolls, seasonally adjusted .	103
Hours and	d Earnings-States and Areas	
C- 8	Average hours and earnings of production workers on manufacturing payrolls in States and	
C 0.	selected areas.	104
RODUCTI	VITY DATA	
C- 9.	Hours of wage and salary workers in nonagricultural establishments by major industry,	
	seasonally adjusted	108
	Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted	109
C-11.		
	unit costs, and prices, seasonally adjusted annual rates	110
MONTHLY	STATE AND AREA LABOR FORCE DATA	
D. 1	Labor force status by State and selected metropolitan areas	111

Employment and Unemployment Developments, July 1989

Payroll employment continued to increase in July and unemployment was little changed. Both the overall jobless rate and that for civilian workers were 5.2 percent.

Nonagricultural payroll employment, as measured by the survey of business establishments, rose by 170,000. Jobs in the private sector (excluding government) increased by 195,000. Total civilian employment, as measured by the survey of households, showed little change over the month.

Unemployment

The number of unemployed persons, 6.5 million, and the civilian worker unemployment rate, 5.2 percent, were virtually unchanged in July, after seasonal adjustment. In fact, the civilian worker rate has been either 5.2 or 5.3 percent for 4 consecutive months. Jobless rates for adult men (4.3 percent), adult women (5.0 percent), and whites (4.6 percent) held steady from the previous month. There was a small decline among teenagers (to 14.7 percent). The rate for Hispanic workers (9.0 percent) rose, while that for black workers (10.9 percent) showed a decrease, largely because the quite volatile rate for black teenagers (27.4 percent) fell markedly. (See tables A-33 and A-34.)

The number of persons working part time for economic reasons—sometimes referred to as the partially unemployed—was at a seasonally adjusted level of 4.8 million in July. This series has been trending down over the past year. (See table A-35.)

Civilian employment and the labor force

Total civilian employment was essentially unchanged in July at a seasonally adjusted level of 117.5 million. The proportion of the working-age population that is employed (the employment-population ratio) was 63.0 percent, about where it has been for the past 7 months. Civilian employment has grown by 2.4 million over the past year. (See table A-33.)

The civilian labor force, at 124.0 million, and the labor force participation rate, 66.5 percent, were also about unchanged from the previous month. Over the past year,

the civilian labor force has risen by 2.4 million, as the number of adult women and men in the labor force expanded by 1.6 million and 1.0 million, respectively, while the number of teenagers—a declining population group—fell by 270,000. (See table A-33.)

Industry payroll employment

Total nonagricultural payroll employment rose by 170,000 in July to a level of 108.7 million, seasonally adjusted. Private sector employment rose by 195,000. Over the past year, payroll jobs have increased by 2.9 million. (See table B-4.)

In the goods-producing sector, job growth was confined to the construction industry, where employment rose by about 35,000 in July, after being about unchanged during the prior 2 months. Mining employment was down for the second month in a row, due to labor-management disputes.

In manufacturing, employment held steady in July, following 3 consecutive months of decline. Increases in nondurable goods, particularly in food processing, were offset by decreases in durable goods industries. The durable goods sector has lost 55,000 jobs over the past 4 months, thus reversing much of the job growth that occurred in late 1988 and early 1989. Employment in the auto industry dropped sharply for the second straight month, losing over 10,000 jobs in July, as companies continued to slow production because of large inventories and slow sales. Employment in the electrical equipment industry continued its downward trend. The machinery industry, however, showed a small increase.

In the service-producing sector, jobs in the services industry grew by a modest 75,000, following a gain of 210,000 in the prior month. The health services component rose by 30,000, while business services was about unchanged. Retail trade rose by 50,000 over the month, with the largest increases occurring in food stores and eating and drinking places. The transportation industry continued to exhibit strength, with an addition of 25,000 jobs. Employment in finance, insurance, and real estate rose by

10,000 in July. Little employment growth occurred in wholesale trade. Recent employment growth in this industry has been at a much slower pace than earlier in the year.

Weekly hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls increased 0.3 hour to 34.9 hours, seasonally adjusted. The manufacturing workweek held at 41.0 hours, while factory overtime, at 3.9 hours, was up 0.1 hour. (See table C-5.)

Mainly reflecting the increase in the workweek, the index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls increased by 1.1 percent to 129.4 (1977 = 100), after seasonal adjustment.

The index for manufacturing rose slightly over the month to 96.5. (See table C-6.)

Hourly and weekly earnings

Average hourly earnings of private production or nonsupervisory workers increased 0.8 percent in July, seasonally adjusted, while average weekly earnings climbed by 1.7 percent. The large increase in hourly earnings followed 2 months of very small changes. Prior to seasonal adjustment, average hourly earnings increased by 5 cents to \$9.63 and average weekly earnings jumped \$4.63 to \$338.01. Over the year, both average hourly earnings and average weekly earnings increased by 4.2 percent. (See tables C-1 and C-7.)

	Scheduled F	Release Dates	
Employment and u following dates:	nemployment data	are scheduled for init	tial release on the
Reference month	Release date	Reference month	Release date
August	September I	November	December 8
September	October 6	December	January 5
October	November 3	January	February 2

HOUSEHOLD DATA HISTORICAL

A-1. Employment status of the noninstitutional population 16 years and over, 1955 to date

(Numbers in thousands)

						Labor	force				
Year	Noninsti-					Empl	oyed		Unem	ployed	Not in
and month	tutional population	Number	Percent of		Resident		Civilia	1		Percent	labor
monui	population	Trambol	population	Total	Armed Forces	Total	Agriculture	Nonagricultural industries	Number	of labor force	10100
						nnual ave	rages		·		
955	111,747	67,087	60.0	64,234	2,064	62,170	6,450	55,722	2,852	4.3	44,660
956	112,919	68,517	60.7	65,764	1,965	63,799	6,283	57,514	2,750	4.0	44,402
957	114,213	68,877	60.3	66,019	1,948	64,071	5,947	58,123	2,859	4.2	45,336
958	115,574	69,486	60.1	64,683	1,847	63,036	5,586	57,450	4,602	6.6	46,088
959	117,117	70,157	59.9	66,418	1,788	64,630	5,565	59,065	3,740	5.3	46,960
9601	119,106	71,489	60.0	67,639	1,861	65,778	5,458	60,318	3,852	5.4	47,617
961	120,671	72,359	60.0	67,646	1,900	65,746	5,200	60,546	4,714	6.5	48,312
9621	122,214	72,675	59.5	68,763	2,061	66,702	4,944	61,759	3,911	5.4	49,539
963	124,422	73,839	59.3	69,768	2,006	67,762	4,687	63,076	4,070	5.5	50,583
964	126,503	75,109	59.4	71,323	2,018	69,305	4,523	64,782	3,786	5.0	51,394
965	128,459	76,401	59.5	73,034	1,946	71,088	4,361	66,726	3,366	4.4	52,058
966	130,180	77,892	59.8	75,017	2,122	72,895	3,979	68,915 70,507	2,875	3.7	52,288
967	132,092 134,281	79,565	60.2 60.3	76,590	2,218	74,372	3,844	70,527	2,975	3.7	52,527
966	134,201	82,972	60.8	78,173 80,140	2,253 2,238	75,920 77,902	3,817 3,606	72,103 74,296	2,817 2,832	3.5 3.4	53,291 53,602
•			24.0				·	·			
970	139,203	84,889	61.0	80,796	2,118	78,678	3,463	75,215	4,093	4.8	54,315
1971	142,189	86,355	60.7	81,340	1,973	79,367	3,394	75,972	5,016	5.8	55,834
1972¹ 1973¹	145,939	88,847	60.9	83,966	1,813	82,153	3,484	78,669	4,882	5.5	57,091
	148,870	91,203	61.3	86,838	1,774	85,064	3,470	81,594	4,365	4.8	57,667
974	151,841 154,831	93,670	61.7 61.6	88,515 87,524	1,721 1,678	86,794 85,846	3,515	83,279	5,156	5.5 8.3	58,171 59,377
976	157,818	97,826	62.0	90,420	1,668	88,752	3,408	82,438 85,431	7,929	7.6	59,991
977	160,689	100,665	62.6	93,673	1,656	92,017	3,331 3,283	85,421 88,734	7,406 6,991	6.9	60,025
9 78¹	163,541	103,882	63.5	97,679	1,631	96,048	3,387	92,661	6,202	6.0	59,659
979	166,460	106,559	64.0	100,421	1,597	98,824	3,347	95,477	6,137	5.8	59,900
980	169,349	108,544	64.1	100,907	1,604	99,303	3,364	95,938	7,637	7.0	60,806
981	171,775	110,315	64.2	100,907	1,645	100,397	3,368	97,030	8,273	7.5	61,460
982	173,939	111,872	64.3	101,194	1,668	99,526	3,401	96,125	10,678	9.5	62,067
983	175,891	113,226	64.4	102,510	1,676	100,834	3,383	97,450	10,717	9.5	62,665
984	178,080	115,241	64.7	106,702	1,697	105,005	3,321	101,685	8,539	7.4	62,839
1985	179,912	117,167	65.1	108,856	1,706	107,150	3,179	103,971	8,312	7.1	62,744
1986 ¹	182,293	119,540	65.6	111,303	1,706	109,597	3,163	106,434	8,237	6.9	62,752
987	184,490	121,602	65.9	114,177	1,737	112,440	3,208	109,232	7,425	6.1	62,888
988	186,322	123,378	66.2	116,677	1,709	114,968	3,169	111,800	6,701	5.4	62,944
					Monthly d	ata, seaso	nally adjusted	j ²			
1988:											
July	186,402	123,331	66.2	116,707	1,673	115,034	3,060	111,974	6,624	5.4	63,071
August	186,522	123,331	66.3	116,707	1,673	115,034	3,060	111,974	6,797	5.4 5.5	62,830
September	186,666	123,688	66.3	117,074	1,704	115,203	3,176	112,194	6,614	5.3	62,978
October	186,801	123,778	66.3	117,260	1,687	115,573	3,236	112,134	6,518	5.3	63,023
November	186,949	124,215	66.4	117,652	1,705	115,947	3,239	112,709	6,563	5.3	62,734
December	187,098	124,259	66.4	117,705	1,696	116,009	3,19	112,816	6,554	5.3	62,839
1989:				}							
January	187,340	125,124	66.8	118,407	1,696	116,711	3,300	113,411	6,716	5.4	62,216
February	187,461	124,865	66.6	118,537	1,684	116,853	3,223	113,630	6,328	5.1	62,596
March	187,581	124,948	66.6	118,820	1,684	117,136	3,206	113,930	6,128	4.9	62,633
April	187,708	125,343	66.8	118,797	1,684	117,113	3,104	114,009	6,546	5.2	62,365
May	187,854	125,283	66.7	118,888	1,673	117,215	3,112	114,102	6,395	5.1	62,571
•											
June	187,995	125,768	66.9	119,207	1,666	117,541	3,096	114,445	6,561	5.2	62,228

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

The population and Armed Forces figures are not adjusted for

seasonal variation.

NOTE: Revisions of seasonally adjusted monthly and quarterly data (shown in tables A-1 through A-3 and A-32 through A-53) for the most recent 5-year period are made at the end of each calendar year.

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1978 to date

	1					Labor 1	orce				
Paul vaar	Noninsti-					Empl	oyed		Unem	ployed	Not i
Sex, year, and month	tutional population	Number	Percent of		Resident		Civilian		_	Percent	labo force
			population	Total	Armed Forces	Total	Agriculture	Nonagricultural industries	Number	labor force	
						Annual aver	ages				
MEN											
978¹	78,107	61,151	78.3	58,010	1,531	56,479	2,718	53,761	3,142	5.1	18,9
979	79,509	62,215	78.2	59,096	1,489	57,607	2,686	54,921	3,120	5.0	17,2
100	80,877	82,932	77.8	58,665	1,479	57,188	2,709	54,477	4,287	6.8	17,9
980981		63,486	77.4	58,909	1,512	57,100	2,700	54,697	4,577	7.2	18,5
982		83,979	77.0	57,800	1,529	56,271	2,736	53,534	6,179	9.7	19,0
83		64,580	76.8	58,320	1,533	56,787	2,704	54,083	8,260	9.7	19,4
84		65,386	76.8	60,642	1,551	59,091	2,668	58,423	4,744	7.3	19,7
85		85,987	76.7	61,447	1,556	59,891	2,535	57,356	4,521	6.9	20,0
881		68,973	76.7	82,443	1,551	80,892	2,511	58,381	4,530	6.8	20,3
87	86,476	87,764	76.8	63,684	1,577	62,107	2,543	59,564	4,101	6.1	20,8
88	89,404	68,474	76.8	64,820	1,547	63,273	2,493	60,760	3,855	5.3	20,9
					Monthly	data, seasor	ally adjusted ²				
88:								<u> </u>			
July	89,445	68.481	76.5	64,941	1,512	63,429	2,475	60,954	3,520	5.1	20.9
August		68,685	76.7	64,931	1,529	63,402	2,491	60,911	3,754	5.5	20,8
September		68,604	76.6	85,015	1,540	63,475	2,488	60,987	3,589	5.2	20,9
October		68,569	76.5	64,976	1,526	83,450	2,544	60,908	3,593	5.2	21,0
November	89,716	68,686	76.8	65,074	1,542	63,532	2,533	60,999	3,812	5.3	21,0
December	89,792	68,638	78.4	65,055	1,534	63,521	2,477	61,044	3,583	5.2	21,1
189:			[
January	89,914	69,032	78.8	65,322	1,532	63,790	2,501	61,289	3,710	5.4	20,8
ebruary		69,113	76.8	65,572	1,521	64,051	2,509	81,542	3,540	5.1	20,8
March	90,032	89,190	78.9	65,920	1,521	64,399	2,497	61,902	3,270	4.7	20,6
April		69,360	77.0	65,767	1,521	64,246	2,440	81,806	3,593	5.2	20,7
May	90,167	89,114	76.7	65,713	1,511	64,202	2,447	61,755	3,401	4.9	21,0
June	90,237	69,507	77.0	66,110	1,501	64,609	2,455	82,154	3,397	4.9	20,7
July	90,315	69,245	76.7	65,961	1,499	64,482	2,552	61,909	3,264	4.7	21,0
						Annual aver	ages				
WOMEN		T									
)78¹	85,434	42,731	50.0	39,669	100	39,569	669	38,900	3,061	7.2	42,7
979	88,951	44,343	51.0	41,325	108	41,217	681	40,556	3,018	6.8	42,6
		1									
960	68,472	45,611	51.8	42,241	124	42,117	656	41,461	3,370	7.4	42,8
981		46,829	52.2	43,133	133	43,000	667	42,333	3,696	7.9	42,9
982		47,894	52.7	43,395	139	43,256	665	42,591	4,499	9.4	42,9
963		48,646	53.0	44,190	143	44,047	680	43,387	4,457	9.2	43,1
)64		49,855	53.7	46,061	146	45,915	653	45,262	3,794	7.6	43,0
985		51,200	54.5	47,409	150	47,259	644	48,615	3,791	7.4	42,6
186¹		52,568	55.4	48,881	155	48,706	852	48,054	3,707	7.1	42,3
)87)88	96,013 96,918	53,818 54,904	56.1 56.6	50,494 51,858	160 162	50,334 51,696	666 676	49,668 51,020	3,324 3,046	6.2 5.5	42,1 42,0
					Monthly	data, season	ally adjusted ²		1		L
)68: !b.	06.057	54.070	500	E4 700		E4 00E	505	E4 000			
luly		54,870	56.6	51,766	161	51,805	585	51,020	3,104	5.7	42,0
lugust		55,007	56.7	51,964	163	51,801	651	51,150 51,207	3,043	5.5	42,0
September October		55,084 55,209	56.7 56.8	52,059 52,264	164 161	51,895 52,123	686 894	51,207 51,420	3,025	5.5 5.3	42,0 41,9
lovember	97,104	55,529	57.1	52,2 04 52,57 8	163	52,123 52,415	705	51,42 9 51,710	2,925 2,951	5.3	41,8
December	97,306	55,621	57.1 57.2	52,850	162	52,488	716	51,772	2,951	5.3	41,6
89:									!		
lanuary	97,427	58,091	57.6	53,085	164	52,921	799	52,122	3,006	5.4	41,3
/ C PUCK Y	97,486	55,752	57.2	52,965	163	52,802	713	52,089	2,787	5.0	41,7
			57.2	52,900	163	52,737	709	52,028	2,858	5.1	41,7
ebruary	97,550	55,758	07.2	52,500							
February		55,983	57.4	53,029	163	52,868	663	52,203	2,953	5.3	
February March April	97,814										41,6
February March April	97,814 97,687	55,983	57.4	53,029	163	52,868	663	52,203	2,953	5.3	41,6 41,5 41,4

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

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

HOUSEHOLD DATA HISTORICAL

A-3. Employment status of the civilian noninstitutional population 16 years and over, 1955 to date

Year	Civilian noninsti-		Civilian la	bor force		Un	employment rat	es
and month	tutional population	Total	Percent of population	Employed	Unemployed	Total	Men	Women
				Annual	averages			
955	109,683	65,023	59.3	62,170	2,852	4.4	4.2	4.9
956	110,954	66,552	60.0	63,799	2,750	4.1	3.8	4.8
957	112,265	66,929	59.6	64,071	2,859	4.3	4.1	4.7
958	113,727	67,639	59.5	63,036	4,602	6.8	6.8	6.8
959	115,329	68,369	59.3	64,630	3,740	5.5	5.2	5.9
960¹	117,245	69,628	59.4	65,778	3,852	5.5	5.4	5.9
961	118,771	70,459	59.3	65,746	4,714	6.7	6.4	7.2
962 ¹	120,153	70,43 <i>8</i> 70,614	58.8	66,702	3,911	5.5	5.2	6.2
963	122,416	71,833	58.7	67,762	4,070	5.7	5.2	6.5
964	124,485	73,091	58.7	69,305	3,786	5.2	4.6	6.2
			58.9			4.5	4.0	5.5
965	126,513	74,455		71,088	3,366			
966	128,058	75,770	59.2	72,895	2,875	3.8	3.2	4.8
967	129,874	77,347	59.6	74,372	2,975	3.8	3.1	5.2
968 969	132,028 134,335	78,737 80,734	59.6 60.1	75,920 77,902	2,817 2,832	3.6 3.5	2.9 2.8	4.8 4.7
970	137,085	82,771	60.4	78,678	4,093	4.9	4.4	5.9
971	140,216	84,382	60.2	79,367	5,016	5.9	5.3	6.9
972'	144,126	87,034	60.4	82,153	4,882	5.6	5.0	6.6
973'	147,096	89,429	60.8	85,064	4,365	4.9	4.2	6.0
974	150,120	91,949	61.3	86,794	5,156	5.6	4.9	6.7
975	153,153	93,775	61.2	85,846	7,929	8.5	7.9	9.3
976	156,150	96,158	61.6	88,752	7,406	7.7	7.1	8.6
977	159,033	99,009	62.3	92,017	6,991	7.1	6.3	8.2
9781	161,910	102,251	63.2	96,048	6,202	6.1	5.3	7.2
979		104,962	63.7	98,824	6,137	5.8	5.1	6.8
980	167,745	106,940	63.8	99,303	7.637	7.1	6.9	7.4
981		108,670	63.9	100,397	8,273	7.6	7.4	7.9
982		110,204	64.0	99,526	10,678	9.7	9.9	9.4
983		111,550	64.0	100,834	10,717	9.6	9.9	9.2
984		113,544	64.4	105,005	8,539	7.5	7.4	7.6
985		115,461	64.8	107,150	8,312	7.2	7.0	7.4
986¹		117,834	65.3		8,237	7.0	6.9	7. 4 7.1
	1 '	,	I	109,597				
987 988	182,753 184,613	119,865 121,669	65.6 65.9	112,440 114,968	7,425 6,701	6.2 5.5	6.2 5.5	6.2 5.6
			L			<u> </u>		
				onthiy data, se	easonally adjusted			
1988:	194 700	101 650	65.0	115.004	6 604	5.4	5.0	
July		121,658	65.9	115,034	6,624	5.4 5.6	5.3 5.6	5.7
August	1 '	122,000	66.0	115,203	6,797	5.6	5.6	5.5
September		121,984	66.0	115,370	6,614	5.4	5.4	5.5
October		122,091	66.0	115,573	6,518	5.3	5.4	5.3
November December	185,244 185,402	122,510 122,563	66.1 66.1	115,947 116,009	6,563 6,554	5.4 5.3	5.4 5.3	5.3 5.4
989:		,						
January	185,644	123,428	66.5	116,711	6,716	5.4	5.5	5.4
February		123,181	66.3	116,853	6,328	5.1	5.2	5.0
March		123,284	66.3	117,136	6,128	5.0	4.8	5.1
April		123,659	66.5	117,113	6,546	5.3	5.3	5.3
May	1 '	123,610	66.4	117,215	6,395	5.2	5.0	5.3
June		124,102	66.6	117,541	6,561	5.3	5.0	5.6
July	186,483	123,956	66.5	117,459	6,497	5.2	4.8	5.7

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

Explanatory Notes.

² The population figures are not adjusted for seasonal variation.

A-4. Employment status of the civilian noninstitutional population by age, sex, and race

TOTAL 16 years and over	Civilian noninstitutional opulation 186,483 14,196 6,814 7,383 18,004 103,672 42,919 21,1749 35,985 13,463 24,768 13,463 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	Total 126,238 9,875 4,115 5,761 15,081 86,025 35,942 17,669 18,274 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	Civil Percent of population 67.7 69.6 60.4 78.0 83.8 83.0 83.7 83.5 84.0 84.4 83.8 85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 4.3 78.3 73.5 63.8 82.8 90.4 93.8 94.9 94.1	In labor force Employed 119,502 8,465 3,409 5,056 13,808 82,432 34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,363 11,425 6,839 4,586 901 483 68,265 4,554 1,844 2,710 7,240 45,841 19,187	0,736 1,410 705 704 1,273 3,593 1,871 985 886 1,135 661 474 586 327 259 375 228 147 86 62 17 8 3,308 694 374 320 636 1,739	5.3 14.3 17.1 12.2 8.4 4.2 5.6 4.8 3.7 4.1 3.3 3.0 2.9 3.0 3.2 3.2 3.1 2.5 3.0 1.9 1.6	Total 60,245 4,321 2,699 1,622 2,693 17,645 6,977 3,478 5,618 3,134 2,483 5,051 2,369 2,682 9,613 3,604 2,7,962 6,888 10,893	Keeping house 27,482 592 215 377 1,366 12,165 5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,580 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684	Going to school 2,156 862 480 381 624 638 418 290 127 172 105 67 50 37 12 22 13 3 164 29 3 1	Unable to work 3,453 42 13 29 1,343 308 144 479 228 250 557 794 415 379 1,205 279 234 691	27,154 2,826 1,991 835 864 3,499 1,225 653 572 1,131 640 490 1,144 513 631 4,301 1,239 3,063 15,662 4,239 6,511
TOTAL 16 years and over	186,483 14,196 6,814 7,383 18,004 103,672 42,919 16,635 24,768 11,305 21,413 10,670 10,743 29,199 10,030 10,743 29,198 11,384 88,816 7,137 3,478 3,656 87,137 3,478 3,656 87,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	126,238 9,875 4,115 5,761 15,081 86,025 35,942 17,669 18,274 30,367 16,214 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	67.7 69.6 60.4 78.0 83.8 83.0 83.7 83.5 84.0 84.4 83.8 85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 4.3	119,502 8,465 3,409 5,056 13,808 82,432 34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,363 11,425 8,839 4,586 3,370 1,986 4,584 1,844 2,710 7,240 45,841	6,736 1,410 705 704 1,273 3,593 1,871 985 886 1,135 661 474 586 327 259 375 228 147 86 62 1,7 8 3,308 694 374 320 636 1,739	Percent of labor force 5.3 14.3 17.1 12.2 8.4 4.2 5.6 4.8 3.7 4.1 3.3 3.0 2.9 3.0 3.2 3.1 2.5 3.0 1.9 1.6	60,245 4,321 2,699 1,622 2,923 17,645 6,977 3,501 3,478 5,618 3,134 2,483 5,051 2,369 2,682 9,613 3,604 6,009 25,742 7,962 6,868 10,893 1,888 1,288 1,888 1,888 1,888 1,888 1,888 1,888 1,888	27,482 592 215 377 1,366 12,165 5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684	to school 2,156 862 480 381 624 638 418 290 127 172 105 67 50 37 12 22 13 9 12 4 2 6 1,001 397 233 164	3,453 42 13 29 69 1,343 308 143 164 479 228 250 557 739 1,205 279 234 691 1,914 21 8	27,154 2,826 1,991 835 864 3,499 1,225 653 5131 640 490 1,144 513 631 4,301 1,239 3,063 15,662 4,912 4,239 6,511
TOTAL 16 years and over	tutional opulation 186,483 14,196 6,814 7,383 18,004 103,672 42,919 21,1749 35,985 19,349 13,463 24,768 13,463 10,674 10,743 29,199 10,030 11,384 88,816 7,137 3,478 3,658 8,717 50,732 21,156 10,406 10,750	126,238 9,875 4,115 5,761 15,081 86,025 35,942 17,669 18,274 30,367 16,214 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	67.7 69.6 60.4 78.0 83.8 83.0 83.7 83.5 84.0 84.4 83.8 85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 4.3	119,502 8,465 3,409 5,056 13,808 82,432 34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,363 11,425 8,839 4,586 3,370 1,986 4,584 1,844 2,710 7,240 45,841	6,736 1,410 705 704 1,273 3,593 1,871 985 886 1,135 661 474 586 327 259 375 228 147 86 62 17 8	of labor force 5.3 14.3 17.1 12.2 8.4 4.2 5.6 4.8 3.7 4.1 3.0 2.9 3.0 2.9 3.0 1.9 1.6 4.8 13.2 16.9 10.6	60,245 4,321 2,699 1,622 2,923 17,645 6,977 3,501 3,478 5,618 3,134 2,483 5,051 2,369 2,682 9,613 3,604 6,009 25,742 7,962 6,868 10,893 1,888 1,288 1,888 1,888 1,888 1,888 1,888 1,888 1,888	27,482 592 215 377 1,366 12,165 5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684	to school 2,156 862 480 381 624 638 418 290 127 172 105 67 50 37 12 22 13 9 12 4 2 6 1,001 397 233 164	3,453 42 13 29 69 1,343 308 143 164 479 228 250 557 739 1,205 279 234 691 1,914 21 8	27,154 2,826 1,991 835 864 3,499 1,225 653 572 1,131 640 490 1,144 513 631 4,301 1,239 6,511 15,824 1,440 1,004
16 to 19 years 16 to 19 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 25 to 34 years 35 to 44 years 35 to 44 years 35 to 44 years 35 to 54 years 45 to 54 years 45 to 54 years 55 to 64 years 55 to 64 years 55 to 69 years 60 to 64 years 75 years and over 61 to 19 years 18 to 19 years 25 to 34 years 25 to 29 years 30 to 34 years 55 to 69 years 75 years and over 65 to 69 years 16 to 17 years 18 to 19 years 25 to 34 years 25 to 54 years 25 to 54 years 35 to 39 years 40 to 44 years 55 to 54 years 55 to 59 years 66 to 19 years 16 to 17 years 18 to 19 years 25 to 20 to 24 years 25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years 55 to 54 years 55 to 64 years 55 to 69 years 65 years and over 65 to 69 years 75 years and over	14,196 6,814 7,383 18,004 103,672 42,919 21,170 21,749 35,985 24,768 11,305 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	9,875 4,115 5,761 15,081 86,025 35,942 17,669 18,274 30,367 16,214 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	69.6 60.4 78.0 83.8 83.0 83.7 83.5 84.0 84.4 83.8 85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 4.3 78.3 78.3 78.3 78.3 78.3 90.4 93.8 90.4 93.8	8,465 3,409 5,056 13,808 82,432 34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,363 11,425 8,363 4,586 3,370 1,986 901 483	1,410 705 704 1,273 3,593 1,871 985 886 1,135 661 474 586 327 259 375 228 147 86 62 17 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	14.3 17.1 12.2 8.4 4.2 5.6 4.8 3.7 4.1 3.3 3.0 2.9 3.0 3.2 3.1 2.5 3.0 1.9 1.6	4,321 2,699 1,622 2,923 17,645 6,977 3,501 3,478 5,618 3,134 2,483 1,369 2,662 9,613 3,604 6,009 25,742 6,868 10,893 1,888 1,888 1,888 1,888 1,888 1,888	592 215 377 1,366 12,165 5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684	862 480 381 624 638 418 290 127 105 67 50 37 12 22 22 13 9 12 4 2 6	42 13 29 69 1,343 308 143 164 479 228 250 557 239 317 794 415 379 1,205 279 234 691	2,826 1,991 8355 864 3,499 1,225 653 572 1,131 640 4,90 1,144 513 631 1,239 3,063 15,662 4,912 4,239 6,511
16 to 19 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years 45 to 49 years 50 to 54 years 51 to 69 years 60 to 64 years 65 years and over 65 to 69 years 16 to 17 years 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 30 to 34 years 31 to 44 years 35 to 54 years 35 to 69 years 36 to 19 years 37 to 10 74 years 38 to 19 years 39 to 19 years 30 to 34 years 30 to 34 years 35 to 44 years 35 to 49 years 36 to 49 years 36 to 49 years 37 to 59 years 38 to 59 years 39 to 69 years 30 to 69 years 50 to 69 years 50 to 69 years 50 to 69 years 50 to 69 years 60 to 69 years 75 years and over 65 to 69 years 75 years and over	14,196 6,814 7,383 18,004 103,672 42,919 21,170 21,749 35,985 24,768 11,305 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	9,875 4,115 5,761 15,081 86,025 35,942 17,669 18,274 30,367 16,214 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	69.6 60.4 78.0 83.8 83.0 83.7 83.5 84.0 84.4 83.8 85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 4.3 78.3 78.3 78.3 78.3 78.3 90.4 93.8 90.4 93.8	8,465 3,409 5,056 13,808 82,432 34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,363 11,425 8,363 4,586 3,370 1,986 901 483	1,410 705 704 1,273 3,593 1,871 985 886 1,135 661 474 586 327 259 375 228 147 86 62 17 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	14.3 17.1 12.2 8.4 4.2 5.6 4.8 3.7 4.1 3.3 3.0 2.9 3.0 3.2 3.1 2.5 3.0 1.9 1.6	4,321 2,699 1,622 2,923 17,645 6,977 3,501 3,478 5,618 3,134 2,483 1,369 2,662 9,613 3,604 6,009 25,742 6,868 10,893 1,888 1,888 1,888 1,888 1,888 1,888	592 215 377 1,366 12,165 5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684	862 480 381 624 638 418 290 127 105 67 50 37 12 22 22 13 9 12 4 2 6	42 13 29 69 1,343 308 143 164 479 228 250 557 239 317 794 415 379 1,205 279 234 691	2,826 1,991 8355 864 3,499 1,225 653 572 1,131 640 4,90 1,144 513 631 1,239 3,063 15,662 4,912 4,239 6,511
16 to 19 years 16 to 17 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 25 to 34 years 30 to 34 years 35 to 39 years 40 to 44 years 45 to 49 years 50 to 54 years 50 to 54 years 55 to 64 years 55 to 69 years 60 to 64 years 65 years and over 65 years and over 61 to 19 years 16 to 19 years 17 to 44 years 18 to 19 years 19 to 44 years 19 to 44 years 19 to 44 years 19 to 49 years 19 to 59 years 10 to 64 years 10 to 74 years 17 to 74 years 17 to 74 years 17 to 74 years 17 to 74 years 18 to 19 years 19 to 19 years 10 to 19 years	14,196 6,814 7,383 18,004 103,672 42,919 21,170 21,749 35,985 24,768 11,305 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	9,875 4,115 5,761 15,081 86,025 35,942 17,669 18,274 30,367 16,214 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	69.6 60.4 78.0 83.8 83.0 83.7 83.5 84.0 84.4 83.8 85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 4.3 78.3 78.3 78.3 78.3 78.3 90.4 93.8 90.4 93.8	8,465 3,409 5,056 13,808 82,432 34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,363 11,425 8,363 4,586 3,370 1,986 901 483	1,410 705 704 1,273 3,593 1,871 985 886 1,135 661 474 586 327 259 375 228 147 86 62 17 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	14.3 17.1 12.2 8.4 4.2 5.6 4.8 3.7 4.1 3.3 3.0 2.9 3.0 3.2 3.1 2.5 3.0 1.9 1.6	4,321 2,699 1,622 2,923 17,645 6,977 3,501 3,478 5,618 3,134 2,483 1,369 2,662 9,613 3,604 6,009 25,742 6,868 10,893 1,888 1,888 1,888 1,888 1,888 1,888	592 215 377 1,366 12,165 5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684	862 480 381 624 638 418 290 127 105 67 50 37 12 22 22 13 9 12 4 2 6	42 13 29 69 1,343 308 143 164 479 228 250 557 239 317 794 415 379 1,205 279 234 691	2,826 1,991 8355 864 3,499 1,225 653 572 1,131 640 4,90 1,144 513 631 1,239 3,063 15,662 4,912 4,239 6,511
16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 25 to 34 years 30 to 34 years 30 to 34 years 35 to 44 years 35 to 44 years 40 to 44 years 45 to 54 years 55 to 54 years 55 to 64 years 55 to 69 years 65 years and over 65 to 69 years 16 to 19 years 16 to 19 years 25 to 54 years 25 to 54 years 35 to 44 years 45 to 49 years 55 to 69 years 75 years and over 86 years and over 86 years 16 to 17 years 18 to 19 years 25 to 54 years 25 to 54 years 25 to 54 years 35 to 44 years 25 to 54 years 35 to 44 years 25 to 54 years 35 to 44 years 35 to 44 years 55 to 54 years 35 to 44 years 55 to 54 years 36 to 39 years 40 to 44 years 55 to 59 years 40 to 44 years 55 to 59 years 55 to 59 years 65 years and over 65 to 69 years 55 to 64 years 55 to 64 years 55 to 64 years 55 to 69 years 65 years and over 65 to 69 years 75 years and over	6,814 7,383 18,004 103,672 42,919 21,170 21,749 35,985 19,349 16,635 24,768 31,463 11,305 21,413 10,670 21,413 10,673 21,413 10,743 29,199 10,030 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	4,115 5,761 15,081 86,025 35,942 17,669 18,274 30,367 16,214 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	60.4 78.0 83.8 83.0 83.7 83.5 84.0 84.4 83.8 85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 4.3 78.3 73.5 63.8 82.8 90.4 94.9	3,409 5,056 13,808 82,432 34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,383 11,425 8,839 4,586 3,370 1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	705 704 1,273 3,593 1,871 985 886 1,135 661 474 586 327 225 375 228 147 86 62 17 8 8 3,308 694 374 320 636 1,739	17.1 12.2 8.4 4.2 5.2 5.6 4.8 3.7 4.1 3.3 3.0 2.9 3.0 3.2 3.2 3.2 3.1 2.5 3.0 1.9 1.6	2,699 1,622 2,923 17,645 6,977 3,501 3,478 5,618 3,134 2,483 5,051 2,369 2,682 9,613 3,604 6,868 10,893 19,243 1,888 1,888 1,886 1,886 828	215 377 1,366 12,165 5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,580 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684	381 624 638 418 290 127 172 105 67 122 22 13 9 12 4 2 6	13 29 69 1,343 308 143 164 479 228 250 557 239 317 794 415 379 1,205 279 234 691	1,991 835 884 3,499 1,225 653 572 1,131 640 490 1,144 513 631 1,239 3,063 15,662 4,912 4,239 6,511
20 to 24 years 25 to 34 years 25 to 34 years 25 to 34 years 30 to 34 years 35 to 39 years 40 to 44 years 45 to 49 years 50 to 54 years 55 to 64 years 65 to 64 years 76 years and over 66 to 69 years 16 to 19 years 16 to 19 years 25 to 54 years 25 to 54 years 35 to 44 years 45 to 54 years 66 years and over 67 years and over 68 years and over 69 years 60 to 64 years 61 to 69 years 62 years 63 to 69 years 64 years 65 years 66 years 67 years 68 years 69 years 69 years 60 to 64 years 61 to 19 years 61 to 19 years 61 to 19 years 62 to 34 years 63 to 34 years 65 to 54 years 65 to 64 years 65 to 64 years 65 to 64 years 65 years and over 65 years and over 65 years and over 65 years and over	18,004 103,672 42,919 21,170 21,749 35,985 19,349 16,635 24,768 11,305 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,406 10,750	15,081 86,025 35,942 17,669 18,274 30,367 16,214 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	83.8 83.0 83.7 83.5 84.0 84.4 83.8 85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 4.3 78.3 73.5 63.8 82.8 90.4 93.8	13,808 82,432 34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,363 11,425 8,839 4,586 3,370 1,986 901 483	1,273 3,593 1,871 985 886 1,135 661 474 586 327 259 375 228 147 86 62 17 8	8.4 4.2 5.6 4.8 3.7 4.1 3.3 3.0 2.9 3.0 3.2 3.1 2.5 3.0 1.9 1.6	2,923 17,645 6,977 3,501 3,478 5,618 3,134 2,483 5,051 2,662 9,613 3,604 6,009 25,742 6,868 10,893 1,888 1,243 1,888 1,243 1,888 1,888	1,366 12,165 5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,580 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684	624 638 418 290 127 172 105 67 50 37 12 22 21 13 9 12 4 2 6	69 1,343 308 143 164 479 228 250 557 239 317 794 415 379 1,205 279 234 691	864 3,499 1,225 653 572 1,131 1,640 490 1,144 513 631 4,301 1,239 3,063 15,662 4,239 6,511
25 to 54 years	103,672 42,919 21,170 21,749 35,985 11,365 24,768 11,305 21,413 10,670 10,743 29,199 10,030 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,406 10,406	86,025 35,942 17,669 18,274 30,367 16,214 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	83.0 83.7 83.5 84.0 84.4 83.8 85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 20.4 11.8 4.3 78.3 73.5 63.8 82.8 90.4 94.9	82,432 34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,363 11,425 8,363 4,596 3,370 1,986 3,370 1,986 4,596 4,554 1,844 2,710 7,240 45,841	3,593 1,871 985 886 1,135 661 474 586 327 225 375 228 147 86 62 17 8 8 3,308 694 374 320 636 1,739	4.2 5.2 5.6 4.8 3.7 4.1 3.3 3.0 2.9 3.2 3.2 3.2 3.1 2.5 3.0 1.9 1.6	17,645 6,977 3,501 3,478 5,618 3,134 5,051 2,369 2,682 9,613 3,604 6,009 25,742 7,962 6,868 10,893	12,165 5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,586 1,938 2,788 2,788 2,788 2,383 3,684	638 418 290 127 172 105 67 50 37 12 22 13 9 12 4 2 6 6	1,343 308 143 164 479 228 250 557 239 317 794 415 379 1,205 279 234 691	3,499 1,225 653 572 1,131 640 490 1,144 513 4,301 1,239 3,063 15,662 4,912 4,239 6,511
25 to 34 years 25 to 29 years 35 to 44 years 35 to 44 years 35 to 39 years 45 to 54 years 45 to 54 years 55 to 59 years 60 to 64 years 60 to 64 years 75 years and over Men 6 years and over 16 to 19 years 25 to 34 years 25 to 59 years 16 to 17 years 18 to 19 years 25 to 59 years 25 to 59 years 16 to 17 years 18 to 19 years 25 to 34 years 25 to 59 years 35 to 39 years 45 to 44 years 55 to 59 years 45 to 49 years 55 to 59 years 45 to 49 years 55 to 59 years 45 to 49 years 55 to 59 years 55 to 64 years 55 to 59 years 65 years and over 65 to 69 years 75 years and over 65 to 69 years 75 years and over 65 to 69 years 75 years and over	42,919 21,1749 35,985 19,349 16,635 24,768 13,463 11,305 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,658 8,717 50,732 21,156 10,406 10,750	35,942 17,669 18,274 30,367 16,214 14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,677 47,580 20,067 9,789	83.7 83.5 84.0 84.4 83.8 85.1 79.6 92.4 76.3 55.1 96.2 44.1 11.8 20.4 11.8 4.3 78.3 78.3 78.3 90.4 90.4 93.8 94.9	34,071 16,683 17,388 29,232 15,554 13,678 19,130 10,767 8,363 11,425 8,839 4,586 3,370 1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	1,871 985 886 1,135 661 474 586 327 259 375 228 147 86 62 17 8	5.2 5.6 4.8 3.7 4.1 3.0 2.9 3.0 3.2 3.2 3.1 2.5 3.0 1.9 1.6 4.8 13.2 16.9 10.6	6,977 3,578 5,618 3,134 2,483 5,051 2,369 2,662 9,613 3,604 6,009 25,742 7,962 6,868 10,893 1,888 1,269 829	5,028 2,415 2,613 3,837 2,161 1,676 3,301 1,580 1,721 4,496 1,938 2,558 2,788 2,383 3,684	418 290 127 172 105 67 50 37 12 22 13 9 9 1 4 2 6	308 143 164 479 228 250 557 239 317 794 415 379 1,205 279 234 691	1,225 653 5722 1,131 640 4990 1,144 513 631 1,239 3,063 4,912 4,239 6,511 15,824 1,440 1,004 4,95
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35 to 39 years 40 to 44 years 45 to 49 years 50 to 54 years 55 to 64 years 55 to 64 years 55 years and over 65 to 69 years 70 to 74 years 75 years and over Men 3 years and over 16 to 19 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 25 to 29 years 30 to 34 years 35 to 44 years 35 to 44 years 45 to 54 years 45 to 54 years 55 to 64 years 55 to 64 years 55 to 64 years 65 to 64 years 65 to 64 years 65 to 64 years 65 to 65 years 60 to 64 years 65 to 66 years 70 to 74 years 77 years and over 66 to 69 years 77 to 74 years 77 years and over	16,635 24,768 13,463 11,305 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	14,153 19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	85.1 79.6 82.4 76.3 55.1 86.2 44.1 11.8 20.4 11.8 4.3 78.3 78.3 78.3 78.3 82.8 90.4 93.8	13,678 19,130 10,767 8,363 11,425 8,839 4,586 3,370 1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	474 586 327 259 375 228 147 86 62 17 8 3,308 694 374 320 636 1,739	3.3 3.0 2.9 3.0 3.2 3.1 2.5 3.0 1.9 1.6 4.8 13.2 16.9 10.6	2,483 5,051 2,369 2,682 9,613 3,604 6,009 25,742 7,962 6,868 10,893	1,676 3,301 1,580 1,721 4,496 1,938 2,558 8,863 2,788 2,788 2,393 3,684	67 50 37 12 22 13 9 12 4 2 6 6	250 557 239 317 794 415 379 1,205 279 234 691 1,914 21 8	490 1,144 513 633 4,301 1,238 3,063 15,662 4,912 4,236 6,511 15,824 1,440 1,004 435
45 to 54 years 45 to 49 years 55 to 64 years 55 to 64 years 55 to 69 years 60 to 64 years 70 to 74 years 75 years and over Men 3 years and over 16 to 19 years 16 to 19 years 18 to 19 years 25 to 54 years 25 to 54 years 35 to 34 years 35 to 44 years 35 to 44 years 45 to 54 years 45 to 54 years 45 to 54 years 55 to 54 years 55 to 54 years 56 to 64 years 56 to 64 years 57 to 64 years 58 to 64 years 58 to 64 years 59 to 64 years 59 to 64 years 50 to 64 years 56 to 69 years 57 to 74 years 58 to 89 years 59 years and over 68 to 69 years 75 years and over Women	24,768 13,463 11,305 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,658 8,717 50,732 21,156 10,406 10,750	19,716 11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	79.6 82.4 76.3 55.1 86.2 44.1 11.8 20.4 11.8 4.3 78.3 73.5 63.8 82.8 90.4 94.9	19,130 10,767 8,363 11,425 8,839 4,586 3,370 1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	586 327 259 375 228 147 86 62 17 8	3.0 2.9 3.0 3.2 3.2 3.1 2.5 3.0 1.9 1.6 4.8 13.2 16.9 10.6	5,051 2,369 2,682 9,613 3,604 6,009 25,742 7,982 6,868 10,893 19,243 1,888 1,260 828	3,301 1,580 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684	50 37 12 22 13 9 12 4 2 6 1,001 397 233	557 239 317 794 415 379 1,205 279 234 691	1,144 513 631 4,301 1,238 3,063 15,662 4,912 4,238 6,511 15,824 1,440 4,35
45 to 49 years 50 to 54 years 55 to 64 years 55 to 59 years 60 to 64 years 85 years and over 65 to 69 years 70 to 74 years 75 years and over Men 8 years and over 18 to 19 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 25 to 29 years 30 to 34 years 35 to 44 years 45 to 54 years 45 to 54 years 55 to 59 years 60 to 64 years 55 to 69 years 60 to 64 years 65 years and over 65 to 69 years 70 to 74 years 75 years and over 65 to 69 years 70 to 74 years 75 years and over 86 years 77 to 74 years 77 years and over 86 years and over 86 years and over	13,463 11,305 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	11,094 8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	82.4 76.3 55.1 86.2 44.1 11.8 20.4 11.8 4.3 78.3 78.3 78.5 63.8 82.8 90.4 93.8	10,767 8,363 11,425 6,839 4,586 3,370 1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	327 259 375 228 147 86 62 17 8 3,308 694 374 320 636 1,739	2.9 3.0 3.2 3.2 3.1 2.5 3.0 1.9 1.6 4.8 13.2 16.9 10.6	2,369 2,682 9,613 3,604 6,009 25,742 7,982 6,868 10,893 1,888 1,888 1,260 828	1,580 1,721 4,496 1,938 2,558 8,863 2,788 2,393 3,684 504 31 15	37 12 22 13 9 12 4 2 6	239 317 794 415 379 1,205 279 234 691	513 631 4,301 1,238 3,063 15,662 4,912 4,238 6,511 15,824 1,404 435
50 to 54 years 55 to 59 years 60 to 64 years 55 to 59 years 60 to 64 years 55 years and over 65 to 69 years 70 to 74 years 75 years and over Men 8 years and over 18 to 19 years 20 to 24 years 25 to 54 years 30 to 34 years 30 to 34 years 35 to 44 years 35 to 44 years 45 to 54 years 50 to 54 years 50 to 54 years 60 to 64 years 55 to 59 years 60 to 64 years 55 to 59 years 60 to 64 years 65 to 69 years 70 to 74 years 75 years and over Women	11,305 21,413 10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	8,822 11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	76.3 55.1 86.2 44.1 11.8 20.4 11.8 4.3 78.3 78.3 78.3 78.3 90.4 93.8 94.9	8,363 11,425 8,839 4,586 3,370 1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	259 375 228 147 86 62 17 8 3,308 694 374 320 636 1,739	3.0 3.2 3.2 3.1 2.5 3.0 1.9 1.6 4.8 13.2 16.9 10.6	2,682 9,613 3,604 6,009 25,742 7,962 6,868 10,893 1,888 1,888 1,888 1,860 828	1,721 4,496 1,938 2,558 8,863 2,788 2,383 3,684	12 22 13 9 12 4 2 6 1,001 397 233 164	317 794 415 379 1,205 279 234 691 1,914 21 8 13	631 4,301 1,236 3,063 15,662 4,912 6,511 15,824 1,440 4,35
55 to 64 years	21,413 10,674 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,658 8,717 50,732 21,158 10,406 10,750	11,800 7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	55.1 86.2 44.1 11.8 20.4 11.8 4.3 78.3 73.5 63.8 82.8 90.4 93.8 94.9	11,425 8,839 4,586 3,370 1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	375 228 147 86 62 17 8 3,308 694 374 320 636 1,739	3.2 3.2 3.1 2.5 3.0 1.9 1.6 4.8 13.2 16.9 10.6	9,613 3,604 6,009 25,742 7,982 6,868 10,893 1,888 1,888 1,888 1,260 828	4,496 1,938 2,558 8,863 2,788 2,393 3,684 504 31 15 18	22 13 9 12 4 2 6 1,001 397 233 164	794 415 379 1,205 279 234 691 1,914 21 8 13	4,301 1,239 3,063 15,662 4,912 4,239 6,511 15,824 1,444 1,004 4,35
55 to 59 years 60 to 64 years 85 years and over 85 years and over 85 years and over 96 years 70 to 74 years 75 years and over 16 to 19 years 16 to 19 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 25 to 29 years 30 to 34 years 35 to 34 years 35 to 39 years 40 to 44 years 45 to 54 years 55 to 69 years 55 to 69 years 60 to 64 years 55 to 69 years 60 to 64 years 70 to 74 years 75 years and over 86 years and over 86 years and over 96 years 77 to 74 years 75 years and over 96 years 97 years and over 97 years and over 98 years and over 98 years and over	10,670 10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 3,658 8,717 50,732 21,156 10,406 10,750	7,067 4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,677 47,580 20,067 9,789	86.2 44.1 11.8 20.4 11.8 4.3 78.3 73.5 63.8 82.8 90.4 93.8 94.9	8,839 4,586 3,370 1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	228 147 86 62 17 8 3,308 694 374 320 636 1,739	3.2 3.1 2.5 3.0 1.9 1.6 4.8 13.2 16.9 10.6	3,604 6,009 25,742 7,962 6,868 10,893 19,243 1,888 1,260 828	1,938 2,558 8,863 2,788 2,393 3,684 504 31 15 18	13 9 12 4 2 6 1,001 397 233 164	415 379 1,205 279 234 691 1,914 21 8 13	1,239 3,063 15,662 4,912 4,239 6,511 15,824 1,440 1,004 435
60 to 64 years 65 years and over 65 to 69 years 70 to 74 years 75 years and over Men 8 years and over 16 to 19 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 30 to 34 years 35 to 44 years 35 to 44 years 45 to 54 years 40 to 44 years 50 to 54 years 60 to 64 years 50 to 54 years 75 years 60 to 64 years 65 years 60 to 64 years 65 years 75 years and over 65 to 69 years 75 years and over Women	10,743 29,199 10,030 7,785 11,384 88,816 7,137 3,478 8,656 8,717 50,732 21,156 10,406 10,750	4,733 3,456 2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	78.3 73.5 63.8 82.8 90.4 93.8 94.9	4,586 3,370 1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	3,308 694 374 320 636 1,739	3.1 2.5 3.0 1.9 1.6 4.8 13.2 16.9 10.6	6,009 25,742 7,962 6,868 10,893 19,243 1,888 1,260 828	2,558 8,863 2,788 2,393 3,684 504 31 15 18	9 12 4 2 6 1,001 397 233 164	379 1,205 279 234 691 1,914 21 8 13	3,063 15,662 4,912 4,239 6,511 15,824 1,440 1,004 435
65 to 69 years 70 to 74 years 75 years and over Men 3 years and over 16 to 19 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years 45 to 54 years 55 to 64 years 55 to 69 years 60 to 64 years 55 to 69 years 70 to 74 years 75 years and over Women	10,030 7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	2,048 917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	20.4 11.8 4.3 78.3 73.5 63.8 82.8 90.4 93.8 94.9	1,986 901 483 68,265 4,554 1,844 2,710 7,240 45,841	62 17 8 3,308 694 374 320 636 1,739	3.0 1.9 1.6 4.8 13.2 16.9 10.6	7,982 6,868 10,893 19,243 1,888 1,260 828	2,788 2,393 3,684 504 31 15 18	1,001 397 233 164	279 234 691 1,914 21 8 13	4,912 4,239 6,511 15,824 1,440 1,004 435
70 to 74 years 75 years and over Men 3 years and over 16 to 19 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 30 to 34 years 35 to 44 years 35 to 44 years 40 to 44 years 45 to 54 years 50 to 54 years 60 to 64 years 50 to 54 years 70 to 74 years 75 years and over Women	7,785 11,384 88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	917 491 69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	78.3 73.5 63.8 82.8 90.4 93.8 94.9	901 483 68,265 4,554 1,844 2,710 7,240 45,841	3,308 694 374 320 636 1,739	1.9 1.6 4.8 13.2 16.9 10.6	6,868 10,893 19,243 1,888 1,260 828	2,393 3,684 504 31 15 18	1,001 397 233 164	234 691 1,914 21 8 13	4,239 6,511 15,824 1,440 1,004 435
## Men S years and over	88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	78.3 73.5 63.8 82.8 90.4 93.8 94.9	68,265 4,554 1,844 2,710 7,240 45,841	3,308 694 374 320 636 1,739	4.8 13.2 16.9 10.6	19,243 1,888 1,260 628	504 31 15 18	1,001 397 233 164	1,914 21 8 13	6,511 15,824 1,440 1,004 435
Men 6 years and over	88,816 7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	69,573 5,249 2,218 3,031 7,877 47,580 20,067 9,789	78.3 73.5 63.8 82.8 90.4 93.8 94.9	68,265 4,554 1,844 2,710 7,240 45,841	3,308 694 374 320 636 1,739	4.8 13.2 16.9 10.6	19,243 1,888 1,260 628	504 31 15 18	1,001 397 233 164	1,914 21 8 13	15,824 1,440 1,004 435
5 years and over	7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	5,249 2,218 3,031 7,877 47,580 20,067 9,789	73.5 63.8 82.8 90.4 93.8 94.9	4,554 1,844 2,710 7,240 45,841	694 374 320 636 1,739	13.2 16.9 10.6	1,888 1,260 828	31 15 18	397 233 164	21 8 13	1,440 1,004 435
16 to 19 years 16 to 17 years 16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 54 years 25 to 29 years 30 to 34 years 35 to 44 years 45 to 54 years 45 to 54 years 45 to 54 years 55 to 54 years 50 to 54 years 50 to 54 years 55 to 64 years 55 to 64 years 57 years and over 68 years and over 69 years 69 years 60 to 174 years 69 years 69 years 60 to 174 years 69 years 69 years 69 years 60 to 174 years 69 years 69 years 69 years 60 to 174 years 69 years	7,137 3,478 3,656 8,717 50,732 21,156 10,406 10,750	5,249 2,218 3,031 7,877 47,580 20,067 9,789	73.5 63.8 82.8 90.4 93.8 94.9	4,554 1,844 2,710 7,240 45,841	694 374 320 636 1,739	13.2 16.9 10.6	1,888 1,260 828	31 15 18	397 233 164	21 8 13	1,440 1,004 435
16 to 17 years 18 to 19 years 20 to 24 years 25 to 54 years 25 to 34 years 25 to 34 years 30 to 34 years 35 to 44 years 35 to 44 years 40 to 44 years 45 to 54 years 50 to 54 years 50 to 54 years 60 to 64 years 60 to 64 years 60 to 64 years 60 to 64 years 70 to 74 years 70 to 74 years 75 years and over Women 8 years and over	3,478 3,656 8,717 50,732 21,156 10,406 10,750	2,218 3,031 7,877 47,580 20,067 9,789	63.8 82.8 90.4 93.8 94.9	1,844 2,710 7,240 45,841	374 320 636 1,739	16.9 10.6	1,260 828	15 18	233 164	8 13	1,004 435
18 to 19 years 20 to 24 years 25 to 54 years 25 to 29 years 30 to 34 years 35 to 34 years 35 to 39 years 40 to 44 years 45 to 54 years 45 to 59 years 55 to 64 years 60 to 64 years 65 years and over 65 to 69 years 70 to 74 years 75 years and over Women	3,656 8,717 50,732 21,156 10,406 10,750	3,031 7,877 47,580 20,067 9,789	82.8 90.4 93.8 94.9	2,710 7,240 45,841	320 636 1,739	10,6	828	18	164	13	435
20 to 24 years 25 to 54 years 25 to 54 years 25 to 29 years 30 to 34 years 35 to 39 years 40 to 44 years 45 to 54 years 50 to 54 years 55 to 69 years 60 to 64 years 65 years and over Women 8 years and over	8,717 50,732 21,156 10,406 10,750	7,877 47,580 20,067 9,789	90.4 93.8 94.9	7,240 45,841	636 1,739						
25 to 54 years 25 to 34 years 25 to 29 years 30 to 34 years 35 to 44 years 35 to 44 years 45 to 54 years 45 to 54 years 50 to 54 years 50 to 54 years 50 to 54 years 55 to 59 years 60 to 64 years 65 years and over 65 to 69 years 75 years and over Women 65 years and over 66 years and over 66 years and over 66 years and over 67 years and over 68 years and over 68 years and over 68 years and over 69 years 69	50,732 21,156 10,406 10,750	47,580 20,067 9,789	93.8 94.9	45,841	1,739	0.1	040				
25 to 34 years 25 to 29 years 30 to 34 years 35 to 44 years 35 to 39 years 40 to 44 years 45 to 54 years 45 to 49 years 50 to 54 years 55 to 64 years 55 to 64 years 55 to 64 years 55 to 69 years 60 to 64 years 65 years and over 65 to 69 years 70 to 74 years 75 years and over Women	21,156 10,406 10,750	20,067 9,789	94.9			3.7	3,150	196	294	866	1,794
30 to 34 years 35 to 44 years 35 to 39 years 40 to 44 years 45 to 54 years 50 to 54 years 50 to 54 years 55 to 59 years 60 to 64 years 65 years and over 65 to 69 years 75 years and over Women 8 years and over	10,750		94.1		880	4.4	1,089	69	202	226	591
35 to 44 years 35 to 39 years 40 to 44 years 45 to 54 years 45 to 54 years 50 to 54 years 55 to 59 years 60 to 64 years 55 years and over Women S years and over				9,331	458	4.7	617	32	146	105	334
35 to 39 years 40 to 44 years 45 to 54 years 45 to 54 years 50 to 54 years 55 to 64 years 55 to 64 years 65 to 64 years 65 to 64 years 70 to 74 years 75 years and over Women 3 years and over	47.000	10,279	95.6	9,857	422	4.1	472	38	56	121	257
40 to 44 years 45 to 54 years 45 to 49 years 50 to 54 years 55 to 59 years 60 to 64 years 65 to 69 years 70 to 74 years 75 years and over Women 6 years and over	17,572 9,485	16,607 8,971	94.5 94.6	16,047 8,661	560 310	3.4 3.5	985 514	66 39	72 41	309 147	517 288
45 to 54 years 45 to 49 years 50 to 54 years 55 to 54 years 60 to 64 years 65 years and over 75 years and over Women 3 years and over	8,086	7,636	94.4	7,386	250	3.3	450	28	32	162	229
45 to 49 years	12,004	10,907	90.9	10,607	300	2.7	1,097	60	20	330	666
55 to 64 years	6,539	6,033	92.3	5,858	175	2.9	506	27	13	150	318
55 to 59 years	5,465	4,874	89.2	4,749	125	2.6	591	33	6	180	371
60 to 64 years 65 years and over 65 to 69 years 70 to 74 years 75 years and over Women 6 years and over	10,097	6,813	67.5	6,616	197	2.9	3,285	90	11	471	2,712
65 years and over	5,080 5,017	4,042	79.6 55.2	3,928	114 84	2.8 3.0	1,039	32 58	6 5	256 215	745 1,968
85 to 69 years	12,134	2,771 2,054	16.9	2,687 2,014	41	2.0	2,248 10,079	154	6	511	9,408
70 to 74 years 75 years and over Women 3 years and over	4,556	1,191	26.1	1,160	31	2.8	3,365	37	- "	177	3,150
Women S years and over	3,372	541	16.0	534	8	1.5	2,831	41	1	117	2,672
3 years and over	4,206	322	7.7	320	2	.5	3,884	76	5	216	3,586
16 to 19 years											
	97,667	56,665	58.0	53,237	3,428	6.0	41,002	26,978	1,156	1,539	11,330
1H to 17 years	7,060	4,626	65.5	3,911	715	15.5	2,433	561	465	21	1,387
18 to 17 years	3,335	1,896	56.9	1,565	331	17.5	1,439	200	247	5	987
18 to 19 years	3,724 9,287	2,730	73.3 77.6	2,346 6,568	384 837	14.1 8.8	994 2,083	361 1,333	217 331	16 23	400 395
	52,940	7,204 38,445	72.6	38,591	1,852	4.8	14,495	11,969	331	477	1,705
	21,763	15,875	72.9	14,884	991	6.2	5,888	4,958	214	81	634
	10,764	7,880	73.2	7,352	527	6.7	2,884	2,383	144	38	319
30 to 34 years	10,999	7,995	72.7	7,531	464	5.8	3,004	2,575	71	43	315
	18,413	13,760	74.7	13,185	575	4.2	4,653	3,771	99	170	814
35 to 39 years	9,864	7,243	73.4	6,893	351	4.8	2,620	2,123	64	81	352
40 to 44 years	8,549 12,764	6,517 8,810	76.2 69.0	8,292 8,523	224 267	3.4 3.3	2,033 3,954	1,648 3,240	35 30	88 226	261 458
45 to 49 years	6,924	5,061	73.1	4,909	152	3.0	1,863	1,553	24	89	197
50 to 54 years		3,746	64.2	3,814	134	3.6	2,091	1,888	6	137	260
	5,840	4,968	44.1	4,810	178	3.6	6,328	4,406	11	323	1,589
55 to 59 years			54.1	2,911	115	3.8	2,565	1,906	6	159	494
60 to 84 years	5,840 11,316 5,590	3,025	34.3	1,899	63	3.2	3,763	2,500	4	164	1,095
	5,840 11,316 5,590 5,726	1,962				3.2	15,663	8,709	6	694	6,254
65 to 69 years	5,840 11,316 5,590 5,726 17,065	1,962 1,402	8.2	1,357	45					102)	7 797
70 to 74 years75 years and over	5,840 11,316 5,590 5,726	1,962	8.2 15.7 8.5		45 31 9	3.6 2.4	4,617 4,037	2,749 2,352	4	102 117	1,782 1,567

A-4. Employment status of the civilian noninstitutional population by age, sex, and race—Continued

ļ					July '	1000					
			Civi	ian labor force	•			Not	in labor for	rce	
}	Civilian		<u> </u>	T	Unemp	oloved					
Age, sex, and race	noninsti- tutional population	Total	Percent of population	Employed	Number	Percent of labor force	Total	Keeping house	Going to school	Unable to work	Other reason
WHITE											
e warm and own	159.400	108,113	67.8	103,215	4,898	4.5	51,287	23,897	1,516	2,618	23,25
6 years and over 16 to 19 years	11,539	8,322	72.1	7,330	992	11.9	3,217	437	590	2,010	23,25
16 to 17 years	5,466	3,426	62.7	2,924	502	14.6	2,040	159	326	6	1,54
18 to 19 years	8,073	4,896	80.6	4,406	490	10.0	1,177	278	264	22	61
0 to 24 years	14,843	12,682	85.4	11,813	869	6.9	2,161	1,064	451	44	60
5 to 54 years	88,097	73,527	63.5	70,859	2,669	3.6	14,570	10,439	445 287	975 228	2,7
25 to 34 years	35,973 17,695	30,349 14,900	84.4 84.2	29,021 14,225	1,328 874	4.4 4.5	5,824 2,796	4,241 2,031	207	109	4
30 to 34 years	18,278	15,449	84.5	14,795	654	4.2	2,829	2,210	81	117	4
35 to 44 years	30,801	26,094	84.7	25,213	681	3.4	4,707	3,321	118	371	8
35 to 39 years	16,403	13,841	84.4	13,349	492	5.7	2,562	1,843	68	184	4
40 to 44 years	14,398	12,253	85.1	11,864	389	3.2	2,144	1,506	48	207	4
45 to 54 years	21,324	17,085	80.1	16,624	460	2.7	4,239	2,878	43	378	9
45 to 49 years	11,592 9,731	9,815 7,489	82.9 76.8	9,362 7,262	253 208	2.6 3.4	1,977 2,262	1,361 1,556	35 8	170 208	4
50 to 54 years5 to 84 years	18,724	10,504	76.6 56.1	10,189	315	3.4	8,220	3,682	22	597	3,7
55 to 59 years	9,245	8,212	67.2	8,028	184	3.0	3,032	1,681	13	309	1,0
60 to 84 years	9,480	4,292	45.3	4,160	132	3.1	5,186	2,201	9	289	2,€
years and over	28,197	3,077	11.7	3,024	53	1.7	23,120	8,074	7	973	14,0
65 to 89 years	8,908	1,847	20.7	1,805	41	2.2	7,061	2,488	4	214	4,3
70 to 74 years	7,007	784	11.2 4.3	777 441	7 5	.9	6,222	2,192	2	199	3,8
75 years and over	10,282	446	4.3	441	5	1.1	9,837	3,396	'	561	5,8
Men											
years and over	76,507	60,350	78.9	57,909	2,441	4.0	18,157	384	703	1,463	13,8
6 to 19 years	5,822	4,426	76.1	3,928	502	11.3	1,394	24	262	14	1,0
16 to 17 years	2,796	1,858	66.4	1,590	268	14.4	939	13	150	8	7
18 to 19 years	3,026	2,570	84.9	2,336	234	9.1	456	12	112	8	3
0 to 24 years	7,264 43,622	6,685 41,274	92.0 94.6	6,239 39,966	1,309	6.7 3.2	579 2.348	16 145	220 208	31 654	1,3
25 to 34 years	17,920	17,184	95.8	16,523	842	3.7	756	47	145	169	3
25 to 29 years	8,784	8,341	95.0	8,028	315	3.8	443	23	113	78	2
30 to 34 years	9,138	8,823	96.8	8,496	327	3.7	313	24	33	93	1
35 to 44 years	15,251	14,511	95.1	14,078	434	3.0	740	54	48	253	3
35 to 39 years	8,151	7,781	95.5	7,552	229	2.9	370	32	26	116	1
40 to 44 years	7,100	6,730	94.8	6,525	205	3.0	369	22	22	137	1 5
45 to 54 years	10,451 5,697	9,599 5,307	91.8	9,366 5,178	234 129	2.4	852 390	45 19	15 12	232 107	2
50 to 54 years	4,754	4,292	90.3	4,187	105	2.4	462	26	3	125	1 8
5 to 64 years	8,891	6,105	68.7	5,948	157	2.8	2,787	64	11	362	2,3
55 to 59 years	4,441	3,586	80.7	3,497	89	2.5	855	22	6	167	∫ €
60 to 64 years	4,451	2,519	56.8	2,451	68	2.7	1,932	43	5	175	1,7
5 years and over	10,906	1,857	17.0	1,830	27	1.5	9,049	134	1	402 136	8,
65 to 89 years70 to 74 years	4,070 3,043	1,085 471	26.7 15.5	1,063 467	22	2.0 .8	2,985 2,572	29 37	_ 1	98	2,8
75 years and over	3,793	302	6.0	300	2	.5	3,492	66	- '	168	3,2
Women											
years and over	82,894	47,763	57.6	45,306	2,457	5.1	35,131	23,512	813	1,155	9,6
16 to 19 years	5,718	3,894	68.1	3,404	490	12.6	1,823	412	328	14	1,0
16 to 17 years	2,670	1,568	58.7	1,335	234	14.9	1,102	146	176	-	7
18 to 19 years	3,047	2,326	76.3	2,069	256	11.0	721	266	151	14	3
0 to 24 years	7,578	5,997	79.1	5,575	423	7.0	1,581	1,048	231	14	1 .3
25 to 54 years25 to 34 years	44,475 18,053	32,253 13,185	72.5 73.0	30,893 12,499	1,360 686	4.2 5.2	12,222 4,869	10,294 4,194	237 142	321 57	1,3
25 to 29 years	8,911	6,559	73.8	6,199	359	5.5	2,353	2,008	94	33	
30 to 34 years	9,142	6,828	72.5	8,299	327	4.9	2,516	2,186	48	24	1
35 to 44 years	15,550	11,583	74.5	11,138	447	3.9	3,987	3,267	68	118	} ;
35 to 39 years	8,252	6,060	73.4	5,797	263	4.3	2,192	1,809	42	48	8
40 to 44 years	7,298	5,523	75.7	5,339	184	3.3	1,775	1,458	26	70	3
45 to 49 years	10,872	7,485	68.8	7,259	227	3.0	3,367	2,833	26	148	3
45 to 49 years	5,895 4,977	4,308	73.1 63.8	4,184	124 103	2.9	1,567	1,340	23	63 83	
50 to 54 years55 to 64 years	4,977 9,833	3,177 4,400	63.8 44.7	3,075 4,241	159	3.2 3.6	1,800 5,433	1,492 3,818	11	236	1,3
55 to 59 years	4,804	2,827	54.7	2,531	95	3.6	2,177	1,859	7	122	':
60 to 64 years	5,029	1,773	35.3	1,709	63	3.8	3,258	2,159	4	114	}
55 years and over	15,291	1,219	8.0	1,194	25	2.1	14,071	7,940	6	571	5,5
65 to 69 years	4,838	762	15.7	742	19	2.5	4,076	2,457	4	78	1,5
70 to 74 years	3,964	313	7.9	310	3	1.0	3,850	2,155	1	101	1,3
75 years and over	6,489	144	2.2	141	3	1.9	6,345	3,328	1	393	2,8

A-4. Employment status of the civilian noninstitutional population by age, sex, and race—Continued

					July	1989					
			Civi	lian labor force	<u> </u>			Not	in labor fo	rce	
Age, sex, and race	Civilian				Unem	oloyed					
ngo, son, and two	noninsti- tutional population	Total	Percent of population	Employed	Number	Percent of labor force	Total	Keeping house	Going to school	Unable to work	Other reasons
BLACK											-
Curan and sum	04 000	40.070		10.004	4.644		7.000	0.700	415	770	2140
6 years and over 16 to 19 years	21,038 2,175	13,978 1,291	66.4 59.4	12,364 913	1,614 378	11.5 29.3	7,060 884	2,720 134	415 214	779 13	3,146 523
16 to 17 years	1,088	564	51.9	393	171	30.3	524	55	122	6	341
18 to 19 years	1,088	727	66.9	520	207	28.5	360	79	92	7	183
20 to 24 years	2,480	1,879	75.8	1,534	345	18.4	600	245	111	22	222
25 to 54 years	11,803	9,506	80.5	8,695	811	8.5	2,297	1,223	90	339	645
25 to 34 years	5,315	4,321	81.3	3,838	483	11.2	994	573	55	71	295
25 to 29 years	2,677	2,163	80.8	1,885	279	12.9	514	285	30	30	168
30 to 34 years	2,638	2,157	81.8	1,954	204	9.5	481	289	25	41	126
35 to 44 years	3,898	3,238	83.1	3,015	223	6.9	660	340	31	99	190
35 to 39 years	2,200	1,784	81.1	1,830	154	8.6	418	212	24	57	125
40 to 44 years	1,697	1,454	85.7 75.2	1,385	70 105	4.8 5.4	244 643	128 310	7	43 169	185
45 to 49 years	2,590 1,379	1,947 1,069	75.2 77.5	1,642 1,002	105 67	6.3	310	161	1	169 83	160 84
45 to 49 years50 to 54 years	1,379	878	72.5	839	38	4.3	334	148	3	106	76
55 to 64 years	2,125	982	46.2	932	50	5.1	1,143	476	3	181	485
55 to 59 years	1,103	651	59.0	615	36	5.5	452	192		94	166
60 to 64 years	1,021	331	32.4	317	14	4.2	691	285	=	67	319
35 years and over	2,456	320	13.0	289	30	9.4	2,137	642	=	224	1,271
65 to 69 years	903	168	18.6	147	20	11.9	734	233	-	63	438
70 years and over	1,554	152	9.8	142	10	6.6	1,402	408		160	833
Men								i			
years and over	9,448	6,973	73.8	8,220	753	10.8	2,474	112	173	411	1,778
16 to 19 years	1,074	687	64.0	512	175	25.5	387	7	109	6	265
16 to 17 years	548	298	54.4	207	91	30.6	250	3	65	2	181
18 to 19 years	527	389	73.9	305	64	21.6	137	4	44	5	85
20 to 24 years	1,130	937	82.9	770	167	17.8	193	16	32	14	131
25 to 54 years	5,294	4,655	87.9	4,294	361	7.7	640	46	32	195	366
25 to 34 years	2,408	2,162	89.8	1,961	201	9.3	245	20	14	53	158
25 to 29 years	1,212	1,085	69.5	963	122	11.3	127	8	6	27	86
30 to 34 years	1,196	1,077	90.1	998	79	7.3	119	13	8	26	72
35 to 44 years	1,738 982	1,557 864	89.6 88.0	1,453 794	104 70	6.7 8.1	181 116	12 6	14 9	51 28	104 76
35 to 39 years	756	693	91.7	659	35	5.0	63	6	5	24	28
45 to 54 years	1,148	935	81.4	880	55 55	5.9	213	14	4	91	104
45 to 49 years	613	508	82.9	466	42	8.2	105	7	ī	39	57
50 to 54 years	535	427	79.7	413	13	3.1	109	6	3	52	47
55 to 64 years	960	535	55.8	498	37	7.0	425	24	-	94	306
55 to 59 years	500	347	69.4	324	23	6.7	153	9	-	57	87
60 to 64 years	460	188	41.0	174	14	7.6	271	15	-	37	220
35 years and over	990	160	16.2	147	13	8.3	830	19	=	102	710
65 to 69 years	395	85	21.6	76	9	10.8	309	8	-	40	261
70 years and over	598	75	12.5	71	4	(1)	521	10		62	449
Women						ĺ		1			
3 years and over	11,590	7,005	60.4	6,144	861	12.3	4,586	2,609	241	367	1,368
16 to 19 years	1,101	604	54.9	401	203	33.6	497	127	105	7	258
16 to 17 years	540	266	49.3	186	79	29.9	274	52	57	4	160
18 to 19 years	561	338	60.3	215	123	36.5	223	75	48	2	98
20 to 24 years	1,350	942	69.6	764	178	18.9	407	229	79	8	91
25 to 54 years	6,509	4,851	74.5	4,401	450	9.3	1,657	1,177	58	144	279
25 to 34 years	2,907	2,159	74.2	1,877	282	13.0	749	553	41	18	137
25 to 29 years	1,465	1,078	73.6 74.9	922 956	157	14.5 11.6	387 362	277 276	24 17	3	82 54
30 to 34 years	1,442 2,160	1,080 1,881	74.9 77.8	1,562	125 119	7.1	362 479	328	17	15 48	54 86
35 to 44 years	1,218	920	77.8 75.5	836	84	9.1	298	206	15	29	49
40 to 44 years	941	761	80.8	726	35	4.6	181	122	2	19	37
45 to 54 years	1,442	1,012	70.2	962	50	4.9	430	296	_ •	78	56
45 to 49 years	766	581	73.2	536	25	4.4	205	154	-	24	27
50 to 54 years	676	451	66.7	426	25	5.6	225	142	_	54	29
55 to 64 years	1,165	447	38.4	434	13	2.8	718	452	_	87	179
55 to 59 years	604	305	50.5	292	13	4.2	299	182	=	37	80
60 to 64 years	561	142	25.3	142	-		419	270	-	50	99
65 years and over	1,466	159	10.9	143	17	10.6	1,306	623	1	122	561
65 to 69 years	508	83	16.3	71	11	13.7	425	225		23	17.7
70 years and over	958	77	8.0	71	6	(r)	881	398		98	384

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

A-5. Employment status of the black-and-other civilian noninstitutional population by age and sex

	***				July 1989				
				(Civilian labor force				
Age and sex	Civilian				Employed		Unem	ployed	Not in
	noninsti- tutional population	Total	Percent of population	Total	Agriculture	Nonagri- cultural industries	Number	Percent of labor force	labor force
TOTAL.									
8 years and over	27.082	18,125	66.9	16,287	211	16,076	1,838	10.1	8,95
16 to 19 years	2,658	1,553	58.4	1,135	27	1,109	418	26.9	1,104
16 to 17 years	1,348	689	51,1	485	14	471	204	29.6	659
18 to 19 years	1,310	865	66.0	650	13	637	214	24.8	44
20 to 24 years	3,161	2,399	75.9	1,995	16	1,979	404	16.8	762
25 to 54 years	15,572	12,498	80.3	11,574	129	11,444	924	7.4	3,07
25 to 34 years	6,945	5,593	80.5	5,050	52	4,998	543	9.7	1,35
25 to 29 years	3,474	2,768	79.7	2,457	29	2,429	311	11.2	70
30 to 34 years	3,471	1,529	44.0	2,593	23	2,568	232	15.2	64
35 to 44 years	5,184	4,273	82.4	4,018	48	3,971	254	6.0	91
35 to 39 years	2,946	2,374	80.6	2,204	22	2,183	170	7.2	57
40 to 44 years	2,238	1,899	64.9	1,814	26 20	1,768	85	4.5	33
45 to 49 years	3,444	2,632	76.4 79.0	2,506 1,405	29 8	2,477 1,397	126 74	4.8 5.0	81 39
45 to 49 years	1,871 1,573	1,479 1,153	79.0 73.3	1,101	21	1,397	52	4.5	42
55 to 64 years	2,669	1,193	73.3 48.2	1,236	19	1,217	60	4.6	1,39
55 to 59 years	1,426	854	59.9	810	13	797	44	5.2	57
60 to 84 years	1,263	441	35.0	426	6	420	15	3.5	82
35 years and over	3,002	380	12.7	346	20	326	33	8.8	2,62
65 to 89 years	1,122	201	17.9	181	11	169	20	10.0	92
70 to 74 years	779	134	17.2	124	9	115	10	7.5	84
75 years and over	1,101	45	4.1	42	-	42	3	l o	1,05
Men						l		''	
			=						
years and over	12,309	9,223	74.9	8,356	171	8,185	887	9.4	3,08
16 to 19 years	1,315	821	62.4	628	26	602	193	23.5	49
16 to 17 years	682 632	360 460	52.8 72.8	254 374	14 13	241 381	106 86	29.4 18.8	32
18 to 19 years	1,452	1,192	72.6 82.1	1,002	12	990	190	15.9	17 26
20 to 24 years	7,108	8,306	86.7	5,875	102	5,773	431	8.8	80
25 to 34 years	3,236	2,903	89.7	2,665	44	2,621	238	8.2	33
25 to 29 years	1,622	1,447	89.2	1,304	26	1,278	143	9.9	17
30 to 34 years	1,614	1,455	90.2	1,361	18	1,342	95	6.5	15
35 to 44 years	2,320	2,096	90.3	1,969	39	1,930	127	6.0	22
35 to 39 years	1,334	1,190	69.2	1,108	17	1,092	82	8,9	14
40 to 44 years	987	908	91.8	861	22	839	45	5.0	8
45 to 54 years	1,552	1,307	64.2	1,241	19	1,222	86	5.1	24
45 to 49 years	842	726	86.2	680	7	673	46	6.3	11
50 to 54 years	710	582	81.9	562	12	549	20	3.4	12
55 to 64 years	1,206	708	58.7	666	12	656	41	5.7	49
55 to 59 years	640	456	71.3	431	6	425	25	5.5	16
60 to 64 years	566 1,228	252 197	44.5 16.0	236 164	6 19	231 164	16 13	6.2 8.8	31 1,03
65 to 69 years	486	108	21.9	97	11	86	9	8.8	36
70 to 74 years	330	71	21.5	67	9	58	4	(')	25
75 years and over	412	20	4.9	20	-	20	-	%	39
Women									
3 years and over	14,773	6,902	60.3	7,931	39	7,691	971	10.9	5,87
16 to 19 years	1,343	732	54.5	507	-	507	225	30.8	61
16 to 17 years	666	328	49.3	231	-	231	98	29.7	33
18 to 19 years	678	404	59.7	277	-	276	128	31.6	27
20 to 24 years	1,709	1,207	70.6	993	4	989	214	17.7	50
25 to 54 years	8,464	6,192	73.2	5,699	27	5,671	493	8.0	2,27
25 to 34 years	3,709	2,690	72.5	2,385	8	2,377	305	11.3	1,0
25 to 29 years	1,852	1,321	71.3	1,153	3	1,151	166	12.7	5
30 to 34 years	1,657	1,369	73.7	1,232	5	1,226	137	10.0	4
35 to 44 years	2,863	2,177	76.0	2,049	9	2,040	128	5.9	6
35 to 39 years	1,612	1,184	73.4 79.4	1,096	5	1,091	88	7.4	4.
40 to 44 years	1,251	993	79.4 70.0	953	4 10	949	40	4.0	25
45 to 49 years	1,892 1,029	1,324 753	70.0 73.2	1,264 725	10	1,254 724	60	4.5	_
45 to 49 years	1,029	703 571	73.2 86.2	539	9	724 530	28 32	3.7 5.5	2
50 to 54 years	1,483	588	39.8	569	7	530 561	19	3.2	8
55 to 64 years	786	398	50.7	379	7	372	19	4.9	3
60 to 64 years	697	189	27.2	190	_'	190	19	4.8	56
35 years and over	1,774	183	10.3	163	1	162	20	10.9	1,5
65 to 69 years	636	95	15.0	84	_ '	63	11	11.8	1,54 54
		1 17 1			_		8		
70 to 74 years	449	i 83 i	14.0	57		l 57		(')	38

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

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

Employment status and	Тс	otal		years and ver) years and er	Both sexes	-
race	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989
TOTAL								
Civilian noninstitutional population	184,729	186,483	80,608	81,679	89,588	90,607	14,533	14,196
Civilian labor force	123,888	126,238	63,320	64,325	50,426	52,038	10,143	9,875
Percent of population		67.7	78.6	78.8	56.3	57.4	69.8	69.6
Employed	117,066	119,502	60,622	61,710	47,783	49,326	8.661	8,465
Agriculture	3,541	3,713	2,454	2,546	650	743	438	425
Nonagricultural industries		115,789	58,168	59,165	47,133	48.583	8,223	8,041
Unemployed		6,736	2,697	2,614	2,643	2,712	1,482	1,410
Unemployment rate		5.3	4.3	4.1	5.2	5.2	14.6	14.3
Not in labor force		60,245	17,289	17,354	39,162	38,569	4,391	4,321
White								
Civilian noninstitutional population	158,279	159,400	69,928	70,684	76,489	77,177	11.861	11,539
Civilian labor force		108,113	55,196	55,922	42,568	43,869	8,617	8,322
Percent of population		67.8	78.9	79.1	55.7	56.8	72.6	72.1
Employed		103,215	53,182	53,983	40,671	41,902	7,579	7,330
Agriculture		3.502	2,272	2,401	621	704	421	398
Nonagricultural industries		99,713	50,910	51,582	40,050	41,199	7,158	6,932
Unemployed		4,898	2,014	1,939	1,897	1.967	1.038	992
Unemployment rate		4.5	3.6	3.5	4.5	4.5	12.0	11.9
Not in labor force		51,287	14,732	14,763	33,922	33,308	3,244	3,217
Black								
Civilian noninstitutional population	20,715	21,038	8,227	8.374	10,304	10,489	2,184	2,175
Civilian labor force		13,978	6,161	6,286	6,284	6,400	1,254	1,291
Percent of population	,	66.4	74.9	75.1	61.0	61.0	57.4	59.4
Employed		12.364	5,569	5,708	5,616	5,742	846	913
Agriculture		152	130	106	22	27	13	19
Nonagricultural industries		12.212	5,439	5,603	5,594	5.715	833	895
Unemployed		1,614	592	578	868	658	409	378
Unemployment rate		11.5	9.8	9.2	10.6	10.3	32.6	29.3
Not in labor force	7,015	7,060	2,085	2,088	4,020	4,089	929	884

A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin

(Numbers in thousands)

					July 1	1989				
					Ch	rilian labor f	orce			
Employment status, years of school	Civilian				Employed	l		Unem	ployed	
completed, race, and Hispanic origin	noninsti- tutional population	Total	Percent of population	Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
TOTAL ENROLLED										
Total, 16 to 24 years	3.948	2,479	62.8	2,193	845	1,348	286	92	194	11.5
16 to 19 years	2,054 1,893	1,187 1,292	57.6 68.2	977 1,218	295 550	682 666	210 76	55 37	155 40	17.7 5.9
20 10 24 years	1,083	1,202	00.2	1,210	330	000	/0	3,	**	3.5
High school	1,166	578	49.4	436	111	325	140	47	93	24.3
College	2,781 1,761	1,903 1,062	68.4 60.3	1,757 968	734 351	1,023 618	146 93	44 27	102 67	7.7 8.8
Part-time students	1,021	842	82.4	789	383	405	53	18	35	6.3
Men, 16 to 24 years	1,951	1,271	65.1	1,138	506	632	133	38	95	10.5
16 to 19 years	1,031	634	61.5	525	189	336	109	31	78	17.2
20 to 24 years	920	637	69.2	613	316	296	24	7	17	3.8
High school	641	354	55.2	265	81	185	89	25	63	25.0
College	1,310	917	70.0	873	425	448	44	13	32	4.8
Full-time students	829 480	503 414	60.7 88.1	479 394	207 218	271 176	25 20	7 8	18	4.9 4.7
				1				-		}
Women, 16 to 24 years	1,997	1,208	60.5	1,055	339	716	153	54	99	12.6
16 to 19 years20 to 24 years	1,023 973	553 655	54.0 67.3	452 603	106 233	346 370	101 52	24 30	77 22	18.2 7.9
High school	525	222	42.3	171	30	140	51	22	29	23.1
College	1,472	986	67.0	885	309	576	102	32	70	10.3
Full-time students	931	558	60.0	490	143	348	68	20	49	12.3
Part-time students	541	428	79.2	395	166	229	33	12	21	7.7
Total, 16 to 24 years	3,094	2,041	66.0	1,841	745	1,096	201	50	150	9.8
18 to 19 years	1,562	959	61.4	812	266	546	147	24	123	15.3
20 to 24 years	1,532	1,082	70.8	1,028	479	550	54	26	27	5.0
Men	1,546	1,058	66.5	968	440	528	90	17	74	8.5
Women	1,546	983	63,5	873	305	567	110	34	77	11.2
High school	636	430	51.4	339	93	246	91	21	71	21.3
College	2,258	1,611	71.4	1,502	652	850	109 69	30 18	80 50	6.8
Part-time students	1,396 862	890 721	63.7 83.7	821 681	326 326	496 354	41	11	30	7.7 5.6
Black				i	į					
Total, 16 to 24 years	594	297	50.0	221	67	154	76	37	39	25.5
16 to 19 years	379	177	46.7	115	19	96	62	30	32	35.1
20 to 24 years	214	120	55.9	106	48	58	14	7	7	11.3
Women	263 331	136 161	51.7 48.7	98 123	39 29	59 95	38 38	17 19	21 18	28.0 23.4
	007	400	45.0]			40	0.5		40.0
High school	267 326	120 177	45.0 54.2	72 149	11 56	61 94	48 27	25 11	23 16	40.2 15.5
Full-time students	209	88	42.0	69	10	59	19	8	11	21.7
Part-time students	117	89	75.9	80	45	35	8	3	5	9.4
Hispanic origin									}	
Total, 16 to 24 years	372	200	53.8	147	59	88	53	13	40	26.5
16 to 19 years20 to 24 years	235 137	97 103	41.4 75.0	51 97	7 52	43 45	47 6	11 2	35 5	48.1 6.1
Men	190	120	63.1	86	31	55	34	7	27	28.1
Women	183	81	44.2	61	28	33	19	6	14	24.1
High school	175	55	31.4	18	3	14	37	7	30	(3)
College	197	145	73.7	130	56	74	16	6	10	10.9
Full-time students Part-time students	98 100	60 86	61.1 85.9	55 75	19 37	36 38	5 11	4 2	1 8	12.5
		L						L		

See footnotes at end of table.

A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin—Continued

(Numbers in thousands)

<u> </u>	T				lash.	1000				
		Ι			July '	vilian labor f				
Employment status, years of school	Civilian				Employed	VIIIAN IADOFT	Orce	Unem	ployed	
completed, race, and Hispanic origin	noninsti- tutional population	Total	Percent of population	Total	Full time ¹	Part time ¹	Total	Looking for full-time work	Looking for part-time work	Percent of labor force
TOTAL NOT ENROLLED	1									
Total, 16 to 24 years	28,252	22,477	79.6	20,080	14,868	5,212	2,397	1,903	494	10.7
16 to 19 years	12,142	6,688	71.6	7,488	4,039	3,449	1,200	813	367	13.8
20 to 24 years	16,110	13,769	85.6	12,592	10,829	1,763	1,197	1,090	107	6.7
Less than 4 years of high school	9.332	6,012	64.4	4,979	2,698	2.281	1.032	724	309	17.2
4 years of high school		9,274	84.0	6,288	6,570	1,718	965	673	112	10.6
1 to 3 years of college		5,398	90.4	5,111	4,069	1,041	287	226	61	5.3
4 years of college or more	1,910	1,794	93.9	1,702	1,531	172	92	80	12	5.1
Men, 16 to 24 years	13,903	11,854	85.3	10,657	8,367	2,290	1,197	994	203	10.1
16 to 19 years	6,106	4,615	75.6	4,029	2,421	1,608	585	409	176	12.7
20 to 24 years	7,797	7,240	92.9	6,628	5,946	681	612	585	27	8.5
Less than 4 years of high school	4,897	3,569	73.3	3,036	1,894	1,142	554	396	156	15,4
4 years of high school	5,339	4,839	90.7	4,353	3,724	629	487	454	32	10.1
1 to 3 years of college		2,633	92.9	2,515	2,061	453	118	106	12	4.5
4 years of college or more	833	793	95.2	754	689	65	39	36	3	4.9
Women, 16 to 24 years	14,350	10,623	74.0	9,423	6,501	2,922	1,199	909	290	11.3
16 to 19 years		4,073	67.5	3,459	1,616	1,841	615	404	211	15.1
20 to 24 years	6,314	6,549	78.6	5,965	4,883	1,082	585	505	80	8.9
Less than 4 years of high school	4,435	2,422	54.6	1,944	804	1,139	479	326	153	19.8
4 years of high school		4,434	77.8	3,936	2,847	1,089	499	419	60	11.2
1 to 3 years of college	3,140	2,765	88.1	2,596	2,008	588	169	120	49	6.1
4 years of college or more	1,077	1,001	92.9	948	842	106	53	44	8	5.3
White	23,287	18,963	81.4	17,303	40.000	4.00	4 000	4.005	365	
Total, 16 to 24 years		7,363	73.8	6,518	12,900 3,587	4,403 2,931	1,660 845	1,295 560	285	8.8 11.5
20 to 24 years		11,600	87.2	10,785	9,313	1,472	815	735	80	7.0
Men	11,541	10,055	87.1	9,197	7,308	1,889	858	700	158	8.5
Women		8,908	75.8	8,106	5,592	2,514	802	595	207	9.0
Less than 4 years of high school	7.529	5.017	66.6	4,282	2,357	1,925	735	506	230	14.7
4 years of high school		7,789	85.7	7,156	5,723	1,432	834	561	73	8.1
1 to 3 years of college	5,017	4,585	91.4	4,367	3,472	895	218	165	52	4,7
4 years of college or more	1,657	1,572	94.8	1,498	1,347	151	73	63	10	4.7
Black										
Total, 16 to 24 years		2,874	70.8	2,226	1,559	667	647	536	111	22.5
16 to 19 years		1,114 1,759	62.0 77.7	798 1,428	379 1,180	419 248	316 332	225 311	91 20	28.4 18.8
Men	1,941	1,468	76.7	1,164	856	328	304	284	40	20.4
Women		1,468	65.4	1,164	703	328	304	284 272	72	24.8
Lace than 4 years of high school	1 405	015	E4 E	550	200	200	250	100	20	24.4
Less than 4 years of high school4 years of high school		815 1,279	54.5 76.5	559 954	260 711	299 243	256 325	188 292	68 34	31.4 25.4
1 to 3 years of college	733	632	86.1	578	468	109	54	46	8	8.5
4 years of college or more		147	91.9	135	120	15	12	10	1	8.1
Hispanic origin		_	_							
Total, 16 to 24 years		2,187	73.5	1,868	1,507	381	319	250	69	14.6
16 to 19 years		735 1,453	63.5 79.8	592 1,277	381 1,126	210 151	143 178	94 157	49 19	19.4 12.1
		•					İ			
Women		1,276 912	84.7 62.0	1,120 749	953 555	167 194	156 163	124 127	32 36	12.2 17.9
Less than 4 years of high school	1,548	988	63.8	819	638	182	168	125	44	17.1
4 years of high school		842	81.4	734	617	117	108	67	20	12.6
1 to 3 years of college	325	268	88.5	255	202	54	33	28	5	11.3
4 years of college or more	71	70	(²)	60	51	8	10	10	1	(3)

¹ Employed persons with a job but not at work and persons at work part time are

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

distributed according to whether they usually work full or part time.

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

NOTE: In the summer months, the educational attainment levels of youth not enrolled in school are increased by the temporary movement of high school and

A-8. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

	Civi noninsti popui		Civilian labor force									
Veteran status			Total		Employed			Unemp	oloyed			
and age	July 1988	July 1989		July 1989	July 1988	July 1989	Number		Percent of labor force			
							July 1988	July 1989	July 1988	July 1989		
VIETNAM-ERA VETERANS												
Total, 30 years and over	7,905 5,910 685 2,142 3,083 1,995	7,927 5,489 472 1,731 3,286 2,438	7,281 5,653 646 2,034 2,973 1,628	7,257 5,232 447 1,621 3,164 2,025	7,044 5,455 621 1,957 2,877 1,589	6,989 5,034 418 1,551 3,065 1,955	237 198 25 77 96 39	268 198 29 70 99 70	3.3 3.5 3.9 3.8 3.2 2.4	3.7 3.8 6.5 4.3 3.1 3.5		
NONVETERANS												
Total, 30 to 44 years	20,450 9,159 6,810 4,481	21,512 9,384 7,451 4,677	19,358 8,735 6,451 4,172	20,404 8,981 7,065 4,358	18,630 8,385 6,210 4,035	19,684 8,635 6,841 4,208	728 350 241 137	720 346 224 150	3.8 4.0 3.7 3.3	3.5 3.9 3.2 3.4		

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

are limited to those 30 to 44 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

A-9. Employed and unemployed full- and part-time workers by sex, age, and race

(In thousands)

			·	Ju	uly 1989	———т		
			Empl	oyed			Unem	ployed
Cay ago and ross		Full time			Part time			
Sex, age, and race	Total	Full-time schedules ¹	Part time for economic reasons, usually work full time	Total	Voluntary ¹	Part time for economic reasons, usually work part time	Looking for full-time work	Looking for part-time work
TOTAL								
Total, 16 years and over	100,660	98,816	1,844	18,842	15,186	3,656	5,590	1,146
16 to 19 years	4,335	4,104	231	4,130	2,982	1,148	868	541
16 to 17 years		1,121	56	2,233	1,683	550	339	366
18 to 19 years		2,982	175	1,899	1,300	599	529	175
20 years and over	96,325	94,712	1,613	14,711	12,204	2,507	4,722	604
20 to 24 years	11,379	11,114	265	2,429	1,836	593	1,126	147
25 years and over	84,946	83,598	1,348	12,282	10,367	1,915	3,596	457
25 to 54 years	73,780	72,599	1,181	8,652	7,073	1,579	3,247	345
55 years and over	11,186	10,999	167	3,629	3,293	336	349	112
Men, 16 years and over		59,146	1,064	6,055	4,436	1,619	2,915	394
16 to 19 years		2,458	153	1,944	1,369	575	440	254
20 years and over		56,688	911	4,111	3,067	1,044	2,474	140
20 to 24 years		6,109	154	977	706	271	592	45
25 years and over		50,579	757	3,134	2,361	773	1,883	95
25 to 54 years		43,538	663	1,640	1,009	631	1,674	65
55 years and over	7,135	7,041	94	1,495	1,353	142	209	30
Women, 16 years and over	1	39,670	780	12,787	10,750	2,037	2,676	752
16 to 19 years		1,646	78	2,187	1,614	573	428	287
20 years and over		38,024	702	10,600	9,137	1,463	2,248	465
20 to 24 years		5,005	111	1,452	1,130	322	535	102
25 years and over		33,019	591	9,149	8,007	1,142	1,713	382
25 to 54 years55 years and over		29,061 3,958	518 73	7,012 2,136	6,065 1,942	947 194	1,572 141	280 82
White	4,001	0,550	"	2,100	1,542		171	02
Men, 16 years and over	52,844	51,986	858	5,065	3.805	1,260	2,147	294
16 to 19 years	1	2,199	113	1,614	1,150	464	304	198
20 years and over	,	49,787	745	3,451	2,655	796	1,843	96
20 to 24 years		5,310	125	804	599	205	412	34
25 years and over		44,477	619	2,646	2,055	591	1,430	62
25 to 54 years	,	38,147	539	1,281	816	465	1,269	40
55 years and over		6,330	80	1,367	1,240	127	161	22
Women, 16 years and over	34,050	33,409	641	11,256	9,629	1,627	1,895	561
16 to 19 years	1,541	1,462	79	1,863	1,396	467	280	210
20 years and over		31,947	563	9,393	8,233	1,160	1,616	351
20 to 24 years		4,265	91	1,219	958	261	349	74
25 years and over		27,682	472	8,175	7,276	899	1,267	278
25 to 54 years	24,602	24,202	400	6,291	5,550	741	1,143	217
55 years and over	3,551	3,479	72	1,884	1,726	158	124	61
Black								
Men, 16 years and over		5,299	180	741	469	272	669	84
16 to 19 years		210	37	265	184	81	125	50
20 years and over		5,089	144	475	285	190	545	34
20 to 24 years		620	27	122	68	54	157	10
25 years and over		4,468	117	354	218	136	388	23
25 to 54 years55 years and over		3,939 529	104	251 103	128 90	123 13	344 44	17 6
Women, 16 years and over	4,954	4,838	116	1,190	862	328	694	167
16 to 19 years		151	-	250	169	81	130	73
20 years and over		4,687	116	939	692	247	564	94
20 to 24 years	1	563	18	184	131	53	161	17
25 years and over	1	4,124	99	757	563	194	403	77
25 to 54 years		3,760	96	546	381	165	391	59
55 years and over		364	3	211	182	29	12	18

¹ Employed persons with a job but not at work are distributed according

to whether they usually work full or part time.

A-10. Employment status of persons in families by family relationship

(Numbers in thousands)

					July 198	9				
		Civilia	n labor force	€			Not	in labor f	orce	
Family relationship				Unem	ployed					
	Total	Percent of population	Employed	Number	Percent of labor force	Total	Keeping house	Going to school	Unable to work	Other
Total, 16 years and over ¹	102,112	68.5	96,582	5,530	5.4	46,895	22,252	1,813	2,430	20,400
Husbands	40,354	78.6	39,334	1,020	2.5	10,970	190	129	947	9,704
With employed wife	25,887	92.4	25,279	608	2.3	2,127	83	68	295	1,682
With unemployed wife	1,046	93.6	957	89	8.5	72	-	8	12	52
With wife not in labor force	13,421	60.5	13,098	323	2.4	8,771	108	53	640	7,970
Wives	29,132	56.8	28,014	1,118	3.8	22,192	17,556	212	379	4,045
With employed husband	26,236	66.7	25,279	957	3.6	13,098	11,480	176	143	1,298
With unemployed husband	697	68.3	608	89	12.8	323	287	6	2	29
With husband not in labor force	2,199	20.0	2,127	72	3.3	8,771	5,790	30	234	2,718
Relatives in married-couple families	15,455	75.1	13,919	1,536	9.9	5,111	756	682	338	3,136
16 to 19 years	6,630	71.9	5,826	804	12.1	2,590	194	512	18	1,866
20 to 24 years	5,258	86.6	4,829	429	8.2	815	115	307	35	359
25 years and over	3,567	67.6	3,264	303	8.5	1,706	447	63	285	911
Women who maintain families	6,892	63.8	6,294	598	8.7	3,908	2,564	100	234	1,009
Relatives in families maintained by women	6,130	65.9	5,124	1,006	16.4	3,167	786	388	367	1,625
16 to 19 years	1,881	62.3	1,435	446	23.7	1,138	152	247	22	718
20 to 24 years	1,680	79.3	1,442	238	14.1	439	146	92	21	181
25 years and over	2,569	61.8	2,247	322	12.5	1,590	488	49	324	726
Men who maintain families	2,184	77.7	2,080	104	4.8	626	47	23	91	465
Relatives in families maintained by men	1,967	68.1	1,819	148	7.5	921	353	79	74	415
16 to 19 years	385	67.3	345	40	10.4	188	24	41	-	123
20 to 24 years	550	86.4	511	40	7.2	86	22	21	5	37
25 years and over	1,031	61.4	963	68	6.6	647	307	17	69	255

¹ Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

NOTE: Estimates shown in this table for husbands, wives, and women

who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns used in aggregating the data.

A-11. Unemployed persons by marital status, race, age, and sex

		Me	en			Wor	nen	
Marital status, race, and age	Thousa pers			loyment tes	Thousa pers		Unemploymen rates	
	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989
Total, 16 years and over	3,529	3,308	5.1	4.8	3,294	3,428	6.0	6.0
farried, spouse present	1,192	1,130	2.8	2.7	1,252	1,232	4.3	4.1
vidowed, divorced, or separated	400	396	5.8	5.6	703	715	6.7	6.5
single (never married)	1,937	1,782	9.7	8.8	1,339	1,481	8.8	9.6
White, 16 years and over	2,600	2,441	4.4	4.0	2,348	2,457	5.0	5.1
larried, spouse present	975	898	2.6	2.4	1,024	1,049	3.9	3.9
/idowed, divorced, or separated	296	286	5.2	4.9	504	509	5.9	5.8
ingle (never married)	1,329	1,257	8.0	7.5	820	898	6.7	7.3
Black, 16 years and over	812	753	11.9	10.8	857	861	12.5	12.3
larried, spouse present	162	179	5.1	5.5	181	143	7.4	6.0
/idowed, divorced, or separated	96	101	9.9	10.4	183	191	9.9	9.6
ingle (never married)	554	474	20.5	17.2	492	527	19.1	19.9
Total, 25 years and over	2,065	1,978	3.7	3.5	1,998	2,076	4.6	4.6
larried, spouse present	1,107	1,024	2.8	2.5	1,043	1,030	3.8	3.7
/idowed, divorced, or separated	369	374	5.6	5.5	629	663	6.2	6.2
ingle (never married)	589	580	6.9	6.5	326	382	5.4	6.
White, 25 years and over	1,561	1,493	3.2	3.0	1,471	1,544	4.0	4.1
larried, spouse present	899	821	2.5	2.3	853	882	3.6	3.6
/idowed, divorced, or separated	267	263	4.8	4.6	444	470	5.5	5.5
ingle (never married)	395	409	5.7	5.6	174	193	3.8	4.1
Black, 25 years and over	422	411	8.1	7.7	463	480	8.6	8.8
larried, spouse present	154	162	5.1	5.2	150	122	6.6	5.5
vidowed, divorced, or separated	94	101	9.9	10.6	171	180	9.5	9.3
lingle (never married)	174	148	14.0	11.5	142	177	10.9	13.0

A-12. Unemployed persons by occupation and sex

	Thouse pers				Jnemploy	ment rates	8	
Occupation	То	tal	To	tal	M	en	Wor	men
	July 1988	July 1989	July 1988	July 1 9 89	July 1988	July 1989	July 1988	July 1989
Total, 16 years and over	6,823	6,736	5.5	5.3	5.1	4.8	6.0	6.0
Managerial and professional specialty	677	666	2.3	2.2	1.9	1.5	2.7	3.0
Executive, administrative, and managerial	316	336	2.1	2.2	1.9	1.5	2.5	3.2
Professional specialty	361	330	2.4	2.2	1.9	1.6	2.9	2.8
Technical, sales, and administrative support	1,537	1,556	4.1	4.1	3.4	3.0	4.5	4.6
Technicians and related support	89	79	2.4	2.0	2.0	2.3	2.8	1.7
Sales occupations	626	659	4.3	4.4	2.9	2.7	5.8	6.2
Administrative support, including clerical	822	818	4.3	4.2	5.1	4.1	4.1	4.2
Service occupations	1,173	1,135	7.0	6.5	6.7	6.3	7.1	6.7
Private household	60	59	5.7	5.9	(')	(¹)	5.8	6.1
Protective service	79	76	3.7	3.6	3.5	3.6	4.7	3.7
Service, except private household and protective	1,034	1,001	7.6	7.0	7.9	7.3	7.4	6.9
Precision production, craft, and repair	676	583	4.6	4.0	4.5	3.9	5.4	4.9
Mechanics and repairers	141	108	3.0	2.4	2.9	2.4	4.8	2.7
Construction trades	338	347	5.9	5.9	5.9	5.7	5.9	13.7
Other precision production, craft, and repair	198	128	4.6	3.0	4.3	2.8	5.5	3.8
Operators, fabricators, and laborers	1,445	1,620	7.3	8.1	6.7	7.3	8.9	10.2
Machine operators, assemblers, and inspectors		704	7.2	7.8	6.0	6.1	9.0	10.4
Transportation and material moving occupations		320	5.4	6.0	5.1	5.7	7.8	9.2
Handlers, equipment cleaners, helpers, and laborers	527	597	9.0	10.3	9.0	10.4	8.9	9.7
Construction laborers	124	147	11.4	14.5	11.0	14.5	(')	(')
Other handlers, equipment cleaners, helpers, and laborers	403	450	8.5	9.4	8.5	9.4	8.3	9.6
Farming, forestry, and fishing	255	203	6.0	4.7	5.1	4.1	10.4	7.6
No previous work experience	1,014	930	_		_	_	_	_
16 to 19 years	757	683	-	-	-	-	-	_
20 to 24 years	150	128	-	-	_	-	-	-
25 years and over	107	119	-	-	-	-	-	-

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

A-13. Unemployed persons by industry and sex

	1	ands of sons			Unemploy	ment rate	s	
industry	Тс	tal	To	otal	М	en	Wo	men
	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989
Total, 16 years and over	6,823	6,736	5.5	5.3	5.1	4.8	6.0	6.0
Nonagricultural private wage and salary workers	4,886	4,953	5.2	5.2	5.0	4.7	5.5	5.9
Mining	43	40	5.3	5.3	5.7	4.9	3.0	7.0
Construction		539	8.1	8.1	8.2	8.1	6.5	8.4
Manufacturing		1,096	5.0	4.9	4.5	3.9	6.1	6.8
Durable goods		623	4.9	4.7	4.7	3.8	5.4	7.1
Lumber and wood products		31	9.7	4.2	9.6	4.0	10.7	5.9
Funiture and fixtures		42	4.3	5.9	2.9	3.6	7.6	11.3
Stone, clay, and glass products		30	4.4	4.5	2.9	2.9	9.4	10.5
Primary metal industries		29	4.3	3.3	4.6	3.2	2.2	4.4
Fabricated metal products	73	67	5.4	4.9	6.3	3.6	2.5	8.9
Machinery, except electrical	117	95	4.2	3.5	3.4	2.4	6.9	6.7
Electrical machinery, equipment, and supplies	99	91	4.8	4.4	5.0	3.9	4.5	5.2
Transportation equipment	147	180	5.3	6.5	4.8	5.5	7.1	10.4
Automobiles	91	110	7.1	9.0	8.5	7.7	9.6	13.8
Other transportation equipment	56	70	3.8	4.6	3.3	3.8	5.3	7.9
Professional and photographic equipment	23	19	3.1	2.4	4.7	2.3	.9	2.6
Other durable goods industries		39	4.5	6.7	4.1	6.8	4.6	6.7
Nondurable goods		474	5.2	5.1	4.0	4.0	6.8	6.6
Food and kindred products		138	7.4	7,1	5.6	5.9	10.9	9.2
Textile mill products		47	4.3	6.6	3.7	6.6	4.9	6.5
Apparel and other textile products		99	7.1	7.9	5.1	6.6	7.8	8.3
Paper and allied products	1	23	3.1	2.8	1.4	2.2	7.7	4.7
Printing and publishing		70	4.0	3.6	3.8	2.9	4.2	4.5
Chemicals and allied products		46	2.8	3.2	2.3	2.3	4.1	5.2
Rubber and miscellaneous plastics products		36	5.9	4.5	5.6	3.6	6.6	6.0
Other nondurable goods industries		14	4.7	3.2	3.9	3.4	5.6	2.9
Transportation and public utilities		277	3.6	4.2	3.3	3.9	4.4	4.6
Transportation		216	4.7	5.4	4.1	5.3	6.4	5.9
Communications and other public utilities		61	2.1	2.3	1.9	1.5	2.4	3.6
Wholesale and retail trade		1,453	6.0	6.0	5.3	4.6	6.8	7.4
Wholesale trade		178	3.9	4.0	3.2	3.6	5.7	4.9
Retail trade		1,274	6.5	6.5	6.0	5.2	6.9	7.7
Finance, insurance, and real estate		205	3.2	2.7	2.9	2.5	3.3	2.8
Service industries	.,	1,342	5.1	5.0	5.1	4.7	5.0	5.3
Professional services		521	3.6	3.6	3.2	2.7	3.8	3.9
Other service industries	802	821	6.7	6.8	6.5	6.2	6.9	7.5
Agricultural wage and salary workers		147	8.9	6.9	7.8	6.0	13.6	10.1
Government, self-employed, and unpaid family workers		707	2.7	2.5	2.1	2.3	3.4	2.7
No previous work experience	1,014	930	-	-	-	-	-	-

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

Reason for unemployment	Total unemployed		Me 20 ye and	ears	Women, 20 years and over		Both sexes, 16 to 19 years		White		Black	
	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989
NUMBER OF UNEMPLOYED	7-7											
Total unemployed	6,823	6,736	2,697	2,614	2,643	2,712	1,482	1,410	4,949	4,898	1,669	1,614
Job losers	2,957	2,797	1,727	1,582	1,021	1,063	209	152	2,231	2,090	651	631
On layoff	781	755	440	398	288	324	52	33	653	625	114	101
Other job losers	2,176	2,042	1,287	1,184	733	739	157	119	1,578	1,465	537	529
Job leavers	975	1,064	397	389	393	479	184	196	807	860	145	160
Reentrants	1,880	1,946	487	559	1,059	1,008	334	379	1,284	1,362	532	524
New entrants	1,011	930	86	85	170	162	755	683	626	586	340	299
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	43.3	41.5	64.0	60.5	38.6	39.2	14.0	10.8	45.1	42.7	39.0	39.1
On layoff	11.4	11.2	16.3	15.2	10.9	12.0	3.5	2.3	13.2	12.8	6.8	6.3
Other job losers	31.9	30.3	47.7	45.3	27.7	27.2	10.5	8.5	31.9	29.9	32.2	32.8
Job leavers	14.3	15.8	14.7	14.9	14.9	17.7	12.4	13.9	16.3	17.6	8.7	9.9
Reentrants	27.5	28.9	18.0	21.4	40.1	37.2	22.5	26.9	25.9	27.8	31.9	32.5
New entrants	14.8	13.8	3.2	3.2	6.4	6.0	50.9	48.4	12.7	12.0	20.4	18.5
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE		!										
Job losers	2.4	2.2	2.7	2.4	2.1	2.0	2.0	1.5	2.1	2.0	4.8	4.5
Job leavers	.8	.8	.6	.6	.8	.9	1.8	2.0	.8	.8	1.1	1.1
Reentrants	1.5	1.5	.8	.9	2.1	1.9	3.3	3.8	1.2	1.3	3.9	3.8
New entrants	.8	.7	.1	.1	.3	.3	7.4	6.9	.6	.5	2.5	2.1

A-15. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment

(Percent distribution)

				July 1989			
	Total une	mployed		Durati	on of unemplo	yment	
Reason, sex, and age					1	5 weeks and o	ver
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	Total	15 to 26 weeks	27 weeks
Total, 16 years and over	6,736	100.0	49.5	30.7	19.7	10.6	9.1
Job losers	2,797	100.0	41.3	31.4	27.4	15.3	12.1
On layoff	755	100.0	60.2	26.3	13.5	8.5	5.0
Other job losers	2,042	100.0	34.3	33.2	32.5	17.7	14.7
Job leavers	1.064	100.0	57.5	26.2	16.3	8.8	7.5
Reentrants	1,946	100.0	54.9	29.4	15.8	8.1	7.7
New entrants	930	100.0	54.1	36.9	8.9	3.7	5.2
Men, 20 years and over	2,614	100.0	42.0	29.3	28.7	14.7	14.0
ob losers	1,582	100.0	38.3	30.5	31.1	15.7	15.5
On layoff	398	100.0	59.6	24.7	15.7	8.2	7.5
Other job losers	1.184	100.0	31.2	32.5	36.4	18.2	18.1
ob leavers	389	100.0	57.7	22.9	19.3	9.3	10.0
Reentrants	559	100.0	41.5	30.5	28.1	15.7	12.4
New entrants	85	100.0	41.6	28.9	29.5	13.7	15.7
Women, 20 years and over	2,712	100.0	50.3	30.7	19.1	11.1	8.0
lob losers	1,063	100.0	41.1	34.1	24.8	16.3	8.6
On layoff	324	100.0	57.1	30.5	12.4	9.9	2.5
Other job losers	739	100.0	34.1	35.7	30.3	19.1	11.2
ob leavers	479	100.0	54.5	27.3	18.2	10.2	8.0
Reentrants	1,008	100.0	58.6	28.8	12.7	6.5	6.2
New entrants	162	100.0	46.3	30.1	23.6	8.6	15.0
Both sexes, 16 to 19 years	1,410	100.0	62.2	33.5	4.4	2.0	2.4
ob losers	152	100.0	73.3	21.1	5.6	3.6	2.1
On layoff	33	100.0	0	()	(')	()	()
Other job losers	119	100.0	66.5	25.6	7.9	5.1	2.8
ob leavers	196	100.0	64.5	29.7	5.8	4.6	1.1
Reentrants	379	100.0	64.8	29.4	5.8	1.1	4.7
New entrants	683	100.0	57.5	39.6	2.9	1.3	1.6

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

A-16. Unemployed persons by duration of unemployment

		Tot	al			Full-time	workers	
Duration of unemployment	Thousands	of persons	Percent di	istribution	Thousands	of persons	Percent distribution	
,	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989
Total, 16 years and over	6,823	6,736	100.0	100.0	5,562	5,590	100.0	100.0
Less than 5 weeks	3,164	3,338	46.4	49.5	2,387	2,578	42.8	46.1
5 to 14 weeks	2,186	2,070	32.0	30.7	1,791	1,783	32.1	31.9
5 to 10 weeks	1,771	1,630	26.0	24.2	1,422	1,386	25.5	24.8
11 to 14 weeks	415	440	6.1	6.5	369	397	6.6	7.1
5 weeks and over	1,473	1,328	21.6	19.7	1,404	1,229	25.2	22.0
15 to 26 weeks	685	712	10.0	10.6	643	664	11.5	11.9
27 weeks and over	788	616	11.5	9.1	762	564	13.7	10.1
27 to 51 weeks	339	283	5.0	4.2	328	263	5.9	4.7
52 weeks and over	450	333	6.6	4.9	434	302	7.8	5.4
Average (mean) duration, in weeks	12.7	11.2	-	-	14.2	12.0	-	-
Median duration, in weeks	5.6	5.1	-	-	6.3	5.7	-	-

A-17. Unemployed persons by sex, age, race, marital status, and duration of unemployment

		Thous	ands of p	ersons		We	eks	Pe		unemploy roup	/ed
Sex, age, race, and marital status	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	Unem less 5 we		15 w	ployed eeks over
				July 198	9			July 1988	July 1989	July 1988	July 1989
Total, 16 years and over	6,736	3,338	2,070	712	616	11.2	5.1	46.4	49.5	21.6	19.7
16 to 19 years	1,410	876	472	28	34	6.0	4.0	60.2	62.2	5.0	4.4
20 to 24 years	1,273	694	382	104	93	8.9	4.6	51.5	54.5	18.3	15.4
25 to 34 years	1,871	857	573	255	187	12.0	6.0	43.3	45.8	24.6	23.6
35 to 44 years	1,135	486	367	135	147	14.1	6.5	36.9	42.8	29.8	24.8
45 to 54 years	586	247	147	110	82	17.0	7.0	39.2	42.1	32.4	32.8
55 to 64 years	375	131	110	72	63	16.5	9.1	25.9	34.9	44.2	35.8
65 years and over	86	47	19	9	10	10.6	4.6	53.3	54.4	14.9	23.1
Men, 16 years and over	3,308	1,496	1,035	399	379	12.8	5.9	41.1	45.2	25.8	23.5
16 to 19 years	694	398	268	16	13	5.8	4.4	59.0	57.3	6.5	4.1
20 to 24 years	636	329	190	60	57	9.9	4.8	44.1	51.8	19.2	18.3
25 to 34 years	880	374	262	129	115	13.6	6.9	37.2	42.5	31.1	27.7
35 to 44 years	560	215	183	73	89	16.0	7.7	31.6	38.4	35.0	29.0
45 to 54 years	300	105	71	68	55	21.9	9.3	31.4	35.0	42.8	41.1
7	197	54	52	46	46	20.1	13.5	15.2	27.2	54.0	46.4
55 to 64 years65 years and over	41	21	8	8	4	(')	(')	(')	(')	(')	(')
Women, 16 years and over	3,428	1,842	1,035	313	237	9.7	4.7	52.0	53.7	17.1	16.1
16 to 19 years	715	479	204	12	21	6.3	3.7	61.9	66.9	3.0	4.6
20 to 24 years	637	365	192	44	36	8.0	4.4	58.8	57.3	17.5	12.6
	991	483	311	125	72	10.6	5.3	49.6	48.7	18.0	19.9
25 to 34 years	575	271	•	(58		5.6	42.2	47.1		20.8
35 to 44 years			184	61		12.2				24.7	
45 to 54 years	287	142	76	42	27	11.9	5.1	46.7	49.5	22.3	24.2
55 to 64 years	178	77	58	26	17	12.4	6.6	40.2	43.4	31,1	24.1
65 years and over	45	26	11	2	6	(t)	()	(')	(')	(')	O
White, 16 years and over	4,898	2,492	1,462	506	437	10.8	4.9	46.6	50.9	20.2	19.3
Men	2,441	1,139	735	286	281	12.8	5.6	41.7	46.6	24.0	23.2
Women	2,457	1,354	727	220	156	8.9	4.5	51.9	55.1	16.0	15.3
Black, 16 years and over	1,614	728	537	182	167	12.6	5.9	45.1	45.1	25.7	21.6
Men	753	304	266	93	91	12.9	6.6	38.5	40.3	31.2	24.3
Women	861	424	271	90	76	12.3	5.2	51.4	49.2	20.4	19.3
Men, 16 years and over:			ĺ				[1	1	ĺ
Married, spouse present	1,130	432	328	196	174	16.5	7.7	31.7	38.2	34.8	32.7
Widowed, divorced, or separated	396	158	104	58	77	17.3	8.1	40.4	39.8	35.6	33.9
Single (never married)	1,782	906	603	146	128	9.4	4.9	47.1	50.8	18.2	15.4
Women, 16 years and over:											
Married, spouse present	1,232	651	368	131	82	9.2	4.7	51.5	52.8	17.2	17.3
Widowed, divorced, or separated	715	315	231	101	67	12.3	6.2	45.6	44.1	23.1	23.6
Single (never married)	1.481	876	436	81	88	8.7	4.2	55.9	59.2	13.8	11.4
	.,,	1 5.5	-,55	1	1	5	1		1		''''

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

A-18. Unemployed persons by occupation, industry, and duration of unemployment

		Thous	ands of p	ersons		We	Percent of unemployed in group				
Occupation and industry	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Average (mean) duration	Median duration	less	ployed than eeks	15 w	ployed reeks over
	July 1989							July 1988	July 1989	July 1988	July 1989
OCCUPATION											
Managerial and professional specialty	666 1,556 1,135 583 1,620 203	290 797 604 260 752 105	230 463 325 164 475 60	87 183 119 79 191 13	59 112 87 80 201 26	12.2 10.1 10.0 13.3 13.3 11.8	6.0 4.9 4.7 6.8 5.9 4.8	39.6 43.7 53.5 38.9 44.6 50.7	43.5 51.3 53.2 44.6 46.4 51.6	24.3 23.8 19.0 26.4 28.3 17.4	21.9 19.0 18.1 27.3 24.2 19.1
Agriculture Construction Manufacturing Durable goods Nondurable goods Transportation and public utilities Wholesale and retail trade Finance and service industries Public administration	147 545 1,104 631 474 321 1,463 1,847 204	73 237 505 298 206 152 794 894 90	44 159 313 171 142 84 446 576 56	8 84 148 77 72 47 120 221 36	23 65 138 85 53 37 103 156 22	13.6 13.6 13.2 13.3 13.1 13.0 9.8 10.8 12.2	5.1 6.6 6.1 5.6 6.7 5.7 4.6 5.4 6.9	58.4 45.4 42.6 40.6 45.3 27.4 50.2 45.8 43.2	49.5 43.5 45.7 47.3 43.6 47.4 54.3 48.4 44.3	13.9 25.6 30.6 32.1 28.4 33.0 18.4 22.0 24.8	20.5 27.4 25.9 25.6 26.4 26.4 15.2 20.4 28.5
No previous work experience	930	503	343	34	49	8.6	4.6	52.6	54.1	8.1	8.9

¹ Includes wage and salary workers only.

A-19. Unemployed jobseekers by sex, age, race, and jobsearch methods used

					July 1989				
	Thousands	of persons		Methods u	sed as a per	cent of total	jobseekers		Average
Sex, age, and race	Total unem- ployed	Total job- seekers	Public employ- ment agency	Private employ- ment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	number o methods used
Total, 16 years and over	6,736	5,822	22.0	7.2	72.1	37.2	19.2	5.4	1.63
6 to 19 years	1,410	1,349	12.7	3.2	78.8	29.5	16.8	2.9	1.44
0 to 24 years		1,143	25.0	7.8	71.7	36.2	18.7	4.9	1.64
5 to 34 years		1,572	25.8	7.9	69.6	39.8	21.4	5.2	1.70
5 to 44 years	1	919	27.2	7.2	71.3	42.0	19.3	6.9	1.74
5 to 54 years		467	22.7	12.4	72.2	42.0	18.4	5.8	1.73
5 to 64 years	1	303	19.1	9.2	59.1	39.9	22.8	14.5	1.65
5 years and over		68	7.4	13.2	72.1	35.3	13.2	2.9	1.44
•									
Men, 16 years and over		2,813	23.6	7.0	73.3	36.9	23.3	5.8	1.70
6 to 19 years		665	11.4	3.2	77.6	33.1	19.4	3.8	1.48
0 to 24 years	636	577	23.9	6.9	72.1	35.2	25.0	4.9	1.68
5 to 34 years	880	710	31.0	7.7	73.9	36.3	24.1	4.4	1.77
5 to 44 years	560	432	32.2	6.9	73.8	41.2	24.1	7.4	1.86
5 to 54 years	300	238	25.6	13.0	73.5	39.5	22.3	6.7	1.81
5 to 64 years		157	15.9	8.3	56.1	43.9	31.2	18.5	1.74
5 years and over		35	(')	()	(f)	O	()	(')	O
Women, 16 years and over	3,428	3,009	20.5	7.3	71.0	37.5	15.3	5.0	1.57
6 to 19 years		684	13.9	3.1	80.1	25.9	14.3	2.0	1.39
0 to 24 years		566	26.1	8.7	71.4	37.3	12.4	4.8	1.61
5 to 34 years		863	21.4	8.0	65.9	42.6	19.1	5.9	1.63
5 to 44 years	1 1 1	487	22.8	7.4	88.8	42.7	14.8	6.4	1.63
		229	19.2	11.8	70.7	44.5	14.4	4.8	1.66
5 to 54 years		_		9.6	62.3	35.6	14.4	10.3	1.55
5 to 64 years		146	22.6						
5 years and over	45	33	(1)	(1)	O	(f)	(1)	(¹)	()
White, 16 years and over		4,134	20.9	7.2	71.5	40.0	19.4	5.3	1.64
Men		2,023	22.4	7.0	73.5	39.3	23.6	6.2	1.72
Vomen	2,457	2,111	19.3	7.4	69.6	40.6	15.3	4.5	1.57
Black, 16 years and over	1,614	1,498	25.3	7.2	74.8	28.2	18.0	4.8	1.58
1en		891	27.1	7.1	74.7	28.2	21.1	4.1	1.82
Vomen	861	807	23.8	7.2	74.8	28.3	15.4	5.5	1.55

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

A-20. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used

	L				July 1989						
	Thousands	of persons		Methods used as a percent of total jobseekers							
Sex and reason	Total unem- ployed	Total job- seekers	Public employ- ment agency	Private employ- ment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	Average number of methods used		
Total, 16 years and over	6,736	5,822	22.0	7.2	72.1	37.2	19.2	5.4	1.63		
Job losers1		2,026	26.5	9.0	73.4	39.7	21.8	5.6	1.76		
Job leavers		1,052	25.8	6.6	70.9	47.1	17.0	3.3	1.71		
Reentrants	1,946	1,837	18.1	7.2	88.9	33.4	17.1	7.5	1.52		
New entrants	930	907	15.5	3.7	76.8	27.7	20.0	2.9	1.47		
Men, 16 years and over	3,308	2,813	23.6	7.0	73.3	36.9	23.3	5.8	1.70		
Job losers ¹	1,651	1,228	28.3	7.9	73.9	37.0	23.9	5.9	1.77		
Job leavers	490	471	24.8	5.7	74.1	45.6	22.9	4.9	1.78		
Reentrants	765	717	19.9	7.4	68.3	33.8	24.1	7.7	1.61		
New entrants	403	396	14.4	4.5	80.1	31.8	20.7	3.0	1.55		
Women, 16 years and over	3,428	3,009	20.5	7.3	71.0	37.5	15.3	5.0	1.57		
Job losers1		797	23.8	10.5	72.9	44.0	18.8	5.1	1.75		
Job leavers	·	581	26.5	7.2	68.3	48.2	12.2	2.1	1.65		
Reentrants	1,181	1,120	17.0	7.1	69.4	33.2	12.7	7.4	1.47		
New entrants		511	16.4	3.1	74.4	24.5	19.4	2.7	1.41		

¹ Data on the number of jobseekers and the jobsearch methods used

¹ Data not shown where base is less than 75,000. NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within

exclude persons on layoff.

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

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

A-21. Employed civilians in agriculture and nonagricultural industries by age and sex

(In thousands)

	To	otal	M	len	Women		
Industry and age	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	
All industries	117,066	119,502	65,164	66,265	51,902	53,237	
16 to 19 years	8,661	8,465	4,541	4,554	4,119	3,911	
16 to 17 years		3,409	1,963	1,644	1,709	1,565	
18 to 19 years	1	5,056	2,578	2,710	2,410	2,346	
20 to 24 years	1 .	13,808	7,397	7,240	6,530	6,568	
25 to 54 years		82,432	44.691	45.841	35,381	36,591	
25 to 34 years		34,071	18,905	19,187	14,684	14,884	
35 to 44 years		29,232	15,541	16,047	12,539	13,185	
45 to 54 years		19,130	10,244	10.607	8,158	8,523	
55 to 64 years		11,425	6,596	6,616	4,673	4,810	
55 to 59 years		6,839	4.013	3,928	2,861	2,911	
60 to 64 years		4,586	2,583	2,687	1,813	1,899	
35 years and over		3,370	1,939	2,014	1,198	1,357	
JO Years and Over	3,137	3,370	1,000	2,014	1,190	1,557	
Agriculture	3,541	3,713	2,827	2,903	714	810	
16 to 19 years	438	425	373	357	64	68	
16 to 17 years	236	237	205	202	31	36	
18 to 19 years		187	168	155	33	32	
20 to 24 years		451	336	364	58	87	
25 to 54 years		2,059	1,475	1,542	460	518	
25 to 34 years		859	683	669	166	190	
35 to 44 years		691	472	507	166	185	
45 to 54 years		508	320	366	128	142	
55 to 64 years		454	345	357	84	97	
55 to 59 years		234	186	180	50	54	
60 to 64 years		220	159	177	34	43	
35 years and over		324	298	282	48	42	
Nonagricultural industries	113.524	115,789	62,336	63,362	51.188	52,427	
6 to 19 years		8,041	4,168	4,197	4,055	3,843	
16 to 17 years		3,172	1,759	1,642	1,678	1,530	
		4,869	2,410	2,555	2.377	2.314	
18 to 19 years 20 to 24 years		13,357	7,061	6,876	6,472	6,481	
		80.374	43,216	44,299	34,922	36.075	
25 to 54 years				,	1 ' 1		
25 to 34 years		33,212	18,222	18,518	14,519	14,693	
35 to 44 years		28,540	15,070	15,540	12,373	13,001	
45 to 54 years		18,622	9,924	10,241	8,030	8,381	
55 to 64 years		10,971	6,251	6,258	4,590	4,712	
55 to 59 years		6,604	3,827	3,748	2,810	2,856	
60 to 64 years		4,366	2,424	2,510	1,779	1,856	
35 years and over	2,790	3,046	1,641	1,731	1,150	1,315	

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

(In thousands)

	To	tal		Me	en		Women			
Occupation		ears over	16 y and		20 y and	ears over	16 y and		,	ears over
	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989
Total	117,066	119,502	65,164	66,265	60,622	61,710	51,902	53,237	47,783	49,320
Managerial and professional specialty	29,006	30,068	16,181	16,708	16,023	16,567	12,824	13,360	12,675	13,174
Executive, administrative, and managerial		15,163	8,837	9,159	8,768	9,106	5,704	6,003	5,655	5,94
Officials and administrators, public administration		693	328	394	329	392	227	300	228	29
Other executive, administrative, and managerial		10,493 3,977	6,602 1,907	6,787 1,978	6,540 1,899	6,742 1,972	3,532 1,944	3,705 1,999	3,489 1,938	3,65 1,99
Professional specialty			7,344	7,549	7,255	7,462	7,121	7,357	7,021	7,22
Engineers		1,813	1,723	1,674	1,717	1,674	127	138	126	13
Mathematical and computer scientists		822	517	553	514	551	276	269	276	26
Natural scientists	1	453	315	344	315	340	96	109	96	10
Health diagnosing occupations Health assessment and treating occupations		863 2.268	651 349	736 351	651 344	736 348		126	144 1,858	12
Teachers, college and university	594	573	349	358	344	346 356	1,861 247	1,917 215	247	1,91 21
Teachers, except college and university	3.034	3,286	752	854	724	826	2,282	2,432	2,239	2,39
Lawyers and judges	720	764	594	573	593	573	126	191	124	19
Other professional specialty occupations	4,056	4,066	2,096	2,106	2,053	2,057	1,960	1,961	1,910	1,88
Technical, sales, and administrative support		36,552	12,632	12,864	11,876	12,072		23,688	21,153	21,71
Technicians and related support		3,797 1,310	1,960 225	1,959 250	1,917 225	1,914 244	1,699 1,022	1,838 1,060	1,673 1,010	1,80 1,05
Engineering and science technicians		1,215	930	922	903	897	243	293	234	27
Technicians, except health, engineering, and science	1,240	1,272	805	788	790	773	435	485	429	47
Sales occupations	13,926	14,181	7,070	7,202	6,605	6,714	6,856	6,979	5,711	5,84
Supervisors and proprietors		3,845	2,369	2,531	2,326	2,502	1,311	1,314	1,274	1,27
Sales representatives, finance and business services		2,392	1,423	1,357	1,396	1,342	984	1,036	951	99
Sales representatives, commodities, except retail	1,580 6,195	1,505 6,363	1,273 1,985	1,212 2,087	1,262 1,601	1,206 1,651	307 4,210	294 4,276	294 3,152	3,23
Sales-related occupations		75	1,565	2,007	1,001	1,031	4,210	4,270 59	3,132	3,23
Administrative support, including clerical		18,574	3,602	3,703	3,354	3,444	14,693	14,871	13,770	14,07
Supervisors	832	738	369	311	365	310	463	426	462	42
Computer equipment operators		979	300	377	284	360	549	602	507	56
Secretaries, stenographers, and typists		4,722	95 220	74	87	68	4,822	4,649	4,561	4,43
Financial records processing		2,467 875	564	211 554	211 524	191 531	2,244 328	2,255 321	2,194 308	2,20
Other administrative support, including clerical	8,341	8,794	2,054	2,176	1,883	1,984	6,287	6,619	5,739	6,14
Service occupations		16,195	6,230	6,491	5,121	5,263	9,405	9,703	7,918	8,31
Private household		942	39	39	32	30	953	903	719	71
Protective service		2,013	1,672 4,519	1,669 4,783	1,588 3,502	1,560 3,674	356 8,096	344 8,456	272 6,928	7.32
Food service		5,505	2,007	2,191	1,287	1,420	3,262	3,314	2,464	2,57
Health service		2,141	192	235	179	203	1,795	1,906	1,699	1,78
Cleaning and building service Personal service		3,230 2,363	1,840 480	1,889 468	1,643 393	1,687 364	1,348 1,690	1,341 1,895	1,248 1,517	1,25 1,71
Precision production, craft, and repair		14,059	12,899	12,843	12,472		1,235	1,216	1,190	1,16
Mechanics and repairers	1 7	4,452	4,505	4,321	4,376	4,178	1,235	1,210	1,190	1,10
Construction trades		1 *	5,235	5,369	5,000		129	131	120	11
Other precision production, craft, and repair			3,159	3,153	3,096	3,104	987	955	953	92
Operators, fabricators, and laborers		1 -	13,869	13,900	12,310	12,573	4,563	4,588	4,281	4,35
Machine operators, assemblers, and inspectors		8,266	4,942	4,977	4,703	4,768	3,269	3,289	3,141	3,19
Manufacturing industries Durable goods	6,920	6,775 3,700	4,106 2,635	4,056 2,584	3,932 2,550	3,924 2,506	2,814 1,152	2,719 1,115	2,720 1,116	2,63 1,09
Nondurable goods			1,471	1,472	1,382	1,418	1,662	1,604	1,604	1,54
Nonmanufacturing industries	1,291	1,491	836	921	771	844	455	570	421	55
Transportation and material moving occupations	4,900		4,505	4,629	4,298	4,479	395	399	383	38
Motor vehicle operators		3,657	3,306	3,300	3,123	3,184	354	357	347	34
Other transportation and material moving occupations		1,371	1,199	1,329 4,294	1,175	1,296	40	42	36 757	79
Handlers, equipment cleaners, helpers, and laborers Construction laborers	5,321 971	5,194 866	4,422 929	4,294 838	3,308 738	3,325 700	899 42	900 28	757 34	78
Other handlers, equipment cleaners, helpers, and laborers	4,350		3,492	3,456	2,571	2,625	857	872	723	75
Farming, forestry, and fishing	3,979	4,139	3,352	3,458	2,819	2,885	627	681	564	59
Farm operators and managers	1,360	1,385	1,146	1,157	1,129	1,144	214	228	212	22
Other farming, forestry, and fishing occupations	2,619	2,754	2,206	2,301	1,691	1,741	413	454	352	37

A-23. Employed civilians by occupation, race, and sex

(Percent distribution)

	Тс	otal	M	en	Women		
Occupation and race	July 1988	July 1989	July 1988	July 1989	July 1988	July 1989	
TOTAL							
Total, 16 years and over (thousands)		119,502 100.0	65,164 100.0	66,265 100.0	51,902 100.0	53,23 100.0	
Aanagerial and professional specialty	24.8	25.2	24.8	25.2	24.7	25.	
Executive, administrative, and managerial		12.7	13.6	13.8	11.0	11.3	
Professional specialty		12.5	11.3	11.4	13.7	13.	
echnical, sales, and administrative support		30.6 3.2	19.4 3.0	19.4 3.0	44.8	44. 3.	
Technicians and related support		11.9	10.8	10.9	3.3 13.2	3. 13.	
Administrative support, including clerical		15.5	5.5	5.6	28.3	27.	
ervice occupations		13.6	9.6	9.8	18.1	18.	
Private household		.8	.1	.1	1.8	1.	
Protective service		1.7	2.6	2.5	7		
Service, except private household and protective	1	11.1	8.9	7.2	15.6	15.	
recision production, craft, and repair		11.8 15.5	19.8 21.3	19.4 21.0	2.4 8.8	2. 8.	
Machine operators, assemblers, and inspectors		6.9	7.6	7.5	6.3	6.	
Transportation and material moving occupations		4.2	6.9	7.0	.8		
Handlers, equipment cleaners, helpers, and laborers	4.5	4.3	6.8	6.5	1.7	1.	
Farming, forestry, and fishing	3.4	3.5	5.1	5.2	1.2	1.3	
White							
Total, 16 years and over (thousands)		103,215 100.0	57,125 100.0	57,909 100.0	44,307 100.0	45,30 100.	
lanagerial and professional specialty	25.8	26.3	25.8	26.6	25.7	25.	
Executive, administrative, and managerial		13.4	14.3	14.7	11.5	11.	
Professional specialty	12.7	12.9	11.5	11.8	14.2	14.	
echnical, sales, and administrative support		30.9	19.6	19.4	45.7	45.	
Technicians and related support		3.1	3.0	2.9	3.1	3.	
Sales occupations		12.4 15.3	11.5 5.2	11.4 5.1	13.8 28.8	13. 28.	
ervice occupations		12.3	8.6	8.6	16.8	16.	
Private household	ī _	.7	.1	.1	1.6	1.	
Protective service	1.6	1.6	2.4	2.3	.8		
Service, except private household and protective		10.0	6.1	8.3	14.6	14.	
recision production, craft, and repair		12.2	20.4	20.0	2.3	2.	
perators, fabricators, and laborers		14.7 6.5	20.3 7.3	19.9 7.2	8.2 5.8	8. 5.	
Transportation and material moving occupations		4.1	6.6	6.7	.7	٠.	
Handlers, equipment cleaners, helpers, and laborers		4.1	6.4	6.0	1.7	1.	
arming, forestry, and fishing		3.7	5.3	5.5	1.3	1.	
Black		:	. [j			
Total, 16 years and over (thousands)		12,364 100.0	6,029 100.0	6,220 100.0	6,002 100.0	6,14 100.	
Managerial and professional specialty	15.9	15.2	13.8	11.5	18.1	19.	
Executive, administrative, and managerial	7.4	7.1	7.0	6.2	7.8	8.	
Professional specialty	1	8.2	6.8	5.4	10.2	11.	
echnical, sales, and administrative support		28.2 2.9	16.4 2.9	17.8 2.5	37.6 3.3	38. 3.	
Sales occupations		7.8	5.1	6.3	8.4	9.	
Administrative support, including clerical		17.5	8.3	9.1	25.8	26.	
ervice occupations	23.0	23.5	17.9	19.7	28.1	27.	
Private household		1.8	.1	1 [3.9	3.	
Protective service		3.0	4.2	5.0	1.2	۰.	
Service, except private household and protective	1	18.7	13.6	14.5	22.9	22.	
recision production, craft, and repairperators, fabricators, and laborers		9.1 22.3	15.4 32.8	15.5 32.5	2.4 13.2	2. 11.	
Machine operators, assemblers, and inspectors		9.8	11.0	10.3	9.9	9.	
Transportation and material moving occupations		5.7	11.1	10.4	1.1		
Handlers, equipment cleaners, helpers, and laborers	I .	6.8	10.8	11.7	2.2	1.	
arming, forestry, and fishing		1.7	3.8	3.0	.6		

A-24. Employed civilians by age, sex, and class of worker

(In thousands)

					July 1989				
			Nonagricultur	al industries	3			Agriculture	
Age and sex		Wage and s	alary workers		0-14	Ummalal	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Calf	Unnaia
	Total	Private household workers	Government	Other	Self- employed workers	Unpaid family workers	Wage and salary workers	Self- employed workers	Unpaid family workers
Total, 16 years and over	106,868	1,207	16,688	88,774	8,675	245	1,982	1,556	175
6 to 19 years	7,929	260	607	7,062	96	16	337	44	44
16 to 17 years	3,128	165	271	2.692	34	9	194	17	27
18 to 19 years	4,801	95	335	4,370	62	6	143	27	17
0 to 24 years	13,050	152	1.104	11,794	303	4	388	52	11
5 to 34 years	31,335	184	4,090	27,061	1.823	54	548	299	13
5 to 44 yeers	25,690	181	5,101	20,408	2,775	76	331	330	30
5 to 54 years	16,782	151	3,565	13,066	1,790	50	188	289	31
5 to 64 years	9,675	150	2,001	7,524	1,266	30	142	286	27
55 to 59 years	5,893	90	1,220	4,582	688	24	72	141	22
60 to 64 years	3,782	60	781	2,941	578	7	70	146	5
5 years and over	2,409	129	422	1,858	622	16	49	255	20
Men, 16 years and over	57,692	190	8,000	49,502	5,644	26	1,560	1,289	54
6 to 19 years	4,126	71	326	3,729	65	7	289	38	30
16 to 17 years	1,622	49	157	1,416	17	4	165	15	21
18 to 19 years	2,504	22	169	2,314	48	2	124	22	9
0 to 24 years	6,683	25	478	6,180	192	1	314	47	4
5 to 34 years	17,353	31	1.962	15,360	1,161	5	424	245	1
5 to 44 years	13,804	17	2,349	11,438	1,734	2	238	267	2
5 to 54 years	9,065	18	1,722	7,326	1,173	2	145	217	4
5 to 64 years	5,390	14	955	4,421	866	2	110	242	6
55 to 59 years	3,268	4	570	2,694	478	2	53	121	6
60 to 64 years	2,122	10	385	1,727	388	_	57	121	_
55 years and over	1,271	15	209	1,047	453	7	41	234	7
Women, 16 years and over	49,176	1,016	8,888	39,272	3,031	220	423	266	121
6 to 19 years	3,803	189	281	3,333	31	9	48	6	13
16 to 17 years	1,507	116	114	1,277	18	5	29	2	5
18 to 19 years	2,296	73	167	2,056	14	4	19	5	8
0 to 24 years	6,367	127	626	5,614	112	2	74	5	7
5 to 34 years	13,982	153	2,128	11,701	662	49	124	54	12
5 to 44 years	11,886	164	2,752	8,970	1,041	74	93	63	28
5 to 54 years	7,717	134	1,843	5,740	617	47	43	72	27
5 to 64 years	4,284	136	1,046	3,102	400	28	32	44	21
55 to 59 years	2,625	86	650	1,889	210	22	19	19	16
60 to 64 years	1,660	50	396	1,214	190	7	13	25	5
5 years and over	1,137	114	213	811	168	9	7	21	13

A-25. Employed civilians by industry and occupation

(In thousands)

							July 1	989					
		Manage profes spec	sional		Technical, sales, and administrative support			Service occupations					
	Total em-ployed	Executive, adminis- trative, and mana- gerial	Professional specialty	Technicians and related support	Sales	Adminis- trative support, including clerical	Private house- hold	Other service ¹	Precision production, craft, and repair	Machine oper- ators, assem- blers, and inspec- tors	Transpor- tation and material moving	Handlers, equipment cleaners, helpers, and laborers	Farming, forestry, and fishing
Agriculture		70	101	21	19	128	-	13	39	17	44	31	3,230
Mining	753	90	73	37	6	85	-	3	249	43	127	41	
Construction	8,175	1,094	126	47	49	463	-	39	4,662	112	592	973	19
	22,030	2,685	1,867	793	754	2,482	-	396	4,049	6,775	878	1,245	107
Durable goods	12,951	1,609	1,261	551	312	1,378	-	232	2,749	3,700	481	577	100
Nondurable goods	9,079	1,076	605	242	443	1,103	-	163	1,300	3,076	397	668	7
Transportation and public													
utilities	8,275	971	494	263	371	2,236	-	286	1,247	118	1,797	477	17
Wholesale and retail trade	24,679	2,128	413	109	10,173	2,374	-	4,669	1,542	324	1,029	1,873	46
Wholesale trade		527	77	45	1,810	797	-	49	319	148	510	366	16
Retail trade	20,016	1,601	336	63	8,363	1,577	-	4,619	1,223	176	519	1,507	30
Finance, insurance, and							}					ļ	
real estate	8,198	2,083	210	139	1,873	3,286	<u>-</u>	322	143	16	14	24	90
		4,720	10,888	2,098	919	6,011	942	8,163	1,867	830	481	449	547
Private households	1,216		7	1	2	7	942	96	19		5	20	109
Other service industries	36,698	4,713	10,681	2,098	916		-	8,068	1,848	829	475	429	438
Professional services	,	2,645	9,402	1,691	93	4,284	-	4,352	453	215	223	94	150
Public administration	5,766	1,323	735	290	18	1,511	-	1,363	261	32	67	82	84

¹ Includes protective service, not shown separately.

A-26. Employed civilians with a job but not at work by reason, sex, and pay status

(In thousands)

	A		Nonagricultural industries								
	·		То	tal	Wage and salary workers'						
Reason not working and sex	July	July	1.1.	1.1.	Paid ab	sences	Unpaid a	bsences			
	1988	1989	July 1988	July 1989	July 1988	July 1989	July 1988 3,891 2,475 691 (*) 726 1,224 609 349 266 2,666	July 1989			
Total, 16 years and over	11,661	12,092	11,510	11,964	6,896	7,138	3,891	4,112			
Vacation	9,021	9,536	8,949	9,473	6,056	6,338	2,475	2,674			
liness	1,336	1,261	1,312	1,228	523	498	691	652			
Bad weather	42	35	22	26	(†) (†)	(1)		(²)			
Industrial dispute	49	86	46	86	(2)	(i)	0	(2)			
All other reasons	1,212	1,175	1,181	1,152	316	302	726	786			
Men, 16 years and over	5,139	5,140	5,021	5,049	3,414	3,436	1,224	1,256			
Vacation	3,845	3,959	3,797	3,918	2,981	3,017	609	684			
Illness	717	681	897	653	296	295	349	309			
All other reasons ³	578	499	527	477	137	124	266	264			
Women, 16 years and over	6,522	6,952	6,489	6,915	3,484	3,702	2,666	2,855			
Vacation	5,177	5,576	5,152	5,555	3,076	3,321	1,865	1,990			
Illness	619	580	615	575	228	203	341	344			
All other reasons ³	726	795	722	786	180	178	460	521			

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

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

A-27. Persons at work by hours of work and type of industry

	July 1989										
Hours of work	-	Thousands of p	ersons	Percent distribution							
	All industries	Agriculture	Nonagricultural industries	All industries	Agriculture	Nonagricultural industries					
Total, 16 years and over	107,409	3,584	103,825	100.0	100.0	100.0					
1 to 34 hours	23,799	944	22,854	22.2	26.3	22.0					
1 to 4 hours	694	46	648	.6	1.3	.6					
5 to 14 hours	3,559	229	3,329	3.3	6.4	3.2					
15 to 29 hours	11,981	433	11,548	11.2	12.1	11.1					
30 to 34 hours	7,565	236	7,329	7.0	6.6	7.1					
35 hours and over	83,611	2,640	80.971	77.8	73.7	78.0					
35 to 39 hours	7,317	173	7,144	6.8	4.8	6.9					
40 hours	43,329	734	42,595	40.3	20.5	41.0					
41 hours and over	32,965	1,733	31,232	30.7	48.4	30.1					
41 to 48 hours	11,463	239	11,224	10.7	6.7	10.8					
49 to 59 hours	11,974	502	11,472	11.1	14.0	11.0					
60 hours and over	9,528	992	8,536	8.9	27.7	8.2					
Average hours, total at work	40.0	45.4	39.8	-	_	_					
Average hours, workers on full-time schedules	44.0	52.7	43.7	_	-	_					

A-28. Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status

			July	1989		
Decree for weather have 65 hours		All industries	,	Nona	gricultural ind Usually work full time 6,964 1,728 1,337 47 212 132 - 5,236 - 2,084 1,079 336 2 81 - 1,654 24.3 25.7	ustries
Reason for working less than 35 hours	Total	Usually work full time	Usually work part time	Total	work	Usually work part time
Total, 16 years and over	23,799	7,260	16,538	22,854	6,964	15,890
conomic reasons	5,500	1,844	3,656	5,199	1,728	3,471
Slack work	2,299	1,432	867	2,161	1,337	824
Material shortages or repairs to plant and equipment	51	51	_	47	47	- '
New job started during week	226	226	_	212	212	-
Job terminated during week	135	135	_	132	132	-
Could find only part-time work	2,788	-	2,788	2,647	-	2,647
Other reasons	18,300	5,418	12,882	17,655	5,236	12,419
Does not want, or unavailable for, full-time work	10,063	-	10,063	9,718	-	9,718
Vacation	2,117	2,117	-	2,084	2,084	-
Illness	1,241	1,113	128	1,197	1,079	118
Bad weather	400	400	-	336	336	i -
Industrial dispute	2	2	-	2	2	-
Legal or religious holiday	81	81	-	81	81	-
Full time for this job	1,866	-	1,866	1,827	-	1,827
All other reasons	2,527	1,702	825	2,409	1,654	755
verage hours:						
Economic reasons	22.2	24.1	21.2	22.4	24.3	21.4
Other reasons	22.0	25.7	20.5	22.1	25.7	20.6
Vorked 30 to 34 hours:						
Economic reasons	1,735	776	959	1,673	747	926
Other reasons	5,830	2,757	3,073	5,656	2.670	2,986

A-29. Persons at work in nonagricultural industries by class of worker and full- or part-time status

					July 1989	•			
		On part			On full-time	e schedule	s	Average	Average
Industry	Total at work	time for economic reasons	On voluntary part time	Total	40 hours or less	41 to 48 hours	49 hours or more	hours, total at work	hours, workers on full-time schedules
Total, 16 years and over	103,825	5,199	12,419	86,207	54,975	11,224	20,008	39.8	43.7
Wage and salary workers	95,516	4,649	11,053	79,814	52,168	10,554	17,092	39.7	43.3
Mining	615	11	14	590	276	85	229	47.3	48.2
Construction	6,316	370	252	5,694	3,749	735	1,210	40.8	43.0
Manufacturing	19,408 11,340 8,068	475 203 272	603 216 387	18,330 10,921 7,409	11,635 6,850 4,784	2,923 1,759 1,164	3,772 2,312 1,461	42.2 42.8 41.4	43.4 43.6 43.2
Transportation and public utilities	7,292 21,143 7,043	208 1,790 132	379 4,025 694	6,705 15,328 6,217	4,145 9,293 4,219	850 2,274 761	1,710 3,761 1,237	42.8 38.0 40.1	44.6 44.0 42.6
Service industries	28,394 1,115 27,279 5,305	1,575 208 1,367 88	4,815 487 4,328 271	22,004 420 21,584 4,946	15,266 256 15,010 3,585	2,394 30 2,364 532	4,344 134 4,210 829	37.6 27.3 38.0 41.1	42.6 47.2 42.5 42.5
Self-employed workers	8,064 245	541 9	1,271 95	6,252 141	2,717 91	656 14	2,879 36	41.9 34.9	48.6 44.2

A-30. Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status

Sex, age, race, and marital status	July 1989							
	Tanal On part			On full-time schedules			Average	Average
	Total at work	time for economic reasons	On voluntary part time	Total	40 hours or less	41 hours or more	hours, total at work	hours, workers on full-time schedules
TOTAL							**	
Total, 16 years and over	103,825	5,199	12,419	86,207	54,975	31,232	39.8	43.7
16 to 19 years	7,636	1,282	2,630	3,724	2,950	774	30.5	40.5
16 to 17 years	2,982	559	1,456	967	809	158	26.2	39.2
18 to 19 years	4,654	724	1,174	2,756	2,142	614	33.2	41.0
20 years and over	96,189	3,916	9,789	82,484	52,025	30,459	40.6	43.8
20 to 24 years	12,601	827	1,612	10,162	7,212	2,950	38.5	42.2
25 years and over	83,587	3,088	8,176	72,321	44,812	27,509	41.0	44.0
25 to 44 years	55,413	2,096	4,319	48,998	29,876	19,122	41.5	44.1
45 to 64 years	25,529	907	2,587	22,035	14,048	7,987	40.8	44.0
65 years and over	2,646	86	1,271	1,289	891	398	29.5	42.6
Men, 16 years and over	56,314	2,455	3,617	52,242	29,553	22,689	42.7	45.2
16 to 19 years	4,008	641	1,187	2,180	1,692	488	31.9	41.0
16 to 17 years	1,569	301	701	567	482	85	27.0	38.7
18 to 19 years	2,439	339	486	1,614	1,211	403	35.1	41.8
20 years and over	54,305	1,814	2,430	50,061	27,859	22,202	43.5	45.4
20 to 24 years	6,553	404	595	5,554	3,566	1,988	40.4	43.5
25 years and over	47,752	1,409	1,835	44,508	24,294	20,214	43.9	45.6
25 to 44 years	31,516	982	586	29,948	15,912	14,036	44.6	45.8
45 to 64 years	14,691	380	590	13,721	7,861	5,860	43.7	45.3
65 years and over	1,546	47	659	840	522	318	31.9	44.1
Women, 16 years and over	45,512	2,743	8,802	33,967	25,425	8,542	36.2	41.3
16 to 19 years	3,628	642	1,443	1,543	1,257	286	28.9	39.9
16 to 17 years	1,413	257	754	402	327	75	25.4	39.8
18 to 19 years	2,215	385	688	1,142	931	211	31.2	40.0
20 years and over	41,864	2,103	7,359	32,422	24,165	8,257	36.8	41.4
20 to 24 years	6,048	422	1,017	4,609	3,646	963	36.4	40.6
25 years and over	35,835	1,679	6,342	27,814	20,519	7,295	36.9	41.6
25 to 44 years	23,897	1,113	3,734	19,050	13,963	5,067	37.4	41.5
45 to 64 years	10,837	528	1,997	8,312	6,164	2,128	36.8	41.7
65 years and over	1,100	39	612	449	368	81	26.2	39.7
RACE								
White, 16 years and over	89,386	4,147	10,923	74,316	45,980	26,336	40.1	43.9
Men	50,762	1,939	3,087	45,736	24,991	20,745	43.1	45.5
Women	38,623	2,208	7,835	28,580	20,989	7,591	36.1	41.5
Black, 16 years and over	10,879	851	1,126	8,902	6,847	2,055	38.0	41.7
Men	5,594	417	392	4,785	3,409	1,376	39.7	42.7
Women	5,285	435	734	4,116	3,435	681	36.2	40.5
MARITAL STATUS								
Men, 16 years and over:								
Married, spouse present		833	1,281	33,796	17,929	15,867	44.3	45.8
Widowed, divorced, or separated	5,902	261	274	5,367	2,933	2,434	43.6	46.0
Single (never married)	16,502	1,361	2,062	13,079	8,692	4,387	36.9	43.3
Women, 16 years and over:			_					
Married, spouse present	23,739	1,045	5,194	17,500	13,248	4,252	35.8	41.2
Widowed, divorced, or separated		549	1,092	7,428	5,325	2,103	38.2	42.0
Single (never married)	12,703	1,149	2,516	9,036	6,851	2,187	35.5	41.1

A-31. Persons at work in nonfarm occupations by sex and full- or part-time status

(Numbers in thousands)

					July 1989				
				(On full-tim	e schedule	s		Average
Occupation and sex	Total at work	On part time for economic reasons	On volun- tary part time	Total	40 hours or less	41 to 48 hours	49 ho⊎rs or more	Average hours, total at work	hours, workers on full- time sched- ules
Total, 16 years and over ¹	103,418	5,107	12,339	85,972	54,739	11,209	20,025	39.9	43.7
Managerial and professional specialty	14,036 11,555	432 161 272	2,135 626 1,510	23,023 13,249 9,774	12,547 6,710 5,837	2,900 1,692 1,208	7,576 4,847 2,729	42.7 44.8 40.3	45.3 46.2 44.1
Technical, sales, and administrative support	3,501 13,139	1,489 79 817	5,281 301 2,406	26,716 3,120 9,916	18,284 2,131 5,284	3,407 464 1,352	5,026 525 3,279	38.4 40.5 39.6	42.7 42.6 45.6
Administrative support, including clerical	14,673 868	593 1,591 144	2,574 3,350 392	13,680 9,733 333	10,868 7,121 208	1,591 974 27	1,221 1,638 98	37.0 35.3 27.3	40.6 42.5 46.5
Protective service Service, except private household and protective Precision production, craft, and repair Operators, fabricators, and laborers	11,974 12,979	78 1,370 535 1,060	127 2,830 415 1,158	1,626 7,774 12,030 14,470	994 5,920 7,428 9,358	225 722 1,756 2,172	408 1,132 2,846 2,940	42.6 34.7 42.3 40.8	45.2 41.8 43.9 43.6
Machine operators, assemblers, and inspectors Transportation and material moving occupations Handlers, equipment cleaners, helpers, and laborers	7,336 4,539	395 191 474	273 229 656	6,668 4,119 3,683	4,710 2,037 2,611	1,016 649 507	942 1,433 565	40.5 44.6 37.6	42.2 47.0 42.3
Men, 16 years and over ¹	57,791	2,370	3,505	51,916	29,263	7,232	15,420	42.8	45.2
Managerial and professional specialty	8,520	237 84 153	659 232 427	14,202 8,204 5,998	6,820 3,632 3,188	1,684 957 727	5,697 3,614 2,083	45.3 46.8 43.4	46.9 47.8 45.6
Technical, sales, and administrative support Technicians and related support Sales occupations	11,997 1,820	366 34 227	954 78 572	10,678 1,708 5,961	5,674 1,057 2,526	1,618 293 865	3,386 358 2,570	43.0 42.6 44.7	45.7 43.9 47.8
Administrative support, including clerical	3,419 6,057	105 567 5	305 835 16	3,009 4,656 17	2,091 3,168 6	460 518	459 969 11	39.8 38.7 (²)	42.4 43.9 (°)
Protective service Service, except private household and protective Precision production, craft, and repair	1,514 4,504	67 495 484	77 741 284	1,370 3,268 11,146	812 2,351 6,774	185 334 1,653	374 583 2,720	43.5 37.2 42.6	45.8 43.0 44.1
Operators, fabricators, and laborers Machine operators, assemblers, and inspectors Transportation and material moving occupations	12,725 4,465	716 187 163	775 100 169	11,234 4,178 3,922	6,828 2,748 1,901	1,758 698 625	2,648 733 1,396	41.8 41.8 45.2	44.3 43.0 47.2
Handlers, equipment cleaners, helpers, and laborers Women, 16 years and over ¹	4,006	367 2,737	505 8,833	3,134	2,178 25,475	436 3,976	520 4,605	38.2 36.2	42.6 41.4
Managerial and professional specialty	10,493	195 76	1,476 394	8,821 5,045	5,727 3,078	1,215 735	1,879 1,233	39.0 41.6	42.7 43.5
Professional specialty Technical, sales, and administrative support Technicians and related support	4,977 21,490	118 1,124 45	1,083 4,327 224	3,776 16,039 1,412	2,649 12,610 1,074	481 1,789 171	646 1,640 167	36.1 35.8 38.3	41.6 40.7 41.1
Sales occupations Administrative support, including clerical Service occupations	6,380 13,428	591 488 1,024	1,834 2,269 2,515	3,956 10,671 5,077	2,758 8,778 3,953	488 1,130 455	710 763 669	34.3 36.2 32.8	42.2 40.1 41.3
Private household	829 317	138 11 875	375 51 2,089	316 256 4,506	202 182 3,569	27 40 388	86 33 549	26.9 38.0 33.3	45.5 41.9 41.0
Precision production, craft, and repair	1,066 3,963	51 343 208	131 384 173	884 3,236 2,490	655 2,531 1,962	103 413 319	126 292 209	38.3 37.5 38.4	41.7 40.9 40.9
Transportation and material moving occupations	285	28 107	60 150	197 549	136 433	24 71	37 45	36.1 34.6	43.0 40.4

¹ Excludes farming, forestry, and fishing occupations.

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

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-32. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted

(Numbers in thousands)

Formal and the state of the sta			19	88						1989			
Employment status and sex	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July
TOTAL													
Noninstitutional population ¹	186,402	186,522	186,666	186,801	186,949	187,098	187,340	187,461	187,581	187,708	187,854	187,995	188,149
Labor force ¹	123,331	123,692	123,688	123,778	124,215	124,259	125,124	124,865	124,948	125,343	125,283	125,768	125,822
Percent of population ²	66.2	66.3	66.3	66.3	66.4	66.4	66.8	66.6	66.6		66.7		66.8
Total employed1		116,895	117,074		117,652	117,705	118,407	118,537	118,820	118,797	118,888	119,207	119,125
Employment-population ratio ³		62.7	82.7	62.8	62.9	62.9	63.2	63.2	63.3	63.3	63.3		63.3
Resident Armed Forces		1,692	1,704	1,687	1,705	1,696	1,696	1,684	1,684	1,684	1,673	1,666	1,666
Civilian employed		115,203						116,853	117,136		117,215	117,541	
Agriculture	3,060	3,142	3,176	3,238	3,238	3,193	3,300	3,223	3,206	3,104	3,112	3,096	3,219
Nonagricultural industries	111,974	112,061	112,194	112,335	112,709	112,816	113,411	113,630		114,009	114,102	114,445	114,240
Unemployed	6,624	6,797	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395		6,497
Unemployment rate ⁴	5.4	5.5	5.3	5.3	5.3	5.3	5.4	5.1	4.9	5.2	5.1	5.2	5.2
Not in labor force	63,071	62,830	62,978	63,023	62,734	62,839	62,216	62,596	62,633	62,365	62,571	62,228	62,527
Men										,			
Noninstitutional population ¹	89,445	89,504	89,577	89.637	89,716	89,792	89,914	89,973	90.032	90,094	90,167	90,237	90,315
Labor force ¹	68,461	68,685		68,569	68,686	68,638		69,113	69,190				69,245
Percent of population ²	76.5	76.7	76.6	76.5	76.6	76.4	76.8	76.8	76.9		76.7		76.7
Total employed1	64,941	64,931	65,015	64,976	65,074	65,055		65,572	65,920		65,713		
Employment-population ratio ³	72.6	72.5	72.6	72.5	72.5	72.5	72.6	72.9	73.2	73.0	72.9		73.0
Resident Armed Forces		1,529	1,540	1.526		1.534	1.532	1,521	1.521	1,521	1.511		1,499
Civilian employed		63,402	63,475	63,450	63,532	63,521	63,790	64,051	64,399		64,202		64,462
Unemployed		3,754	3.589	3,593	3,612	3,583		3,540	3,270		3,401		3.284
Unemployment rate ⁴		5.5	5.2	5.2	5.3	5.2		5.1	4.7	5.2	4.9		
Not in labor force	20,984	20,819	20,973	21,068							21,053		
Women								i					
Noninstitutional population ¹	96,957	97,018	97,089	97,164	97,234	97,306	97,427	97,488	97,550	97,614	97.687	97.758	97.834
Labor force ¹		55.007	55.084	55.209	55.529	55.621	56.091	55.752					56.377
Percent of population ²		56.7	56.7	56.8	57.1	57.2	57.6	57.2	57.2		57.5		
Total employed ¹			52.059	52,284	52,578	52.650							53.164
Employment-population ratio ³		53.6	53.6	53.8	54.1	54.1	54.5	52,965 54.3	54.2	53,029	53,175		54.3
Resident Armed Forces		163	164	161	163	162		163	163				
Civilian employed			51.895	52,123	52,415			52,802	52,737				
Unemployed		3.043	3,025	2,925	2,951	2,971	3,006	2,787	2,858	2,953	2.994		3,213
Unemployment rate ⁴	5,104	5,043	5.5	2,925 5.3	5.3	2,871 5.3	5.4	2,767 5.0	2,000 5.1	2,953	5.3		5.7
Not in labor force	42.087	42.011	42,005	41.955							41.518	1	
110t III IQDUI 10100	42,007	42,011	+2,005	+1,500	41,705	+1,000	41,330	+1,/30	41,792	41,031	+1,010	41,487	41,45/

¹ Includes members of the Armed Forces stationed in the United Trocures includes the states.

States.

Labor force as a percent of the noninstitutional population.

Total employment as a percent of the noninstitutional population.

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

Armed Forces).

NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-32 through A-41 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

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

(Numbers in thousands)

Employment status,			19	88						1989			
sex, and age	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
TOTAL													
Civilian noninstitutional population ¹									185,897	186,024	186,181	186,329	186,483
Civilian labor force	121,658	122,000	121,984	122,091	122,510	122,563	123,428	123,181	123,264	123,659	123,610	124,102	123,95
Percent of population	65.9	66.0	66.0	66.0	66.1	66.1	66.5	66.3	66.3	66.5	66.4	66.6	66.
Employed	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,45
Employment-population ratio ²	62.3	62.3	62.4	62.4	62.6	62.6	62.9	62.9	63.0	63.0	63.0	63.1	63.
Unemployed	6,624	8,797	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561	6,49
Unemployment rate	5.4	5.6	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3	5.:
Men, 20 years and over													
Civilian noninstitutional population1	80,608	80,669	80,751	80,851	80,924	81,001	81,162			81,413	81,524	81,592	
Civilian labor force		62,916	62,884	62,915	62,995	63,002	63,358	63,490		63,709	63,503	63,831	63,65
Percent of population		78.0	77.9	77.8	77.8	77.8	78.1	78.1	78.1	78.3	77.9	78.2	77.
Employed	59,897	59,839	59,979	60,004	59,999	60,049	60,420	60,636	60,869	60,757	60,798	61,093	60,92
Employment-population ratio ²		74.2	74.3	74.2	74.1	74.1	74.4	74.6	74.8	74.6	74.6	74.9	74.0
Agriculture	2,252	2,273	2,249	2,315	2,313	2,292	2,277	2,320	2,317	2,252	2,284	2,256	2,34
Nonagricultural industries	57,645	57,566	57,730	57,689	57,686	57,757	58,143	58,316	58,552	58,505	58,514	58,837	58,57
Unemployed		3,077	2,905	2,911	2,996	2,953	2,938	2,853	2,688	2,952	2,705	2,737	2,734
Unemployment rate	4.5	4.9	4.6	4.6	4.8	4.7	4.6	4.5	4.2	4.6	4.3	4.3	4.3
Not in labor force	17,879	17,753	17,867	17,936	17,929	17,999	17,804	17,766	17,776	17,704	18,021	17,761	18,023
Women, 20 years and over													
Civilian noninstitutional population ¹	89,588	89,670	89,735		89,887	89,954	90,072	90,153			90,432	90,526	
Civilian labor force	50,807	50,959	50,991	51,201	51,558	51,587	51,998	51,821	51,851	51,992	52,171	52,231	52,463
Percent of population	56.7	56.8	56.8	57.0	57.4	57.3	57.7	57.5	57.5	57.6	57.7	57.7	57.9
Employed	48,242	48,492	48,535	48,788	49,113	49,165	49,543	49,514	49,484	49,544	49,690	49,661	49,850
Employment-population ratio ²	53.8	54.1	54.1	54.3	54.6	54.7	55.0	54.9	54.8	54.9	54.9	54.9	55.0
Agriculture	549	609	638	640	640	646	715	666	664	615	628	610	62
Nonagricultural industries		47,883	47,897	48,148	48,473	48,519	48,827	48,849	48,819	48,929	49,062	49,051	49,223
Unemployed		2,467	2,456	2,413	2,445	2,422	2,455	2,306	2,367	2,448	2,480	2,570	2,613
Unemployment rate	5.0	4.8	4.8	4.7	4.7	4.7	4.7	4.5	4.6	4.7	4.8	4.9	5.0
Not in labor force	38,781	38,711	38,744	38,806	38,329	38,367	38,074	38,332	38,391	38,326	38,261	38,295	38,144
Both sexes, 16 to 19 years													
Civilian noninstitutional population1	14,533	14,491	14,477	14,456	14,433	14,447	14,410		14,323		14,224	14,211	14,196
Civilian labor force	8,122	8,125	8,109	7,975	7,957	7,974	8,071	7,871	7,856		7,936	8,040	7,837
Percent of population		56.1	56.0	55.2	55.1	55.2	56.0	54.8	54.9	55.7	55.8	56.6	55.2
Employed	6,895	6,872	6,856	6,781	6,835	6,795	6,748	6,703	6,783	6,812	6,726	6,786	6,687
Employment-population ratio ²	47.4	47.4	47.4	46.9	47.4	47.0	46.8	46.7	47.4	47.7	47.3	47.8	47.1
Agriculture	259	260	289	283	285	255	307	237	224	237	200	230	249
Nonagricultural industries	6,636	6,612	6,567	6,498	6,550	6,540	6,441	6,466	6,559	6,575	6,526	6,556	6,438
Unemployed	1,227	1,253	1,253	1,194	1,122	1,179	1,323	1,168	1,073	1,146	1,210	1,254	1,150
Unemployment rate	15.1	15.4	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6	14.7
Not in labor force	6.411	6,366	6,368	6,481	6,476	6,473	6,339	6.496	6.467	6,335	6,288	6,171	6,359

NOTE: The corrected May 1989 seasonal adjustment factor for unemployed men, 20 years and over is .962.

The population figures are not adjusted for seasonal variation.
 Civilian employment as a percent of the civilian noninstitutional population.

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-34. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted

(Numbers in thousands)

Employment status,			19	88						1989			
race, sex, age, and Hispanic origin	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
WHITE													
Civilian noninstitutional population ¹							158,865 106 106						
Percent of population		66.3		66.3	66.5	66.4	66.8	66.6	66.7	66.8	66.7	66.8	66.8
Employed							101,183						
Employment-population ratio ²		63.1	63.2	63.2	63.4	63.4		63.7	63.9		63.7	63.8	
Unemployed		5,106	4,978	4,852	4,852	4,844	4,923	4,521	4,434	4,854	4,699	4,762	4,843
Unemployment rate		4.9		4.6	4.6			4.3	4.2	4.6	4.4	4.5	
Men, 20 years and over													
Civilian labor force	54,712	54,864	54,839	54,861	54,922	54,898	55,213	55,308	55,382	55,448	55,249	55,557	55,437
Percent of population		78.4	78.3	78.3	78.3	78.2	78.5	78.6	78.6	78.7	78.3	78.7	78.4
Employed		52,487	52,579	52,612	52,624			53,197	53,387	53,246		53,500	
Employment-population ratio ²		75.0	75.1	75.1	75.0	75.0		75.6	75.8	75.5	75.5		75.5
Unemployed		2,377	2,260	2,249	2,298	2,262		2,111	1,995	2,202	2,001	2,057	2.094
Unemployment rate	3.9	4.3	4.1	4.1	4.2	4.1	4.0	3.8	3.6	4.0	3.6	3.7	3.8
Women, 20 years and over													
Civilian labor force	42,958	43,149	43,191	43,298	43,625	43,644	43.936	43,770	43,780	44,016	44.084	44,050	44,302
Percent of population		56.4	56.4	56.5	56.9	56.9	1	56.9	56.9	57.2	57.2	57.1	57.4
Employed				41,583	41,889	41,930		42,177	42,115		42,282		
Employment-population ratio ²		54.1	54.1	54.2	54.6	54.6		54.8	54.7	54.8	54.9	54.8	
Unemployed			1,778	1,715	1,736		1	1,593	1,665	1,810	1,803	1,814	
Unemployment rate			4.1	4.0	4.0	3.9			3.8	4.1	4.1	4.1	4.3
Both sexes, 16 to 19 years													
Civilian labor force	6,981	7,000	7,006	6,892	6,848	6,869	6,958	6,720	6,826	6,848	6,831	6,848	6,685
Percent of population	58.9	59.2	59.4	58.5	58.3	58.6	59.6	57.7	58.7	59.0	59.0	59.2	57.9
Employed	6,080	6,042	6,066	6,004	6,030	6,001	5,975	5,904	6,052	6,005	5,936	5,957	5,827
Employment-population ratio ²	51.3	51.1	51.4	51.0	51.3	51.2	51.1	50.7	52.1	51.8	51.3	51.5	50.5
Unemployed	901	958	940	888	818	868	983	816	774	843	895	891	858
Unemployment rate		13.7	13.4	12.9	11.9	12.6		12.1	11.3	12.3		13.0	
Men	14.3	13.9	14.5	14.4	12.6	13.4		14.0	12.3	13.1	14.8	13.4	
Women	11.4	13.5	12.3	11.3	11.3	11.8	11.7	10.2	10.2	11.5	11.2	12.6	13.4
BLACK													
Civilian noninstitutional population ¹				20,786	20,811	20,842		20,905					
Civilian labor force				13,290	13,330	13,405		13,476	13,425		13,444	13,600	
Percent of population		63.8	63.6	63.9	64.1	64.3		64.5	64.1	63.4	64.1	64.7	64.4
Employed Employment-population ratio ²		11,733 56.6		11,807 56.8	11,831 56.8	11,856 56.9	,	11,873 56.8	11,961 57.1	11,846 56.5		11,982 57.0	
Unemployed		1,503		1,483	1,499	1,549		1,603	1,464	1,442	57.0 1.476		
Unemployment rate	11.5	11.4	10.9	11.2	11.2	11.6		11.9	10.9	10.8	11.0		
Men, 20 years and over													
Civilian labor force	6,080	6,131	6,117	6,157	6,146	6,179	6,226	6,199	6,230	6,171	6,207	6,200	6,205
Percent of population		74.5	74.2	74.6	74.3	74.6			74.8	74.0			
Employed	5,495	5,539		5,566	5,545		5,576		5,620	1	5,622	1	1
Employment-population ratio ²		67.3	67.5	67.4	67.1	67.1		66.7	67.5				
Unemployed		592	554	591	601	618	650	650	611	617	586	581	576
Unemployment rate	9.6	9.7	9.1	9.6	9.8	10.0	10.4	10.5	9.8	10.0	9.4	9.4	9.3
Women, 20 years and over													
Civilian labor force		6,188		6,234	6,280	1 '			6,315		6,340		
Percent of population		60.0	1	60.2	60.6	60.9		61.0	60.5	59.6	60.6		
Employed	5,640	5,571	5,575	5,620	5,663	5,654	5,706	5,697	5,739	5,677	5,740	5,732	5,759
Employed												_	
Employment-population ratio ²	54.7	54.0		54.3	54.6			54.7	55.0	1			
	54.7	617	599	54.3 614 9.8	54.6 617 9.8	662	663	651	55.0 576 9.1	1		674	635

A-34. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted—Continued

(Numbers in thousands)

									1989			
July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
917 42.0 626 28.7 291 31.7 31.2 32.4	917 42.0 623 28.5 294 32.1 32.1 32.0	910 41.7 620 28.4 290 31.9 31.9	899 41.2 621 28.5 278 30.9 32.8 28.6	904 41.5 623 28.6 281 31.1 32.1 29.9	910 41.7 641 29.4 269 29.6 29.8 29.3	881 40.5 577 26.5 304 34.5 36.7 32.0	928 42.7 627 28.8 301 32.4 33.1 31.6	880 40.5 602 27.7 278 31.6 28.6 34.8	889 40.9 615 28.3 274 30.8 35.5 26.2	897 41.3 606 27.9 291 32.4 36.9 28.4	994 45.7 631 29.0 363 36.5 33.5 40.2	956 44.0 694 31.9 262 27.4 22.1 33.1
13,344 8,997 67.4 8,265 61.9 732	13,381 8,963 67.0 8,214 61.4 749	13,419 9,061 67.5 8,378 62.4 683	13,458 9,075 67.4 8,368 62.2 707	13,495 9,148 67.8 8,419 62.4 729	13,533 9,133 67.5 8,441 62.4 692	13,564 9,205 67.9 8,434 62.2 771	13,606 9,219 67.8 8,596 63.2 624	13,649 9,210 67.5 8,607 63.1 603	13,690 9,262 67.7 8,495 62.1 767	13,731 9,428 68.7 8,686 63.3 742	13,772 9,272 87.3 8,524 61.9 748	13,813 9,433 68.3 8,587 62.2 846
	42.0 626 28.7 291 31.7 31.2 32.4 13,344 8,997 67.4 8,265 61.9	42.0 42.0 626 623 28.7 291 294 31.7 32.1 32.4 32.0 32.0 8.997 67.4 8,265 8,214 61.9 61.4 732 749	42.0 42.0 41.7 626 623 620 28.7 28.5 28.4 291 294 290 31.7 32.1 31.9 31.2 32.1 31.9 32.4 32.0 31.9 13,344 13,381 13,419 8,997 8,963 9,061 67.4 67.0 67.5 8,265 8,214 8,378 61.9 61.4 62.4 732 749 683	42.0 42.0 41.7 41.2 62.6 623 620 621 28.7 28.5 28.4 28.5 29.1 294 290 278 31.7 32.1 31.9 30.9 31.2 32.1 31.9 32.8 32.4 32.0 31.9 28.6 13,344 13,381 13,419 13,458 8,997 8,963 9,061 67.4 67.0 67.5 67.4 8,265 8,214 8,378 8,368 61.9 67.9 663 707	42.0 42.0 41.7 41.2 41.5 626 623 620 621 623 28.7 28.5 28.4 28.5 28.6 291 294 290 278 281 31.7 32.1 31.9 30.9 31.1 31.2 32.1 31.9 32.8 32.1 32.4 32.0 31.9 28.6 29.9 13,344 13,381 13,419 13,458 13,495 8,967 8,963 9,061 9,075 9,148 67.4 67.0 67.5 67.4 67.8 8,265 8,214 8,378 8,368 8,419 61.9 61.4 62.4 62.2 62.4 732 749 663 707 729	42.0 42.0 41.7 41.2 41.5 41.7 626 623 620 621 623 641 28.7 28.5 28.4 28.5 28.6 29.4 291 294 290 278 281 269 31.7 32.1 31.9 30.9 31.1 29.6 32.4 32.0 31.9 28.6 29.9 29.3 32.4 32.0 31.9 28.6 29.9 29.3 40 32.8 32.1 32.8 32.1 29.8 32.4 32.0 31.9 28.6 29.9 29.3 40 32.8 32.1 32.8 32.1 29.8 32.4 32.0 31.9 28.6 29.9 29.3 41.5 41.7 41.2 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3 41.3	42.0 42.0 41.7 41.2 41.5 41.7 40.5 626 623 620 621 623 641 577 28.7 28.5 28.4 28.5 28.6 29.4 26.5 291 294 290 278 281 269 30.4 31.7 32.1 31.9 30.9 31.1 29.6 34.5 32.4 32.0 31.9 28.6 29.9 29.3 32.0 32.4 32.0 31.9 28.6 29.9 29.3 32.0 13,344 13,381 13,419 13,458 13,495 13,533 13,564 8,997 8,963 9,061 9,075 9,148 9,133 9,205 67.4 67.0 67.5 67.4 67.8 67.5 67.9 8,268 8,214 8,378 8,368 8,419 8,441 8,434 61.4 62.4 62.2 62.4 62.4	42.0 42.0 41.7 41.2 41.5 41.7 40.5 42.7 627 627 627 627 627 627 627 627 627 627 627 627 627 627 627 627 627 627 628 629.4 26.5 28.8 29.4 26.5 28.8 30.4 30.1 31.1 29.6 34.5 32.4 32.4 31.2 32.1 31.9 32.8 32.1 29.8 36.7 33.1 32.4 32.0 31.9 28.6 29.9 29.3 32.0 31.6 13,344 13,381 13,419 13,458 13,495 13,533 13,564 13,606 9,01 9,075 9,148 9,133 9,205 9,219 67.4 67.6 67.5 67.4 67.8 67.5 67.9 67.8 8,284 8,419 8,441 8,434 8,596 61.4 62.4 62.2 62.4 62.4 62.2 63.2 63.2	42.0 42.0 41.7 41.2 41.5 41.7 40.5 42.7 40.5 626 623 620 621 623 641 577 627 602 28.7 28.5 28.4 28.5 28.6 29.4 26.5 28.8 27.7 291 294 290 278 281 269 30.4 301 278 31.7 32.1 31.9 30.9 31.1 29.6 34.5 32.4 31.6 32.4 32.0 31.9 28.6 29.9 29.3 32.0 31.6 34.8 13,344 13,381 13,419 13,458 13,495 13,533 13,564 13,606 13,649 8,997 8,963 9,061 9,075 9,148 9,133 9,205 9,219 9,210 67.4 67.0 67.5 67.4 67.8 67.5 67.9 67.8 67.5 61.9 61.4 62.4	42.0 42.0 41.7 41.2 41.5 41.7 40.5 42.7 40.5 40.9 626 623 620 621 623 641 577 627 602 615 28.7 28.5 28.4 28.5 28.6 29.4 26.5 28.8 27.7 28.3 291 294 290 278 281 269 304 301 278 274 31.7 32.1 31.9 30.9 31.1 29.6 34.5 32.4 31.6 30.8 31.2 32.1 31.9 32.8 32.1 29.8 36.7 33.1 28.6 35.5 32.4 32.0 31.9 28.6 29.9 29.3 32.0 31.6 34.8 26.2 13,344 13,381 13,419 13,458 13,495 13,533 13,564 13,606 13,649 13,690 8,997 8,963 9,061 9,075 9,148	42.0 42.0 41.7 41.2 41.5 41.7 40.5 42.7 40.5 40.9 41.3 626 623 620 621 623 641 577 627 602 615 606 28.7 28.5 28.4 28.5 28.6 29.4 26.5 28.8 27.7 28.3 27.9 31.7 32.1 31.9 30.9 31.1 29.6 34.5 32.4 31.6 30.8 32.4 31.2 32.1 31.9 32.8 32.1 29.8 36.7 33.1 28.6 35.5 36.9 32.4 32.0 31.9 28.6 29.9 29.3 32.0 31.6 30.8 32.4 31.2 32.1 31.9 28.6 29.9 29.3 32.0 31.6 34.8 26.2 28.4 13,341 13,419 13,458 13,495 13,533 13,564 13,606 13,649 13,690 13,731	42.0 42.0 41.7 41.2 41.5 41.7 40.5 42.7 40.5 40.9 41.3 45.7 626 623 620 621 623 641 577 627 602 615 606 631 28.7 28.5 28.4 28.5 28.6 29.4 26.5 28.8 27.7 28.3 27.9 29.0 291 294 290 278 281 269 304 301 278 274 291 363 31.7 32.1 31.9 30.9 31.1 29.6 34.5 32.4 31.6 30.8 32.4 36.5 31.2 32.1 31.9 32.8 32.1 29.8 36.7 33.1 28.6 35.5 36.9 33.5 32.4 32.0 31.9 28.6 29.9 29.3 32.0 31.6 34.8 26.2 28.4 40.2 13,341 13,495 13,533

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

A-35. Employed civilians by selected social and economic categories, seasonally adjusted

(In thousands)

Catagoni			19	88						1989			
Category	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTIC													
Total	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459
Married men, spouse present		40,511	40,513		40,407	40,483	40,925		41,083	40,890			
Married women, spouse present	28,669	28,809	28,836	28,890	28,995	29,053	29,589	29,412	29,589	29,656	29,739	29,481	29,552
Women who maintain families			6,253		6,375	6,399	6,416		6,256	6,243	6,331	8,403	
MAJOR INDUSTRY AND CLASS OF WORKER											:		
Agriculture:													
Wage and salary workers	1.572	1,607	1,612	1,661	1.672	1.698	1.684	1.645	1,656	1,554	1,610	1,550	1.695
Self-employed workers	1,362	1,411	1,421	1,405	1,450	1,349	1,387	1,419	1,403	1,419	1,358	1,412	
Unpaid family workers	149	158	137	177	125	149	189	150	138	124	127	126	126
Nonagricultural industries:						1					'-'		'-`
Wage and salary workers	103,189	103.207	103.501	103.733	103.770	103.904	104.510	104.797	104.982	104.985	105.245	105.519	105 321
Government		17,111	17,145	17,240	17,387	17,423	17,393	17,311	17,382	17,180	17,230		17.519
Private industries		86,096	86,358	86,493	86,383	86,481	87,117	87,486	87,600	87,806	88.015		87.803
Private households		1,128	1,119	1,152	1,209	1,210	1,196	1,135	1,163	1,117	1,128	1.140	
Other industries		84,968	85,237	85,341	85.174	85,271	85,921	88,350		88,689	86.887	87.118	
Self-employed workers ,	8,531	8,508	8,570	8,479	8,619	8,602	8,718	8,517	8,645	8.671	8,516		
Unpaid family workers	251	241	230	232	300	266	298	285	332	281	322	241	
PERSONS AT WORK PART TIME									į				
All industries:									İ				
Part time for economic reasons	5,341	5,192	5,097	4,963	5,061	5,321	5,097	4,981	4,968	5,143	4,837	4,957	4,750
Slack work	2,471	2,315	2,266	2,220	2,279	2,549	2,302	2,303	2,232	2,373	2,296		
Could only find part-time work		2,473	2,389	2,399	2,375	2,410	2,352	2,333	2,393	2,425	2,343	2,289	2,138
Voluntary part time	15,026	14,999	15,270	15,161	15,446	15,363	15,401	15,126		15,498	15,318	15,416	15,652
Nonagricultural industries:													
Part time for economic reasons	5,102	4,972	4,862	4,727	4,819	5.033	4,837	4.697	4,709	4,930	4,609	4,801	4,505
Slack work	2,334	2,171	2,102	2,095	2,116	2,377	2,144	2,105	2,048	2,243	2,102	2,190	2,185
Could only find part-time work	2,493	2,408	2.317	2,319	2.288	2,307	2,283	2,272	2.317	2.369	2,301	2,236	2,057
Voluntary part time	14,606	14.564	14.819	14,679	14,986	14,928	14,970	14,688	15,127	15,060	14,976	14,977	15,219

¹ Excludes persons "with a job but not at work" during the survey

period for such reasons as vacation, illness, or industrial dispute.

¹ The population figures are not adjusted for seasonal variation.
² Civilian employment as a percent of the civilian noninstitutional population.

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Employed civilians by sex and age, seasonally adjusted

(In thousands)

Own and and			19	88						1989			
Sex and age	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	115,034	115,203	115,370	115,573	115,947	116,009	116,711	116,853	117,136	117,113	117,215	117,541	117,459
16 to 24 years	20,137	20,123	20,050	19,930	19,877	19,852	19,741	19,797	19,996	19,899	19,784	19,959	19,796
16 to 19 years	6,895	6,872	6,856	6,781	6,835	6,795	6,748	6,703	6,783	6,812	6,726	6,786	6,687
16 to 17 years	2,700	2,671	2,669	2,689	2,770	2,686	2,602	2,563	2,639	2,639	2,593	2,526	2,439
18 to 19 years	4,182	4,148	4,195	4,090	4,045	4,150	4,125	4,163	4,186	4,177	4,123	4,221	4,244
20 to 24 years	13,242	13,251	13,194	13,149	13,042	13,057	12,993	13,095	13,213	13,088	13,059	13,173	13,109
25 years and over	94,979	95,145	95,332	95,619	96,062	96,151	96,988	97.020	97,125	97,167	97,384	97,602	97,740
25 to 54 years	80,456	80,608	80,697	80,950	81,242	81,399	82,036	82,160	82,165	82,204	82,436	82,721	82,852
55 years and over	14,514	14,583	14,664	14,690	14,790	14,771	14,924	14,803	14,933	14,928	14,948	14,863	14,912
Men, 16 years and over	63,429	63,402	63,475	63,450	63,532	63,521	63,790	64,051	64,399	64,246	64,202	64,609	64,462
16 to 24 years	10,441	10,475	10,401	10,303	10,379	10,288	10,198	10,377	10,530	10,385	10,243	10,412	10,303
16 to 19 years	3,532	3,563	3,496	3,446	3,533	3,472	3,370				3,403	3,515	
16 to 17 years	1,392	1,395	1,397	1,404	1,433	1,385	1,270	1,298	1,377	1,338	1,304	1,296	1,273
18 to 19 years	2,133	2,126	2,106	2,040	2,105	2,135	2,088	2,134	2,179	2,149	2.089	2,206	
20 to 24 years	6,909	6,912	6,905	6,857	6,846	6,816	6,828	6.962	7,000	6.896	6.839	6.897	
25 years and over	53,016		53,072	53,136	53,152	53,227	53,573	53,659	53,897	53,842	53,949	54,222	
25 to 54 years	44,509	44,471	44,577	44,669	44,712	44,779	45,001	45,091	45,278	45,163	45,398	45,619	45,644
55 years and over	8,524	8,514	8,502	8,482	8,436	8,470				8,643	8,543	8,589	, ,
Women, 16 years and over	51,605	51,801	51,895	52,123	52,415	52,488	52,921	52,802	52,737	52,866	53,013	52,932	52,997
16 to 24 years	9,696	9,648	9,649	9,627	9,498	9,564	9.543	9,420	9,466	9,515	9,541	9,547	9.493
16 to 19 years	3,363	3.309	3,360	3,335	3,302	3,323	3,378		3,253	3.323	3,322	3,271	3.147
16 to 17 years	1,308	1,276	1,272	1,285	1,337	1,301	1,332	1,265	1,262	1,301	1,289	1,230	-, -
18 to 19 years	2,049	2,022	2,089	2,050	1,940	2,015	2,037	2.029	2.007	2.028	2,034	2,015	
20 to 24 years	6,333	6,339	6,289	6,292	6,196	6,241	6,165	, ,		6,192	6,219	6,276	
25 years and over	41,963	42,162	42,260	42,483	42,910	42,924	43,415		43,228	43,325	43,434	43,379	
25 to 54 years	35,947	36,137	36,120		36,530		37,035				37,039	37,102	
55 years and over	5,990	6,069			6,354	6,301	6,361	6,267	6,331	6,285	6,404	6,274	

A-37. Unemployed persons by sex and age, seasonally adjusted

(In thousands)

			19	88						1989			
Sex and age	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	6,624	6,797	6,614	6,518	6,563	6,554	6,716	6,328	6,128	6,546	6,395	6,561	6,497
16 to 24 years	2,465	2,476	2,457	2,429	2,363	2,421	2,663	2,316	2,182	2,344	2,303	2,544	2,381
16 to 19 years	1,227	1,253	1,253	1,194	1,122	1,179	1,323	1,168	1,073	1,146	1,210	1,254	1,150
16 to 17 years	571	605	650	559	520	535	581	572	477	463	500	535	529
18 to 19 years	628	660	615	629	599	637	751	605	597	667	701	737	603
20 to 24 years	1,238	1,223	1,204	1,235	1,241	1,242	1,340	1,148	1,109	1,198	1,093	1,290	1,231
25 years and over	4,143	4,334	4,179	4,061	4,193	4,125	4,101	4,026	3,921	4,191	4,074	4,036	4,099
25 to 54 years	3,702	3,828	3,733	3,651	3,739	3,687	3,632	3,559	3,542	3,761	3,628	3,503	3,641
55 years and over	457	475	436	419	433	457	474	466	396	451	453	515	485
Men, 16 years and over	3,520	3,754	3,589	3,593	3,612	3,583	3,710	3,540	3,270	3,593	3,401	3,397	3,284
16 to 24 years	1,331	1,351	1,329	1,376	1,274	1,280	1,494	1,302	1,128	1,238	1,270	1,358	1,196
16 to 19 years	688	677	684	682	616	630	772	687	582	641	696	660	550
16 to 17 years	307	301	367	318	300	290	330	317	258	274	301	323	268
18 to 19 years	359	362	329	360	314	333	455	379	330	368	390	347	270
20 to 24 years	643	674	645	694	658	650	722	615	546	597	574	698	646
25 years and over	2,191	2,417	2,270	2,195	2,331	2,296	2,245	2,246	2,136	2,344	2,099	2,057	2,095
25 to 54 years	1,936	2,088	2,014	1,946	2,050	1,999	1,986	1,943	1,890	2,076	1,845	1,768	1,840
55 years and over	278	298	255	266	275	286	269	303	246	283	258	270	274
Women, 16 years and over	3,104	3,043	3,025	2,925	2,951	2,971	3,006	2,787	2,858	2,953	2,994	3,164	3,213
16 to 24 years	1,134	1,125	1,128	1,053	1,089	1,141	1,169	1,014	1,054	1,106	1,034	1,186	1,185
16 to 19 years	539	576	569	512	506	549	551	481	491	505	514	594	600
16 to 17 years	264	304	283	241	220	245	251	255	219	189	199	212	261
18 to 19 years	269	298	286	269	285	304	296	226	267	299	311	390	333
20 to 24 years	595	549	559	541	583	592	618	533	563	601	520		585
25 years and over	1,952	1,917	1.909	1,866	1,862	1,829	1,856	1,780	1.784	1.847	1.975		2.004
25 to 54 years	1,766	1,740	1,719	1,705	1,689	1,688	1,646		1,652	1,685	1.782		1,801
55 years and over	179	177	181	153	158	171	205	164	151	169	195		211

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

(Civilian workers)

			19	88						1989			
Sex and age	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 18 years and over	5.4	5.6	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3	5.2
16 to 24 years	10.9	11.0	10.9	10.9	10.6	10.9	11.9	10.5	9.8	10.5	10.4	11.3	10.7
16 to 19 years	15.1	15.4	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6	14.7
16 to 17 years	17.5	18.5	19.6	17.2	15.8	16.6	18.3	18.2	15.3	14.9	16.2	17.5	17.8
18 to 19 years	13.1	13.7	12.8	13.3	12.9	13.3	15.4	12.7	12.5	13.8	14.5	14.9	12.4
20 to 24 years	8.5	8.4	8.4	8.6	8.7	8.7	9.3	8.1	7.7	8.4	7.7	8.9	8.6
25 years and over	4.2	4.4	4.2	4.1	4.2	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0
25 to 54 years	4.4	4.5	4.4	4.3	4.4	4.3	4.2	4.2	4.1	4.4	4.2	4.1	4.2
55 years and over	3.1	3.2	2.9	2.8	2.8	3.0	3.1	3.1	2.6	2.9	2.9	3.3	3.1
Men, 16 years and over	5.3	5.6	5.4	5.4	5.4	5.3	5.5	5.2	4.8	5.3	5.0	5.0	4.8
16 to 24 years	11.3	11.4	11.3	11.8	10.9	11.1	12.8	11.1	9.7	10.7	11.0	11.5	10.4
16 to 19 years	18.3	16.0	16.4	16.5	14.8	15.4	18.6	16.7	14.2	15.5	17.0	15.8	13.4
16 to 17 years	18.1	17.7	20.8	18.5	17.3	17.3	20.6	19.6	15.8	17.0	18.8	20.0	17.4
18 to 19 years	14.4	14.5	13.5	15.0	13.0	13.5	17.9	15.1	13.2	14.6	15.7	13.6	10.7
20 to 24 years	8.5	8.9	8.5	9.2	8.8	8.7	9.6	8.1	7.2	8.0	7.7	9.2	8.7
25 years and over	4.0	4.4	4.1	4.0	4.2	4.1	4.0	4.0	3.8	4.2	3.7	3.7	3.7
25 to 54 years	4.2	4.5	4.3	4.2	4.4	4.3	4.2	4.1	4.0	4.4	3.9	3.7	3.9
55 years and over	3.2	3.4	2.9	3.0	3.2	3.3	3.0	3.4	2.8	3.2	2.9	3.0	3.1
Women, 16 years and over	5.7	5.5	5.5	5.3	5.3	5.4	5.4	5.0	5.1	5.3	5.3	5.8	5.7
16 to 24 years	10.5	10.4	10.5	9.9	10.3	10.7	10.9	9.7	10.0	10.4	9.8	11.0	11.1
16 to 19 years	13.8	14.8	14.5	13.3	13.3	14.2	14.0	12.8	13.1	13.2	13.4	15.4	16.0
16 to 17 years	16.8	19.2	18.2	15.8	14.1	15.8	15.9	16.8	14.8	12.7	13.4	14.7	18.3
18 to 19 years	11.6	12.8	12.0	11.6	12.8	13.1	12.7	10.0	11.7	12.8	13.3	16.2	14.4
20 to 24 years	8.6	8.0	8.2	7.9	8.6	8.7	9.1	8.0	8.3	8.9	7.7	8.6	8.4
25 years and over	4.4	4.3	4.3	4.2	4.2	4.1	4.1	3.9	4.0	4.1	4.4	4.4	4.4
25 to 54 years	4.7	4.6	4.5	4.5	4.4	4.4	4.3	4.2	4.3	4.4	4.6	4.5	4.6
55 years and over	2.9	2.8	2.9	2.4	2.4	2.6	3.1	2.5	2.3	2.6	3.0	3.8	3.2

A-39. Selected unemployment indicators, seasonally adjusted

(Unemployment rates)

Cotessor			19	88						1989			
Category	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTIC													
Total (all civilian workers)		5.6	5.4	5.3	5.4	5.3	5.4	5.1	5.0	5.3	5.2	5.3	5.2
Men, 20 years and over	4.5	4.9	4.6	4.6	4.8	4.7	4.6	4.5	4.2	4.6	4.3	4.3	4.3
Women, 20 years and over	5.0	4.8	4.8	4.7	4.7	4.7	4.7	4.5	4.6	4.7	4.8	4.9	5.0
Both sexes, 16 to 19 years	15.1	15.4	15.5	15.0	14.1	14.8	16.4	14.8	13.7	14.4	15.2	15.6	14.7
White	4.7	4.9	4.7	4.6	4.6	4.6	4.6	4.3	4.2	4.6	4.4	4.5	4.8
Black and other	10.1	10.0	9.5	9.8	10.0	10.0	10.6	10.6	9.8	9.6	9.5	10.3	9.6
Black	11.5	11.4	10.9	11.2	11.2	11.6	12.0	11.9	10.9	10.8	11.0	11.9	10.9
Hispanic origin	8.1	8.4	7.5	7.8	8.0	7.6	8.4	6.8	6.5	8.3	7.9	8.1	9.0
Married men, spouse present		3.4	3.1	3.1	3.3	3.1	3.1	3.1	2.9	3.2	2.9	2.8	2.9
Married women, spouse present		4.0	3.8	3.7	3.8	3.7	3.6	3.4	3.5	4.0	3.8	3.8	3.8
Women who maintain families	8.5	7.5	8.1	7.9	7.7	8.2	8.0	8.0	7.9	7.6	8.3	7.9	8.7
Full-time workers		5.3	5.1	5.0	5.0	5.1	5.0	4.8	4.8	5.0	4.8	4.8	4.9
Part-time workers	8.0	7.4	7.4	7.4	7.1	7.0	7.9	7.3	6.2	7.2	6.9	7.7	7.2
Unemployed 15 weeks and over¹ Labor force time lost²	1.3 6.4	1.3 6.4	1.3 6.3	1.3 6.1	1.2 6.2	1.2 6.3	1.2 6.2	1.1 5.9	1.1 5.8	1.2 6.0	1.1 5.9	1.0 6.1	1.2 6.0
INDUSTRY													
Nonagricultural private wage and salary workers	5.4	5.6	5.4	5.4	5.5	5.4	5.6	5.1	5.0	5.4	5.2	5.3	5.4
Goods-producing industries	6.3	6.7	6.4	6.4	6.4	8.4	6.4	6.1	5.8	6.0	5.8	6.2	6.2
Mining	5.4	7.0	8.6	8.8	8.9	7.7	6.1	8.0	7.0	5.6	4.5	3.7	5.5
Construction	10.4	10.7	9.6	10.0	10.6	10.4	10.4	10.0	9.4	9.7	9.3	10.0	10.5
Manufacturing	5.2	5.5	5.4	5.3	5.1	5.2	5.3	4.9	4.8	4.9	4.9	5.2	5.0
Durable goods	4.9	5.0	5.2	5.0	4.9	5.0	5.0	4.4	4.7	4.7	4.5	4.6	4.7
Nondurable goods	5.6	8.3	5.8	5.7	5.3	5.5	5.7	5.5	4.9	5.2	5.5	6.1	5.5
Service-producing industries		5.1	5.0	4.9	5.1	4.9	5.2	4.7	4.6	5.1	4.9	4.9	5.0
Transportation and public utilities		3.8	3.8	3.5	4.0	3.8	3.8	3.9	3.9	4.0	4.0	4.4	4.2
Wholesale and retail trade	6.2	6.4	6.2	6.0	6.2	6.3	6.3	5.6	5.6	5.9	5.5	6.0	6.2
Finance and service industries	4.5	4.4	4.4	4.5	4.6	4.1	4.7	4.3	4.1	4.8	4.7	4.3	4.4
Government workers	3.0	2.9	2.7	2.6	2.5	2.7	2.7	2.7	2.6	2.7	2.9	3.0	2.8
Agricultural wage and salary workers	11.0	11.0	10.8	10.2	9.3	8.8	9.5	8.9	8.9	10.5	10.3	11.0	8.5

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

Unemployment as a percent of the civilian labor force.
 Aggregate hours lost by the unemployed and persons on part time

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-40. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

			19	88						1989			
Weeks of unemployment	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
DURATION									_				
Less than 5 weeks	2,985	3,158	3,116	3,059	3,117	3,029	3,181	3,247	3,055	3,090	3,041	3,309	3,149
5 to 14 weeks	2,041	1,956	1,896	1,835	1,935	2,039	2,081	1,865	1,821	2,034	2,017	1,999	1,927
15 weeks and over	1,619	1,636	1,568	1,554	1,502	1,495	1,512	1,304	1,310	1,426	1,313	1,258	1,472
15 to 26 weeks	826	831	775	788	787	758	757	665	648	689	702	659	846
27 weeks and over	793	805	793	766	715	737	755	639	663	737	611	599	626
Average (mean) duration, in weeks	13.5	13.5	13.5	13.4	12.6	12.8	12.7	12.1	12.4	12.7	11.8	11.1	12.0
Median duration, in weeks	6.2	5.9	5.7	5.7	5.6	5.8	5.7	5.3	5.4	5.4	5.3	5.5	5.6
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	44.9	46.8	47.4	47.4	47.6	46.2	47.0	50.6	49.4	47.2	47.7	50.4	48.1
5 to 14 weeks	30.7	29.0	28.8	28.5	29.5	31.1	30.7	29.1	29.4	31.1	31.7	30.4	29.4
15 weeks and over	24.4	24.2	23.8	24.1	22.9	22.8	22.3	20.3	21.2	21.8	20.6	19.2	22.5
15 to 26 weeks	12.4	12.3	11.8	12.2	12.0	11.5	11.2	10.4	10.5	10.5	11.0	10.0	12.9
27 weeks and over	11.9	11.9	12.1	11.9	10.9	11.2	11.1	10.0	10.7	11.3	9.6	9.1	9.6

A-41. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

December for a manufacture and			19	88		_				1989			
Reasons for unemployment	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
NUMBER OF UNEMPLOYED											-		
Job losers	3,085	3,112	3,079	2,951	3,031	3,066	3,121	2,876	2.831	2.984	2,724	2,765	2.920
On layoff	853	680	833	844	814	819	827	774	808	847	790	806	822
Other job losers	2,232	2,232	2,246	2,107	2,217	2,247	2,294	2,102	2,023	2,137	1,934	1,958	2.097
Job leavers	923	986	985	984	963	998	985	985	885	978	1,114	1,023	1,010
Reentrants	1,883	1,843	1,767	1,747	1,766	1,725	1,835	1,740	1,730	1,894	1,852	2,051	1,934
New entrants	799	800	761	747	799	799	780	765	713	671	683	742	724
PERCENT DISTRIBUTION					}				į				
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	46.1	46.2	46.7	45.9	46.2	46.5	46.4	45.2	46.0	45.7	42.7	42.0	44.3
On layoff	12.8	13.1	12.6	13.1	12,4	12.4	12.3	12.2	13.1	13.0	12.4	12.3	12.5
Other job losers	33.4	33.1	34.1	32.8	33.8	34.1	34.1	33.0	32.8	32.7	30.3	29.8	31.8
Job leavers	13.8	14.6	14.9	15.3	14.7	15.1	14.7	15.5	14.4	15.0	17.5	15.5	15.3
Reentrants	28.1	27.3	26.8	27.2	26.9	26.2	27.3	27.3	28.1	29.0	29.1	31.2	29.4
New entrants	11.9	11.9	11.5	11.6	12.2	12.1	11.6	12.0	11.6	10.3	10.7	11.3	11.0
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								i		·			
Job losers	2.5	2.6	2.5	2.4	2.5	2.5	2.5	2.3	2.3	2.4	2.2	2.2	2.4
Job leavers	.8	.8	.8	.8	.8	.8	.8	.8	.7	.8	.9	.8	.8
Reentrants	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.5	1.5	1.7	1.6
New entrants	.7	.7	.6	.6	7.7	7.7	.6	.6	.6	5	.6	.6	

B-1. Employees on nonagricultural payrolls by major industry, 1937 to date

(In thousands)

				Goods	-producing					Sei	vice-produc	ing			
Year and	Total	Total						Transpor- tation	Whole-		Finance, insurance,		(Sovernmer	nt
month	. 3	private	Total	Mining	Construc- tion	Manufac- turing	Total	and public utilities	sale trade	Retail trade	and real estate	Services	Federal	State	Local
							Anr	ual average	es						
1937		27,255	12,936	1,015	1,127	10,794	18,075	3,134	(1)	()	1,417	3,503	(¹)	(¹)	(1)
1938 1939		25,311 26,608	11,401 12,297	891 854	1,070 1,165	9,440 10,278	17,793 18,306	2,863 2,936	(¹) 1,762	(¹) 4,664	1,410 1,447	3,458 3,502	(¹) 905	(¹)	(¹)
1940		28,159 31,877	13,221 15,963	925 957	1,311 1,814	10,985 13,192	19,140 20,574	3,038 3,274	1,835 1,960	4,914 5,251	1,485 1,525	3,665 3,905	996 1,340	(¹) (¹)	(1)
1942		34,624	18,470	992	2,198	15,280	21,636	3,460	1,906	5,212	1,509	4,066	2,213	8	(¹) (¹)
1943		36,356	20,114	925	1,587	17,602	22,320	3,647	1,822	5,160	1,481	4,130	2,905	(')	()
1944		35,822 34,431	19,328	892 836	1,108 1,147	17,328 15,524	22,536 22,867	3,829 3,906	1,845 1,949	5,214 5,365	1,461	4,145 4,222	2,928 2,808	(¹) (¹)	(f) (f)
1946		36,056	17,248	862	1,683	14,703	24,404	4,061	2,291	6,084	1,675	4,697	2,254	8	(6)
1947	43,857	38,382	18,509	955	2,009	15,545	25,348	4,166	2,471	6,485	1,728	5,025	1,892	(¹)	(¹)
1948 1949		39,216 37,897	18,774 17,565	994 930	2,198 2,194	15,582 14,441	26,092 26,189	4,189 4,001	2,605 2,602	6,667 6,662	1,800 1,828	5,181 5,240	1,863 1,908	(¹) (¹)	(¹)
1950		39,170	18,506	901	2,364	15,241	26,691	4,034	2,635	6,751	1,888	5,357	1,928	(¹)	(¹) (¹)
1951 1952		41,430 42,185	19,959 20,198	929 898	2,637 2,668	16,393 16,632	27,860 28,595	4,226 4,248	2,727 2,812	7,015 7,192	1,956 2,035	5,547 5,699	2,302 2,420	(¹) (¹)	(9)
1953	50,202	43,556	21,074	866	2,659	17,549	29,128	4,290	2,854	7,393	2,111	5,835	2,305	(¹)	(1)
1954		42,238	19,751	791	2,646	16,314	29,239	4,084	2,867	7,368	2,200	5,969	2,188	(1)	(1)
1955		43,727 45,091	20,513	792 822	2,839 3,039	16,882 17,243	30,128 31,266	4,141 4,244	2,926 3,018	7,610 7,840	2,298 2,389	6,240 6,497	2,187 2,209	1,168 1,250	3,558
1957		45,239	20,964	828	2,962	17,174	31,889	4,241	3,028	7,858	2,438	6,708	2,217	1,328	4,071
1958 1959 ²		43,483 45,186	19,513 20,411	751 732	2,817 3,004	15,945 16,675	31,811 32,857	3,976 4,011	2,980 3,082	7,770 8,045	2,481 2,549	6,765 7,087	2,191 2,233	1,415 1,484	4,232 4,366
1960		45,836	20,434	712	2,926	16,796	33,755	4,004	3,143	8,248	2,629	7,378	2,270	1,536	4,547
1961 1962		45,404 46,660	19,857 20,451	672 650	2,859 2,948	16,326 16,853	34,142 35,098	3,903 3,906	3,133 3,198	8,204 8,368	2,688 2,754	7,620 7,982	2,279 2,340	1,607 1,668	4,708 4,881
1963		47,429	20,431	635	3,010	16,995	36,013	3,903	3,248	8,530	2,830	8,277	2,358	1,747	5,121
1964	58,283	48,686	21,005	634	3,097	17,274	37,278	3,951	3,337	8,823	2,911	8,660	2,348	1,856	5,392
1965		50,689	21,926	632 627	3,232 3,317	18,062	38,839 40,743	4,036	3,466 3,597	9,250	2,977	9,036	2,378	1,996	5,700
1966 1967		53,116 54,413	23,158 23,308	613	3,248	19,214 19,447	42,495	4,158 4,268	3,689	9,648 9,917	3,058 3,185	9,498 10,045	2,564 2,719	2,141 2,302	6,080 6,371
1968 1969	67,897	56,058 58,189	23,737 24,361	606 619	3,350 3,575	19,781 20,167	44,160 46,023	4,318 4,442	3,779 3,907	10,320 10,798	3,337 3,512	10,567 11,169	2,737 2,758	2,442 2,533	6,660 6,904
1970		58,325	23,578	623	3,588	19,367	47,302	4,515	3,993	11,047	3,645	11,548	2,731	2,664	7,158
1971		58,331	22,935	609	3,704	18,623	48,278	4,476	4,001	11,351	3,772	11,797	2,696	2,747	7,437
1972 1973		60,341 63,058	23,668 24,893	628 642	3,889 4,097	19,151 20,154	50,007 51,897	4,541 4,656	4,113 4,277	11,836 12,329	3,908 4,046	12,276 12,857	2,684 2,663	2,859 2,923	7,790 8,146
1974		64,095	24.794	697	4,020	20,077	53,471	4,725	4,433	12,554	4,148	13,441	2,724	3,039	8,407
1975	. 76,945	62,259	22,600	752	3,525	18,323	54,345	4,542	4,415	12,645	4,165	13,892	2,748	3,179	8,758
1976 1977		64,511 67,344	23,352 24,346	779 813	3,576 3,851	18,997 19,682	56,030 58,125	4,582 4,713	4,546 4,708	13,209 13,808	4,271 4,467	14,551	2,733 2,727	3,273 3,377	8,865 9,023
1978		71,026	25,585	851	4,229	20,505	61,113	4,713	4,969	14,573	4,724	15,303 16,252	2,753	3,474	9,023
1979		73,876	26,461	958	4,463	21,040	63,363	5,136	5,204	14,989	4,975	17,112	2,773	3,541	9,633
1980	. 90,406	74,166	25,658	1,027	4,346	20,285	64,748	5,146	5,275	15,035	5,160	17,890	2,866	3,610	9,765
1981 1982		75,126 73,729	25,497 23,813	1,139 1,128	4,188 3,905	20,170 18,781	65,659 65,753	5,165 5,082	5,358 5,278	15,189 15,179	5,298 5,341	18,619 19,036	2,772 2,739	3,640 3,640	9,619 9,458
1983	. 90,200	74,330	23,334	952	3,948	18,434	66,866	4,954	5,268	15,613	5,468	19,694	2,774	3,662	9,434
1984	. 94,496	78,472	24,727	966	4,383	19,378	69,769	5,159	5,555	16,545	5,689	20,797	2,807	3,734	9,482
1985 1986		81,125 82,832	24,859 24,558	927 777	4,673 4,816	19,260 18,965	72,660 74,967	5,238 5,255	5,717 5,753	17,356 17,930	5,955 6,283	22,000 23,053	2,875 2,899	3,832 3,893	9,687 9,901
1987		85,190	24,708	717	4,967	19,024	77,492	5,372	5,844	18,483	6,547	24,236	2,943	3,967	10,100
1988	105,584	88,212	25,249	721	5,125	19,403	80,335	5,548	6,029	19,110	6,676	25,600	2,971	4,063	10,339
1988:			Γ			M	onthly data	, seasonall	y adjusted						
July	. 105,768	88,418	25,323	725	5,150	19,448	80,445	5,557	6,038	19,139	6,678	25,683	2,958	4,071	10,321
August	105,954	88,578	25,303	725	5,153	19,425	80,651	5,572	6,051	19,182	6,686	25,784	2,967	4,079	10,330
September		88,736	25,313	719	5,163	19,431	80,894	5,581	6,071	19,188	6,695	25,888	2,985	4,088	10,398
October November		88,991 89,299	25,384 25,460	717 712	5,162 5,191	19,505 19,557	81,091 81,364	5,596 5,616	6,086 6,104	19,229 19,282	6,710 6,726	25,986 26,111	2,986 2,983	4,081 4,085	10,417 10,457
December		89,574	25,513	711	5,213	19,589	81,584	5,634	6,125	19,328	6,744	26,230	2,981	4,085	10,457
1989:	107.116	00.007	05.000		E 007	10.010	01.010	5.55.	6.4.0	40.40 -	0.740	00.010		4.004	10.100
January February		89,897 90,124	25,626 25,629	711 711	5,267 5,270	19,648 19,648	81,816 82,082	5,654 5,667	6,146 6,171	19,407 19,460	6,746 6,763	26,318 26,434	2,978 2,982	4,084 4,095	10,483 10,510
March		90,291	25,646	714	5,252	19,680	82,242	5,666	6,197	19,488	6,774	26,520	2,982	4,102	10,513
				720	5,279	19,672	82,430	5,682	6,206	19,489	6,776	26,651	2,982	4,111	10,533
April		90,475	25,671												
	. 108,310	90,475 90,623 90,868	25,671 25,672 25,651	722 715	5,283 5,281	19,667 19,655	82,638 82,909	5,700 5,716	6,222 6,229	19,528 19,548	6,790 6,801	26,711 26,923	2,999 2,994	4,119 4,134	10,569 10,564

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1988) and all seasonally adjusted data (beginning January 1985) are subject to revision.

 $^{^1}$ Not available. 2 Data include Alaska and Hawaii beginning in 1959. This inclusion resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month. $^{\rm p}~=~{\rm preliminary}.$

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

B-2. Employees on nonagricultural payrolls by detailed industry

(In thousands)

	1972		All	employe	es			Produc	ction wor	kers¹	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989°	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989°
Total		106,459	105,560	108,745	109,484	108,507					
Total private		89,033	89,120	90,715	91,724	91,779	72,161	72,201	73,428	74,317	74,339
Mining		730	732	719	719	712	527	528	518	514	506
Metal mining	. 10	51.5	52.7	61.1	63.2		39.7	40.6	48.5	50.2	
Iron ores	1	8.3 13.3	8.4 13.4	9.3 14.0	9.6 14.1		6.8 10.3	6.8 10.4	7.6 11.1	7.9 11.2	
Coal mining							100 5	100.4	117.0	108.1	
Bituminous coal and lignite mining	. 12	150.7 148.6	150.0 148.0	144.0 141.8	134.2 132.0		122.5 120.7	122.4 120.7	117.9 116.0	106.1	
Oil and gas extraction	. 13	409.7	411.4	395.9	400.6	404.0	273.5	274.3	260.6	262.6	
Crude petroleum, natural gas, and natural gas liquids. Oil and gas field services		201.8 207.9	202.7 208.7	196.1 199.8	199.1 201.5	-	101.5 172.0	101.7 172.6	97.1 163.5	97.9 164.7	
Nonmetallic minerals, except fuels		117.9	118.3	118.3	120.9		90.9	91.1	91.0	92.9	
Crushed and broken stoneSand and gravel		43.0 37.7	43.2 37.9	42.7 37.2	43.5 38.5		34.1	34.2	34.0	34.6	
Chemical and fertilizer minerals		16.8	16.8	17.8	18.0						
Construction		5,341	5,451	5,325	5,492	5,626	4,207	4,311	4,152	4,305	4,424
General building contractors		1,423.0			1,431.0	1,465.5	1,053.3				-
Residential building construction Operative builders		768.0 49.8	773.8 50.0	748.1 45.3	776.7 46.3	-	557.2 23.7	563.9 23.4	529.7 20.0	556.5 20.5	-
Nonresidential building construction		605.2	619.8	590.5	608.0	_	472.4	485.3	454.7	470.2	_
Heavy construction contractors	. 16	821.2	833.0	822.8	848.4	_	695.3	705.5	688.7	712.3	_
Highway and street construction		291.1	294.1	265.4	281.5	-	246.4	248.8	219.5	235.2	-
Heavy construction, except highway	1	530.1	538.9	557.4	566.9	-	448.9	456.7	469.2	477.1	-
Special trade contractors		3,096.9	1 '	3,118.2	1 .	i -	2,458.4				-
Plumbing, heating, and air conditioning		662.1			680.2	-	490.2	506.0	495.8	503.5	-
Painting, paper hanging, and decorating		183.2			188.0	-	155.2	161.0	150.5	157.9	-
Electrical work		549.7		549.7	563.1	_	427.6	441.4	423.3	436.0 457.9	-
Masonry, stonework, and plastering		513.0 198.8		511.5 198.8	531.4 208.0	-	444.2 155.8	463.9 158.2	439.8 154.5	163.2	_
Carpentering and flooring Roofing and sheet metal work		214.7	ì	215.5	224.8		171.2	178.3	170.7	179.3	_
Manufacturing		19,510	19,364	19,619	19,761	19,577	13,336	13,179	13,390	13,492	13,316
Durable goods		11,497	11,415	11,587	11,629	11,490	7,683	7,591	7,738	7,760	7,624
Lumber and wood products		779.3	1	769.1	786.3	787.0	650.9	653.5	638.8	653.9	654.5
Logging camps and logging contractors	241	93.1	1	89.6	97.3	-	77.3	80.7	73.4	80.4	–
Sawmills and planing mills		205.6			211.6		181.0	182.0	182.4	185.1	
Sawmills and planing mills, general		167.1	168.8	169.1	172.1	-	147.0	149.0	148.0		
Hardwood dimension and flooring		35.0			35.9		31.0	29.8	31.3		-
Millwork, plywood, and structural members		275.8	1				227.6	228.4	222.2	226.7	-
Millwork		111.7	1		110.3		90.6	91.2	88.1	88.9	-
Wood kitchen cabinets		73.3		72.7	72.7	-	58.8	58.8	57.9	58.1	-
Hardwood veneer and plywood		24.5	1		24.9	-	21.5	21.0	21.6		
Softwood veneer and plywood		36.7		35.2	37.6	_	33.2	33.5	31.5	33.8	-
Wood buildings and mobile homes		45.1 72.4		43.8 70.0		-	38.5	37.8 55.3	37.2 53.3	37.2 53.9	-
Wood buildings and mobile homes Mobile homes		47.4			70.7 49.6		54.9 38.6	38.6°	40.2	40.4	_
Miscellaneous wood products		87.3			86.2	<u>-</u>	71.6	69.3	70.3		. <u>-</u>
Miscellatieous wood products	243	07.3	05.1	05.7	00.2	-	/ 1.0	09.3	/0.3	/ 0.0	_

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

(in thousands)

	1972		All	employe	es			Produ	ction wo	rkers¹	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Ourable goods—Continued											
Furniture and fixtures		527.2	519.0	531.3	531.4	522.9	420.3	412.1	423.8		415
Household furniture		306.6	297.6	310.0	307.9	-	259.2	250.5	262.0	1	-
Wood household furniture		138.2	132.6	137.7	137.2		120.9	115.3	120.4		l
Upholstered household furniture		100.1	98.4	101.7	102.4		83.9	82.6	85.1	85.8	
Metal household furniture		26.4	24.0	26.7	24.4		21.1	19.0	21.6		ſ
Mattresses and bedsprings		30.1	30.3	30.3	30.4		23.3	23.5	23.3		
Office furniture		70.5	70.9	69.4	70.2		53.1	53.3	51.9		i
Public building and related furniture		33.3	33.3	34.7	34.7		25.8	25.9	27.2		1
Partitions and fixtures Miscellaneous furniture and fixtures		79.2 37.6	79.6 37.6	79.2 38.0	80.3 38.3		57.1 25.1	57.3 25.1	57.0 25.7	58.0 25.9	
Stone, clay, and glass products	32	613.0	612.4	609.2	616.0	611.2	478.9	478.4	474.8	480.9	475
Flat glass		15.8	16.0	16.3	16.5	-	12.4	12.5	13.2		_
Glass and glassware, pressed or blown		87.2	85.4	84.3	84.6		7 5.7	73.9	72.9		
Glass containers		45.3	44.4	42.6	42.9		41.2	40.4	38.8	39.0	
Pressed and blown glass, nec		41.9	41.0	41.7	41.7		34.5	33.5	34.1	34.2	
Products of purchased glass		54.8	54.9	55. 5	56.3		41.0	41.6	42.6	43.3	
Cement, hydraulic	324	20.0	20.2	19.4	20.0		15.4	15.6	14.7	15.4	
Structural clay products	325	39.5	39.5	38.6	38.8		30.8	30.9	30.0	30.1	
Pottery and related products		37.8	37.4		38.7		30.4	29.9	30.6		
Concrete, gypsum, and plaster products		224.3	224.7	219.6	222.9		174.0	174.6	169.3	172.5	
Concrete block and brick		21.2	21.4	19.9	19.8		14.0	14.1	13.0	13.1	
Concrete products, nec		75.0	74.8	75.8	76.7		57.0	57.2	57.8	58.7	
Ready-mixed concrete		108.1	108.4	104.2	106.5		87.5	87.7	83.2	85.3	-
Misc. nonmetallic mineral products		119.6	120.4	121.4	122.3	-	88.2	88.6	89.2		-
Abrasive products		22.1	22.2	22.8	22.9	-	15.4	15.4	16.2	16.4	
Asbestos products		9.1 26.3	9.0 26.5	8.9 26.5	8.9 26.7	-	6.8 -	6.8 -	6.7 -	6.7	-
Primary metal industries	33	777.2	770.1	786.9	790.9	778.9	595.8	588.2	601.7	605.5	59:
Blast furnaces and basic steel products	331	279.0	279.2	275.5	277.9	275.3	216.7	216.8	212.7	214.8	21
Blast furnaces and steel mills		209.6	209.5	206.4	208.7	-	164.0	164.1	160.8	162.7	
Steel pipe and tubes		25.1	25.1	24.8	24.9	_	19.1	18.9	18.7	18.7	_
Iron and steel foundries		138.9	137.0	144.8	145.1	-	111.5	109.5	115.5	1	1
Gray iron foundries		85.9	83.9	87.6	88.1	-	70.4	68.3	71.9	72.3	
Malleable iron foundries	3322	9.6	9.1	9.8	9.3	-	7.1	6.8	7.4	7.4	
Steel foundries, nec	3325	28.6	29.2	31.3	31.5		22.4	22.8	24.6	24.9	ļ
Primary nonferrous metals	333	43.9	44.4	45.4	46.1	_	32.4	32.6	34.1	34.5	
Primary aluminum	3334	26.0	26.3	27.0	27.3		19.5	19.8	20.9	21.1	
Nonferrous rolling and drawing	335	181.3	177.6	182.1	182.9		130.4	126.6	130.8	131.3	ĺ
Copper rolling and drawing	3351	23.6	22.9	23.5	23.8		18.1	17.3	18.1	18.4	
Aluminum sheet, plate, and foil		28.1	28.0	!	28.0		19.6	19.4	19.1	18.7	
Nonferrous wire drawing and insulating		77.5	74.4	77.7	77.6		56.2	53.3	56.7	56.6	l .
Nonferrous foundries		88.7	86.9	91.7	91.8		71.3	69.6	73.4	73.6	
Aluminum foundries	3361	54.8	53.9	54.8	54.8		44.9	44.2	44.6	44.7	
Fabricated metal products		1,438.6			1,456.3	1,434.4	1,073.6	1,057.1	1,077.6		
Metal cans and shipping containers		53.7	53.4	52.8	54.0	-	46.1	45.9	45.4	1	
Metal cans		43.1	42.8	41.6	42.8		37.4	37.2	36.1	37.2	
Cutlery, hand tools, and hardware		140.5	137.8	135.9	135.2	-	104.6	101.4	100.3		
Hand and edge tools, and hand saws and blades		47.5	47.1	45.9	45.8		34.8	33.8	33.3		
Hardware, nec		82.0	79.9	78.8	78.1		62.2	60.3	59.3		
Plumbing and heating, except electric		59.7	60.0	60.0	60.6		43.1	43.4	43.4	44.0	l
Plumbing fittings and brass goods		24.9	24.8	25.9	26.2	-	18.1	18.0	19.3	19.5	
Heating equipment, except electric		21.3	21.8	21.4	21.8	-	14.6	15.1	14.4	14.8	-
Fabricated structural metal products		431.4	432.4	434.4	439.1	-	309.4	310.0	310.1	314.1	-
Fabricated structural metal		77.1	77.0	79.0	79.2	-	55.7	55.8	56.7	56.6	ı
Metal doors, sash, and trim	3442	85.8	86.3	83.5	84.4	-	63.4	63.7	60.9	61.6	
Fabricated plate work (boiler shops)		102.6	102.5	107.3	108.3	-	68.7	68.6	72.5		
Sheet metal work		99.8	100.3	99.2	100.7	-	75.1	75.3	74.3]	_
Architectural metal work	3440	32.6	32.5	33.1	33.2	-	24.1	24.0	23.9	24.1	-

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

	1972		All	employe	es	r		Produ	ction wor	kers1	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Durable goods—Continued											
Fabricated metal products—Continued											
Screw machine products, bolts, etc		100.6	98.7	101.4	101.5		77.0	75.4	77.3	77.5	
Screw machine products		50.1	49.1	50.2	49.9		41.1	40.4	40.8	40.7	
Bolts, nuts, rivets, and washers	ľ	50.5	49.6	51.2	51.6		35.9	35.0	36.5	36.8	
Metal forgings and stampings		230.8	223.5 30.9	236.6	233.9		184.9 24.7	177.3	189.2	186.3 25.5	
Iron and steel forgings Automotive stampings		32.1 103.6	98.2	33.4 106.3	33.1 104.2		88.2	23.6 82.4	25.7 90.0	25.5 87.5	
Metal stampings, nec		82.4	81.8	84.2	83.8		62.6	62.0	63.9	63.6	
Metal services, nec		122.4	119.0	130.0	130.5		98.2	94.9	103.4	103.8	
Plating and polishing		79.4	77.4	83.9	84.8		64.1	62.2	67.1	67.8	
Metal coating and allied services	3479	43.0	41.6	46.1	45.7		34.1	32.7	36.3	36.0	
Ordnance and accessories, nec		77.0	76.3	72.3	72.1		47.9	48.2	43.4	43.3	
Ammunition, except for small arms, nec		42.9	42.3	40.1	40.0	:	23.8	24.0	21.1	21.0	
Misc. fabricated metal products		222.5	221.0	227.6	229.4		162.4	160.6	165.1	166.2	
Valves and pipe fittings		75.2 54.2	75.8 53.5	78.5 55.6	79.2 56.2		50.7 41.6	51.1 40.7	52.7 42.6	53.1	
Misc. fabricated wire products	3496	54.2	53.5	55.6	56.2		41.6	40.7	42.6	43.0	
Machinery, except electrical		2,087.1			2,161.7	2,147.3	1,254.0				
Engines and turbines		93.2	93.0	98.2	97.8	_	61.9	61.6	64.8	64.0	1
Turbines and turbine generator sets Internal combustion engines, nec		24.6 68.6	24.7 68.3	27.7 70.5	28.3 69.5		14.3 47.6	14.4 47.2	16.3 48.5	16.6 47.4	
Farm and garden machinery		104.4	102.0	110.3	108.2	i	73.8	71.7	80.1	78.2	
Farm machinery and equipment		76.3	76.3	80.3	80.6		51.9	52.0	56.7	57.0	
Construction and related machinery		230.0	229.3	238.0	239.8		140.0	140.2	146.6	147.4	
Construction machinery		84.3	82.8	86.8	1		51.7	51.6	54.2	54.5	
Mining machinery	3532	16.5	16.5	16.7	16.8		10.1	10.1	10.4	10.4	
Oil field machinery		42.0	42.3	\$			25.2	25.6	25.1	25.0	
Conveyors and conveying equipment		34.7	35.3	36.2			18.7	18.9	19.9	20.2	
Industrial trucks and tractors		27.3	27.1	28.6			18.9	18.7	19.6	19.6	1
Metalworking machinery		312.6	312.0			l .	223.5	222.8	243.0	244.2	1
Machine tools, metal cutting types Machine tools, metal forming types		48.8 18.5	49.0 18.5	53.6 19.4	54.3 19.6		31.0 11.8	30.9 11.8	35.2 12.6	35.6 12.7	
Special dies, tools, jigs, and fixtures		146.9	146.8	157.5			112.4	112.3	121.5	121.9	
Machine tool accessories		57.8	57.6	Į.	62.2		40.8	40.8	44.1	44.4	
Power driven hand tools		22.6	22.2	23.7	23.9	1	16.4	16.0	17.0	17.1	
Special industry machinery	355	171.0	171.2	179.4	180.3		102.5	102.3	107.5	107.9	
Food products machinery		34.8	35.1	36.2	1	1	21.1	21.0	21.9	22.0	
Textile machinery		21.0	20.6	21.2	21.2		14.0	13.7	14.0	14.0	
Printing trades machinery		28.7	28.8	29.5	1		17.3	17.5	17.4	17.5	
General industrial machinery Pumps and pumping equipment		249.2	249.7 44.3	256.9 46.1	258.0 46.3		160.9 25.7	160.6 25.7	166.6 26.7	167.4 26.9	
Ball and roller bearings		42.7	42.2	43.9	1		33.2	32.6	34.4	34.5	
Air and gas compressors		22.7	22.7	22.6			13.3	13.2	12.8	13.1	
Blowers and fans	3564	30.8	30.8	31.5	31.8		19.7	19.8	21.1	21.4	
Speed changers, drives, and gears	3566	16.9	16.9		17.7		1 1 .6	11.7	12.2	12.3	
Power transmission equipment, nec		18.3	18.2	18.9			12.4	12.2	13.0	12.7	
Office and computing machines		474.9	475.6	475.2			155.7	154.2	154.6	155.2	
Electronic computing equipment		418.9	420.0	420.4	421.9		129.1	128.3	129.0	129.3	
Refrigeration and service machinery Refrigeration and heating equipment		186.8	185.9 129.8	189.6 132.7	191.6		134.8 96.7	134.3 96.4	137.0 99.0	138.8 100.6	
Misc. machinery, except electrical		265.0			271.3		200.9	199.9		206.1	
Carburetors, pistons, rings, and valves		31.0		30.3	1		24.8	23.8	24.1	23.7	
Machinery, except electrical, nec		234.0	234.0	240.4	241.3		176.1	176.1	181.9	182.4	
Electrical and electronic equipment	36	2 074 8	2,059.3	2,039.6	2 041 6	2,019.5	1,223.9	1,209.8	1,198.0	1,198.3	1,180.
Electrical and electronic equipment		105.9		107.2			75.8	76.0	75.6	75.5	
Transformers		52.5		53.2			37.8	38.2	38.0	37.8	
Switchgear and switchboard apparatus		53.4	53.1	54.0	[38.0	37.8	37.6		1
Electrical industrial apparatus		185.1	184.0	186.9			129.5	128.4	131.3	131.9	
Motors and generators	3621	91.4	90.3	91.1	91.6		71.6	70.9	71.8	72.3	
Industrial controls	1	59.4	59.3	60.9	t		34.8	34.4	36.4	36.2	i
Household appliances		138.2		137.5	1	1	110.6	109.3	109.9	109.5	1
Household refrigerators and freezers		29.2					24.0	23.8	23.4	23.2	
Household laundry equipment		22.8	22.9	21.5			18.5	18.7	17.2	17.9	1
Electric housewares and fans	3034	36.8	35.6	37.4	37.7		28.7	27.9	29.5	29.9	

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

(In thousands)

	1972		All	employe	es			Produ	ction wo	rkers¹	,
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989°	Jul 1989
Ourable goods—Continued											
Electrical and electronic equipment—Continued						1					
Electric lighting and wiring equipment	364	198.1	192.5	198.9	198.2		143.7	138.6	143.5	142.9	
Electric lamps	3641	27.1	26.2	26.5	26.3]	23.2	22.3	22.6	22.5	
Current-carrying wiring devices	3643	78.8	76.3	78.0	77.7		51.8	49.7	50.8	50.3	
Noncurrent-carrying wiring devices		16.2	15.3	16.9	17.0		12.0	11.1	12.6	12.7	
Residential lighting fixtures	3645	26.9		27.1	26.8	1	20.2	20.2	19.9	19.8	
Radio and TV receiving equipment		84.0	84.0	92.2	92.5		57.6	57.9	64.8		
Radio and TV receiving sets		61.6		68.4	68.7]	40.6	41.0	46.7	46.6	İ
Communication equipment		568.9		541.6	541.2		238.3	235.9	219.3	219.7	
Telephone and telegraph apparatus		111.9		103.7	103.5		66.8	66.0	62.3	1	ŀ
Radio and TV communication equipment		457.0		437.9	437.7	1	171.5	169.9	157.0	1	
Electronic components and accessories		639.3		619.9	621.9	1	359.1	356.8	344.5	345.1	
Electronic tubes		39.7		38.6	38.4		25.3	24.5	24.6	1	
Semiconductors and related devices		263.7		257.7	259.4		104.1	104.1	96.2		-
Electronic components, nec		258.4		250.0	250.5	1	172.7	171.5	169.3	169.8	
Misc. electrical equipment and supplies		155.3	1	155.4	155.9		109.3	106.9	109.1	109.1	
Storage batteries Engine electrical equipment		28.3 68.9		26.4 70.0	27.8 69.2		21.5 52.8	20.4 51.9	19.7 53.8	21.2 53.0	
Engine electrical equipment	3094	00.9	07.5	70.0	03.2		52.0	51.9	55.6	33.0	
Transportation equipment	37	2,060.0		2,078.0		2,027.8		1,257.0	1,303.4	1,289.7	1,2
Motor vehicles and equipment		863.2	1	879.4	868.1	832.9	672.9	655.3	684.8	673.5	
Motor vehicles and car bodies		359.0		369.1	362.2	-	269.2	258.0	277.2	270.2	
Truck and bus bodies		44.3		44.5	45.2	1	34.7	34.3	34.4	35.5	
Motor vehicle parts and accessories		408.6		414.6	411.1		328.3	321.8	332.6		l
Truck trailers		30.9		30.6	30.1		24.5	24.7	24.3	1	ļ
Aircraft and parts		695.2		700.0	703.6		337.7	335.7	341.8	342.7	
Aircraft		367.2		378.0	380.3		161.6	160.6	167.1	167.8	
Aircraft engines and engine parts		155.0		150.1	150.6		76.0	75.4	75.7	75.5	
Aircraft equipment, nec		173.0		171.9	172.7		100.1	99.7	99.0	,	
Ship and boat building and repairing		196.7		191.1	189.0]	149.4	139.2	143.1	139.9	
Ship building and repairing		124.0		120.8	121.1	i i	89.6	80.6	84.4	83.5	
Boat building and repairing		72.7		70.3	67.9	1	59.8	58.6	58.7	56.4 29.2	İ
Railroad equipment		31.6 211.6	,	38.7 207.3	39.3 207.0	1 1	23.1 61.9	23.6 62.5	28.8 62.8	62.6	
Guided missiles, space vehicles, and parts		154.1	154.7	152.3	152.2		42.1	42.6	42.4	42.1	
Miscellaneous transportation equipment		50.8	1 :	48.1	47.9		34.6	33.5	32.5	32.3	
Travel trailers and campers		21.4		19.4	19.4	1 1	16.8	16.5	15.1	15.1	
Instruments and related products	20	751.7	751.3	776.€	782.4	782.1	414.6	411.8	429.7	430.8	4
Engineering and scientific instruments	1	94.5		99.3	99.6		414.6	43.0	46.3	450.8	4
Measuring and controlling devices		260.6		270.1	272.0		149.1	148.7	155.5	1	İ
Environmental controls		48.3		49.6	50.2		31.6	31.7	33.3	33.7	ļ
Process control instruments		59.2		62.9	63.8		32.0	32.1	33.9	34.3	İ
Instruments to measure electricity		107.2		109.1	109.5		54.2	54.0	55.7	55.0	
Optical instruments and lenses		29.8		30.5	30.6		15.2	15.3	16.3		
Medical instruments and supplies		201.5		210.5	212.5	1	122.7	120.7	126.5		1
Surgical and medical instruments		99.6	100.0	104.9	105.7		58.0	57.2	61.2	61.2	
Surgical appliances and supplies		87.3		90.6	91.7		56.4	55.2	56.9	57.6	
Ophthalmic goods	1	39.7	39.1	39.3	39.7	1	27.1	26.5	26.9	27.3	
Photographic equipment and supplies		114.2	114.2	115.6	117.2		49.5	49.3	49.7	50.5	
Watches, clocks, and watchcases	387	11.4	11.2	11.3	10.8		8.4	8.3	8.5	8.0	
Miscellaneous manufacturing	39	388.2	380.5	391.4	394.4	379.3	283.8	275.9	283.5	287.2	2
Jewelry, silverware, and plated ware		53.4	50.6	53.7	53.8	-	37.5	34.9	38.1	38.4	
Jewelry, precious metal	3911	38.0		38.7	38.9		26.6	24.4	27.4	27.6	
Musical instruments	393	13.2	12.7	13.4	13.5		11.0	10.5	11.0	11.2	
Toys and sporting goods		104.4	104.4	105.2	106.6		78.1	77.7	77.0	78.5	
Dolls, games, toys, and children's vehicles		45.3	45.8	44.7	45.0		32.8	32.8	31.3	31.9	
Sporting and athletic goods, nec		59.1	58.6	60.5	61.6		45.3	44.9	45.7	46.6	
Pens, pencils, office, and art supplies		34.6		34.7	34.9	, ,	24.6	24.3	24.0	24.5	
Costume jewelry and notions		41.4	37.9	42.2	42.7		32.3	28.9	33.0	33.5	Ì
Costume jewelry		21.5	18.7	23.0	23.0		16.6	13.9	17.7	17.7	
Miscellaneous manufactures		141.2	140.7	142.2	142.9		100.3	99.6	100.4	101.1	
Signs and advertising displays	10000	61.1	61.4	61.9	61.9	1	42.2	42.5	42.3	42.5	

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

	1972	L	All	employe	es			Produ	ction wo	rkers ¹	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989°	July 1989°	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Nondurable goods		8,013	7,949	8,032	8,132	8,087	5,653	5,588	5,652	5,732	5,6
Food and kindred products		1,638.8	1,661.1	1,616.4	1,668.8	1,708.7	1,163.3	1,184.3	1,145.1	1,192.3	1,230
Meat products		401.4	404.1	413.8	421.5	-	340.2	342.4	350.7	357.7	-
Meat packing plants		140.1	140.8	143.1	143.9		117.2	117.6	119.6	1	1
Sausages and other prepared meats		81.2	80.9	82.8	84.2		59.8	59.8	60.8	62.0	1
Poultry dressing plants		157.7	159.8	164.7	170.1		143.3	144.8	149.6	154.6	
Dairy products		162.8	162.6	158.0	161.8		100.0	99.2	97.2	100.7	
Cheese, natural and processed		42.9 77.3	42.9 76.9	42.1	43.5 75.3		33.0 38.4	32.8 38.1	32.1 37.6	33.6 38.1	
Fluid milk Preserved fruits and vegetables		246.7	266.0	74.6 231.7	254.0	!	201.6		186.6		
Canned specialties		22.1	23.0	23.1	23.1		15.5	16.2	16.5		1
Canned fruits and vegetables		79.2	95.1	72.7	81.4		64.5	80.6	59.4	67.5	
Frozen fruits and vegetables		53.2	52.6	45.8	54.2	i i	47.0	46.4	39.4	47.9	
Grain mill products		125.0	124.9	124.7	127.4		86.4	86.7	87.0	89.1	
Flour and other grain mill products		21.9	22.0	22.0	22.7		15,1	15.3	15.0	_	1
Prepared feeds, nec		43.0	42.9	42.0	42.7		27.1	27.1	26.6		
Bakery products	205	203.4	203.2	200.4	203.5		124.0	123.8	122.5		
Bread, cake, and related products		158.4	158.0	156.2	158.1	1	89.4	89.0	89.2	90.7	
Cookies and crackers		45.0	45.2	44.2			34.6	34.8	33.3		
Sugar and confectionery products		91.6	90.8	91.7	92.9	1	71.1	70.4	70.1	71.0	
Cane and beet sugar		18.5	17.0	17.1	16.7		14.1	12.9	12.9		
Confectionery products		51.6	51.7	53.4	54.7	1	42.6	42.5	43.1	44.2	
Fats and oils		31.7	31.8	31.8	31.9		23.2	23.2	23.1	23.1	
Beverages		205.8	205.9	199.1	203.6		88.4	88.3			
Malt beverages		42.2	42.7	41.0	42.0		25.7	25.6			1
Bottled and canned soft drinks		118.2	119.0	113.0			40.1	40.6		1	
Misc. food and kindred products	209	170.4	171.8	165.2	172.2		128.4	129.3	123.1	129.7	
Tobacco manufactures	21	52.3	51.7	49.2			38.6	37.7	35.2		
Cigarettes	211	41.1	41.1	38.5	38.9	-	31.0	30.7	27.8	27.9	-
Textile mill products	22	734.7	717.3	728.5	733.1	717.8	636.9	621.4	630.3	634.4	619
Weaving mills, cotton	221	100.8	98.8	96.2	96.2	-	91.3	89.2	86.3	86.6	i) _
Weaving mills, synthetics	222	89.5	88.1	90.3	91.0		79.2	78.0	80.2	80.7	
Weaving and finishing mills, wool	223	19.1	18.3	19.7	19.6		15.7	14.8	16.0	15.9	
Narrow fabric mills		24.0	23.0	24.5	24.9		20.6	19.5	1		
Knitting mills		214.3	210.3	212.2	1	1	189.2	185.7	187.3		
Women's hosiery, except socks		33.9	32.9	33.5			31.1	30.1	30.2		
Hosiery, nec		36.7	36.4	37.0		1	33.0	32.8	1		
Knit outerwear mills		72.1	71.1	70.8	l .		64.2	63.5			
Knit underwear mills		26.4	26.0	25.1	25.4		22.3	21.9			
Circular knit fabric mills	I I	25.8 60.6	25.4 57.6	27.0 61.5			22.5 50.3	22.1 47.7	23.6 50.7	I .	
Textile finishing, except wool Finishing plants, cotton		25.3	l .	25.6			20.9	19.5			
Finishing plants, cotton		21.5		21.8			17.4	16.7			
Floor covering mills		60.4	59.8	61.6		1	48.7	48.5	1	51.3	
Yarn and thread mills		109.4	106.5	106.4	1		97.9				
Yarn mills, except wool		82.1	80.3	80.0			74.4	72.7		71.8	
Throwing and winding mills	2282	15.0	14.7	14.6	14.6		13.1	12.9			
Miscellaneous textile goods		56.6					44.0	1			
Apparel and other textile products	23	1,103.8	1,057.8	1,099.5	1,104.1	1,064.6	928.5	885.1	928.5	931.7	89
Men's and boys' suits and coats	231	59.0					51.0	1			
Men's and boys' furnishings		304.9					263.1	253.7	ſ	1	
Men's and boys' shirts and nightwear		77.7	1	75.1			66.7				
Men's and boys' separate trousers		51.1	1	1			44.5	1			
Men's and boys' work clothing		92.5					80.8		t .		
Women's and misses' outerwear		349.6	1	339.2	l .	1	291.6	l .	t .		
Women's and misses' blouses and waists		45.1					37.2				
Women's and misses' dresses		79.0	1		1		65.7	1			1
Women's and misses' suits and coats	2337	38.3					31.4				
Women's and misses' outerwear, nec	2220	187.2	175.0	182.4	180.2	1	157.3	146.2	153.8	152.3	el .

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

(In thousands)

Women's and children's underwear Brassieres and allied garments Children's outerwear Children's dresses and blouses Misc. apparel and accessories Misc. fabricated textile products Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	2342 236 2361 238 239 2391 2392 2396 26 261,2,6 262	72.0 58.0 14.0 59.2 22.8 43.4 198.3 25.6 51.9 42.3	July 1988 69.9 57.0 12.9 57.9 22.6 41.8 194.6 25.0 51.9	May 1989 70.4 56.4 14.0 56.8 22.5 44.5	June 1989 ^p 70.3 56.3 14.0 58.1 22.6	July 1989°	June 1988 59.4 49.7 9.7	July 1988 57.6 48.8	May 1989 58.3 48.5	June 1989 ^p 58.0	July 1989
Apparel and other textile products—Continued Women's and children's undergarments Women's and children's underwear Brassieres and allied garments Children's outerwear Children's dresses and blouses Misc. apparel and accessories Misc. fabricated textile products Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	2341 2342 236 2361 238 239 2391 2392 2396 26 261,2,6 262	58.0 14.0 59.2 22.8 43.4 198.3 25.6 51.9 42.3	57.0 12.9 57.9 22.6 41.8 194.6 25.0 51.9	56.4 14.0 56.8 22.5 44.5	56.3 14.0 58.1		49.7	48.8		58.0	
Apparel and other textile products—Continued Women's and children's undergarments Women's and children's underwear Brassieres and allied garments Children's outerwear Children's dresses and blouses Misc. apparel and accessories Misc. fabricated textile products Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	2341 2342 236 2361 238 239 2391 2392 2396 26 261,2,6 262	58.0 14.0 59.2 22.8 43.4 198.3 25.6 51.9 42.3	57.0 12.9 57.9 22.6 41.8 194.6 25.0 51.9	56.4 14.0 56.8 22.5 44.5	56.3 14.0 58.1		49.7	48.8		58.0	
Women's and children's underwear Brassieres and allied garments Children's outerwear Children's dresses and blouses Misc. apparel and accessories Misc. fabricated textile products Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	2341 2342 236 2361 238 239 2391 2392 2396 26 261,2,6 262	58.0 14.0 59.2 22.8 43.4 198.3 25.6 51.9 42.3	57.0 12.9 57.9 22.6 41.8 194.6 25.0 51.9	56.4 14.0 56.8 22.5 44.5	56.3 14.0 58.1		49.7	48.8		58.0	1
Brassieres and allied garments Children's outerwear Children's dresses and blouses Misc. apparel and accessories Misc. fabricated textile products Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	2342 236 2361 238 239 2391 2392 2396 26 261,2,6 262	14.0 59.2 22.8 43.4 198.3 25.6 51.9 42.3	12.9 57.9 22.6 41.8 194.6 25.0 51.9	14.0 56.8 22.5 44.5	14.0 58.1				48.5		
Children's outerwear Children's dresses and blouses Misc. apparel and accessories Misc. fabricated textile products Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Folding paperboard boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	236 2361 238 239 2391 2392 2396 26 261,2,6 262	59.2 22.8 43.4 198.3 25.6 51.9 42.3	57.9 22.6 41.8 194.6 25.0 51.9	56.8 22.5 44.5	58.1		9.7	0.0		48.3	
Children's dresses and blouses Misc. apparel and accessories Misc. fabricated textile products Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	2361 238 239 2391 2392 2396 26 261,2,6 262	22.8 43.4 198.3 25.6 51.9 42.3	22.6 41.8 194.6 25.0 51.9	22.5 44.5				8.8	9.8	9.7	
Misc. apparel and accessories Misc. fabricated textile products Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	238 239 2391 2392 2396 26 261,2,6 262	43.4 198.3 25.6 51.9 42.3	41.8 194.6 25.0 51.9	44.5	22.6	1	50.0	48.7	47.8	48.9	
Misc. fabricated textile products Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	239 2391 2392 2396 26 261,2,6 262	198.3 25.6 51.9 42.3	194.6 25.0 51.9				20.0	19.7	19.6	19.7	
Curtains and draperies House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	2391 2392 2396 26 261,2,6 262	25.6 51.9 42.3	25.0 51.9		45.0		35.9	34.2	36.9	37.1	
House furnishings, nec Automotive and apparel trimmings Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	2392 2396 26 261,2,6 262	51.9 42.3	51.9	210.7	211.2		163.7	159.7	175.8	175.9	
Automotive and apparel trimmings	2396 26 261,2,6 262	42.3		26.3	26.8		21.0	20.5	21.9	22.4	
Paper and allied products Paper and pulp mills Paper mills, except building paper Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books	26 261,2,6 262			55.6 44.6	55.5 44.4		44.0	43.6	46.8	46.6 37.6	
Paper and pulp mills	261,2,6 262	700	40.7	44.0	44.4		35.2	33.4	37.9	37.6)
Paper mills, except building paper	262	700.8	696.4	694.6	703.9	700.2	530.8	526.7	523.1	530.7	52
Paperboard mills Misc. converted paper products Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books		198.3	197.5	193.3	197.0	-	151.6	150.8	147.0	150.3	
Misc. converted paper products		176.7	176.1	173.0	176.5		134.4	133.8	131.0	134.0	
Paper coating and glazing Envelopes Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books		53.6	53.7	52.6	53.8		40.6	40.9	40.3	41.3	
Envelopes		240.5	239.6	238.5	241.0		176.6	175.6	173.2	174.7	
Bags, except textile bags Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books		60.3	61.0	59.8	61.7		37.1	37.3	34.4	35.7	1
Paperboard containers and boxes Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books		27.2	26.5	26.8	26.7		20.8	20.3	20.8	20.7	
Folding paperboard boxes Corrugated and solid fiber boxes Sanitary food containers Printing and publishing Newspapers Periodicals Books		52.7 208.4	52.3 205.6	52.8 210.2	53.1		41.3 162.0	40.9 159.4	41.2	41.3 164.4	1
Corrugated and solid fiber boxes Sanitary food containers Supersolution Supersolution Supersolution Supersolution Supersolution Supersolution Supersolution Supersolution Supersolution Supersolution Supersolution Supersol		46.0	45.2	46.7	212.1 46.9		36.6	35.8	162.6 37.3	37.4	
Sanitary food containers		112.7	111.6	113.7	114.6		84.9	83.9	85.3	86.2	
Newspapers 2 Periodicals 2 Books 2		23.2	23.4	22.6	23.1		19.9	20.0	19.0	19.5	1
Newspapers 2 Periodicals 2 Books 2	27	1,562.3	1,560.7	1,601.8	1,612.6	1.607.9	873.8	869.0	892.0	895.3	89
Periodicals		476.4	475.2	475.4	479.4		170.9	170.3	167.9	168.5	
Books		128.9	130.0	134.6	135.7		46.2	46.2	47.9	47.9	1
		116.7	116.2	123.0	123.2		63.1	62.0	65.6	65.5	
Book publishing		86.3	85.9	91.1	90.9		38.7	37.7	40.2	39.8	
Book printing		30.4	30.3	31.9	32.3		24.4	24.3	25.4	25.7	
Miscellaneous publishing2	274	79.5	79.3	82.3	82.8		41.0	40.1	42.1	42.0	
Commercial printing	275	553.3	551.4	571.8	574.2		403.6	400.9	415.6	416.4	
Commercial printing, letterpress		170.2	169.9	176.6	178.0		122.1	121.4	127.1	127.8	
Commercial printing, lithographic		356.2	355.2	367.1	368.3		259.9	258.7	265.9	266.1	
Manifold business forms		49.2	49.1	49.1	49.3		33.7	33.5	33.3	33.4	
Blankbooks and bookbinding		76.9 57.4	77.4 57.7	80.7 60.5	81.9 61.2		61.1 42.3	61.0 42.6	62.8 44.3	63.9 44.9	
•						4 404 0				ĺ	
Chemicals and allied products		1,073.5		1,092.2	1,103.4	1,101.9	602.4	601.1	612.5	622.1	61
Industrial inorganic chemicals		133.9	134.2 90.9	134.5 90.5	135.4 91.0	-	67.6	67.6	68.9	69.7 48.3	-
Industrial inorganic chemicals, nec		91.0 179.1	179.6	186.3	188.9		49.2 117.1	49.1 117.7	48.1 122.2	123.7	
Plastics materials and resins		83.7	84.1	86.5	88.2		49.2	49.7	51.3	51.9	
Organic fibers, noncellulosic		66.9	66.9	70.4	71.1		47.4	47.5	50.1	50.8	
Drugs		232.4	233.4	240.1	243.2		102.7	102.7	104.2	108.1	
Pharmaceutical preparations		191.6	191.7	197.8	200.3		83.1	82.9	85.5	89.3	-
Soap, cleaners, and toilet goods		161.9	161.3	162.4	164.4		105.4	104.0	103.2	104.8	ĺ
Soap and other detergents2		44.4	44.5	43.6	44.3		27.8	27.8	27.3	27.7	ĺ
Polishing, sanitation, and finishing preparations 2		43.9	43.8	46.3	46.1		25.4	24.9	26.5	26.1	1
Toilet preparations		73.6	73.0	72.5	74.0		52.2	51.3	49.4	51.0	
Paints and allied products		64.5	65.1	63.3	63.9		32.2	32.6	31.8	32.7	1
Industrial organic chemicals		146.6	147.6	149.5	151.0		84.8	85.3	87.5	88.2	
Cyclic crudes and intermediates		30.0	30.1	30.6	30.8		18.5	18.5	18.9	18.9	1
Gum, wood, and industrial organic chemicals, nec 2		116.6	117.5	118.9	120.2		66.3	66.8	68.6	69.3	
Agricultural chemicals		53.0 102.1	51.5 101.9	54.8 101.3	54.3 102.3		33.9 58.7	32.7 58.5	34.6 60.1	33.9 61.0	1
Petroleum and coal products	29	164.6	165.3	162.9	165.6	166.0	107.7				11
Petroleum and coal products		4		102.9	(00.01		111///	100 1	106 E		
Paving and roofing materials		123.2	123.8	121.9	123.7	166.2	107.7 78.6	108.1 79.0	106.5 77.5	109.5 79.6	

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

	1972		All	employe	es			Produc	ction wor	kers1	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989°
Nondurable goods—Continued									,		
Rubber and misc. plastics products	30	835.7	825.9	844.3	847.4	833.8	650.4	640.9	661.0	661.8	649.
Tires and inner tubes		84.6	84.8	85.3	86.0	-	61.0	61.6	64.2	65.2	_
Rubber and plastics footwear	302	12.0	11.2	10.9	11.0		9.9	9.0	8.9	9.0	
Reclaimed rubber, and rubber and plastics hose								İ			
and belting	303,4	26.2	26.4	27.7	28.0	.	19.5	19.6	20.9	20.9	
Fabricated rubber products, nec	306	101.5	100.3	100.7	100.6		78.5	77.1	77.7	77.4	
Miscellaneous plastics products	307	611.4	603.2	619.7	621.8		481.5	473.6	489.3	489.3	
Leather and leather products	31	146.2	138.4	142.2	143.5	136.4	120.6	113.4	117.9	119.2	112.
Leather tanning and finishing		13.7	12.7	14.4	14.5	-	11.4	10.5	12.1	12.3	-
Footwear, except rubber	314	85.3	79.8	80.6	81.7	ļ	72.6	67.4	68.8	69.7	
Men's footwear, except athletic	3143	37.5	35.3	35.5	36.0		30.1	28.1	28.9	29.3	
Women's footwear, except athletic	3144	29.6	28.4	27.8	28.1		26.1	24.9	24.6		ļ
Luggage	316	11.3	10.8	11.8	12.1	i l	7.9	7.6	8.5	8.8	
Handbags and personal leather goods	317	16.9	16.7	16.1	15.8		13.1	12.9	12.5	12.4	
ransportation and public utilities		5,579	5,561	5,699	5,754	5,740	4,636	4,616	4,752	4,801	4,78
Transportation		3,349	3,322	3,487	3,525	3,503					
Railroad transportation	40	305.0	304.0	299.1	300.2						
Class I railroads ²	4011	264.4	263.3								
Land and intervenen passanger transit	44	212.1	266.1	344.0	328.3		288.5	041.4	216.4	300.6	
Local and interurban passenger transit		313.1				1		241.4	316.4	1	
Local and suburban transportation		119.8	119.5	129.5			109.5		118.0	117.9	
Taxicabs		35.4	35.5	34.8				- 00 4	- 00 5		
Intercity highway transportation		29.0	29.3	29.6		1	26.0	26.4	26.5	26.9	
School buses	415	101.0	54.7	117.8	101.9		_	_	_	_	
Trucking and warehousing	42	1,569.5						1,378.8			
Trucking and trucking terminals		1,460.8					1,277.2				
Public warehousing	422	108.7	109.1	117.2	118.6		91.0	91.1	98.0	98.7	
Water transportation	44	180.3	184.7	181.3	184.7						
Local water transportation		29.7	31.0	30.1	32.4						
Water transportation services		98.7	101.2	101.1	100.8						
Transportation by air	45	645.3	649.8	668.0	679.4						
Air transportation		558.2	562.6	573.0	4						
Air transportation services		87.1	87.2	95.0							
Pipe lines, except natural gas	46	18.8	19.1	18.4	19.3		13.1	13.4	13.0	13.8	
Transportation services	47	217.1	210.7	220.2	343.6						
Freight forwarding		317.1 69.0	318.7 70.3	339.3 75.0	75.4						
Treight for warding		03.0	70.5	75.0	75.4						
Communication and public utilities		2,230		2,212	2,229	2,237	_	_	_	-	1
Communication	48	1,286.6	1,291.6	1,279.3	1,284.7	-	971.9	975.2	974.1	981.0	
Telephone communication	481	902.8				1	663.1	664.4	654.1	659.4	
Radio and television broadcasting	483	239.3	240.2	244.5	245.4		196.9	197.6	202.1	203.1	
Radio broadcasting	4832	119.2	120.4	121.8	122.5		_	_	_	-	ĺ
Television broadcasting	4833	120.1	119.8	122.7	122.9						
Electric, gas, and sanitary services	49	943.4	946.9	933.0	944.4		748.0	751.2	736.5	746.4	
Electric services	491	457.6		449.5	1		349.7	350.3	343.9		1
Gas production and distribution		167.5			1		133.0	134.0	130.5		1
Combination utility services		195.8	1	193.1		l .	161.0		156.7		
Sanitary services		93.5		94.8			81.2		82.3		
Nholesale trade		6,062	6,077	6,217	6,265	6,276	4,891	4,906	5,007	5,049	5,05
Durable goods	50	3,579	3,590	3,685	3,711	3,718	2,861	2,872	2,945	2,967	
Motor vehicles and automotive equipment		435.1	436.0				349.2		354.0		
Automobiles and other motor vehicles		120.3		1	I .	1			- 554.0	_	
Automotive parts and supplies		284.5									_
parte parte and cappillos						1		ļ	1		-

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

(In thousands)

	1972		Al	employe	es			Produ	ction wo	rkers ¹	T
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ⁹	July 1989°
Wholesale trade—Continued											
Durable goods—Continued											l
Furniture and home furnishings		152.2	E .	154.9	1	I .	122.7	122.4	125.2	126.1	}
Furniture		70.7	1	72.3			-	-	-		
Home furnishings		81.5	1	82.6	1		-	400 5	-	-	
Lumber and construction materials		229.4	1	235.7	1	1	188.1	189.5	193.5	197.0	
Lumber, plywood, and millwork Construction materials, nec		119.4 110.0	l .		123.7 116.0		_	_	_	_	
Sporting goods, toys, and hobby goods		89.6					73.7	73.5	78.1	79.9	i
Metals and minerals, except petroleum		140.6			1	I .	111.4	l .	116.1	115.8	
Electrical goods		503.8					386.3		398.3	398.5	
Electrical apparatus and equipment		261.3		1	1		-	-	_	_	
Electrical appliances, TV and radios		66.5	1		1						
Electronic parts and equipment		176.0	176.3	180.3	181.0		_	-	_	_	
Hardware, plumbing, and heating equipment	507	280.7	281.0	284.5	285.8		227.1	227.2	230.3	232.1	
Hardware	5072	98.8	98.8	98.1			-	-	-	-	
Plumbing and hydronic heating supplies		113.7	1	117.9			-	-	-	-	l
Machinery, equipment, and supplies		1,524.6					1,221.4	1,226.2	1,259.2	1,267.8	
Commercial machines and equipment		548.7	549.6	1			-	-	-	-	
Construction and mining machinery		81.8	1			1					
Farm machinery and equipment		121.3					-	ľ			ļ
Industrial machinery and equipment		335.4	1		1	1					
Industrial supplies		138.2						ļ			
Professional equipment and supplies		173.8				1	400.0	400.0	400.7	100.0	
Miscellaneous durable goods		223.3	1	1		1	180.6	180.8	190.7	193.9	
Scrap and waste materials	5093	104.3	104.4	112.1	114.0		_	_	-	_	
Nondurable goods	51	2,483	2,487	2,532	2,554	2,558	2,030	2,034	2,062	2,082	
Paper and paper products		220.1					178.4		182.4	184.3	
Drugs, proprietaries, and sundries		180.2		186.6		1	151.0	I	156.5	158.0	
Apparel, piece goods, and notions		191.6	1	198.3	1	1	147.2		153.1	154.9	
Groceries and related products		830.5	1	,	1		705.4	706.5	704.4	713.9	
Groceries, general line		262.2					_	-	_	-	
Meats and meat products	5147	65.3	65.7	66.8	67.7	ļ					
Fresh fruits and vegetables	5148	107.4	106.7	103.6	105.8	-	_	_	-	-	
Chemicals and allied products		126.8					94.3		94.7	96.3	
Petroleum and petroleum products		202.7	204.4	208.2			158.9	160.4	162.8	165.2	
Petroleum bulk stations and terminals		84.1	85.3	87.5	1		-	-	-	-	
Petroleum products, nec		118.6		120.7	*		-	-		-	
Beer, wine, and distilled beverages		153.3	154.9	152.7	156.3		126.3	128.0	125.1	128.0	
Beer and ale		98.3	1	97.3	1	1	-	_	_	_	
Wines and distilled beverages		55.0		55.4			267.5			206.2	
Miscellaneous nondurable goods Farm supplies		452.8 154.1	450.9 153.7	474.3 166.5	1	1	367.5	366.7	385.8	386.2	
.,							-	-			
Retail trade		19,263	19,240	19,528	19,724	19,698	17,080	17,053	17,280	17,466	17,44
Building materials and garden supplies		807.3		789.5			672.5		656.3	663.2	
Lumber and other building materials		448.4	448.9	431.7	438.9		378.7	378.9	364.4	371.4	
Hardware stores	525	164.7	164.4	168.7	171.2	-	137.2	136.8	139.8	141.9	
General merchandise stores	53	2,399.5	2,398.9	2,416.3	2,430.5	2,430.8	2,220.4	2,216.6	2,231.1	2,251.5	
Department stores		1,985.8	1,984.5	1,994.8	2,008.6	-	1,850.1	1,845.6	1,852.5	1,872.1	
Variety stores		237.8	i .	234.9	1		217.0	217.2	215.3	214.8	
Misc. general merchandise stores	539	175.9	176.7	186.6	187.8		153.3	153.8	163.3	164.6	
Food stores	54	3,099.8	3,118.9	3,228.5	3,271.6	3,291.0	2,851.3	2,869.2	2,971.2	3,011.8	
Grocery stores		2,743.1				-		2,555.7		2,672.7	
Meat markets and freezer provisioners		54.7	55.1	57.5	1		-	-	_	_	
Dairy products stores	545	27.8	28.3	32.3	34.9	}	-	-	_	-	
Retail bakeries	546	173.5	171.8	175.7	178.5		156.8	155.3	158.1	160.8	
Automotive dealers and service stations	55	2,103.0	2,123.4	2,162.9	2,175.5	2,184.6	1,760.1	1,778.5	1,809.1	1,818.9	
New and used car dealers	551,2	1,027.1		1,045.4		-	852.5	,	868.4	868.4	
Auto and home supply stores		335.4			358.1	-	271.8	275.6	283.2	287.5	
Gasoline service stations		632.2	637.1	643.3	646.7		548.3	553.8	559.7	562.2	

ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

	1972		All	employe	es			Produ	ction wor	'kers'	,
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989°	July 1989°	June 1988	July 1988	May 1989	June 1989°	July 1989
letail trade—Continued											
Apparel and accessory stores	. 56	1,156.5	1,156.4	1,170.6	1,184.8	-	978.8	978.2	981.4	994.1	-
Men's and boys' clothing and furnishings	. 561	107.9	107.1	105.8	105.6	-	87.9	87.1	85.1	85.0	-
Women's ready-to-wear stores	. 562	409.1	407.4	416.5	419.6		345.3	342.9	348.4	350.8	-
Family clothing stores		273.0	275.7	270.7	279.6	_	238.1	240.6	233.3	241.5	-
Shoe stores		220.1	219.9	229.3	229.5	-	183.3	183.4	189.3	189.7	-
Furniture and home furnishings stores	. 57	795.0	794.2	802.6	803.4	_	651.4	650.1	656.9	657.8	
Furniture and home furnishings stores	. 571	459.8	461.2	470.2	473.5		374.6	375.7	383.0	384.7	
Furniture stores	. 5712	283.0	283.4	290.1	291.7		-	_	-	-	
Household appliance stores	. 572	89.0	86.2	77.3	77.9		75.4	72.6	64.4	65.1	-
Radio, television, and music stores	. 573	246.2	246.8	255.1	252.0	-	201.4	201.8	209.5	208.0	
Radio and television stores	. 5732	172.8	173.7	177.2	175.9		-	_	-	_	-
Music stores		73.4	73.1	77.9	76.1				-	-	-
Eating and drinking places	58	6,493.1	6,446.8	6,462.2	6,572.0	6,535.4	5,923.4	5,880.5	5,880.6	5,983.6	-
Miscellaneous retail	59	2,408.9	2,402.8	2,495.5	2,489.0	_	2,021.7	2,015.9	2,093.1	2,084.8	
Drug stores and proprietary stores		594.3			605.3	-	507.0	503.5	510.8	513.4	١.
Liquor stores	. 592	123.6	122.7	124.0	126.1	-	-	-	_	-	١ .
Miscellaneous shopping goods stores	. 594	835.8	841.9	873,1	882.6	_	696.5	701.7	725.9	734.4	
Sporting goods and bicycle shops	. 5941	147.4	149.8	158.6	160.3	-	-	-	-	-	
Book stores		81.7	81.0	90.5	87.8	-	_	_	_	_	١.
Stationery stores		82.0	82.1	85.1	85.0	1	_	_		_	١.
Jewelry stores		152.2	153.5	160.4	160.9		_	_			ĺ.
Gift, novelty, and souvenir shops		185.8	188.2	186.4			_	_			Ι.
Sewing, needlework, and piece goods		62.0	60.8	64.2	64.0	1	_		_		
Nonstore retailers		283.8	280.6		258.4	ł	254.0	251.0	230.7	228.3	
	1	140.1	139.5	127.7	125.8	1	254.0	251.0	230.7	220.3	-
Mail order houses		86.7	85.3	85.7	85.5			_	_	_	'
Merchandising machine operators		1	1								-
Fuel and ice dealersRetail stores, nec	1	107.4 385.5	107.3 380.0	115.5 435.3	115.4 414.9	1	89.1 310.4	88.8 306.0	95.9 360.4	95.7 340.2	-
inance, insurance, and real estate ³		6,739	6,773	6,790	6,871	6,910	4,905	4,937	4,913	4,988	5,0
Finance		3,308	3,317	3,313	3,341	3,355	-	_	-	-	-
Banking	60	1.747.5	1,753.0	1,762.2	1,783.6	_	1.250.6	1,254.4	1.251.9	1.272.4	١.
Commercial and stock savings banks		1.567.4				1		1,121.5			1 -
State banks, Federal Reserve		317.0		314.2				1,121.0	1,100.0	1,120.0	
State banks, not Federal Reserve		363.7	364.7	365.2	370.7	1	_	_	_	_	
Mutual savings banks		80.3		80.1	81.2		-	-	-	-	:
Credit agencies other than banks	61	901.3	903.0	904.4	910.0	_	672.0	675.6	675.4	681.1	
Savings and loan associations		403.9	403.9	402.7	405.9	_	306.8		305.0	307.2	
Federal savings and loan associations		232.5		233.0	234.4		_	_	_	_	
State associations, insured		166.0	1	164.5	166.2	1	_	_	_	_	
Personal credit institutions		255.5		265.3	266.8	1	198.0	198.7	206.0	207.4	١.
Business credit institutions		57.5		65.9	67.1		_	-			١.
Mortgage bankers and brokers	1	160.5		148.4	148.1	-	-	_	-	-	-
Security, commodity brokers, and services	62	451.9	451.9	436.2	434.7	_	_	_	-	-	.
Security brokers and dealers		356.0	355.3	338.4	336.0	-	-	-	-	-	•
Holding and other investment offices	67	206.8	209.2	209.8	212.7	-	-	-	-	-	-
Insurance		2,087	2,094	2,123	2,134	2,142	_	-	-	-	.
Insurance carriers		1,445.9	1,450.1	1,463.9	1,472.1	-	969.0	972.0		977.9	.
Life insurance		578.1	579.2	575.8	577.9	-	348.0	349.4	344.0	347.5	•
Medical service and health insurance	632	217.8		232.1	233.8	-	175.9	177.1	187.8	188.9	.
Fire, marine, and casualty insurance	633	541.9	543.3	545.0	548.5	-	363.0	363.0	354.8	356.4	
Title insurance		58.5	59.0	58.4	58.7	-	-	-	-	-	
Insurance agents, brokers, and service	64	640.6	643.8	659.3	662.0	_	_	_	_	_	!

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

(In thousands)

	1972		All	employe	es			Produ	iction wo	rkers¹	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989°	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Finance, insurance, and real estate—Continued Real estate, and combined real estate, insurance, etc		1,344	1,362	1,354	1,396	1,413					
near estate, and combined real estate, insurance, etc	•	1,344	1,302	1,354	1,390	1,413					1
Real estate		1,334.0									
Real estate operators and lessors		575.7	581.2	581.7	601.5			1	1		1
Real estate agents and managers Subdividers and developers		550.4 176.3	559.8 179.8		561.9 191.0		ļ	ĺ	ĺ		
·											
Combined real estate, insurance, etc	66	9.6	9.6	9.0	9.0						i
Services		25,809	25,922	26,818	27,138	27,240	22,579	22,671	23,416	23,702	23,77
Hotels and other lodging places	70	1.638.0	1.675.7	1,598.4	1,693.8		_	_	_	-	
Hotels, motels, and tourist courts				1,551.2		1	1,413.6	1,433.7	1,379.5	1,447.4	
Personal services	72	1,166.3	1,150.0	1,179.8	1,181.2		_	_	_	_	İ
Laundry, cleaning, and garment services		415.8		412.4	414.8		370.3	367.2	366.4	369.2	
Photographic studios, portrait	722	59.0	55.9	56.7	58.2		-	_	_	_	-
Beauty shops		366.2	362.5	367.9	370.8		326.5	323.6	328.2	331.0	
Funeral service and crematories		80.5	79.7	81.2	82.0	-	-	-	-	-	_
Business services			5,635.5			5,843.0	, ,	4,836.2		4,966.3	-
Advertising		233.8		255.1	259.9		173.8	176.4	188.1	192.2	-
Advertising agencies		168.7	171.6	184.7	188.8	-	-	-	-	-	-
Credit reporting and collection		92.2	92.7	95.6	97.1	-	-	_	-	-	-
Mailing, reproduction, and stenographic		207.5	208.3	238.1	240.8						-
Services to buildings		790.7	794.8	812.4	817.6		716.5	718.1	735.8	740.3	-
Personnel supply services		1,393.4				1	-	-	-	-	-
Employment agencies		220.9	223.7	218.5	218.5	;	-	-	-	-	-
Temporary help supply services		1,068.1					-				-
Computer and data processing services		670.3	682.0	749.1	761.5		521.8		1	1	-
Computer programming and software Data processing services		306.1 252.2	310.7 257.0	345.8 278.7	351.8 285.3		-	-	-	-	-
Miscellaneous business services	739	2,196,2	2,211.2	2,244.3	2,272.1	_	-	_	_	_	_
Research development laboratories, nec		214.9		217.6	220.3	_	_	-	_	_	_
Management and public relations	7392	541.5	543.2	553.1	557.3	-	_	-	-	-	_
Detective and protective services		463.6	466.9	472.3	475.7		-	-	_	-	_
Equipment rental and leasing		267.2	268.5	275.9	282.1		_	-		- 1	
Photofinishing laboratories	7395	82.6	83.0	80.6	82.1	-	-	-	-	-	-
Auto repair, services, and garages		840.3	846.5	895.5	904.6		696.9	702.9	736.6	743.6	
Automotive rentals, without drivers		165.2	166.6	182.4	186.3		-	-	-	- [
Automotive repair shops	753	487.2	493.5	519.0	525.7		402.3	408.7	425.0	429.7	
Miscellaneous repair services		348.6	351.0	357.2	361.8	i	285.5	287.3	291.0	296.1	
Electrical repair shops		109.6	111.8	119.9	122.6		_	-	-	-	
Motion pictures	78	250.9	246.5	266.2	270.3	-	210.3		225.5	228.4	-
Motion picture production and services Motion picture theaters		113.7 118.5	109.7 118.5	140.2 108.6	135,0 117,9	-	88.3	85.1 -	114.5	108.6	-
Amusement and recreation services	ļ			1,006.4		_	897.3	931.6	878.2	995.2	_
Health services	80	7.150.0	7.188 1	7,555.0	7.645.7	7.682.0	6.356.5	6,391.8	6,708.4	6,796.7	_
Offices of physicians				1,195.0			913.4	915.9	977.9		_
Offices of dentists		487.7	490.4	508.6	514.6	_	427,7	430.5	443.8	449.9	_
Nursing and personal care facilities	805			1,369.3					1,236.8		_
Skilled nursing care facilities		913.9	918.5	948.9	962.0	_	-	_			_
Nursing and personal care, nec		406.6	408.2	420.4	426.4	_	_	_	_	_	_
Hospitals		3,304.6		3,456.2		-	3,020.0	3,037.2	3,158.2	3,199.5	-
General medical and surgical hospitals				3,195.9		-	-	_	_	-	-
		92.5	92.7	96.7	97.6	-	_ !	_	_	_	_
Psychiatric nospitals											
Psychiatric hospitals		154.3	155.8	163.6	165.8	_	-	-	_	-	-
		i I		163.6 167.6	165.8 170.5	- -	-	-	-	-	-

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

(In thousands)

	1972		All	employe	es			Produ	ction wo	rkers¹	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989°	July 1989°	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Services—Continued											
Legal services	81	869.7	871.8	882.0	913.9		730.6	731.6	733.7	760.1	
Educational services	82	1,421.4	1,349.1	1,656.1	1,479.9						
Elementary and secondary schools	821	387.1	348.0	411.2	393.1						ļ
Colleges and universities	822	837.9	796.4	1,005.2	849.1						
Correspondence and vocational schools	824	91.1	89.1	105.6	103.5						
Social services	83	1,606.3	1,607.3	1,738.7	1,731.8						
Individual and family services	832	337.8	344.2	351.3	354.2						!
Job training and related services	833	258.5	266.5	242.4	253.1						
Residential care		394.1	396.2	421.6	428.8						
Museums, botanical and zoological gardens	84	53.8	54.5	53.9	57.4	İ					
Membership organizations	86	1,753.0	1,786.6	1,753.9	1,790.1						
Business associations		101.3	101.1	99.2	102.0						
Labor organizations		133.2	129.6	136.8	135.5						
Civic and social associations		398.0	433.7	398.3	427.9						
Miscellaneous services	89	1,388.5	1,397.9	1,441.7	1,459.7	Ì	1.120.3	1,126.7	1.151.6	1.168.4	
Engineering and architectural services		732.3			1 .		612.8			635.8	
Noncommercial research organizations		136.4		144.3	147.1		_		_	_	1
Accounting, auditing, and bookkeeping		487.7	489.8	512.9	511.0		374.6	374.5	392.0	390.1	
Government		17,426	16,440	18,030	17,760	16,728					
Federal Government ⁴		2,986	2,992	3,005	3,024	3,009					
Executive, by agency4		2,925.6	2,931.5	2,945.3					İ		
Department of Defense		967.1	963.6	974.6	ł						
Postal Service ⁵		829.8	831.5	838.6				ŀ			
Other executive agencies		1,128.7	1,136.4	1,132.1	-						
Legislative		39.4	39.4	38.0							
Judicial		20.9	21.0	21.3							ı
Federal government, by industry:											
Manufacturing activities		121.8	121.4	123.8	124.4						
Shipbuilding and repairing	3731	74.0	73.9	74.3	74.2						
Transportation and public utilities, except Postal						i					
Service	2	42.8		38.4	38.1						1
Services		426.3			434.0	1					1
Hospitals	806	248.8	248.8	248.9	249.7				,]
State government		3,943		4,181	4,014	3,915					
Hospitals		446.4		447.4	448.1	-			i		
Education	82	1,461.1	1,344.5	1,688.5	1,479.6						
General administration, including executive,						l					
legislative, and judicial functions		1,496.3	1,514.2	1,511.7	1,540.0						
Local government		10,497	9,595	10,844	10,722	9,804				1	
Transportation and public utilities		492.9		493.3							
Hospitals		624.7			647.9	1 .				ĺ	
Education					5,854.8	1					
General administration, including executive,		_,,.			-,	ĺ				ĺ	1
legislative, and judicial functions		3,281.2	3,400.5	3,184.9	3,348.3						
Granning language series and s		-,	3,	2,.0	5,5 .5.0	1		1			1

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

civilian employment only and exclude the Central Intelligence Agency and the National Security Agency.

5 Includes rural mail carriers.

² Data relate to line haul railroads with operating revenues of \$50,000,000 or more.

³ Data for nonoffice sales agents are excluded from the

nonsupervisory count for all series in this division.

⁴ Prepared by the Office of Personnel Management. Data relate to

Data not available.
 p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to

B-3. Women employees on nonagricultural payrolls by major industry and manufacturing group

(In thousands)

Industry	Apr. 1988	May 1988	Mar. 1989	Apr. 1989	May 1989
Total	48,852	49,108	50,371	50,646	50,923
Total private	39,706	39,949	41,003	41,271	41,520
Goods-producing	6,961	6,994	7,106	7,121	7,141
Mining	96	96	97	97	97
Construction	535	545	558	568	576
Manufacturing	6,330	6,353	6,451	6,456	6,468
Durable goods	3.050	3,059	3.099	3,104	3,104
Lumber and wood products	123	124	124	125	126
Furniture and fixtures	164	164	167	168	126
Stone, clay, and glass products	120	121	122	123	124
Primary metal industries	104	105	108	108	108
Fabricated metal products	321	324	327	327	327
Machinery, except electrical	458	460	472	473	474
Electrical and electronic equipment	861	861	856	854	849
Transportation equipment	399	400	407	409	409
Instruments and related products	322	324	337	338	338
Miscellaneous manufacturing	178	178	179	181	182
Nondurable goods	3,280	3,294	3,352	3,352	3,364
Food and kindred products	499	505	509	509	515
Tobacco manufactures	17	17	18	17	16
Textile mill products	352	353	353	353	353
Apparel and other textile products	874	875	880	879	877
Paper and allied products	167	168	169	170	171
Printing and publishing	672	672	701	704	706
Chemicals and allied products	306	308	319	320	324
Petroleum and coal products	23	24	26	26	26
Rubber and misc. plastics products	286	288	293	292	292
Leather and leather products	85	86	83	83	84
Service-producing	41,891	42,114	43,265	43,525	43,782
Transportation and public utilities	1,580	1,590	1,622	1,628	1,640
Wholesale trade	1,774	1,786	1,859	1,867	1,880
Retail trade	9,931	10,082	10,067	10,182	10,342
Finance, insurance, and real estate	4,138	4,147	4,232	4,239	4,257
Services	15,322	15,350	16,117	16,234	16,260
Government	9,146	9,159	9,368	9,375	9,403
Federal	1,057	1,059	1,061	1,063	1,073
	2,039	2,011	2,083	2,086	2,065
State					,
Local	6,050	6,089	6,224	6,226	6,265

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are

introduced, all unadjusted data from April 1988 forward are subject to revision.

ESTABLISHMENT DATA EMPLOYMENT SEASONALLY ADJUSTED

B-4. Employees on nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

(In thousands)

Industry	ļ	т	18	988						1989	т	г	1
,	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total	105,768	105,954	106,207	106,475	106,824	107,097	107,442	107,711	107,888	108,101	108,310	108,560	108,729
Total private	88,418	88,578	88,736	88,991	89,299	89,574	89,897	90,124	90,291	90,475	90,623	90,868	91,062
·					,								
Goods-producing	25,323	25,303	25,313	25,384	25,460	25,513	25,626	25,629	25,646	25,671	25,672	25,651	25,680
Mining	725	725	719	717	712	711	711	711	714	720	722	715	704
Oil and gas extraction	410	408	404	400	396	394	393	394	397	400	401	401	402
Construction	5,150	5,153	5,163	5,162	5,191	5,213	5,267	5,270	5,252	5,279	5,283	5,281	5,318
General building contractors	1,372	1,372	1,374	1,363	1,375	1,380	1,404	1,398	1,380	1,377	1,388	1,385	1,393
Manufacturing	19,448	19,425	19,431	19,505	19,557	19,589	19,648	19,648	19,680	19,672	19,667	19,655	19,658
Durable goods	11,475	11,462	11,464	11,509	11,545	11,565	11,605	11,594	11,604	11,600	11,594	11,567	11,549
Lumber and wood products	762	761	763	770	775	780	784	778	777	772	771	769	767
Furniture and fixtures	531	529	530	531	532	532	532	534	535	537	534	534	535
Stone, clay, and glass products	602	600	600	603	605	607	607	608	607	606	604	603	601
Primary metal industries	780	776	779	783	784	785	786	786	788	788	787	788	788
Blast furnaces and basic steel products	278	277	277	277	277	276	276	276	276	275	276	277	274
Fabricated metal products	1,438	1,435	1,436	1,442	1,445	1,449	1,458	1,458	1,457	1,454	1,452	1,449	1,450
Machinery, except electrical	2,092	2,094	2,098	2,110	2,120	2,126	2,134	2,138	2,143	2,144	2,150	2,151	2,156
Electrical and electronic equipment	2,072 2,058	2,073 2,052	2,072 2,044	2,073	2,075 2,060	2,067 2,063	2,065 2,079	2,062 2,067	2,060 2,071	2,058 2,073	2,050 2,076	2,040 2,062	2,032
Transportation equipment Motor vehicles and equipment	862	859	859	865	867	867	882	871	869	875	876	860	848
Instruments and related products	751	755	756	758	762	767	770	772	776	777	778	779	782
Miscellaneous manufacturing	389	387	386	384	387	389	390	391	390	391	392	392	388
Nondurable goods	7,973	7,963	7,967	7,996	8,012	8,024	8,043	8,054	8,076	8,072	8,073	8,088	8,109
Food and kindred products	1,628	1,629	1,627	1,644	1,648	1,646	1,650	1,650	1,655	1,657	1,656	1,664	1,675
Tobacco manufactures	55	55	55	55	56	56	56	56	56	54	53	53	53
Textile mill products	730	723	726	726	725	724	728	728	729	728	728	729	730
Apparel and other textile products	1,091	1,085	1,085	1,083	1,088	1,090	1,092	1,096	1,101	1,098	1,095	1,093	1,098
Paper and allied products		694	693	695	695	696	696	696	697	696	697	697	699
Printing and publishing		1,568	1,573	1,577	1,581	1,588	1,595	1,595	1,600	1,601	1,603	1,609	1,61
Chemicals and allied products	1,068	1,071	1,072	1,074	1,075	1,079	1,084	1,085	1,088	1,090	1,094	1,096	1,094
Petroleum and coal products	162	162	162	162	162	162	160	161	161	162	162	163	163
Rubber and misc. plastics products		832	830	836	839	840	839	843	845	843	843	842	844
Leather and leather products	144	144	144	144	143	143	143	144	144	143	142	142	142
Service-producing	80,445	80,651	80,894	81,091	81,364	81,584	81,816	82,082	82,242	82,430	82,638	82,909	83,049
Transportation and public utilities	5,557	5,572	5,581	5,596	5,616	5,634	5,654	5,667	5,666	5,682	5,700	5,716	5,739
Transportation Communication and public utilities	3,340 2,217	3,353 2,219	3,365 2,216	3,381 2,215	3,402 2,214	3,421	3,439	3,453 2,214	3,452 2,214	3,467	3,484	3,500 2,216	3,524 2,215
•						2,213	2,215			2,215	2,216		
Wholesale trade	6,038	6,051	6,071	6,086	6,104	6,125	6,146	6,171	6,197	6,206	6,222	6,229	6,234
Durable goods Nondurable goods	3,569 2,469	3,578 2,473	3,590 2,481	3,599 2,487	3,612 2,492	3,626 2,499	3,638 2,508	3,657 2,514	3,676 2,521	3,676 2,530	3,685 2,537	3,693 2,536	3,696 2,538
Retail trade	19,139	19,182	19,188	19,229	19,282	19,328	19,407	19,460	19,488	19,489	19,528	19,548	19,600
General merchandise stores		2,454	2,452	2,447	2,452	2,460	2,472	2,481	2,490	2,492	2,491	2,490	2,488
Food stores		3,117	3,122	3,149	3,165	3,182	3,200	3,212	3,223	3,233	3,245	3,262	3,27
Automotive dealers and service stations	2,096	2,107	2,115	2,124	2,131	2,136	2,143	2,150	2,155	2,159	2,159	2,154	2,15
Eating and drinking places		6,302	6,296	6,314	6,322	6,328	6,323	6,332	6,322	6,335	6,348	6,362	6,370
Finance, insurance, and real estate	6,678	6,686	6,695	6,710	6,726	6,744	6,746	6,763	6,774	6,776	6,790	6,801	6,812
Finance	3,284	3,285	3,288	3,293	3,299	3,307	3,308	3,311	3,316	3,312	3,320	3,318	3,32
Insurance	2,084	2,087	2,092	2,098	2,102	2,110	2,109	2,116	2,117	2,119	2,123	2,128	2,13
Real estate	1,310	1,314	1,315	1,319	1,325	1,327	1,329	1,336	1,341	1,345	1,347	1,355	1,359
Services	25,683	25,784	25,888	25,986	26,111	26,230	26,318	26,434	26,520	26,651	26,711	26,923	26,99
Business services	5,595	5,617	5,651	5,667	5,682	5,715	5,707	5,729	5,736	5,760	5,776	5,799	5,802
Health services	7,153	7,187	7,228	7,267	7,313	7,359	7,396	7,442	7,488	7,528	7,570	7,615	7,644
Government	17,350	17,376	17,471	17,484	17,525	17,523	17,545	17,587	17,597	17,626	17,687	17,692	17,667
Federal	2,958	2,967	2,985	2,986	2,983	2,981	2,978	2,982	2,982	2,982	2,999	2,994	2,976
State	4,071 10,321	4,079 10,330	4,088 10,398	4,081 10,417	4,085 10,457	4,085 10,457	4,084 10,483	4,095 10,510	4,102 10,513	4,111 10,533	4,119 10,569	4,134 10,564	10,553

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m P}={
m preliminary}.$ NOTE: Establishment survey estimates are currently projected from March 1988

benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

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

(In thousands)

la divata.				19	88						1989		
Industry	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Total	48,871	49,119	49,207	49,338	49,488	49,586	49,799	49,963	50,130	50,302	50,414	50,515	50,670
Total private	39,966	40,191	40,296	40,393	40,503	40,602	40,776	40,943	41,093	41,239	41,340	41,418	41,530
Goods-producing	7,018	7,035	7,053	7,049	7,054	7,069	7,095	7,112	7,141	7,152	7,159	7,161	7,166
Mining	96	97	97	98	97	97	97	97	97	97	97	97	97
Construction	545	548	551	554	555	555	557	561	566	571	571	573	577
Manufacturing	6,377	6,390	6,405	6,397	6,402	6,417	6,441	6,454	6,478	6,484	6,491	6,491	6,492
Durable goods	3,062	3,073	3.084	3,084	3,082	3,087	3,097	3,103	3,113	3,111	3,109	3,111	3,108
Lumber and wood products	124	125	125	125	125	125	127	127	127	127	127	126	126
Furniture and fixtures		164	165	164	165	165	165	165	166	166	167	167	167
Stone, clay, and glass products	121	121	122	122	121	122	122	123	123	123	123	124	124
Primary metal industries	104	106	106	106	106	106	106	107	108	107	108	108	108
Fabricated metal products	323	324	326	325	325	325	327	327	330	329	328	327	327
Machinery, except electrical		460	463	464	465	467	469	469	471	471	471	471	472
Electrical and electronic equipment		868	868	868	867	868	869	866	864	863	860	859	853
Transportation equipment		401	401	401	399	401	402	405	407	407	408	409	410
Instruments and related products		326	328	330	330	331	332	335	337	337	337	338	339
Miscellaneous manufacturing	178	178	180	179	179	177	178	179	180	181	180	182	182
Nondurable goods	3,315	3,317	3,321	3,313	3,320	3,330	3,344	3,351	3,365	3,373	3,382	3,380	3,384
Food and kindred products		526	525	520	524	531	535	532	536	537	537	537	537
Tobacco manufactures	18	18	18	18	18	18	18	19	18	19	19	18	17
Textile mill products	352	352	351	349	349	349	350	350	352	352	354	353	353
Apparel and other textile products		869	867	863	863	862	867	869	871	874	877	875	873
Paper and allied products	169	169	170	170	171	171	171	171	171	171	171	171	171
Printing and publishing		675	678	681	682	685	688	692	697	698	700	702	706
Chemicals and allied products		311	312	313	314	315	315	316	318	319	321	322	325
Petroleum and coal products		(¹)	(')	(¹)	(')	(¹)	(')	(')	(')	(')	(')	(')	(')
Rubber and misc. plastics products		288	290	289	289	289	291	292	292	292	293	292	292
Leather and leather products	86	85	86	85	85	85	84	84	84	85	84	84	84
Service-producing	41,853	42,084	42,154	42,289	42,434	42,517	42,704	42,851	42,989	43,150	43,255	43,354	43,504
Transportation and public utilities	1,585	1,597	1,598	1,604	1,604	1,608	1,614	1,621	1,626	1,630	1,629	1,628	1,635
Wholesale trade	1,793	1,801	1,808	1,811	1,820	1,827	1,835	1,845	1,854	1,862	1,866	1,876	1,888
Retail trade	10,116	10,137	10,149	10,171	10,179	10,190	10,213	10,238	10,287	10,318	10,336	10,337	10,373
Finance, insurance, and real estate	4,149	4,164	4,169	4,178	4,188	4,199	4,212	4,222	4,227	4,242	4,249	4,247	4,257
Services	15,305	15,457	15,519	15,580	15,658	15,709	15,807	15,905	15,958	16,035	16,101	16,169	16,211
Government	8,905	8,928	8,911	8,945	8,985	8,984	9,023	9,020	9.037	9,063	9.074	9.097	9,140
Federal		1,054	1,055	1,059	1.065	1,067	1,066	1.065	1.063	1.064	1,064	1.064	1,070
State	1,982	1,989	1,998	2,003	2,015	2,009	2,013	2,013	2,012	2,017	2,020	2,023	2,034
Local		5,885	5,858	5,883	5,905	5,908	5,944	5,942	5,962	5,982	5,990	6,010	6,036
	5,55,	5,550	5,550	5,550	3,530	3,550	0,0 /7	0,0 /2	5,552	0,002	2,000	5,5,0	0,000

[`]This series is not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

ESTABLISHMENT DATA EMPLOYMENT SEASONALLY ADJUSTED

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

(In thousands)

A. D. D.			19	38						1989	·		
Industry	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total private	71,593	71,723	71,825	72,021	72,273	72,494	72,774	72,949	73,101	73,204	73,315	73,530	73,683
Goods-producing	17,844	17,815	17,813	17,865	17,929	17,963	18,065	18,048	18,052	18,053	18,058	18,023	18,058
Mining	523	522	518	515	511	510	510	510	514	519	521	510	500
Construction	4,026	4,023	4,032	4,026	4,053	4,068	4,132	4,112	4,096	4,104	4,111	4,108	4,131
Manufacturing	13,295	13,270	13,263	13,324	13,365	13,385	13,423	13,426	13,442	13,430	13,426	13,405	13,427
Durable goods Lumber and wood products Furniture and fixtures		7,658 634 422	7,653 635 424	7,690 641 425	7,717 645 426	7,730 647 426	7,758 652 426	7,749 648 427	7,749 646 428	7,744 642 428	7,735 641 427	7,706 638 426	7,702 636 427
Stone, clay, and glass products Primary metal industries Blast furnaces and basic steel products Fabricated metal products	469 599 214 1,073	468 595 216 1,070	466 597 217 1.069	469 600 216 1,076	470 601 217 1,079	472 602 216 1,082	473 603 215 1,089	474 602 215 1,087	472 603 213 1,086	471 603 211 1,080	469 601 210 1,079	469 602 211 1.075	467 602 208 1.077
Machinery, except electrical Electrical and electronic equipment Transportation equipment	1,261 1,226 1,287	1,260 1,227 1,284	1,261 1,227 1,276	1,270 1,228 1,283	1,279 1,233 1,283	1,285 1,224 1,285	1,292 1,222 1,294	1,298 1,218 1,286	1,298 1,214 1,292	1,298 1,213 1,297	1,302 1,205 1,297	1,303 1,198 1,283	1,306 1,196 1,277
Motor vehicles and equipment Instruments and related products Miscellaneous manufacturing	674 414 283	673 416 282	671 417 281	676 419 279	676 421 280	676 425 282	687 424 283	677 425 284	675 427 283	680 428 284	681 430 284	666 428 284	656 434 280
Nondurable goods Food and kindred products Tobacco manufactures	5,623 1,157 41	5,612 1,158 41	5,610 1,156 40	5,634 1,169 41	5,648 1,173 42	5,655 1,172 42	5,665 1,175 41	5,677 1,177 41	5,693 1,182 41	5,686 1,184 40	5,691 1,184 38	5,699 1,191 38	5,725 1,203 38
Textile mill products Apparel and other textile products Paper and allied products	634 917 526	626 912 525	629 912 523	629 912 524	628 916 525	628 919 525	630 922 524	630 926 524	630 930 525	630 927 524	630 925 525	631 922 524	,
Printing and publishing Chemicals and allied products Petroleum and coal products Rubber and misc. plastics products	874 598 106 651	877 600 106 649	878 600 106 647	881 602 106 652	883 602 106 655	886 604 105 656	887 607 104 656	888 608 105 659	891 610 105 660	889 609 105 660	891 614 106 660	894 617 107 657	896 616 108 660
Leather and leather products	119	118	119	118	118	118	119	119	119	118	118	118	
Service-producing	53,749	53,908	54,012	54,156	54,344	54,531	54,709	54,901	55,049	55,151	55,257	55,507	55,625
Transportation and public utilities	4,618	4,631	4,635	4,653	4,671	4,691	4,704	4,718	4,718	4,735	4,752	4,768	4,784
Wholesale trade	4,867	4,876	4,890	4,903	4,917	4,931	4,948	4,970	4,990	4,996	5,007	5,014	5,018
Retail trade	16,959	17,001	16,997	17,017	17,066	17,106	17,171	17,215	17,244	17,235	17,280	17,310	17,340
Finance, insurance, and real estate	4,850	4,856	4,858	4,866	4,873	4,879	4,886	4,893	4,900	4,902	4,918	4,924	4,940
Services	22,455	22,544	22,632	22,717	22,817	22,924	23,000	23,105	23,197	23,283	23,300	23,491	23,543

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

NOTÉ: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

preliminary.

Table B-7. Diffusion indexes of employment change, seasonally adjusted

(Percent)

					Private no	nagricultural p	ayrolls, 349 ii	ndustries1				
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec
						Over 1-m	onth span					,
77	63.5	60.5	70.3	67.9	68.6	63.8	64.5	61.3	65.9	61.3	67.0	67
78	62.5	64.3	70.2	70.1	64.6	67.6	61.6	62.2	62.0	64.3	70.9	66
79	63.9	61.0	64.8	52.7	61.6	61.3	55.7	53.2	50.7	61.3	54.2	53
	00.0	01.0	, , ,	J.,	01.0	01.0	00.1	55.E	50.7	01.0	J-1.E	
80	54.6	53.4	49.7	37.4	40.8	38.0	42.3	59.0	55.7	63.8	59.3	58
31	58.5	52.7	54.0	64.5	57,0	53.3	57.7	51.3	45.8	42.3	40.3	36
32	37.2	47.3	40.1	41.5	49.3	38.1	42.8	39.1	44.7	36.2	40.1	43
33	55.0	47.9	60.2	65.6	66.3	66.5	67.2	68.9	70.1	66.6	67.6	64
4	67.8	70.6	65.2	67.8	63.3	67.2	59.6	61.9	57.2	62.9	59.3	57
5	58.5	52.3	60.2	53.2	58.5	51.4	57.6	60.7	53.6	56.3	56.6	59
36	55.4	53.7	53.2	56.3	55.2	50.7	54.7	56.3	57.9	54.6	58.0	61
37	55.6	59.3	61.0	61.9	58.6	59.7	65.3	60.6	63.0	67.8	64.5	60
38	60.7	63.5	63.0	62.8	61.3	67.2	63.6	58.0	55.4	63.9	68.2	64
39	68.3	60.5	61.0	58.2	55.6	₽ 57.7	^p 57.4					
						Over 3-mo	onth span					
,,	70.0	74 5	76.4	70.2	74.0	72.1	60.2	70.1	70.5	70.5	72.6	7,
77	70.2	74.5	76.4	79.2 76.9	74.8	72.1	69.3	72.1	70.5	73.5	73.6	72
8	71.9 69.5	73.8 71.8	76.9 65.8	66.2	74.9 62.0	71.1 64.0	69.2 58.9	65.8 53.3	68.3 57.6	73.5 58.6	74.8 62.2	50
J	09.5	, 1.0	05.6	00.2	02.0	04.0	50.9	J3.3	57.0	50.0	02.2) 31
o	56.6	51.4	42.0	38.3	35.5	37.4	42.8	50.9	65.3	66.9	68.5	64
11	59.5	55.6	58.9	64.6	63.3	60.7	57.0	52.4	43.3	40.0	34.0	30
2	31.2	34.8	37.7	41.5	40.3	40.3	34.8	38.3	35.4	35.8	34.0	46
3	48.4	57.0	62.6	71.9	72.1	74.4	72.6	77.2	77.2	74.6	71.6	7:
4	74.9	75.5	78.2	72.8	73.6	68.8	67.8	65.5	64.6	62.2	61.9	6
	-	75.3 58.3	55.6	59.0	L .					56.9		
5	58.3				55.4	57.6	56.6	58.7	58.5 57.0		59.5	59
37	57.7	53.0	54.4	55.4	53.3	51.4	52.9	58.7	57.0	59.7	62.0	62
	60.7	62.0	66.6	65.2	65.8	65.9	67.8	71.1	71.2	72.3	70.9	65
38	64.8	65.6 70.1	69.5	70.2	71.1 P 61.3	71.9 P 59.9	71.2	64.2	65.3	70.1	73.4	74
	71.6	70.1	64.5	61.9	, , 61.3	F 59.9						
						Over 6-mo	onth span					
77	79.1	81.8	78.7	78.4	78.1	79.7	76.2	76.2	77.5	76.6	78.1	78
78	77.8	81.4	81.2	79.8	78.7	76.2	73.6	76.9	75.6	76.8	76.1	77
9	74.6	73.9	71.2	66.8	63.2	57.9	62.9	59.5	57.7	58.6	60.9	57
0	48.6	44.7	41.1	37.4	37,1	37.5	44.4	51.9	61.2	70.9	68.9	66
1	66.5	65.2	62.9	64.9	61.3	58.0	50.3	43.0	39.0	32.2	32.5	28
2	28.5	29.7	33.0	38.8	37.2	36.8	34.5	33.8	34.8	38.1	39.1	4:
3	55.2	62.2	67.3	71.1	76.4	78.2	79.4	79.5	78.2	77.2	78.1	7
4	78.7	78.9	80.2	77.1	74.4	72.6	79.4		64.9	63.9		6
								68.6			61.6	
5 6	56.7 55.6	59.7 56.6	58.2 52.7	57.6 52.9	58.6 53.4	57.6 56.0	57.6 55.6	56.2 57.0	59.5 62.3	59.7 61.6	58.3 62.9	5
7	67.3	65.8	64.8	66.8	67.6	69.5	71.3	73.5		71.5	71.8	72
									73.2			
8	69.9	70.2	71.5	73.9	73.9	69.1	70.2	74.6	73.5	73.9	74.5	7:
9	75.1	69.5	P 68.2	P 63.3								
						Over 12-m	onth span					
7	79.2	80.1	81.8	81.9	84.8	84.7	84.5	83.4	83.7	83.0	82.5	82
8 8	81.9	82.2	81.8	81.9	83.0	82.8	83.4	81.4	81.7	75.8	78.1	75
9	75.9	75.4	74.8	72.1	68.2	66.0	66.0	63.6	59.7	57.6	52.0	48
o	47.0	46.4	46.8	45.3	43.7	43.8	43.6	42.8	44.3	50.6	57.2	62
1	71.2	68.3	68.1	61.3	53.4	48.0	42.3	38.8	36.4	33.1	34.1	32
2	32.4	31.1	29.7	30.4	30.4	31.4	35.0	35.1	38.8	43.4	46.7	51
3	57.0	61.9	66.5	72.8	75.8	77.2	76.8	80.7	80.4	81.4	83.0	81
4	81.7	79.5	78.7	77.1	76.2	74.1	73.1	70.2	69.1	65.2	63.8	6.
5	59.5	59.2	59.2	56.9	56.6	58.5	55.9	55.9	56.7	55.6	55.2	50
	54.4	54.6	53.9	55.6	55.2							
6						56.3	57.2	59.3	60.0	62.0	61.3	60
7	66.6	68.2	68.2	71.8	71.9	72.5	72.2	74.1	75.4	72.5	73.8	76
8	76.2	76.1	74.8	74.6	75.8	74.9	78.1	75.5	75.5	74.8	74.9	P 74
9	P 71.5							!	ľ			

ESTABLISHMENT DATA DIFFUSION INDEXES SEASONALLY ADJUSTED

Table B-7. Diffusion indexes of employment change, seasonally adjusted-Continued

(Percent)

Year -						acturing payro			· · · · · · · · · · · · · · · · · · ·			г
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.
						Over 1-mo	onth span					
777	66.0	59.9	68.4	70.9	67.0	59.6	60.3	54.3	62.1	57.4	63.1	70.
78	63.1	64.5	63.8	65.6	61.0	62.4	56.0	58.5	57.1	62.8	66.3	69.
79	60.3	55.0	58.9	50.4	55.7	61.7	50.0	45.0	41.1	57.4	46.8	47.
80	48.6	46.1	47.5	28.4	24.8	27.√	28.7	58.2	55.0	63.1	61,7	53.
81	53.2	45.0	55.0	63.1	61.3	56.7	56.0	42.2	39.4	30.5	29.4	23.
82	27.0	39.4	28.0	31.9	36.2	26.6	34.4	28.4	35.5	26.6	26.2	39.
33	53.2	48.6	55.3	67.0	67.4	59.9	68.8	64.9	68.1	70.9	62.4	62
B4	61.7	70.6	64.5	63.8	54.6	61.0	56.0	52.8	42.9	52.8	44.7	48.
35	46.5	40.4	44.0	37.6	41.5	39.4	47.9	48.6	37.9	44.3	44.0	50.
86	48.9	45.0	43.6	43.6	46.5	43.3	38.7	51.1	48.6	45.0	50.7	52.
87	44.3	53.9	54.3	55.7	55.3	54.3	62.8	59.9	63.8	59.9	65.6	56.
89	58.5	56.0	55.0	59.9	58.5	61.7 P 48.2	59.6 • 50.7	51.1	49.3	62.8	64.9	58.
	62.4	53.5	53.2	49.6	46.8	F 46.2	7 50.7					
						Over 3-m	onth span					1
77	70.6	77.0	78.7	78.7	72.0	66.7	62.4	64.9	62.4	67.7	69.1	76.
78	77.0	72.3	72.3	69.9	69.1	62.8	61.3	58.2	62.4	67.0	70.9	73.
79	64.9	62.8	59.6	59.9	58.5	59.2	50.0	36.5	44.0	43.6	52.5	42
90	44.7	40.4	28.4	20.2	18.4	19.5	27.7	39.7	64.2	67.7	67.4	61
91	51.8	50.4	56.4	64.5	66.7	64.9	55.0	42.6	28.0	25.5	17.7	17
B2	17.0	19.1	21.3	22.0	22.0	22.3	18.1	18.8	20.6	18.4	17.7	33
B3	46.1	53.9	61.7	71.3	70.9	73.8	70.6	76.2	77.0	74.1	72.0	67
B4	71.6	71.6	75.2	65.6	65.2	58.9	57.1	50.7	47.5	42.9	45.7	44.
35	43.6	37.9	32.6	33.0	31.2	37.6	40.8	37.9	38.3	36.5	42.9	46
86	45.0	40.8	38.3	38.7	39.4	37.2	37.2	44.0	46.5	47.5	52.5	49
87	52.1	51.4	59.6	61.3	58.5	62.8	67.0	71.6	68.4	70.6	67.7	64.
88	63.1	61.0	62.4	64.9	67.4	67.0	64.5	58.2	62.1	66.7	71.3	70.
089	67.4	63.8	55.7	51.8	P 48.6	P 47.5						
						Over 6-m	onth span					
77	81.6	81.9	79.1	77.3	75.2	74.8	67.7	68.4	70.9	75.2	80.5	77.
78	77.7	79.8	78.0	72.3	73.0	68.8	63.5	68.1	69.9	71.3	67.0	69.
79	68.4	66.3	62.1	58.2	52.1	43.6	48.2	41.5	39.7	40.1	42.6	42.
80	33.0	27.0	23.4	16.7	17.4	19.1	26.2	39.7	52.8	70.6	67.4	65.
81	65.2	62.8	62.8	68.1	61.7	55.3	40.1	29.1	22.3	17.0	18.4	12
82	10.3	10.6	13.5	20.6	15.6	15.2	12,4	12.1	14.5	18,1	21.3	27
33	46.8	59.6	64.9	67.0	75.5	76.2	78.7	77.3	76.2	73.8	75.9	74
34	75.2	72.3	72.7	70.2	62.1	58.2	54.6	52.5	48.6	44.7	39.4	41
85	35.5	34.8	29.4	31.9	33.3	33.0	31.9	32.6	38.3	40.1	38.3	37
86	37.6	38.7	35.5	33.3	34.0	38.3	37.9	41.1	45.4	49.6	50.4	51
87	57.4	56.7	55.3	62.4	64.9	67.0	67.4	70.6	71.3	69.5	69.5	68
88 89	66.3 69.5	66.3 58.5	67.7 ₽ 55.7	69.5 P 49.6	66.7	64.2	66.0	70.9	68.8	69.9	71.6	74
-						Over 12-m	onth span					
						J						_
77	77.0	77.7	75.9	76.6	81.2	82.6	84.0	81.9	83.3	80.5	78.0	77.
78	75.2 67.0	77.7 64.2	76.2	77.0 57.4	77.0	77.0	75.2	70.6	70.9	65.6	69.1	64.
79	67.0	64.2	62.4	57.4	51.8	48.6	48.9	47.5	42.2	36.5	29.1	24.
во	20.6	22.3	23.8	25.2	23.0	22.3	21.3	22.7	23.6	30.5	45.7	59.
81	72.0	69.1	69.1	52.8	40.4	35.1	27.7	21.6	17.7	15.2	13.8	12.
82	12.1	12.4	9.2	11.3	8.2	9.9	13.5	14.2	15.2	21.6	25.5	33.
83	43.3	50.0	56.0	66.0	71.6	75.5	76.2	78.4	78.0	78.7	80.1	76
84	77.0	72.3	68.1	66.0	62.4	61.0	57.8	54.6	50.4	44.0	40.1	33
85	31.6	30.9	30.1	28.4	27.7	28.4	29.1	29.8	32.6	30.9	32.6	29
86	30.9	30.1	34.8	34.8	36.2	39.0	38.3	39.7	42.9	46.1	48.6	50
87	55.3	58.5	58.5	63.5	66.3	67.4	71.6	72.7	71.6	69.1	68.4	72
88	73.8 P 61.3	70.2	70.9	71.6	72.0	69.9	70.9	69.1	71.6	70.2	69.9	P 67.
89												

¹ Based on seasonally adjusted data for 1-, 3-, and 6-month spans and unadjusted data for the 12-month span. Data are centered within the span.

P = preliminary.

NOTE: Figures are the percent of industries with employment increasing plus one-half of the industries with unchanged employment, where 50 percent indicates an

equal balance between industries with increasing and decreasing employment. Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data (beginning April 1988) and all seasonally adjusted data (beginning January 1985) are subject to revision.

B-8. Employees on nonagricultural payrolls in States and selected areas by major industry

(In thousands)

		Total			Mining		(Construction	1
State and area	June 1988	May 1989	June 1989º	June 1988	May 1989	June 1989	June 1988	May 1989	June 1989 ^p
Nabama	1,564.3	1,578.7	1,581.1	11,1	11.3	11.3	80.7	75.2	75
Birmingham		407.9	411.5	5.3	4.9	4.9	25.2	25.3	25
Huntsville		134.0	134.5	.1	.1	.1	5.7	6.0	6
Mobile		166.9	166.7	.7	.7	.7	10.0	10.4	10
Montgomery		130.1	129.1	.2	.1	.1	9.3	8.0	8
Tuscaloosa	. 59.2	62.5	60.9	2.6	2.7	2.7	3.2	2.9	3
Naska	. 221.9	221.3	231.5	10.4	10.4	10.9	9.9	8.4	10
\rizona	1,391.2	1,440.7	1,409.8	12.1	12.0	12.1	94.9	90.1	90
Phoenix	922.5	945.6	933.1	.7	.8	.9	65.5	60.8	60
Tucson	. 242.0	252.3	246.1	1.8	2.1	2.1	17.1	16.7	16
\rkansas	863.9	886.5	888.6	4.3	4.3	4.4	34.7	33.8	34
Fayetteville-Springdale	. 49.9	51.9	51.1	(1)	(¹)	(¹)	1.8	1.8	1
Fort Smith	. 79.0	76.3	77.2	1.0	.9	.9	2.6	2.6	2
Little Rock-North Little Rock		243.4	243.5	.4	.4	.4	10.4	10.3	10
Pine Bluff	. 33.1	33.8	33.9	(')	(¹)	(¹)	1.6	1.8	1
alifornia	12,124.0	12,390.6	12,455.8	43.0	41.8	42.0	612.4	633.3	647
Anaheim-Santa Ana	1,137.7	1,154.5	1,164.9	1.3	1.3	1.2	67.3	68.3	69
Bakersfield		162.1	162.1	14.6	14.1	14.2	9.9	9.1	9
Fresno	206.7	213.0	211.6	.7	.6	.6	12.2	12.1	12
Los Angeles-Long Beach	4,114.3	4,187.1	4,198.2	9.9	9.7	10.0	148.9	153.6	15
Modesto		112.6	114.9	(9)	(')	(')	7.3	8.1	
Oakland	842.6	870.5	876.0	3.3	3.6	3.6	51.1	51.6	5
Oxnard-Ventura		221.4	223.3	2.9	2.8	2.9	14.2	14.5	1:
Riverside-San Bernardino		642.7	639.2	1.3	1.3	1.3	53.5	55.0	5
Sacramento		594.5	598.2	.7	.6	.6	34.5	35.4	3
San Diego	914.9	950.7	957.0	.8	.8	.8	57.8	61.3	6
San Francisco	943.8	955.3	958.1	.9	.9	.9	35.5	36.0	3
San Jose	819.3	823.5	826.3	.1	.1	.1	33.4	33.2	3:
Santa Barbara-Santa Maria-Lompoc	146.8	149.0	149.8	1.5	1.5	1.5	6.6	6.9	
Santa Rosa-Petaluma	129.2	129.7	130.6	.7	.7	.7	9.1	8.8	9
Stockton		147.8	148.1	.1	.1	.1	8.7	8.4	
Vallejo-Fairfield-Napa	131.2	134.5	136.2	.6	.7	.7	9.8	10.7	11
olorado		1,442.2	1,451.4	20.9	20.2	20.5	61.5	57.4	56
Boulder-Longmont		109.3	108.6	.3	.3	.3	3.7	3.6	3
Denver	814.2	807.5	813.6	13.1	11.8	12.0	34.1	30.0	30
Connecticut		1,694.7	1,708.8	1.6	1.5	1.5	84.0	76.5	79
Bridgeport-Milford		204.7	206.0	(1)	(')	(')	9.5	9.4	
Hartford		491.3	494.3	.4	.4	.4	21.6	21.4	22
New Britain		66.8	66.9	(')	(')	(1)	5.4	4.7	
New Haven-Meriden		265.2	267.9	.4	.4	.4	14.1	14.7	15
Stamford		126.4 88.7	128.0 89.6	.5 (¹)	(1) .4	(¹)	5.7 4.7	5.6 5.1	:
	\		1	' <u></u>	` '		İ	1	
Vilmington	336,3 285.8	342.3 291.0	348.0 294.3	.1	.1 .2	.1 .2	22.2 19.0	21.6 18.6	2 ⁻
elstrict of Columbia	677.3	685.5	692.8	.1		.1	14.0	13.2	1:
Washington MSA		2,238.7	2,260.1	1.2	1.2 1.2	1.2	143.5	148.9	15
lorida	5,059.1	5,268.0	5,257.4	9.1	9.5	9.5	349.1	346.9	348
Daytona Beach	1 .	121.5	121.9	(1)	(¹)	(')	8.5	8.4	54
Fort Lauderdale-Hollywood-Pompano Beach		495.2	495.4	.3	.4	`′ .з	36.7	36.4	37
Fort Myers-Cape Coral		124.7	124.1	(1)	(1)	(1)	12.5	14.1	14
Jacksonville		421.8	422.4	`´ .6	`´ .6	.6	26.7	27.7	27
Melbourne-Titusville-Palm Bay		158.1	159.0	(¹)	(¹)	(1)	8.8	9.3	
Miami-Hialeah		872.7	872.5	.9	(9.	.9	40.8	38.6	3
Orlando	1	519.0	522.7	(1)	(')	(')	37.4	36.8	3
Pensacola		127.0	126.6	.4	`´ .3	`´ .3	8.4	8.3	
Sarasota		114,1	113.7	(1)	(¹)	(¹)	10.1	10.4	10
Tallahassee		117.6	117.0	6	Ö	Ö	5.8	5.6	
Tampa-St. Petersburg-Clearwater		861.2	859.1	.7	`′ .7	.8	57.7	56.7	56
1411194-31. Fetersburg-Clearwater									

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

Chair and area	M	lanufacturin ç	3		nsportation a ublic utilities		Wholes	ale and reta	il trade
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
Nabama	382.8	385.7	386.7	79.6	79.5	79.4	339.9	344.1	345
Birmingham	57.5	58.5	59.0	32.4	31.9	31.9	98.2	100.6	101
Huntsville	32.6	33.3	33.5	2.9	3.0	3.0	24.5	25.4	25
Mobile	26.2	25.1	25.2	10.2	10.1	10.0	43.9	44.4	44
Montgomery	19.1	18.7	18.4	5.1	5.1	5.1	29.5	29.5	29
Tuscaloosa	10.0	10.2	10.2	2.0	2.0	2.0	12.4	12.8	12
liaska	18.1	14.1	18.0	18.3	22.0	24.1	44.3	43.3	45
vrizona	191.0	189.6	189.6	72.3	72.6	72.8	344.9	360.0	359
Phoenix	139.2	138.8	139.0	50.0	50.7	51.0	233.9	243.2	242
Tucson	30.4	29.1	28.7	9.2	9.3	9.3	56.5	58.4	58
rkansas	229.5	234.3	236.2	51.0	51.6	52.2	195.7	199.1	201
Fayetteville-Springdale	12.9	13.0	13.1	4.7	4.8	4.8	11.6	12.0	12
Fort Smith	28.4	25.8	26.8	4.1	4.3	4.3	16,1	15.4	15
Little Rock-North Little Rock	34.0	35.3	35.4	16.7	17.6	17.6	57.1	57.5	57
Pine Bluff	6.5	6.6	6.6	2.5	2.6	2.6	7.2	7.3	1
alifornia	2,147.5	2,163.6	2,171.5	588.6	592.4	597.4	2,868.6	2,925.3	2,948
Anaheim-Santa Ana	257.3	257.7	259.2	34.1	34.1	34.5	279.0	287.4	29
Bakersfield	10.6	10.4	10.4	7.2	7.4	7.4	38.6	38.1	31
Fresno	22.0	22.5	22.4	11.4	11.5	11.4	53.9	53.3	5
Los Angeles-Long Beach	905.8	901.5	901.6	203.7	204.7	205.5	948.9	971.4	97
Modesto	23.3	23.9	25.0	4.5	4.6	4.8	28.3	29.3	2
Oakland	108.9	109.5	110.1	55.9	58.2	59.0	205.2	211.8	21
Oxnard-Ventura	30.4	30.5	30.4	11.2	11.9	11.8	53.3	55.0	5
Riverside-San Bernardino	82.1	82.0	82.0	30.7	30.7	30.5	157.3	158.0	15
Sacramento	41.8	42.0	42.4	24.9	26.2	26.4	136.7	140.7	14
San Diego	127.2	131.6	132.5	35.2	35.5	35.5	220.8	229.3	23
San Francisco	80.3	80.5	80.6	77.0	76.9	77.8	210.4	212.4	21
San Jose	272.4	273.5	274.9	21.5	21.5	21.7	160.9	159.7	16
Santa Barbara-Santa Maria-Lompoc	22.2	21.7	22.1	5.0	5.0	5.1	35.0	35.5	3
Santa Rosa-Petaluma	19.4	19.7	19.8	5.8	5.8	5.8	32.7	33.0	3
Stockton	23.8	23.6	23.4	8.7	9.1	9.2	34.2	34.5	3
Vallejo-Fairfield-Napa	12.4	12.3	12.5	4.6	4.6	4.6	31.8	32.6	3:
Colorado	189.4	190.4	191.8	91.5	90.5	90.9	354.2	354.3	35
Boulder-Longmont	29.7	28.9	29.1	2.3	2.3	2.3	23.0	23.3	2
Denver	95.1	95.6	96.3	67.4	65.8	66.2	199.1	198.5	20
Connecticut	375.7	370.3	370.5	73.6	72.8	73.5	380.8	387.6	39
Bndgeport-Milford	55.6	56.2	56.1	8.4	8.4	8.5	47.5	46.9	4
Hartford	91.0	89.4	89.5	18.8	19.2	19.2	103.9	104.9	10
New Britain	19.6	19.0	18.8	3.1	3.2	3.1	13.8	14.0	1
New Haven-Meriden	47.5	47.4	48.3	17.9	18.1	18.4	60.8	61.3	6
Stamford	22.9	21.8	21.8	5.6	5.6	5.7	30.0	29.6	2
Waterbury	24.2	23.5	23.6	3.3	3.1	3.1	17.0	17.3	1
Delaware Wilmington	71.3 59.7	72.1 61.3	72.7 61.7	14.2 15.0	14.0 15.1	14.0 15.4	73.6 59.5	74.2 60.0	76 60
•		01.0	01.7	10.0	10.1	15.4	30.3	00.0	
District of Columbia	16.5 87.9	16.1 86.4	16.1 86.7	25.5 105.7	25.5 111.0	25.7 113.0	65.1 429.9	66.9 438.5	44
Florida	541.2	545,1	544.4	260.7	258.0	259.4	1,371.8	1,442.4	1,438
Daytona Beach	11.8	12.0	12.0	3.6	3.7	3.7	35.0	36.7	3
Fort Lauderdale-Hollywood-Pompano Beach	46.1	46.9	46.7	23.0	23.3	23.3	143.6	149.1	14
Fort Myers-Cape Coral	5.8	6.6	6.6	5.1	5.2	5.2	33.7	36.8	3
Jacksonville	38.7	39.3	39.5	27.7	27.7	27.5	113.6	116.6	11
Melbourne-Titusville-Palm Bay	29.1	30.3	30.3	5.6	6.1	6.0	35.9	36.8	3
Miami-Hialeah	93.3	92.9	92.5	70.3	64.3	64.8	232.6	239.9	24
Oriando	57.7	56.7	56.8	25.6	26.2	26.2	130.3	134.5	13
Pensacola	11.2	11.3	11.3	6.7	6.7	6.5	32.1	32.2	3
Sarasota	8.5	8.8	8.9	3.4	3.4	3.4	31.8	34.4	3
Tallahassee	4.9	4.9	5.0	2.8	2.8	2.8	24.2	24.7	2
	96.3	97.6	97.9	39.0	39.3	39.4	226.8	239.8	23
Tampa-St. Petersburg-Clearwater									

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

(In thousands)

Charles and array		nce, insurar id real estat			Services			Government	
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989
Nabama	70.6	71.3	71.6	286.6	294,8	296.2	313.0	316.8	314
Birmingham	28.7	27.9	28.0	94.9	96.0	97.1	62.7	62.8	63
Huntsville	3.7	3.8	3.9	30.3	31.4	31.7	29.8	31.0	30
Mobile	7.9	7.9	7.8	38.5	39.2	39.3	28.4	29.1	28
Montgomery	7.6	7.6	7.6	27.5	28.6	28.5	32.1	32.5	31
Tuscaloosa	2.1	2,1	2.2	8.5	9.0	8.9	18.4	20.8	19
Maska	10.8	10.5	10.6	45.1	44.2	46.0	65.0	68.4	66
rizona	93.8	92.3	92.0	360.9	368.8	367.7	221.3	255.3	225
Phoenix	74.6	73.7	73.4	244.1	247.4	246.1	114.5	130.2	119
Tucson	12.3	11.6	11.7	66.6	69.3	69.1	48.1	55.8	50
rkansas	38.2	38.0	38.5	163.9	171.0	172.3	146.6	154.4	149
Fayetteville-Springdale	1.5	1.5	1.4	7.7	8.1	8.1	9.7	10.7	:
Fort Smith	2.7	2.6	2.7	16.5	16.5	16.8	7.6	8.2	7
Little Rock-North Little Rock	15.9	15.9	15.9	56.8	58.7	59.4	45.8	47.7	46
Pine Bluff	1.4	1.4	1.3	6.5	6.7	6.8	7.4	7.4	
alifornia	815.5	823.4	827.5	3,078.1	3,171.5	3,184.4	1,970.3	2,039.3	2,03
Anaheim-Santa Ana	92.6	91.0	91.5	285.0	290.4	294.3	121.1	124.3	12
Bakersfield	6.5	6.5	6.5	34.0	33.8	33.7	40.9	42.7	4
Fresno	12.1	11.8	11.8	48.0	51.6	51.4	46.4	49.6	4
Los Angeles-Long Beach	286.4	287.7	289.1	1,095.0	1,127.7	1,126.8	515.7	530.8	53
Modesto	4.4	4.2	4.3	22.7	23.4	23.4	19.9	19.1	1
Oakland	55.7	56.2	56.4	199.5	210.0	210.8	163.0	169.6	16
Oxnard-Ventura	11.3	11.3	11.4	51.2	53.6	54.1	41.1	41.8	4
Riverside-San Bernardino	27.6	28.3	28.3	147.5	153.7	151.9	126.8	133.7	13
Sacramento	35.6	37.1	37.3	124.5	130.9	131.9	173.1	181.6	18
San Diego	64.0	65.1	65.5	242.7	255.4	257.2	166.4	171.7	17
San Francisco	112.1	110.3	110.6	292.4	298.7	299.7	135.2	139.6	13
San Jose	32.8	32.7	32.9	211.5	214.6	214.5	86.7	88.2	8
-	8.6	8.7	8.7				27.9	28.7	
Santa Barbara-Santa Maria-Lompoc	8.6	8.4	8.5	40.0	41.0	41.0 29.4	23.5	24.1	2
Santa Rosa-Petaluma	8.8	8.5	8.6	29.4	29.2				2
StocktonVallejo-Fairfield-Napa	4.6	4.6	4.6	30.4 29.0	31.0 30.5	30.9 30.9	32.0 38.4	32.6 38.5	3
olorado	95.8	93.9	94.9	357.9	358.0	364.9	265.4	277.5	26
Boulder-Longmont	4.0	4.1	4.1	23.3	23.4	23.7	21.0	23.4	2
Denver	63.8	62.4	63.0	214.7	213.5	215.4	126.9	129.9	12
onnecticut	155.7	154.4	156.5	413.3	418.7	423.0	208.3	212.9	21
Bridgeport-Milford	13.1	13.3	13.5	49.1	50.5	51.0	20.1	20.0	2
Hartford	77.4	76.0	76.6	114.0	116.6	117.0	63.1	63.4	6
New Britain	4.3	4.6	4.6	14,1	14,5	14.6	6.7	6.8	
New Haven-Meriden	16.3	16.9	17.1	71.6	73.8	74.3	32.5	32.6	3
Stamford	14.0	14.4	14.7	38.2	38.2	39.0	10.8	10.8	1
Waterbury	4.6	4.7	4.8	21.2	22.1	22.3	12.8	12.9	1
elaware	29.4	32.8	33.5	77.5	78.9	81.1	48.8	48.6	4
Wilmington	26.1	28.3	29.0	68.1	68.6	69.7	38.2	38.9	3
Vashington MSA	35.0 128.0	34.8 130.7	35.2 132.7	243.1 707.1	253.3 735.1	254.8 742.8	278.1 572.3	275.6 587.1	28 59
orida	365.8	372.8	375.0	1 304 7	1 474 5	1 472 7	766.7	818.8	81
Orida		1	375.0	1,394.7	1,474.5	1,472.7			
Daytona Beach Fort Lauderdale-Hollywood-Pompano Beach	6.4 39.9	6.3 39.8	6.3	33.0	34.0	34.2	19.4	20.4	2
Fort Myers-Cape Coral	8.0	8.7	39.8 8.9	130.5 32.4	134.3 35.0	134.3 34.6	61.8 17.4	65.0 18.2	6 1
Jacksonville	39.1	39.2	39.5	104.9	109.2	109.3	58.7	61.5	6
Melbourne-Titusville-Palm Bay	5.7	5.7	5.7		47.9	48.0	21.4	21.9	. 2
Weibourne-Trusville-Paim bay	70.8		73.2	45.5 231.7		241.3			
		72.7		1	243.3		111.7	120.1	12
Orlando	33.3	33.8	34.0	163.8	170.8	174.0	57.2	60.1	6
Pensacola	5.6	5.6	5.6	32.0	32.5	32.7	29.3	30.1	2
Sarasota	8.5	8.5	8.5	33.4	34.5	34.5	13.7	14.1	1
Tallahassee	5.0	5.0	5.0	23.7	24.1	24.2	46.0	50.2	4
Tampa-St. Petersburg-Clearwater	65.7	66.1	66.6	239.3	252.1	252.7	102.5	108.9	10
	28.0	28.9	28.8	99.1	110.3	109.0	42.6	46.8	- 4

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(in thousands)

		Total			Mining		C	Construction	ı
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
Georgia	2,888.2	2,934.2	2,937.6	8.9	8.8	8.9	153.0	143.1	145.7
Athens	64.6	66.3	65.6	.1[.1	.1	2.6	2.3	2.4
Atlanta	1,424.4	1,434.5	1,438.0	1.5	1.4	1.4	71.9	67.5	68.2
Augusta	159.4	159.1	159.0	.5	.5	.5	10.2	10.4	10.6
Columbus	95.8	95.7	95.9	.1	.1	.1	5.3	5.0	5.1
Macon-Warner Robins		123.5	124.2	.1	.1	.1	5.2	5.1	5.3
Savannah		106.0	106.5	(1)	(¹)	(¹)	6.5	6.2	6.4
ławaii	478.9	492.7	493.1	(')	(¹)	(')	23.5	26.4	26.7
Honolulu	380.1	388.6	388.8	(1)	(1)	(¹)	18.6	20.2	20.5
daho	354.1	360,2	364.9	3.4	3.8	4.0	15.7	15.1	16.4
Boise City	93.2	97.1	98.3	(²)	(²)	(²)	5.1	4.8	5.0
linois		5,156.7	5,172.1	21.5	20.5	20.5	213.8	209.3	217.6
Aurora-Elgin		147.3	149.6	0	(¹)	(¹)	7.4	8.1	8.4
Bloomington-Normal		63.1	61.0	()	()	(¹)	1.9	2.4	2.5
Champaign-Urbana-Rantoul		89.9	86.1	(1)	(¹)	(¹)	2.8	2.6	2.8
Chicago		3,155.4	3,178.6	2.3	2.2	2.3	132.6	134.9	139.3
Davenport-Rock Island-Moline		157.7	157.7	Q	(¹)	(')	4.9	4.9	5.0
Decatur		52.4	52.9	(¹)	(')	(¹)	2.7	2.7	2.7
Joliet	98.9	99.6	99.2	(')	(¹)	(')	5.5	5.7	5.7
Kankakee	33.9	34.1	34.5	(')	(¹)	(¹)	1.3	1.3	1.3
Lake County		204.8	204.8	(')	(¹)	(¹)	9.8	11.4	11.8
Peoria	142.2	143.9	144.7	(1)	(¹)	(1)	6.0	6.4	6.5
Rockford	132.3	130.6	131.6	(1)	(')	(1)	4.5	4.4	4.7
Springfield	100.9	100.9	101.4	(1)	(')	(1)	3.0	3.0	3.1
ndiana		2,482.0	2,477.0	8.6	8.4	8.4	116.9	118.4	123.2
Anderson	48.9	50.2	50.2	(²)	(²)	(²)	1.5	1.6	1.7
Bloomington	51.9	57.3	57.7	(²)	(²)	(²)	2.4	3.1	3.3
Elkhart-Goshen	104.5	106.6	107.4	(²)	(²)	(²)	3.0	3.0	3.1
Evansville	130.0	133.0	133.7	2.2	2.0	2.0	7.5	7.7	7.8
Fort Wayne	192.8	199.0	199.8	(²)	(²)	(²)	10.0	10.2	10.7
Gary-Hammond		239.5	241.2	(2)	(²)	(²)	13,7	14.7	15.6
Indianapolis		647.7	650.0	9.	.9	.9	33.2	34.6	35.4
Lafayette-West Lafayette		67.4	64.7	(²)	(²)	(²)	3.2	3.7	3.9
Muncie		53.5	51.1	(2)	(²)	(²)	2.2	2.1	2.2
South Bend-Mishawaka		120.1	118.8	(²)	(²)	(2)	5.7	7.0	7.3
Terre Haute		55.1	55.2	.3	`´ .3	`` .3	2.1	2.5	2.6
owa	1,169.2	1,201.6	1,199.2	2.4	2.3	2.3	41.7	41.3	43.0
Cedar Rapids	89.3	91.5	91.4	.1	.1	.1	3.2	3.0	3.0
Des Moines	215.6	221.2	222.8	(1)	(¹)	(¹)	7.4	6.9	7.2
Dubuque		42.8	42.1	(')	(1)	(')	1.2	1,1	1.1
Sioux City		53.2	52.9	(i)	(¹)	(')	1,9	1.7	1.8
Waterloo-Cedar Falls		66.5	63.9	Ö	Ö	(')	2.2	2.5	2.7
(ansas		1,061.1	1,060.2	10.4	10.0	9.9	45.6	42.2	44.1
Topeka	90.4	90.8	90.8	(¹)	(¹)	(¹)	3.7	3.0	3.0
Wichita	236.4	242.4	243.6	2.1	2.0	1.9	10.5	9.9	10.2
Kentucky		1,398.5	1,400.2	36.6	34.5	34.7	65.3	62.3	64.7
Lexington-Fayette		198.0	194.4	.3	.2	.2	12.0	11.9	12.1
Louisville	455.8	458.9	463.3	.9	1.1	1.2	22.2	20.8	21.5
Owensboro	33.8	34.5	34.5	.7	.6	.6	2.3	2.0	2.1
Louisiana		1,517.9	1,519.3	56.9	56.8	56.9	85.1	89.7	89.7
Alexandria		45.7	45.7	.2	.2	.2	2.3	2.1	2.2
Baton Rouge		222.9	219.1	1.0	1.0	1.0	24.4	24.4	24.0
Houma-Thibodaux		54.4	54.7	5.9	5.9	5.9	1.8	1.8	1.8
Lafayette		86.5	85.5	11.6	11.5	11.4	3.1	3.8	3.7
Monroe	54.4	53.8	55.6	.5	.4	.4	2.4	2.3	2.4
New Orleans	518.2	519.7	519.7	15.3	15.0	15.1	23.1	23.2	23.0
Shreveport		128.9	128.7	3.4	3.0	3.0	6.6	6.5	6.4
Maine	530.9	524.7	535.3	.2	.2	.2	36.7	34.1	35.2
Lewiston-Auburn	40.9	41.2	41.0	(')	(¹)	(1)	2.4	2.2	2.3
Portland				(1)					

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

(In thousands)

On the section of	M	lanufacturing	9		nsportation a aublic utilities		Wholes	ale and reta	il trade
State and area	June 1988	Ma y 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
leorgia	578.7	567.0	564.5	182.7	181.5	182.9	733.6	763.8	762
Athens	14.9	15.1	15.1	1.7	1.9	2.0	14.2	14.6	14
Atlanta	186.8	176.3	172.8	120.5	116.1	117.0	398.5	409.9	412
Augusta	36.1	36.2	36.2	4.5	4.4	4.5	35.2	35.0	34
Columbus	20.4	21.1	21.1	3.6	3.6	3.7	21.3	20.8	20
Macon-Warner Robins	19.0	18.6	19.2	5.3	5.3	5.3	28.4	28.3	28
Savannah	17.6	17.6	17.7	9.6	10.2	10.1	26.1	26.1	26
lawaii	22.6	22.1	22.3	38.2	39.6	39.8	128.3	128.8	130
Honolulu	17.0	16.6	16.6	31.2	32.6	32.8	100.1	100.4	101
daho	59.6	59.5	61.9	18.5	18.9	18.8	87.8	89.1	90
Boise City	13.2	14.1	14.8	5.2	5.4	5.4	23.4	24.6	24
linois	975.3	981.4	984.3	302.2	302.1	304.1	1,253.8	1,286.2	1,291
Aurora-Elgin	38.8	38.3	39.0	3.1	2.9	3.0	39.0	40.0	40
Bloomington-Normal	6.1	8.1	8.1	2.7	2.7	2.6	13.3	13.2	13
Champaign-Urbana-Rantoul	8.2	9.0	9.0	2.3	2.3	2.3	20.1	20.3	20
Chicago	567.2	565.1	568.3	188.5	189.0	190.6	782.2	783.5	788
Davenport-Rock Island-Moline	32.3	32.9	32.8	8.0	8.1	8.1	42.7	43.3	43
Decatur	13.7	13.6	13.8	5.0	5.1	5.1	11.4	11.6	1
Joliet	19.3	19.4	19.6	8.4	8.3	8.3	22.9	22.9	2
Kankakee	5.3	5.6	5.6	1.3	1.3	1.3	8.4	8.5	- 1
	44.2	44.3	44.3				55.4	57.7	5
Lake County				7.1	7.1	7.2			
Peoria	34.8	35.6	35.6	7.0	7.1	7.1	33.9	34.0	34
Rockford	46.0 4.0	45.5 3.7	45.8 3.7	5.1 4.9	5.1 5.0	5.1 5.0	28.6 22.5	28.6 22.3	2:
diana	637.5	636.8	639.3	125.0	129.0	129.9	577.5	590.0	594
				1.4			11.5	11.7	
Anderson	17.1	17.0	16.8	l l	1.5	1.5			1
Bloomington	9.7	10.5	10.6	1.7	1.8	1.8	12.0	12.5	1.
Elkhart-Goshen	57.4	57.8	58.2	2.9	2.9	3.0	19.1	19.4	1!
Evansville	31.1	31.7	31.7	6.6	6.7	6.7	33.8	34.8	34
Fort Wayne	52.9	53.3	54.2	12.8	13.2	13.4	47.8	48.9	4
Gary-Hammond	56.6	57.2	57.6	15.6	15.7	15.9	55.1	57.6	5
Indianapolis	106.3	106.6	107.6	39.6	40.8	41.4	163.1	167.5	169
Lafayette-West Lafayette	12.3	12.3	12.4	1.9	1.9	1.9	13.0	13.2	10
Muncie	11.0	11.2	11.1	2.4	2.4	2.4	12.9	13.3	13
South Bend-Mishawaka	24.2	23.3	23.5	5.2	5.4	5.4	30.2	30.9	3
Terre Haute	10.3	10.1	10.3	3.0	3.2	3.3	14.8	15.0	15
wa	229.8	233.9	236.5	55.2	55.5	56.0	298.4	306.8	308
Cedar Rapids	23.3	23.7	24.0	5.3	5.5	5.7	21.4	21.8	21
Des Moines	26.2	26.3	26.4	12.5	12.5	12.6	55.8	57.6	58
Dubuque	11.9	12.4	12.6	1.8	1.8	1.8	9.9	9.9	10
Sioux City	9.8	10.5	10.6	3.1	3.4	3.5	13.6	13.8	13
Waterloo-Cedar Falls	14.8	15.4	15.2	1.8	1.9	1.8	15.1	15.8	18
ansas	182.6	184.8	184.6	64.8	65.7	65.7	261.2	260.6	26
Topeka	9.5	9.3	9.6	6.7	6.6	6.6	21.6	22.1	22
Wichita	61.4	63.9	64.3	10.9	11.5	11.7	55.1	54.5	5
entucky	275.7	281.7	284.2	73.5	75.4	75.5	328.4	333.7	334
Lexington~Fayette	31.7	34.6	34.7	8.4	8.2	8.2	42.4	43.3	4:
Louisville	88.5	87.3	88.1	28.7	29.2	29.3	113.9	111.3	112
Owensboro	5.9	6.3	6.4	2.2	2.1	2.1	8.7	8.7	
puisiana	170.6	171.8	174.2	106.9	108.3	109.0	360.2	363.0	36
Alexandria	3.3	3.4	3.5	2.1	2.1	2.1	11.0	10.7	1
Baton Rouge	19.2	19.6	19.8	10.4	10.4	10.4	52.2	53.5	5
Houma-Thibodaux	4.8	4.5	4.6	6.2	6.2	6.2	14.0	13.8	14
Lafayette	7.4	6.8	6.9	6.1	6.2	5.9	23.3	23.3	2
Monroe	7.4	7.2	7.2	2.9	2.8	2.9	14.0	13.3	11
New Orleans	43.5 18.2	43.4 17.3	44.0 17.7	44.5 8.1	44.2 8.0	44.6 8.1	135.2 32.0	134.7 31.5	13 3
·	[-					İ		
aineLewiston-Auburn	108.9 10.6	105.7 10.1	108.3 10.1	21.5 1.5	21.6 1.4	22.0 1.4	131.2 10.0	127.3 10.4	13 1
Portland	17.0	17.4	17.5	5.6	5.3	5.5	38.8	39.5	4
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ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

Charles and array		nce, insurar id real estat			Services			Government	
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
eorgia	162.4	163.7	164.0	573.7	590.4	594.1	495.3	516.0	515.3
Athens	1.9	2.0	2.0	10.2	10.3	10.4	18.9	20.1	19.4
Atlanta	103.6	105.1	105.0	338.1	347.9	352.0	203.4	210.3	209.€
Augusta	5.9	5.5	5.5	33.0	33.2	33.4	33.9	33.9	33.5
Columbus	6.6	6.5	6.5	17.6	17.8	17.6	20.8	20.8	20.9
Macon-Warner Robins	7.5	8.0	8.1	23.2	23.6	23.3	33.0	34.4	34.
Savannah	4.7	4.5	4.6	25.3	25.0	25.1	16.2	16.5	16.
awaii	35.0	35.6	35.9	132.0	136.7	137.2	99.3	103.5	101.0
Honolulu	29.6	29.9	30.1	100.3	102.1	102.7	83.3	86.8	84.5
laho	19.6	19.2	19.3	73.1	75.9	77.1	76.4	78.7	77.0
Boise City	7.7	7.6	7.8	20.9	22.1	22.5	17.7	18.5	18.0
inols	372.2	371.2	374.7	1,231.5	1,248.8	1,257.1	722.9	737.2	722.0
Aurora-Elgin	8.6	8.8	8.9	32.0	33.2	33.8	15.9	16.0	16.0
Bloomington-Normal	10.0	10.0	10.1	13.4	13.4	13.4	11.0	13.3	11.0
Champaign-Urbana-Rantoul	3.4	3.5	3.5	16.6	16.8	17.1	31.3	35.4	31.
Chicago	272.6	271.6	274.0	818.1	836.8	842.1	367.4	372.3	373.
Davenport-Rock Island-Moline	8.2	8.3	8.3	32.8	33.0	33.0	27.1	27.2	27.
Decatur	2.2	2.1	2.1	11.7	11.6	11.9	5.5	5.7	5.
oliet	3.8	3.7	3.7	22.2	22.2	22.2	16.5	17.4	16.
Cankakee	1.6	1.5	1.6	9.2	9.2	9.6	6.8	6.7	6.
ake County	7.1	7.1	7.2	46.5	44.8	44.9	30.9	32.4	31.
Peoria	7.4	7.5	7.6	37.1	36.6	37.4	16.0	16.7	16.
Rockford	5.3	5.3		30.3	29.7				
Springfield	8.0	8.1	5.4 8.2	25.6	29.7 25.7	30.1 26.1	12.5 32.8	12.0 33.1	11. 33.
diana	121.5	123.8	126.1	479.9	500.8	501.6	345.8	374.8	354.
Anderson	1.7	1.7	1.7	9.9	10.3	10.0	5.9	6.5	6.
Bloomington	2.0	2.1	2.3	8.8	9.5	9.6	15.4	17.7	17.
Elkhart-Goshen	2.7	2.8	2.8	13.8	14.7	14.8	5.6	6.0	5.
Evansville	5.2	5.3	5.4	30.8	31.7	32.1	12.7	13.1	13.
Fort Wayne	12.7	12.9	13.2	39.7	41.2	41.8	16.9	19.2	17.
Gary-Hammond	8.4	8.5	8.6	50.6	53.5	53.8	30.7	32.4	31.
ndianapolis	49.1	49.1	50.0	145.1	150.6	151.1	90.6	97.5	94.
Lafayette-West Lafayette	3.1	3.3	3.3	11.3	12.0	12.1	17.4	21.0	18.
Muncie	1,7	1,7	1.7	11.2	11.3	11.4	9.4 (11.6	9.
South Bend-Mishawaka	6.1	6.3	6.4	30.5	35.3	33.3	10.5	11.9	11.
Terre Haute	2.0	2.0	2.1	11.3	12.1	12.0	9.4	10.0	9.6
wa	66.7	67.7	68.6	260.6	273.1	269.3	214.4	221.0	214.
Cedar Rapids	4.8	4.9	5.0	21.1	22.3	21.7	10.1	10.2	10.0
Des Moines	29.0	30.5	30.8	53.9	56.5	57.0	30.6	30.7	30.
Dubuque	1.4	1.5	1.5	11.1	12.6	11.5	3.5	3.4	3.
Sioux City	2.6	2.6	2.6	14.2	14.6	13.9	6.6	6.6	6.
Waterloo-Cedar Falls	3.0	2.9	2.9	14.2	14.8	14.4	11.4	13.1	11.
ansas	58.9	58.4	58.9	213.1	221.7	222.1	203.2	217.7	212.
Topeka	6.5	6.6	6.7	20.8	20.7	20.8	21.5	22.4	21.9
Wichita	11.2	10.8	10.9	56.5	59.3	59.5	28.7	30,5	29.9
entucky	60.0	58.5	59.1	296.0	302.7	304.6	241.7	249.7	243.0
Lexington-Fayette	9.2	9.3	9.3	43.2	43.1	42.6	43.0	47.4	43.
Louisville	27.5	26.4	26.7	114.3	119.5	121.0	59.8	63.3	62.8
Owensboro	1.4	1.3	1.4	7.8	7.9	7.9	4.8	5.6	5.0
ouisiana	82.9 2.6	80.3 2.5	80.5 2.6	324.8 11.4	331.0 11.5	330.4 11.5	313.7 12.6	317.0 13.2	314.
									12.
Baton Rouge	13.9	13.6	13.4	46.3	46.1	46.4	50.2	54.3	50.
Houma-Thibodaux	2.2	2.1	2.2	9.1	9.4	9.6	10.3	10.7	10.
Lafayette	3.6	3.5	3.5	18.8	18.7	18.7	11.6	12.7	12.
Monroe	4.4	4.2	4.2	11.6	12.2	12.1	11.2	11.4	12.
New Orleans	33.8 6.8	33.3 6.2	33.3 6.2	136.4 31.9	138.6 30.9	137.4 30.5	86.4 23.7	87.3 25.5	87. 25.
	i i	,		\			}		
laine	25.6 2.2	25.5 2.3	25.8 2.3	116.5 10.3	115.2 10.8	118.3 10.6	90.3 3.9	95.1 4.0	93. 3.
Portland	12.3	12.0	12.1	31.7	32.7	i	15.1		
	12.3	12.0	12.1	: 31./	32.7	34.5	151	17.0	16.

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

(In thousands)

State and area	Total				Mining	Ì	Construction		
	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
Maryland	2.106.2	2.126.5	2,140.2	1,8	1.7	1.7	163.3	160.1	162.6
Baltimore MSA	1,122.1	1,130.5	1,136.3	.3	.3	.3	77.3	76.3	77.4
Baltimore City	469.5	473.8	475.5	(')	(')	(1)	20.0	19.5	19.8
Suburban Maryland-D.C	747.9	767.7	768.8	6.	.5	`´ .5	68.3	68.7	69.1
Massachusetts	3,153.5	3,154.9	3,176.0	1.7	1.3	1.4	152.4	142.2	146.5
Boston	1,765.4	1,769.3	1,770.9	.9	1.0	1.0	76.5	74.1	76.4
Brockton		75.8	76.3	()	()	(')	4.3	4.5	4.6
Fall River	56.7 42.1	56.9 42.5	57.4 42.9	()	()	(1)	3.3 2.8	3.7 2.9	3.8 2.9
Fitchburg-Leominster		167.7	169.6	(0)	(b)	8 1	8.1	8.0	8.2
Lowell	111.1	111.8	112.2	.2	.2	.2	6.3	6.4	6.7
New Bedford	69.0	69.6	70.3	(')	(¹)	(')	3.6	4.0	4.1
Pittsfield	43.6	43.3	44.6	`` .1	.1	.1	2.8	2.9	3.1
Springfield	244.1	245.0	246.2	:	.1	.1	10.7	11.1	11.6
Worcester	209.5	216.1	217.8	.1	.1	.1	11.1	10.9	11.4
Michigan	3,816.4	3,889.4	3,882.3	11.0	10.9	11.2	141.3	136.9	140.3
Ann Arbor	168.8	176.3	174.7	(')	(')	(')	6.6	5.6	6.0
Battle Creek	58.4	59.1	59.6	6	(6)	(i)	1.9	1.9	2.3
Benton Harbor	65.9	67.8	67.5) (i)	(i)	Ö	1.7	1.6	1.7
Detroit		1,944.9	1,951.6	le. `` l	.8	.9	65.8	65.7	66.6
Flint	163.3	169.3	169.8	(¹)	(¹)	(1)	5.4	5.3	5.5
Grand Rapids	330.4	340.5	339.5	(i)	(')	Č)	17.3	17.6	18.1
Jackson	52.7	54.9	54.7	િંછી	Ö	(i)	1.5	1.6	1.7
Kalamazoo	106.8	109.8	109.9	{	(6)	Ö	3.5	3.7	3.8
Lansing-East Lansing	209.4	217.5	216.9	l Ö l	(')	Ö	6.9	6.1	6.5
Muskegon	57.9	57.9	58.1	Ö	(i)	(i)	2.4	2.6	2.7
Saginaw-Bay City-Midland	155.6	157.9	158.0	(')	(')	(1)	7.8	7.2	7.€
Minnesota	2,050.1	2,090.4	2,105.1	7.4	7.3	7.7	86.3	81.2	87.3
Duluth	92.1	93.1	93.9	4.8	4.9	5.1	3.6	3.1	3.€
Minneapolis-St. Paul	1,332,9	1,360.2	1,371.9	(')	(¹)	(1)	56.0	54.1	57.4
Rochester	60.7	62.3	62.5	(²)	(²) (²)	(²) (²)	2.3	2.0	2.3
St. Cloud	72.2	75.7	74.5	(²)	(7)	(7)	3.8	4.0	4.2
Mississippi	897.4	915.1	913.7	6.4	5.9	5.8	37.9	34.9	34.7
Jackson	181.7	185.6	184.6	.9	.9	.9	8.9	8.4	8.4
Missouri	2,250.2	2,281.5	2,279.3	5.5	5.3	5.4	98.6	90.8	95.2
Kansas City	760.3	768.9	772.6	.6	.6	.5	34.7	32.6	33.5
St. Louis	1,147.7	1,156.0 115.0	1,156.5 112.3	3.3	3.2	3.2	57.4 4.9	49.8 4.6	55.4 4.7
				(1		1		
Montana	283.9	283.2	288.4	6.2	6.3	6.4	9.5	8.9	9.6
Nebraska	692.8	715.5	718.8	1.8	1.8	1.8	26.5	27.4	28.2
Lincoln	115.7	121.8	121.5	(')	(')	(¹)	4.6	4.2	4.3
Omaha	311.5	320.9	325.0	.2	.2	.2	12.5	12.4	12.6
Nevada	538.8	570.2	574.7	11.1	12.7	13.0	37.3	42.6	44.1
Las Vegas	305.5	328.4	328.4	.2	.2	.2	22.8	27.5	28.2
Reno	137.5	142.8	144.8	1.3	1.4	1.5	7.7	8.3	8.7
New Hampshire	532.7	533.4	540.4	.8	.7	.7	38.8	34.4	35.0
Manchester	86.3	86.4	86.9	(²)	(²)	(²)	6.0	6.2	6.3
Nashua Portsmouth-Dover-Rochester	96.9 113.5	95.2 114.1	96.6 115.0	.1 .2	.1	.1	5.2 6.5	4.5 5.8	4.5 5.8
	}		i l]				
New Jersey	3,692.6	3,685.5	3,728.9	2.4	2.5	2.5	180.5	178.2	181.8
Atlantic City	179.3	174.8	185.9	(1)	(')	(')	11.0	11.5	12.1
Bergen-Passaic	677.9	683.9	689.1	.1	-2	.2	33.8	34.1	34.9
Camden	436.2 246.0	443.3 248.4	447.2 249.6	.1	.1	(1)	24.8 7.3	24.6 7.8	25.3 7.8
Middlesex-Somerset-Hunterdon	531.4	541.8	546.7	(¹) .7	(¹) .6	(¹) .6	24.7	25.2	25.5
Monmouth-Ocean	340.6	337.7	347.7	(b) (1)	(¹)	(¹)	22.0	23.2	23.7
Newark	958.7	964.5	969.3	.7	.7	.7	40.4	40.6	41.3
Trenton	200.5	199.9	200.1	(0)	(b) "	(')	5.6	5.7	6.0
Vineland-Millville-Bridgeton	58.1	59.1	59.4	.4	.4	.41	2.5	2.4	2.4

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

State and area	Manufacturing				nsportation a ublic utilities		Wholesale and retail trade		
	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
Maryland	210.7	205.6	207.5	96.6	95.1	95.8	536.5	540.3	545
Baltimore MSA	134.1	129.6	130.2	55.2	55.6	56.0	275.0	276.5	278
Baltimore City	45.4	45.5	45.5	27.9	27.8	27.9	96.8	96.2	96
Suburban Maryland-D.C.	35.8	36.7	36.6	27.6	28.0	28.2	199.3	203.3	204
Massachusetts	589.8	574.4	576.3	135.8	135.6	137.0	742.9	729.2	740
Boston	273.8	266.7	267.5	77.8	77.1	76.6	392.9	384.9	387
Brockton	11.1	11.0	11.0	5.3	5.0	5.1	22.6	22.8	22
Fall River	15.8	15.1	14.9	2.0	2.0	2.0	14.4	14.4	14
Fitchburg-Leominster	12.0	12.2	12.4	1.6	1.6	1.5	10.2	10.4	10
Lawrence-Haverhill	51.2	47.4	47.5	7.1	7.4	7.5	37.4	38.3	38
Lowell	36.9	36.0	35.9	4.9	5.3	5.7	23.5	24.1	23
New Bedford	19.2	18.0	18.1	3.1	3.1	3.0	16.6	16.8	17
Pittsfield	11.2 51.3	10.9	11.0 50.3	1.2 9.9	1.2 10.5	1.3	9.8 57.9	10.2	10 59
Springfield	45.2	50.4 45.9	46.3	9.5	9.8	10.6 9.9	50.4	58.4 52.1	52
	050.1	050.5	051.1	157.0	155.0	455.0	007.0	016.5	001
Ann Arbor	958.1 39.3	953.5 38.6	951.1 38.4	157.8	155.0 3.9	155.9 4.0	897.8	916.5 33.3	923
Ann Arbor	15.7	15.4	38.4 15.4	4.4 1.9	1.8	1.8	31.1 12.0	12.4	12
Benton Harbor	22.3	22.3	22.4	2.4	2.4	2.4	14.2	14.8	1:
Detroit	457.3	468.4	470.4	89.0	87.5	88.0	448.8	463.9	46
Flint	49.0	51.3	50.6	4.1	4.1	4.2	44.0	45.5	4
Grand Rapids	99.5	99.7	100.6	11.6	12.1	12.1	85.9	89.4	9
Jackson	13.4	14.0	14.0	4.2	4.2	4.2	11.8	12.4	1
Kalamazoo	30.7	30.6	30.5	3.2	3.3	3.4	24.4	26.1	2
Lansing-East Lansing	34.3	32.6	32.8	5.4	5.5	5.5	45.1	47.7	4
Muskegon	17.2	16.4	16.5	2.4	2.3	2.3	13.6	13.6	1
Saginaw-Bay City-Midland	43.8	43.4	43.3	6.9	7.0	7.0	36.9	36.7	3
innesota	398.7	397.3	402.3	102.0	105.3	105.3	515.3	523.6	52
Duluth	8.0	8.2	8.2	5.8	5.8	6.0	23.1	22.6	2
Minneapolis-St. Paul	265.8	267.6	268.9	70.4	72.8	73.1	331.3	337.3	34
Rochester	11.2	11.3	11.4	1.8	1.7	1.8	12.3	12.7	. 1
St. Cloud	13.4	13.6	13.9	3.6	3.7	3.8	21.9	22.6	2.
lississippi Jackson	240.8 21.2	242.6 21.3	244.1 21.3	44.2 13.3	44.5 13.4	44.8 13.4	192.4 42.8	196.2 43.9	19 4
lissouri	429.7	434.3	434.3	147.8	148.8	148.9	556.6	559.9	562
Kansas City	111.6	110.3	111.0	61.5	62.6	63.2	197.8	198.6	19
St. Louis	223.1	226.8	224.6	74.6	75.1	75.0	278.8	280.9	28
Springfield	21.6	21.2	21.3	6.9	7.1	7.2	31.7	32.4	3
ontana	20.6	21.2	21.8	19.5	19.7	20.1	74.2	73.4	7
ebraska	95.5	97.5	98.9	45.2	47.2	47.5	178.1	184.1	18:
Lincoln	14.5	14.9	15.0	6.2	6.6	6.7	26.4	27.4	2
Omaha	35.2	35.4	35.9	24.3	25.9	26.0	78.6	80.0	8
evada	25.2	26.3	26.3	29.1	30.3	30.6	109.1	114.8	11
Las Vegas	9.4	10.3	10.3	16.4	17.1	17.2	63.7	67.3	6
Reno	8.8	9.0	9.0	9.4	9.7	9.8	31.3	33.0	3
ew Hampshire	118.7	117.8	118.8	18.3	17.7	18.2	136.3	137.0	14
Manchester	12.2	11.5	11.5	5.4	5.6	5.6	24.1	23.5	2
NashuaPortsmouth-Dover-Rochester	36.6 20.9	36.2 20.7	36,7 20.8	2.6 3.1	2.7 3.2	2.8 3.3	22.7 29.7	21.5 30.0	2
	Ì		ı						
ew Jersey	671.8	661.3	664.2	244.4	243.2	243.5	880.7	872.8	88
Atlantic City	8.7	8.4	8.5	6.8	6.6	6.7	43.2	39.2	4
Bergen-Passaic	159.4	156.2	156.5	28.1	28.2	28.2	191.0	192.3	19
Camden	72.8	72.3	73.2	19.1	20.2	20.3	116.7	118.5	11
Jersey City	46.0	45.9	46.3	33.3	33.4	33.6	61.4	62.1	(
Middlesex-Somerset-Hunterdon	116.0	116.2	117.0	43.7	44.9	45.3	125.6	127.4	12
Monmouth-Ocean	29.7	29.7	29.7	17.7	18.8	18.8	92.8	87.9	9
Newark	176.5	172.2	173.1	79.5	78.9	78.8	196.4	196.2	19
Trenton	31.9	30.9	30.4	6.6	6.7	6.7	31.5	32.3	3
Vineland-Millville-Bridgeton	15.1	15.3	15.5	2.4	2.3	2.4	11.7	12.5	1

B-8. Employees on nonagricultural payrolls in States and selected areas by major industry--Continued

(In thousands)

State and area	Finance, insurance, and real estate				Services		Government		
	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989
Aaryland	131.1	131.4	133.4	570.4	576.0	584.8	395.8	416.3	40
Baltimore MSA	77.9	77.4	78.2	296.4	302.6	305.2	205.9	212.2	21
Baltimore City	46.1	45.4	46.0	142.0	147.1	147.3	91.3	92.3	9
Suburban Maryland-D.C	43.8	44.6	45.4	221.2	222.4	224.4	151.3	163.5	15
lassachusetts	228.3	233.2	237.1	892.7	929.4	926.3	409.9	409.6	41
Boston	156.5	158.9	161.3	576.4	596.7	589.2	210.6	209.9	21
Brockton	3.4	3.4	3.5	15.7	16.7	16.7	12.0	12.4	1.
Fall River	3.3	3.4	3.6	10.9	11.2	11.5	7.0	7.1	
Fitchburg-Leominster	1.7	1.7	1.7	8.9	9.0	9.2	4.9	4.7	_
Lawrence-Haverhill	6.8	7.1	7.3	36.6	37.7	38.7	21.9	21.8	2
Lowell	4.0	4.1	4.2	21.5	22.0	21.8	13.8	13.7	1
New Bedford	2.6	2.6	2.6	13.9	14.5	14.7	10.0	10.6	1
Pittsfield	2.1	2.0	2.0	11.5	11.1	11.7	4.9	4.9	•
Springfield	16.0 14.7	15.7 15.4	15.9 15.9	58.9 53.5	60.7 56.6	60.4 56.6	39.3 24.8	38.1 25.3	3 2
							į		
Chigan	187.3	187.9	189.8	855.3	883.2	884.5	607.7	645.6	62
Ann Arbor	4.7	5.0	5.1	34.9	38.4	38.6	47.6	51.3	4
Sattle Creek	3.5	3.5	3.6	11.8	12.0	12.1	11.8	12.1	•
Benton Harbor	2.6	2.5	2.6	13.8	15.1	14.6	8.6	8.9	21
Detroit	111.0	109.5	110.7	483.6	494.8	497.3	244.0	254.3	25
Fint	6.0 15.2	6.0	6.0	32.4	33.2	33.7	22.5	23.9	2
ackson	2.1	15.6	15.7	69.0	72.2	70.5	31.7	33.6 10.3	3
	4.8	1.9 5.1	2.0	9.9 24.3	10.2	10.2 25.0	9.7		
alamazoo	12.4		5.1	I	24.8	1	15.8	16.1 70.5	
ansing-East Lansing	1.4	13.1	13.2 1.4	40.5 12.0	41.6 12.2	42.2 12.3	64.4 8.9	9.3	•
luskegonaginaw-Bay City-Midland	6.2	6.3	6.4	33.4	35.6	35.7	20.3	21.4	
	400.0	404.4	400.0	404.0	540.0	545.4	000.0	0.04	•
nnesota	120.2	121.4	123.0	494.0	512.2	515.1	326.3	342.1	3:
Juluth	3.2	3.1	3.2	22.7	22.6	23.0	20.9	22.7	
Minneapolis-St. Paul	93.5 1.5	95.2 1.5	96.3 1.5	335.2 25.2	346.1	349.0 26.2	180.1	186.6	18
Rochester	2.3	2.2	2.3	15.2	26.4 16.0	15.3	6.3 11.9	6.6 13.6	
ssissippi	39.3	39.1	39.5	148.1	150.7	155.8	188.3	201.2	19
ackson	14.7	14.7	14.8	39.9	42.1	41.8	39.8	40.8	3
ssouri	137.3	135.8	137.2	527.9	538.5	542.3	346.8	368.1	35
(ansas City	58.6	58.0	58.3	179.7	186.5	187.3	115.8	119.7	11
St. Louis	76.5	75.3	76.0	294.1	301.0	302.5	139.9	143.9	10
pringfield	5.2	5.3	5.3	27.5	29.3	28.5	12.5	15.0	
ntana	13.5	13.5	13.5	67.7	68.2	69.0	72.7	72.0	
braska	48.2	49.2	49.6	159.4	166.0	167.9	138.1	142.3	14
incoln	8.4	8.4	8.4	26.2	28.3	28.7	29.4	32.0	:
maha	28.8	29.6	30.0	85.8	89.8	91.8	46.1	47.6	
vada	24.6	26.1	26.4	237.2	245.5	249.2	65.2	71.9	
as Vegas	15.2	16.6	16.7	145.3	152.8	153.7	32.5	36.6	:
leno	6.9	7.1	7.2	55.7	56.6	58.1	16.4	17.7	•
w Hampshire	32.8	33.0	33.6	119.6	120.7	124.5	67.4	72.1	
fanchester	8.1	8.5	8.6	21.7	22.1	22.3	8.8	9.0	
ashuaortsmouth-Dover-Rochester	3.9 7.0	3.7 7.1	3.7 7.2	19.0 21.8	19.2 21.2	19.8 22.5	6.8 24.3	7.3 26.0	:
	į.					ļ	į	ŀ	
w Jersey	238.4	240.8	245.2	917.7	926.1	939.9	556.7	560.6	5
tlantic City	7.7	7.6	7.8	75.7	76.0	79.4	26.1	25.4	
ergen-Passaic	39.7	41.0	41.8	156.0	161.2	162.7	69.8	70.7	
amden	25.1	25.8	26.3	105.1	108.1	108.9	72.5	73.7	
ersey City	13.3 37.6	13.7	13.7 39.5	43.3	43.7	44.0	41.4	41.8	
liddlesex-Somerset-Hunterdon	18.8	38.9		111.2	114.3	116.0	71.9	74.3	
lonmouth-Ocean	18.8 79.3	18.9 80.0	19.2 80.9	95.5	95.3	99.1	64.0	63.7	1.
renton	9.8	10.0	10.2	250.7 58.1	254.9 58.6	257.1 58.4	135.2 57.0	141.0 55.7	14
renton	3.4	3.5	3.5					1	
	3.4	3.5	3.5	10.8	10.8	10.7	11.8	11.9	-

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

State and area	Total				Mining		Construction		
	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
Manu Manian	541.2	553.7	557.4	15.5	15.3	15.5	31.3	30.0	30.7
New Mexico	235.8	240.4	239.8	.2	.1	.1	15.2	14.8	14.8
Las Cruces	39.2	42.2	41.2	.1	.1	.1	2.2	2.3	2.3
Santa Fe	56.4	56.0	57.4	.1	, i	.;	2.8	2.5	2.6
New York	8,262.9	8,277.2	8,345.3	6.3	6.1	6.2	353.3	347.0	360.3
Albany-Schenectady-Troy	417.3	423.7	427.0	.5	.6	.6	21.9	21.4	22.6
Binghamton	124.7	123.8	124.3	(1)	(¹)	(¹)	6.0	5.9	6.1
Buffalo	449.6	452.9	456.3	.4	.2	.3	18.6	17.2	18.6
Elmira	40.0	41.8	42.6	(¹)	(1)	(')	1.7	1.8	1.9
Nassau-Suffolk	1,162.4	1,155.7	1,165.1	.2	.2	.2	62.8	61.5	62.2
New York PMSA	4,160.3	4,145.1	4,170.7	1.1	1.0	1.0	156.1	154.6	157.8
New York City	3,620.1	3,612.7	3,631.3	.6	.5	.5	122.2	122.0	124.2
Niagara Falls	83.6 107.0	84.4 107.5	85.1 108.8	(1)	(')	(1)	3.5 5.9	3.5 5.8	3.7 6.0
Orange County Poughkeepsie	121.9	121.9	122.7	(²)	(2)	(2)	7.4	7.3	7.7
Rochester	482.2	490.9	491.6	.8	.7	.8	19.9	19.9	20.7
Rockland County	101.8	101.2	102.4	(²)	(²)	(2)	5.0	4.9	4.9
Syracuse	306.6	309.4	310.4	.2	`′ .2	.2	15.9	15.5	16.2
Utica-Rome	126.8	127.8	128.3	.2	.2	.2	4.5	4.1	4.5
Westchester County	419.3	412.6	417.9	.2	.2	.2	27.1	26.2	26.9
North Carolina	2,983.3	3,020.2	3,035.8	4.8	5.0	5.0	168.7	161.2	163.6
Asheville	82.4	83.2	84.7	.1	.1	.1	4.3	4.6	4.7
Charlotte-Gastonia-Rock Hill	594.1	606.8	608.5	.4	.4	.4	37.5	37.1	37.7
Greensboro-Winston-Salem-High Point	482.2	483.1	483.5	.3	.3	.3	25.2	23.7	23.6
Raleigh-Durham	394.1	401.0	402.0	.4	.3	.3	22.6	21.4	21.8
North Dakota	260.8	260.9	262.6	4.4	3.9	4.2	11.9	10.1	11.4
Bismarck	37.8	38.8	39.2	.2	.2	.2	1.7	1.5	1.7
Fargo-Moorhead	72.0 29.6	75.9 31.3	74.6 30.1	(†) (†)	(¹) (¹)	(†) (†)	3.8 1.5	3.5 1.4	4.0
Ohio	4,715.4	4,811.3	4,831.2	19.6	19.2	19.7	191.2	197.0	206.2
Akron	270.4	283.1	278.9	.6	.6	.6	10.2	10.4	11.0
Canton	160.8 704.2	165.0 730.7	165.6	.9 .4	.9 .5	1.0 .5	6.5	6.9	7.3 35.7
Cincinnati	911.0	926.9	734.4 933.2	.9	.s .9	1.0	32.1 29.0	34.5 28.4	30.0
Columbus	681.6	701.8	705.0	1.0	.9	1.0	29.3	31.2	32.6
Dayton-Springfield	437.8	449.7	450.9	.4	.4	.5	18.6	19.9	20.8
Toledo	285.5	295.2	294.3	.3	.3	.3	11.0	12.2	12.6
Youngstown-Warren	196.9	200.0	200.5	.7	.7	.7	8.2	8.5	9.1
Oklahoma	1,141.0	1,146.1	1,146.0	44.7	43.8	43.9	36.1	34.3	34.7
Enid	21.7	21.0	21.2	1.1	1.0	1.0	.8	.7	
Lawton	34.0	34.2	34.6	.3	.3	.3	1.1	1.1	1.1
Oklahoma City	409.7	408.2	405.7	12.0	10.1	9.7	13.2	11.0	11.1
Tulsa	298.0	300.6	303.1	14.3	14.5	14.6	10.2	8.5	8.8
Oregon	1,163.6	1,193.3	1,210.7	1.4	1.5	1.6	40.2	43.2	44.4
Eugene-Springfield	111.7	114.0	115.4	.2	.2	.2	3.6	3.8	4.1
Portland	584.1	600.6	606.7	.5	.5	.5	21.4	22.8	23.7
Salem	101.9	102.7	104.5	.1	.1	.1	3.7	3.8	4.0
Pennsylvania		5,112.4	5,134.0	29.6	28.0	28.1	241.0	240.1	251.5
Allentown-Bethlehem	281.4	284.1	285.0	.7	.6	.6	14.4	14.3	14.6
Altoona	52.2	52.1	52.9	(2)	(²)	(²)	2.4	2.3	2.4
Beaver County	50.0	49.4	49.4	(2)	(²)	(²)	2.1	1.4	1.5
Erie	113.9	116.8	116.7	.2	.2	.2	3.6	3.5	3.7
Harrisburg-Lebanon-Carlisle		306.6	307.9	.3	.3	.3	13.7	13.4	13.9
Johnstown	80.5	80.9	81.4	3.1	3.1	3.1	3.1	2.8	3.0
Lancaster		189.9	189.5	.4	.4	.4	11.6	11.9	12.3
Philadelphia PMSA	2,179.5	2,189.2	2,195.8	1.1	1.0	1.0	109.6	106.8	110.3
Pritageiphia City	778.5 882.8	780.2 885.6	781.8 891.1	(²) 4.7	(²) 4.4	(²) 4.4	18.0 42.0	17.4 38.6	18.1 40.1
r mapururi	002.8	0.00	691.1	4./	4.4	4.41	42.01	.38.51	4U.1

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

(in thousands)

Chata and area	, A	/anufacturing	ı		nsportation a aublic utilities		Wholes	sale and reta	il trade
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989
Jan. Maria	30.0	40.9	41.3	20.4	28.6	27.0	121.0	104.0	106
lew Mexico	39.9			28.4		27.9	131.0	134.2	136
Albuquerque	20.4	20.5	20.7	12.6	12.8	12.6	60.5	61.9	62
Las Cruces	3.7 1.6	3.6 1.6	3.6 1.6	1.3 1.1	1.4 1.1	1.3 1.1	8.7 11.0	9.2 11.3	11
Salla Fe	"."	1.0	1.0	'.'	''' j	'.'	11.0	11.3	
lew York	1,219.1	1,191.9	1,198.2	414.9	412.9	417.2	1,732.1	1,731.4	1,748
Albany-Schenectady-Troy	47.8	47.7	48.2	16.3	16.8	16.9	88.6	92.4	93
Binghamton	39.0	36.7	36.9	4.4	4.3	4.4	26.2	26.9	2
Buffalo	77.4	77.3	77.5	21.9	21.4	21,7	111.0	113.8	114
Elmira	8.1	9.2	9.5	1.4	1.4	1.4	10.7	10.8	1
Nassau-Suffolk	171.0	164.3	164.0	49.7	49.4	49.8	311.0	309.7	31
New York PMSA	451.8	437.1	438.8	245.2	241.5	243.4	760.4	758.9	76
New York City	368.9	357.7	359.3	219.5	215.6	217.5	635.1	634.1	63
Niagara Falls	24.1	23.7	23.8	4,1	4.0	4.1	19.5	19.4	1
Orange County	15.7	15.2	15.3	6.0	6.2	6.2	28.6	29.1	2
Poughkeepsie	30.7	30.0	30,4	3.4	3.8	3.8	22.5	22.6	2
Rochester	137.4	137.9	138.9	14.7	14.8	14.9	103.3	103.6	10
Rockland County	15.5	15.4	15.5	4.6	4.4	4.4	23.7	24.0	2
Syracuse	54.4	54.2	54.3	18.6	18.6	18.8	73.0	73.9	7
Utica-Rome	25.0	25.0	25.2	4.3	4.3	4.4	27.8	27.3	2
Westchester County	65.7	62.2	62.2	20.4	20.8	20.8	97.0	96.3	9
	ĺ	1				ļ			
orth Carolina	867.7	865.6	869.5	147.9	149.6	150.6	677.8	692.0	69
Asheville	19.3	19.1	19.2	3.9	3.9	3.9	19.4	20.1	2
Charlotte-Gastonia-Rock Hill	155.5	155.4	155.8	48.8	47.1	47.7	144.8	149.9	15
Greensboro-Winston-Salem-High Point	154.7	150.4	150.8	27.0	26.6	26.6	109.8	110.7	11
Raleigh-Durham	59.0	61.8	62.6	17.6	17.4	17.4	83.9	84.7	8
orth Dakota	16.6	16.1	16.3	16.7	17.1	17.2	69.5	69.4	6
Bismarck	2.1	2.2	2.3	2.7	2.7	2.7	10.0	10.3	1
Fargo-Moorhead	4.9	5.1	5,2	4.6	4.8	4.9	21.4	22.1	2
Grand Forks	1.8	1.7	1.6	1.6	1.7	1.6	8.5	8.8	
thio	1,107.6	1,107.5	1,112.2	213.1	214.3	215.8	1,135.5	1,165.5	1,17
Akron	66.4	66.0	66.2	13.0	13.1	13.2	67.7	70.7	7
Canton	45.1	45.8	45.8	5.8	6.0	6.1	39.8	41.2	4
Cincinnati	144.2	146.5	147.4	37.9	40.3	40.8	179.3	187.5	18
Cleveland	202.2	204.8	205.4	41.6	41.5	41.8	221.4	225.3	22
Columbus	102.7	102.9	102.8	29.6	30.7	30.9	172.6	179.9	18
Dayton-Springfield	104.9	104.6	104.4	16.9	17.4	17.5	99.8	102.2	10
Toledo	63.5	61.4	62.0	13.1	13.1	13.1	70.8	73.4	7
Youngstown-Warren	51.1	50.1	50.2	7.6	7.8	7.8	50.3	51.8	
klahoma	163.5	163.7	164.5	62.2	62.5	62.9	276.3	279.1	27
Enid	1.5	1.5	1.5	2.2	2.0	2.1	6.5	6.1	21
Lawton	3.5	3.7	3.7	1.3	1.3	1.4	8.7	8.3	
Oklahoma City	48.9	49.5	49.1	19.4	20.0	20.0	101.3	102.6	10
Tulsa	49.5	49.1	49.9	23.3	24.3	24.4	71.5	71.4	7
regon	215.5	211.4	221.6	60.7	62,9	63.6	292.0	304.0	30
Eugene-Springfield	21.0	20.6	20.7	4.3	4.4	4.4	27.4	28.2	2
Portland	100.2	100.2	102.8	35.6	36.3	37.0	152.1	157.6	15
Salem	15.4	13.7	15.1	3.0	3.0	3.0	22.8	23.2	2
ennsylvania	1,063.3	1,053.1	1,059.7	254.0	254.0	253.8	1,160.6	1,160.6	1,16
Allentown-Bethlehem	78.2	76.8	76.9	14.5	13.9	14.3	61.1	61.8	1,10
Altoona	11.2	10.9	10.9	4.5	4.6	4.6	13.3	13.7	1
Beaver County	9.6	9.4	9.5	5.0	4.9	4.9	11.7	11.4	i
rie	35.3	35.7	35.8	3.7	3.6	3.5	25.3	26.5	Ź
Harrisburg-Lebanon-Carlisle	51.9	51.5	51.6	18.9	18.9	18.9	67.8	68.5	í
ohnstown	13.7	13.8	13.9	5.0	5.3	4.9	17.2	17.7	
ancaster	60.7	59.3	59.7	7.5	7.6	7.6	44.5	45.6	2
Philadelphia PMSA	370.5	364.1	365.4	101.1	101.6	102.1	501.7	509.4	50
Philadelphia City	94.1	91.5	91.3	44.4	42.6	42.4	151.4	156.1	15
Pittsburgh	126.5	126.5	127.4	48.5	48.0	48.0	225.3	226.8	22
C INDUITURE	120.0	120.0	127.4	40.0	40.U	40.0	440.3	440.0	~ ~

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

Chata and		nce, insuran nd real estat			Services			Government	
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
	07.0	07.5	07.0	400.0	404.0	404.0	400.0	445.4	4.46
lew Mexico	27.3	27.5	27.8	129.6	131.8	134.8	138.2	145.4	143
Albuquerque	15.1	15.3	15.4	65.8	67.0	67.4	46.0	48.0	46
Las Cruces	1.7	1.8	1.8	6.3	6.6	6.7	15.2	17.2	16
Santa Fe	2.0	1.9	2.0	15.5	15.0	15.7	22.3	22.5	22
ew York	800.3	796.6	805.1	2,279.3	2,325.0	2,340.8	1,457.4	1,466.3	1,468
Albany-Schenectady-Troy	24.4	25.0	25.6	105.2	105.9	106.7	112.5	114,1	113
Binghamton	4.3	4.4	4.5	23.6	23.7	24.0	21.1	21.8	2
Buffalo	28.1	28.9	29.1	116.4	118.3	119.2	75.8	75.7	7!
Elmira	1.4	1.4	1.4	9.9	10.2	10.3	6.7	7.1	
Nassau-Suffolk	79.2	79.2	80.4	301.1	304.9	308.8	187.2	186.5	18
New York PMSA	578.5	569.0	573.2	1,279.0	1,295.6	1,303.9	688.2	687.4	68
New York City	543.4	533.6	537.2	1,126.6	1,144.3	1,150.2	603.8	604.9	60
Niagara Falls	2.0	2.1	2.1	17.2	18.2	17.8	13.0	13.4	1
Orange County	4.7	4.7	4.8	22.7	22.8	23.0	23.4	23.6	2
Poughkeepsie	4.9	5.2	5.2	27.7	28.6	28.3	25.2	24.4	2
Rochester	23.3	22.9	23.4	116.0	121.9	119.7	66.8	69.2	6
Rockland County	5.4	5.4	5.5	25.7	25.9	26.1	21.8	21.3	2
	20.3	20.3	20.5	71.5	74.3		52.6	52.5	5
Syracuse						72.8			
Utica-Rome	7.2 29.0	7.5 29.3	7.6 29.8	27.3 121.4	28.6 i 120.3 i	28.2 122.5	30.6 58.6	30.7 57.3	5
Troduction County	20.0	20.0	20.0		120.0	,,,,,	00.0	07.0	
orth Carolina	131.7	131.7	133.8	525.1	545.9	551.1	459.6	469.2	46
Asheville	2.7	2.6	2.6	20.6	20.5	21.8	12.1	12.3	1
Charlotte-Gastonia-Rock Hill	37.5	37.5	37.9	106.8	112.9	113.2	62.8	66.5	6
Greensboro-Winston-Salem-High Point	24.3	24.8	25.1	89.4	91.0	91.7	51.5	55.6	5
Raleigh-Durham	23.7	23.2	23.6	98.4	102.3	102.7	88.5	89.9	8
nuth Dakata	12.6	12.1	12.2	64.3	65.1	65.0	64.0	67.1	
orth Dakota	1.6		1.5		11.6	65.9	64.8 8.7		'
Bismarck	4.5	1.5		10.8		11.6		8.8	Ι.
Fargo-Moorhead	1,1	4.5 1.1	4.5 1.1	19.5 6.8	21.2 6.9	20.3 6.9	13.3 8.3	14.7 9.7	1
hio	251.4	254.6	257.1	1,104.1	1,138.7	1,150.3	692.9	714.4	69
Akron	10.7	10.8	10.9	63.1	65.1	66.2	38.5	46.3	:
Canton	6.4	6.3	6.4	37.4	38.4	38.9	18.9	19.4	
Cincinnati	42.5	43.3	43.8	180.2	186.1	188.4	87.6	91.9	8
Cleveland	57.2	58.5	59.2	241.5	250.0	252.0	117.3	117.4	1.
Columbus	58.3	59.3	59.8	162.6	170.3	171.0	125.6	126.6	12
Dayton-Springfield	18.3	18.3	18.6	106.4	110.5	111.8	72.5	76.4	1
Foledo	12.3	12.7	1 <u>2</u> .7	74.4	77.2	78.1	40.0	45.0	.
Youngstown-Warren	8.4	8.3	8.4	46.1	47.9	48.4	24.4	24.9	
klahoma	59.5	58.2	58.6	251.6	249.8	254.0	247.1	254.7	2
nid	1.0	1.0	1.0	5.2	5.3	5.4	3.4	3.4	_
Lawton	1.6	1.5	1.5	6.0	6.1	6.4	11.5	11.9	
Oklahoma City	24.3	23.9	23.8	96.0	92.8	94.3	94.6	98.3	
Tulsa	17.4	17.5	17.6	75.5	78.4	78.9	36.3	36.9	}
		70.4		000.4	070.0	070.0	040.0	2000	i .
regon	74.4	75.1	75.2	260.4	273.2	273.6	219.0	222.0	2
Eugene-Springfield	5.3	5.4	5.5	25.5	26.7	27.0	24.4	24.7	
Portland	48.9	50.0	50.1	143.9	149.7	149.0	81.5	83.5	}
Salem	5.8	5.9	6.0	20.3	21.5	21.1	30.8	31.5	:
ennsylvania	295.5	297.3	300.2	1,337.2	1,373.4	1,383.9	696.0	705.9	6
Allentown-Bethlehem	12.7	12.7	12.8	69.5	73.0	73.6	30.3	31.0	(:
Altoona	1.9	2.1	2.1	11.3	11.2	11.5	7.6	7.3	i
Beaver County	1.7	1.6	1.7	11.7	12.6	12.4	8.2	8.1	i
Erie	5.3	5.4	5.5	27.5	27.6	28.0	13.0	14.3	1
Harnsburg-Lebanon-Carlisle	18.6	20.2	20.6	65.8	66.9	68.5	65.5	66.9	
Johnstown	4.8	4.5	4.6	20.1	20.5	20.5	13.5	13.2	
Lancaster	7.2	7.4	7.5	39.0	41.4	40.8	15.2	16.3	
Philadelphia PMSA	164.2	162.3	164.0	628.9	642.4	642.2	302.4	301.6	3
Philadelphia City	72.2	70.4	71.2	255.1	262.7	260.9	143.3	139.5	1
Pittsburgh									1.
FIRSTINI	52.7	53.7	54.1	275.4	280.0	281.6	107.7	107.6	1

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

(In thousands)

		Total			Mining		C	Construction)
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
Pennsylvania-Continued				_					
Reading	150.1	154.5	154.8	(²)	(²)	(s)	7.5	7.6	7.
Scranton-Wilkes-Barre	301.5	303.6	305.0	0.7	0.6	0.6	14.9	14.8	15.
Williamsport	51.8 175.7	52.1 180.2	52.3 178.8	(²) .5	(²) .5	(²) .5	2.2 9.7	2.3 9.8	2. 10.
Rhode Island	459.0	461.3	462.2	.2	.2	.2	21.6	21.9	22.
Pawtucket-Woonsocket-Attleboro	133.0	133.2	133.5	.2	.2	.2	6.3	6.7	6.
Providence	322.7	327.6	328.3	.1	.1	.1	16.2	16.4	16.
outh Carolina	1,459.5	1,512.2	1,515.9	1.8	1.9	1.9	94.2	94.2	95.
Charleston	191.2	198.2	198.9	(¹)	(¹)	(')	13.6	13.6	13.
Columbia	228.2	235.4	234.7	(i)	(1)	Ö	14.4	14.5	14.
Greenville-Spartanburg	318.4	326.6	327.5	(1)	(1)	(†)	23.2	23.1	23.
outh Dakota	271.7	269.0	272.7	2.8	2.7	2.7	10.8	9.5	10.
Rapid City	36.6	36.0	37.5	.3	.2	.2	2.0	1.9	2.
Sioux Falls	69.4	69.3	70.6	(¹)	(¹)	(¹)	3.0	2.8	3.
ennessee	2,079.1	2,087.8	2,082.0	7.0	6.6	6.6	96.8	93.0	92.
Chattanooga	197.2	199.0	198.3	.7	.7	.7	8.6	8.4)	8.
Johnson City-Kingsport-Bristol	163.6	167.2	166.3	.4	.5	.4	7.3	7.2	7.
Knoxville	262.0	260.7	261.3	1.7	1.7	1.7	12.8	11.7	11.
Memphis	436.5	442.7	440.3	.1	.1	.1	19.0	18.8	18.
Nashville	485.0	484.6	481.3	.8	.7	.7	28.7	27.6	27.
exas	6,658.3	6,774.8	6,811.4	186.8	175.7	176.7	334.6	314.4	314.
Abilene	48.6	49.2	48.8	2.1	1.9	1.9	2.0	1.9	1.
Amarillo	78.5	77.4	77.8	1.3	1.4	1.4	3.9	4.0	4.
Austin	350.9	354.9	351.2	.7	.7	.7	14.5	13.0	13.
Beaumont-Port Arthur	133.4 59.2	134.7 61.6	133.8	1.7 2.1	1.9	1.9	8.6 6.8	8.8	8.
Brazoria	68.8	70.2	61.2 69.4	1.1	1.9 .1	1.9 .1	2.0	7.9 2.2	7. 2.
Bryan-College Station	47.0	51.3	49.2	.6	.6	.6	2.0	1.9	1.
Corpus Christi	124.7	126.4	126.6	4.1	4.3	4.3	8.0	8.7	9.
Dallas	1,348.0	1,350.9	1,350.9	18.9	17.4	17.4	57.3	50.8	51.
El Paso	193.7	196.2	195.9	.1	.1	.1	9.2	8.6	8.
Ft. Worth-Arlington	527.8	538.6	540.2	3.7	4.0	4.0	22.7	22.5	22.
Galveston-Texas City	73.2	72.4	73.0	.6	.5	.5	4.4	4.9	4.
Houston	1,436.7	1,468.4	1,478.2	66.3	65.8	66.1	89.3	88.6	90.
Killeen-Temple	71.0	72.9	73.0	.1	.1	.1	3.5	3.7	3.
Laredo	37.8	39.8	39.6	1.9	1.9	1.9	1.2	1.2	1.
Longview-Marshall	66.7	66.1	66.4	3.8	3.5	3.6	3.5	3.1	3.
Lubbock	92.2	94.9	93.9	.4	.4	.4	3.5	2.9	3.
McAllen-Edinburg-Mission	94.0	98.0	98.6	1.0	.9	.9	4.1	4.2	4.
Midland	45.0	44.1	44.0	10.2	9.6	9.6	1.3	1.4	1.
Odessa	43.7	42.4	42.3	6.1	5.5	5.5	2.2	1.7	1.
San Angelo	36.4	36.6	36.2	.5	.5	.5	1.6	1.3	1.
San Antonio	499.3	513.3	510.2	2.4	2.0	2.0	25.5	22.4	22.
Sherman-Denison	38.0	37.1	36.8	.1	.1	.1	1.7	1.7	1.
Texarkana	45.3	45.7	46.2	.1	.1	.1	1.7	1.6	1.0
Tyler	60.6	61.1	61.2	2.1	1.8	1.9	2.1	2.0	2.
Victoria	27.8	28.2	28.0	1.9	1.3	1.2	1.6	1.5	1.5
Waco	77.8 50.9	80.3 50.6	79.4 50.3	1.9 1.9	.1 1.8	1.8 1.8	3.6 2.2	3.5 2.0	3. 2.
Jtah	664.4	683.1	689.3	8.5	7.7	7.6	26.8	25.3	26.8
Provo-Orem	78.9	84.3	85.5	(¹)	(¹) '.'	(')	2.9	3.0	3.
Salt Lake City-Ogden	458.9	469.9	473.9	2.7	2.6	2.6	18.9	17.8	18.
/ermont	253.6	254.7	256.7	.7	.6	.7	18.2	19.3	19.4
	34.2	34.8	35.4	.2	.2	.2	2.1	1.8	1.5
Barre-Montpelier	34.2 1								

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

Compared area	M	lanufacturing	1		nsportation a sublic utilities		Wholesale and retail trade			
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	
Pennsylvania-Continued					_					
Reading	47.6	48.6	49.0	6.7	6.8	6.9	33.2	34.3	34.4	
Scranton-Wilkes-Barre	72.1	72.0	72.3	16.5	16.5	16.6	67.9	68.4	68.6	
Williamsport	16.8 61.2	16.3 61.9	16.3 61.3	1.9 7.4	2.0 7.9	2.0 7.5	11.6 42.3	11.6 42.8	11.8 42.6	
Phode Island	114.2	113.3	113.1	16.3	16.3	16.4	105.2	104.2	105.6	
Pawtucket-Woonsocket-Attleboro	51.3	49.4	49.3	3.6	3.8	3.8	33.3	33.1	33.2	
Providence	71.9	70.6	70.6	12.8	12.7	13.0	70.9	71.1	72.	
South Carolina	385.0	383.4	384.2	62.6	65.3	65.8	331.6	347.6	351.	
Charleston	21.0	21.4	21.5	11.1	11.4	11.2	46.5	45.8	46.	
Columbia	29.2	30.0	30.3	10.4	10.5	10.6	50.7	5 0.5	50.0	
Greenville-Spartanburg	103.0	102.4	102.7	12.2	12.6	12.8	73.9	76.0	76.4	
South Dakota	31.0	30.3	30.5	13.6	13.8	13.6	70.7	70.4	71.7	
Rapid City	3.2	3.2	3.2	2.0	2.0	2.0	11.0	10.7	11.	
Sioux Falls	8.5	8.1	8.3	5.3	5.3	5.4	18.5	18.8	18.9	
「ennessee	510.9	510.7	513.5	109.4	109,8	110.8	490.6	491.0	492.	
Chattanooga	47.4	47.6	47.6	9.2	9.2	9.2	45.8	45.5	45.3	
Johnson City-Kingsport-Bristol	53.3	54.4	55.2	6.4	6.3	6.4	37.0	36.6	36.	
Knoxville	53.5	52.3	52.4	10.3	10.2	10.2	66.0	66.3	66.9	
Memphis	55.6	54.2	54.7	40.8	41.5	41.4	117.5	119.9	120,4	
Nashville	89.6	90.9	91.1	24.6	24.2	24.1	118.5	116.3	116.2	
Texas	982.7	968.3	973.6	391.4	398.8	400.4	1,666.3	1,661.9	1,674.4	
Abilene	4.8	5.0	5.0	2.4	2.3	2.3	13.5	13.6	13.0	
Amarillo	10.0	9.0	8.8	5.7	5.7	5.7	22.9	22.4	22.	
Austin	40.9	41.3	41.3	10,7	10.4	10.5	77.0	75.7	75.0	
Beaumont-Port Arthur	26.0	25.5	25.8	9.7	9.8	9.5	32.5	32.8	32.0	
Brazoria	15.4	16.0	16.0	2.7	2.7	2.7	11.1	11.2	11.3	
Brownsville-Harlingen	10.0	10.1	10.0	3.1	3.0	3.0	17.8	18.4	18.	
Bryan-College Station	3.4	3.5	3.5	1.5	1.5	1.5	10.8	10.5	10.0	
Corpus Christi	11.5	11.5	11.5	6.4	6.3	6.4	31.7	31.4	31.	
Dallas	224.2 40.7	221.5 40.0	222.3 39.9	91.5 10.7	93.9 10.7	94.2 10.9	347.1 46.1	348.4 47.8	350.1 48.4	
Ft. Worth-Arlington	120.5	121.2	121.2	30.1	31.8	31.9	137.3	138.6	139.4	
Galveston-Texas City	8.2	8.5	8.5	4.7	4.7	4.7	14.6	14.3	14.	
Houston	154.2	157.8	158.8	100.6	99.9	100.5	358.2	364.0	367.	
Killeen-Temple	8.4	8.6	8.6	2.8	2.7	2.7	16.4	16.6	16.	
Laredo	1.9	1.9	1.9	4.8	5.2	5.2	11.0	12.1	12.	
Longview-Marshall	16.2	15.6	15.7	3.0	3.1	3.1	17.1	17.0	17.	
Lubbock	7.2	7.7	7.5	4.7	4.8	4.8	28.2	28.0	28.	
McAllen-Edinburg-Mission	13.4	13.9	14.7	2.9	3.1	3.2	29.6	30.1	29.	
Midland	2.7	2.4	2.4	2.3	2.3	2.3	10.0	10.0	10.0	
Odessa	4.1	4.0	4.0	2.1	2.1	2.1	12.7	12.6	12.	
San Angelo	5.4	5.5	5.4	3.1	2.8	2.8	9.0	9.2	9.	
San Antonio	47.7	48.1	48.4	19.3	19.1	19.1	126.9	129.3	129.	
Sherman-Denison	11.5	11.1	11.1	2.0	1.9	1.8	8.1	7.8	8.	
Texarkana	7.4	7.4	7.7	1.9	1.9	2.0	10.8	10.8	10.	
Tyler	10.4	10.9	10.8	2.6	2.5	2.6	16.1	16.1	16.	
Victoria	3.2	3.1	3.1	1.4	1.4	1.4	7.4	7.8	7.	
Waco	14.6	15.3	15.3	3.3	3.4	3.4 2.5	18.8	18.9	19.	
Wichita Falls	8.1	8.2	8.1	2.6	2.5	∠.5	11.9	12.1	12.	
Utah	99.6	101.7	103.0	39.6	39.5	40.3	155.5	161.9	163.1 18.0	
Provo-Orem	13.5 64.1	14.5 66.2	14.9 67.0	2.9 30.1	2.8 30.6	2.8 31.2	16.1 112.3	17.9 116.6	117.6	
· ·				ļ						
Vermont Barre-Montpelier	50.6 4.9	49.0 5.0	49.8 5.1	10.4	10.5 .9	10.6 .9	60.0 7.4	60.2 7.6	60.9 7.1	
	17.2	16.1	16.3	3.3	3.4	3.5	19.0	18.7	18.9	

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

(In thousands)

State and area		nce, insurar nd real estat			Services			Government	
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
Pennsylvania-Continued									
Reading	8.3	8.6	8.6	30.5	31.2	31.5	16.3	17.4	16
Scranton-Wilkes-Barre	13.5	13.7	13.9	74.0	75.1	75.7	41.9	42.5	41
Williamsport	2.5 4.9	2.5 5.0	2.5 5.1	10.0 31.9	10.3 33.4	10.5 33.5	6.8 17.8	7.1 18.9	6 18
Rhode Island	26.6	26.6	26.7	115.8	118.4	117.0	59.1	60.4	60
Pawtucket-Woonsocket-Attleboro	3.9	4.0	4.0	24.1	25.7	25.8	10.3	10.3	10
Providence	22.2	23.1	23.2	84.8	88.6	87.2	43.8	45.0	45
South Carolina	66.0	67.7	68.4	261.2	276.3	278.7	257,1	275.8	269
Charleston	8.8	8.9	9.0	40.2	43.3	43.6	49.9	53.7	53
Columbia	17.9	18.3	18.4	45.0	45.7	45.9	60.3	65.5	63
Greenville-Spartanburg	12.0	11.9	12.0	54.6	58.0	57.7	39.2	42.3	41
South Dakota	14.7	15.0	15.2	66.4	66.0	67.0	61.7	61.3	61
Rapid City	1.7	1.5	1.6	9.2	8.9	9.3	7.3	7.5	7
Sioux Falls	6.5	6.7	6.8	19.6	19.9	19.9	8.0	7.7	8
ennessee	104.9	106.2	106.9	436.0	442.6	443.7	323.5	327.9	315
Chattanooga	12.4	12.8	12.8	38.7	39.7	39.9	34.3	35.1	. 34
Johnson City-Kingsport-Bristol	5.3	5.5	5.6	29.9	32.7	32.2	24.0	24.0	22
Knoxville	9.9	10.1	10.1	57.0	59.3	59.5	50.8	49.1	48
Memphis	24.9 34.7	25.8 34.4	26.0 34.3	107.1 122.2	108.9 120.4	109.6 119.4	71.5 65.9	73.5 70.1	69 67
			[ĺ				ĺ	
exas	441.1 2.4	440.1 2.5	441.4 2.5	1,528.7 12.6	1,585.5	1,610.0	1,146.7	1,230.1 9.1	1,220
Abilene	4.4	4.1	4.1	17.0	12.9 17.1	12.6 17.6	8.8 13.3	13.7	13
Austin	24.5	23.8	23.8	84.6	86.4	86.5	98.0	103.6	99
Beaumont-Port Arthur	5.3	5.1	5.1	30.0	30.3	30.3	19.6	20.7	19
Brazoria	2.0	1.9	1.9	8.1	8.6	8.5	11.0	11.4	11
Brownsville-Harlingen	3.7	3.6	3.6	15.9	15.8	15.6	16.3	17.1	16
Bryan-College Station	1.6	1.7	1.6	8.7	9.4	9.3	18.4	22.2	20
Corpus Christi	6.9	6.9	6.9	28.4	29.1	28.8	27.7	28.2	27
Dallas	130.1	126.5	126.6	332.3	339.1	339.0	146.6	153.3	149
El Paso	8.8	8.4	8.4	39.1	39.1	39.4	39.0	41.5	40
Ft. Worth-Arlington	26.8	26.9	27.1	119.9	123.4	125.0	66.8	70.2	68
Galveston-Texas City	4.4	4.2	4.3	14.3	14.3	14.7	22.0	21.0	20
Houston	101.0	99.8	99.9	381.8	396.1	401.2	185.3	196.4	193
Killeen-Temple	2.8	3.0	3.1	15.9	16.6	16.7	21.1	21.6	2.
Laredo	1.7	1.4	1.4	6.2	6.3	6.3	9.1	9.8	9
Longview-Marshall	2.7	2.7	2.7	12.1	12.5	12.5	8.3	8.6	
Lubbock	5.4	5.6	5.6	22.5	23.6	23.7	20.3	21.9	20
McAllen-Edinburg-Mission	3.7 2.3	3.7 2.2	3.8 2.2	15.3	16.2	16.2	24.0	25.9	25
Midland	1.7	1.7	1.7	9.9 7.2	9.7 7.3	9.7 7.2	6.3 7.6	6.5 7.5	7
Odessa	1.8	1.8	1.8	8.2	8.2	8.2	6.8	7.3	
San Antonio	39.4	39.8	40.4	124.9	130.6	130.4	113.2	122.0	118
Sherman-Denison	1.8	1.7	1.7	8.4	8.5	8.1	4.4	4.3	110
Texarkana	1.9	1.9	1.9	9.5	9.5	9.6	12.0	12.5	12
Tyler	3.4	3.3	3.3	14.7	14.9	15.0	9.2	9.6	
Victoria	1.6	1.6	1.6	6.0	6.2	6.2	4.7	5.3	
Waco	4.9	4.8	4.8	20.5	21.4	21.0	12.0	12.9	1:
Wichita Falls	2.4	2.3	2.3	11.8	11.9	11.8	10.0	9.8	9
tah	33.4	33.3	33.3	156.1	162.9	166.7	144.9	150.8	147
Provo-Orem	2.3	2.3	2.3	26.9	29.4	30.2	14.3	14.4	14
Salt Lake City-Ogden	27.5	27.0	27.3	108.2	111.4	113.4	95.1	97.7	96
ermont	12.7	13.1	13.4	61.1	59.5	61.3	39.9	42.5	40
Barre-Montpelier	3.0	3.1	3.2	7.3	7.8	8.1	8.4	8.4	8
Burlington	3.6	3.6	3.6	19.1	18.5	18.8	11.1	12.4	11

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT NOT SEASONALLY ADJUSTED

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

(In thousands)

		Total			Mining		Construction			
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	M ay 1989	June 1989 ^p	
Minala	2,801.3	2,886.2	2,916.1	16.1	14.3	14.4	200.5	208.9	215.2	
Virginia	32.3	32.9	33.1	.1			1.0	.9	1.0	
Bristol	65.3	67.7	66.8	.1	.1 .1	.1	3.9	3.8	4.0	
Danville	41.8	42.7	43.2	.1	.1	.1	2.3	2.6	2.7	
Lynchburg	72.6	73.5	74.0	.1	.1	.1	3.8	3.5	3.6	
Norfolk-Virginia Beach-Newport News	575.4	573.5	581.2	.1	.2	.2	38.7	39.1	40.0	
Northern Virginia	750.9	785.9	798.2	.5	.6	.6	61.7	67.1	69.0	
Richmond-Petersburg	451.4	464.0	466.1	e. le.	1.1	1.1	30.6	32.3	32.7	
Roanoke	123.8	124.4	125.1	.1	.1	.1	8.1	8.2	8.2	
HOZIONA	123.0	124.4	123.1	.''	-11	• 1	0.1	0.2	0.2	
Washington	1,961.3	2.034.2	2.053.2	3.4	3.5	3.5	98.9	103.9	108.4	
Seattle	991.7	1,038.8	1,048.3	.6	.6	.6	52.3	52.4	54.5	
Jeaule	331.7	1,000.0	1,040.5	ا0.	.0	.0	32.0	32.4	34.3	
West Virginia	615.5	617.3	615.8	34.4	33.7	30.9	27.8	27.9	28.4	
Charleston	107.8	108.3	109.4	2.0	1.9	1.7	4.4	4.2	4.4	
Huntington-Ashland	104.1	106.5	106.6	1.4	1.5	1.5	3.7	3.4	3.8	
Parkersburg-Marietta	60.3	60.5	61.3	.6	.6	.7	3.0	2.8	2.9	
Wheeling	59.9	59.7	59.8	2.5	2.6	2.6	2.1	1.9	2.0	
Wisconsin	2,179.4	2,202.4	2,223.1	2.5	2.8	2.9	75.2	76.9	79.9	
Appleton-Oshkosh-Neenah	152.5	154.1	155.4	(')	(¹)	(¹)	7.1	7.4	7.7	
Eau Claire	56.4	58.9	58.4	%	<u>(i)</u>	8	1.7	1.6	1.6	
Green Bay	97.7	99.1	100.2	િ હે ી	(')	B	3.3	3.4	3.5	
Janesville-Beloit	57.6	57.3	57.0	8	Ö	8	1.5	1.4	1.3	
Kenosha	41.9	39.9	38.5	8	8	8	1.2	1.8	1.6	
La Crosse	54.4	57.5	57.3	6	$\ddot{0}$	6	2.1	2.3	2.6	
Madison	205.1	210.1	209.9	8	((6)	7.1	6.1	6.2	
Milwaukee	723.0	734.8	741.0	8	Ö	8	23.1	23.5	24.2	
Racine	73.8	74.9	75.7	6 8	Ö	(b)	1.9	2.0	2.1	
Wausau	48.6	50.6	50.6	6	Ö	6	2.0	2.1	2.2	
Wyoming	191.7	190.0	194.5	18.7	18.3	18.6	11.3	10.4	11.1	
Puerto Rico	840.4	825.6	856.0	.8	.8	.8	41.7	42.3	42.3	
Caquas		52.5	53.8	(¹)	(¹)	(¹)	(')	(1)	(1)	
Mayaguez		52.5 59.5	61.7	8	(5)	0	(0)	(1)	8	
Ponce	54.1	54.0	58.3	.1	.1	.1	3.8	3.8	3.8	
San Juan	511.5	508.8	519.6	.4	.4	.4	31.0	30.7	30.8	
Virgin Islands	41.2	41.6	41.3	(')	(')	(¹)	2.3	2.1	2.0	

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

(In thousands)

State and area	N	lanufacturing	9	Transportation and public utilities			Wholesale and retail trac			
State and alea	June 1988	M ay 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	
Virginia	429.1	425.1	427.6	146.1	146.9	149.1	636.3	656.1	665.	
Bristol	11.2	10.8	10.8	1,1	1,1	1.1	8.1	8.6	8.	
Charlottesville	8.7	8.7	8.8	2.3	2.3	2.4	13.1	13.7	13.	
Danville	16.5	16.7	16.6	1.0	.9	.9	9.2	9.7	10.	
Lynchburg	23.0	22.7	22.7	2.7	2.4	2.5	16.4	16.9	16.	
Norfolk-Virginia Beach-Newport News	69.5	67.3	67.7	27.0	26.3	26.6	142.3	141.9	143.	
Northern Virginia	35.6	33.8	34.0	52.6	57.3	59.0	165.5	168.3	169	
Richmond-Petersburg	62.3	61.3	61.4	23.8	23.5	23.4	108.8	112.1	112.	
Roanoke	19.9	19.4	19.4	8.6	8.4	8.6	33.6	34.1	34.	
Vashington	340.6	357.4	361.3	102.4	104.7	106.4	480.5	496.8	499.	
Seattle	197.4	213.4	216.1	61.7	64.1	65.5	238.9	249.2	247.	
est Virginia	87.7	86.5	87.4	37.2	37.4	37.7	144.1	145.2	146	
Charleston	10.9	11.2	11.3	8.6	8.9	8.9	28.5	28.6	28	
Huntington-Ashland	19.4	20.1	20.2	8.0	7.9	8.0	26.9	27.4	27	
Parkersburg-Marietta	14.3	13.9	14.3	2.2	2.2	2.3	14.5	14.4	14	
Wheeling	7.3	7.4	7.5	3.3	3.4	3.4	16.8	16.0	16.	
/isconsin	558.9	550.4	560.4	97.8	100.6	100.8	514.6	518.4	525	
Appleton-Oshkosh-Neenah	53.9	52.8	54.5	5.4	5.8	5.8	31.8	32.6	32	
Eau Claire	11.6	11.8	12.1	3.0	3.3	3.3	15.4	15.5	15	
Green Bay	25.4	25.5	26.4	7.2	7.6	7.5	24.9	24.7	25	
Janesville-Beloit	18.1	17.3	16.6	2.1	2.1	2.2	14.3	14.5	14	
Kenosha	14.0	9.9	9.7	1.5	1.5	1.4	9.5	10.1	10	
La Crosse	11.3	10.7	11.1	2.3	2.3	2.3	15.3	16.7	16	
Madison	24.6	25.0	25.5	7.1	7.3	7.3	46.1	47.2	47	
Milwaukee	174.3	176.5	177.1	35.2	35.7	35.6	164.1	167.6	169	
Racine	25.6	26.3	26.3	2.4	2.3	2.3	16.7	16.7	16	
Wausau	14.1	14.1	14.5	2.7	2.9	2.8	12.0	12.6	12	
/yoming	8.9	9.0	9.2	13.5	13.7	13.9	42.8	42.1	43	
uerto Rico	151.6	160.1	159.0	17.8	17.0	17.2	145.0	149.0	148	
Caguas	16.0	16.4	16.3	(¹)	(¹)	(¹)	10.8	11.2	10.	
Mayaguez	18.7	21.3	21.1	(1)	(1)	(1)	7.9	7.9	7.	
Ponce	9.4	10.1	10.0	(')	(1)	(1)	8.6	9.2	9.	
San Juan	64.7	67.3	67.0	14.4	13.6	13.8	99.7	102.1	102	
rgin Islands	2.3	2.4	2.4	2.6	2.6	2.6	9.5	9.4	9	

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT **NOT SEASONALLY ADJUSTED**

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

(In thousands)

State and area		ince, insuran nd real estat			Services		Government			
State and alea	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	
Virginia	152.2	154.6	157.6	678.2	713.9	724.1	542.8	566.4	563.1	
Bristol	1.2	1.3	1.3	4.5	4.6	4.6	5.1	5.5	5.5	
Charlottesville	3.3	3.3	3.3	13.0	12.9	13.1	20.9	22.9	21.5	
Danville	1.3	1,3	1.3	6.1	6.1	6.2	5.3	5.3	5.	
Lynchburg	3.9	4.3	4.4	13.3	14.2	14.4	9.4	9.4	9.	
Norfolk-Virginia Beach-Newport News	27.5	26.5	27.1	139.7	140.9	144.4	130.6	131.3	131.	
Northern Virginia	49.2	51.2	52.0	242.8	259.6	263.4	143.0	148.0	150.0	
Richmond-Petersburg	38.8	40.3	41.0	95.2	97.5	97.8	91.0	95.9	95.8	
Roanoke	8.3	8.6	8.6	29.4	30.2	30.4	15.8	15.4	15.0	
Vashington	110.5	113.9	115.6	449.9	470.2	473.1	375.1	383.8	385.	
Seattle	70.3	72.2	73.2	233.8	245.3	249.0	136.7	141.6	142.	
Vest Virginia	24.4	24.1	24.2	132.8	135.2	135.7	127.1	127.3	125.	
Charleston	6.3	6.2	6.2	25.8	26.4	26.7	21.3	20.9	21.	
Huntington-Ashland	3.7	3.8	3.8	22.5	23.4	23.5	18.5	19.0	18.	
Parkersburg-Marietta	2.3	2.4	2.4	13.5	14.0	14.1	9.9	10.2	10.	
Wheeling	2.8	2.7	2.8	15.4	16.0	15.7	9.7	9.7	9.	
Visconsin	116.4	118.6	120.7	486.0	492.1	498.9	328.0	342.6	333.	
Appleton-Oshkosh-Neenah	7.3	7.4	7.5	29.8	30.2	30.4	16.9	17.6	16.0	
Eau Claire	1.8	1.9	1.9	12.8	13.3	13.5	10.1	11.5	10.	
Green Bay	3.2	3.5	3.6	22.2	22.8	22.5	11.4	11.5	11.0	
Janesville-Beloit	1.6	1.6	1.7	12.6	12.8	12.8	7.3	7.5	7.0	
Kenosha	1.2	1.2	1.3	8.2	8.8	8.8	6.3	6.6	5.0	
La Crosse	1.6	1.6	1.6	14.8	15.9	15.7	7.0	8.0	7.3	
Madison	18.4	18.5	18.9	45.7	46.8	47.1	55.9	59.0	57.	
Milwaukee	50.6	52.0	52.7	191.3	194.8	196.9	84.1	84.4	84.	
Racine	2.4	2.3	2.4	16.4	16.9	17.3	8.4	8.4	8.	
Wausau	3.5	3.7	3.8	8.5	8.8	8.8	5.8	6.4	5.	
Wyoming	7.2	7.3	7.3	36.5	33.1	35.9	52.8	56.1	55.	
Puerto Rico	36.1	36.0	36.3	118.5	124.5	121.3	328.8	295.8	331.	
Caguas	(')	(')	(')	(1)	(¹)	(¹)	18.8	16.1	18.	
Mayaguez	(i)	(')	(i)	(')	(i)	(1)	21.3	19.3	21.0	
Ponce	(i)	Ö	Ö	9.7	10.4	10.3	18.9	17.0	21.	
San Juan	28.7	28.6	29.0	86.3	89.8	87.9	186.2	176.2	188.	
/irgin Islands	1.9	2.0	2.0	9.3	9.7	9.6	13.3	13.4	13.4	

NOTE: Area definitions are published annually in the May issue of this publication. All State and area data have been adjusted to March 1988 benchmarks.

Not available.
 Combined with construction.
 p = preliminary.

ESTABLISHMENT DATA HISTORICAL HOURS AND EARNINGS

C-1. Average hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by major industry, 1964 to date

	-	Total private			Mining			Construction	1
Year and month	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
		1.		A	nnual averag	es		•	
1964	38.7	\$2.36	\$91.33	41.9	\$2.81	\$117.74	37.2	\$3.55	\$132.06
1965	38.8	2.46	95.45	42.3	2.92	123.52	37.4	3.70	138.38
1966	38.6	2.56	98.82	42.7	3.05	130.24	37.6	3.89	146.26
1967	38.0	2.68	101.84	42.6	3.19	135.89	37.7	4.11	154.95
1968	37.8	2.85	107.73	42.6	3.35	142.71	37.3	4.41	164.49
1969	37.7	3.04	114.61	43.0	3.60	154.80	37.9	4.79	181.54
1970	37.1	3.23	119.83	42.7	3.85	164.40	37.3	5.24	195.45
1971	36.9	3.45	127.31	42.4	4.06	172.14	37.2	5.69	211.67
1972	37.0	3.70	136.90	42.6	4.44	189.14	36.5	6.06	221.19
1973	36.9	3.94	145.39	42.4	4.75	201.40	36.8	6.41	235.89
1974	36.5	4.24	154.76	41.9	5.23	219.14	36.6	6.81	249.25
1975	36.1	4.53	163.53	41.9	5.95	249.31	36.4	7.31	266.08
1976	36.1	4.86	175.45	42.4	6.46	273.90	36.8	7.71	283.73
1977	36.0	5.25	189.00	43.4	6.94	301.20	36.5	8.10	295.65
1978	35.8	5.69	203.70	43.4	7.67	332.88	36.8	8.66	318.69
1979	35.7	6.16	219.91	43.0	8.49	365.07	37.0	9.27	342.99
1980	35.3	6.66	235.10	43.3	9.17	397.06	37.0	9.94	367.78
1981	35.2	7.25	255.20	43.7	10.04	438.75	36.9	10.82	399.26
1982	34.8	7.68	267.26	42.7	10.77	459.88	36.7	11.63	426.82
1983	35.0	8.02	280.70	42.5	11.28	479.40	37.1	11.94	442.97
1984	35.2	8.32	292.86	43.3	11.63	503.58	37.8	12.13	458.51
1985	34.9	8.57	299.09	43.4	11.98	519.93	37.7	12.32	464.46
1986	34.8	8.76	304.85	42.2	12.46	525.81	37.4	12.48	466.75
1987	34.8	8.98	312.50	42.4	12.54	531.70	37.8	12.71	480.44
1988	34.7	9.29	322.36	42.3	12.75	539.33	37.9	13.01	493.08
			·	Monthly data	a, not seasor	nally adjusted	j	·	L
1988:									
July	35.1	\$9.24	\$324.32	42.4	\$12.72	\$539.33	38.6	\$12.96	\$500.26
August	35.0	9.24	323.40	42.0	12.69	532.98	38.6	12.99	501.41
September	34.8	9.40	327.12	42.2	12.82	541.00	38.4	13.16	505.34
October	34.9	9.45	329.81	42.6	12.79	544.85	39.1	13.17	514.95
November	34.7	9.46	328.26	41.9	12.89	540.09	37.8	13.08	494.42
December	34.9	9.46	330.15	42.8	13.03	557.68	37.3	13.19	491.99
1989:	04.5	254	000.40	40.0	10.00	557.04	00.5	40.00	400.00
January	34.5	9.54	329.13	42.2	13.20	557.04	36.5	13.26	483.99
February	34.3	9.55	327.57	41.7	13.22	551.27	36.2	13.21	478.20
March	34.4	9.56	328.86	42.0	13.15	552.30	37.4	13.26	495.92
April	34.8	9.62	334.78	42.8	13.19	564.53	37.9	13.30	504.07
May	34.5	9.59	330.86	42.0	13.13	551.46	37.7	13.28	500.66
June ^p	34.8	9.58	333.38	42.8	13.04	558.11	38.0	13.23	502.74
July ^p	35.1	9.63	338.01	43.4	13.07	567.24	39.0	13.32	519.48

ESTABLISHMENT DATA HISTORICAL HOURS AND EARNINGS

C-1. Average hours and earnings of production or nonsupervisory workers' on private nonagricultural payrolls by major industry, 1964 to date—Continued

		Manufa	acturing		Trans	oortation and utilities	public	W	/holesale tra	de
Year and month	Weekly hours	Hourly earnings	Hourly earnings, excluding overtime	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earning
		1			Annual	averages	<u> </u>			
964	40.7	\$2.53	\$2.43	\$102.97	41.1	\$2.89	\$118.78	40.7	\$2.52	\$102.5
965	41.2	2.61	2.50	107.53	41.3	3.03	125.14	40.8	2.61	106.4
966	41.4	2.71	2.59	112.19	41.2	3.11	128,13	40.7	2.73	111.1
967	40.6	2.82	2.71	114.49	40.5	3.23	130.82	40.3	2.88	116.0
968	40.7	3.01	2.88	122.51	40.6	3.42	138.85	40.1	3.05	122.3
969	40.6	3.19	3.05	129.51	40.7	3.63	147.74	40.2	3.23	129.8
970	39.8	3.35	3.23	133.33	40.5	3.85	155.93	39.9	3.44	137.2
971	39.9	3.57	3.45	142.44	40.1	4.21	168.82	39.5	3.65	144.1
972	40.5	3.82	3.66	154.71	40.4	4.65	187.86	39.4	3.85	151.6
973	40.7	4.09	3.91	166.46	40.5	5.02	203.31	39.3	4.08	160.3
974	40.0	4.42	4.25	176.80	40.2	5.41	217.48	38.8	4.39	170.3
975	39.5	4.83	4.67	190.79	39.7	5.88	233.44	38.7	4.73	183.0
976	40.1	5.22	5.02	209.32	39.8	6.45	256.71	38.7	5.03	194.6
977	40.3	5.68	5.44	228.90	39.9	6.99	278.90	38.8	5.39	209.1
978	40.4	6.17	5.91	249.27	40.0	7.57	302.80	38.8	5.88	228.1
979	40.2	6.70	6.43	269.34	39.9	8.16	325.58	38.8	6.39	247.9
980	39.7	7.27	7.02	288.62	39.6	8.87	351.25	38.5	6.96	267.9
981	39.8	7.99	7.72	318.00	39.4	9.70	382.18	38.5	7.56	291.0
982	38.9	8.49	8.25	330.26	39.0	10.32	402.48	38.3	8.09	309.8
983	40.1	8.83	8.52	354.08	39.0	10.79	420.81	38.5	8,55	329.1
984	40.7	9.19	8.82	374.03	39.4	11.12	438.13	38.5	8.89	342.2
985	40.5	9.54	9.16	386.37	39.5	11.40	450.30	38.4	9.16	351.7
986	40.7	9.73	9.34	396.01	39.2	11.70	458.64	38.3	9.35	358.1
987	41.0	9.91	9.48	406.31	39.2	12.03	471.58	38.1	9.60	365.7
988	41.1	10.18	9.72	418.40	39.3	12.32	484.18	38.1	9.94	378.7
		L	<u> </u>	Monthl	y data, not	 seasonally a	djusted	L	L	{
988:			1			1			T	
July	40.7	\$10.17	\$9.73	\$413.92	39.8	\$12.32	\$490.34	38.3	\$9,95	\$381.0
August	40.9	10.13	9.67	414.32	39.7	12.35	490.30	38.0	9.91	376.5
September	41.3	10.25	9.75	423.33	39.5	12.40	489.80	38.1	10.04	382.5
October	41.3	10.25	9.76	423.33	39.5	12.42	490.59	38.2	10.10	385.8
November	41.5	10.31	9.82	427.87	39.3	12.46	489.68	38.0	10.07	382.6
December	41.7	10.37	9.88	432.43	39.5	12.42	490.59	38.2	10.14	387.3
989:	71.7	10.57	3.00	432.43	33.3	12,42	430.33	30.2	10.14	307.0
January	41.0	10.37	9.91	425.17	39.3	12.47	490.07	37.9	10.23	387.7
February	40.8	10.38	9.92	423.50	39.1	12.50	488.75	37.8	10.23	386.6
March	41.0	10.41	9.94	426.81	39.2	12.46	488.43	37.9	10.21	386.9
April	41.0	10.41	9.95	426.81	39.8	12.51	497.90	38.2	10.36	395.7
May	40.9	10.42	9.98	426.18	39.3	12.49	490.86	37.9	10.28	389.6
June ^p	41.1	10.44	9.98	429.08	39.6	12.47	493.81	38.1	10.30	392.4
July ^p	40.5	10.47	10.02	424.04	40.3	12.60	507.78	38.3	10.41	398.7

ESTABLISHMENT DATA HISTORICAL HOURS AND EARNINGS

C-1. Average hours and earnings of production or nonsupervisory workers' on private nonagricultural payrolls by major industry, 1964 to date—Continued

Year and		Retail trade			ance, insura nd real esta			Services	
month	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings
				Aı	nnual averag	es			
1964	37.0	\$1.75	\$64.75	37.3	\$2.30	\$85.79	36.1	\$1.94	\$70.03
1965	36.6	1.82	66.61	37.2	2.39	88.91	35.9	2.05	73.60
966	35.9	1.91	68.57	37.3	2.47	92.13	35.5	2.17	77.04
967	35.3	2.01	70.95	37.1	2.58	95.72	35.1	2.29	80.38
968	34.7	2.16	74.95	37.0	2.75	101.75	34.7	2.42	83.97
969	34.2	2.30	78.66	37.1	2.93	108.70	34.7	2.61	90.57
970	33.8	2.44	82.47	36.7	3.07	112.67	34.4	2.81	96.66
971	33.7	2.60	87.62	36.6	3.22	117.85	33.9	3.04	103.06
972	33.4	2.75	91.85	36.6	3.36	122.98	33.9	3.27	110.85
973	33.1	2.91	96.32	36.6	3.53	129.20	33.8	3.47	117.29
974	32.7	3,14	102.68	36.5	3.77	137.61	33.6	3.75	126.00
975	32.4	3.36	108.86	36.5	4.06	148.19	33.5	4.02	134.67
976	32.1	3.57	114.60	36.4	4.27	155.43	33.3	4.31	143.52
977	31.6	3.85	121.66	36.4	4.54	165.26	33.0	4.65	153.45
978	31.0	4.20	130.20	36.4	4.89	178.00	32.8	4.99	163.67
979	30.6	4.53	138.62	36.2	5.27	190.77	32.7	5.36	175.27
980	30.2	4.88	147.38	36.2	5.79	209.60	32.6	5.85	190.71
981	30.1	5.25	158.03	36.3	6.31	229.05	32.6	6.41	208.97
982	29.9	5.48	163.85	36.2	6.78	245.44	32.6	6.92	225.59
983	29.8	5.74	171.05	36.2	7.29	263.90	32.7	7.31	239.04
984	29.8	5.85	174.33	36.5	7.63	278.50	32.6	7.59	247.43
985	29.4	5.94	174.64	36.4	7.94	289.02	32.5	7.90	256.75
986	29.2	6.03	176.08	36.4	8.36	304.30	32.5	8.18	265.85
987	29.2	6.12	178.70	36.3	8.73	316.90	32.5	8.49	275.93
988	29.1	6.31	183.62	35.9	9.09	326.33	32.6	8.91	290.47
			l	Monthly data	, not seasor	nally adjusted	J	L	l
988:		[I						
July	30.0	\$6.28	\$188.40	36.1	\$9.03	\$325.98	33.0	\$8.80	\$290.40
August	29.8	6.26	186.55	35.7	9.03	322.37	32.8	8.81	288.97
September	29.1	6.38	185.66	35.8	9.14	327.21	32.5	9.00	292.50
October	29.1	6.39	185.95	36.0	9.29	334,44	32.7	9.09	297.24
November	28.8	6.43	185.18	35.7	9.27	330.94	32.5	9.11	296.08
December	29.6	6.43	190.33	35.8	9.32	333.66	32.6	9.16	298.62
989:	20.0	0.40	100.00	00.0	0.02	000.00	02.0	5.10	200.02
January	28.4	6.48	184.03	36.1	9.46	341.51	32.6	9.25	301.55
February	28.3	6.47	183.10	35.8	9.47	339.03	32.4	9.28	300.67
March	28.5	6.48	184.68	35.8	9.43	337.59	32.4	9.29	301.00
April	28.9	6.52	188.43	36.3	9.59	348.12	32.8	9.34	306.35
May	28.8	6.49	186.91	35.6	9.48	337.49	32.4	9.30	301.32
June ^p	29.2	6.48	189.22	35.8	9.47	339.03	32.7	9.26	302.80
July ^p	29.9	6.48	193.75	36.4	9.58	348.71	33.1	9.33	308.82
Oury	23.3	0.40	100.70	50.4	3.50	J40.71	JJ. I	3.33	000.02

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

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

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

	1972		Averaç	je weekly	hours			Average	e overtin	ne hours	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Total private		34.9	35.1	34.5	34.8	35.1		f .			
Mining		42.5	42.4	42.0	42.8	43.4		1			
Motel mining	10	42.3	42.9	42.2	42.8					1	
Metal mining		41.5	41.6	42.2	43.0						
Copper ores		43.1	45.3	44.3	45.6						
								İ		1	
Coal mining		42.0		42.5	41.7			i			
Bituminous coal and lignite mining	12	42.1		42.5	41.8						
Oil and gas extraction	13	41.4	41.7	40.6	42.0						
Crude petroleum, natural gas, and natural gas liquids .		41.4	43.5	41.0	44.6					-	
Oil and gas field services	138	41.3	40.7	40.3	40.4						
Marian Additional and analysis and final		400	40.5	45.7	40.0						
Nonmetallic minerals, except fuels Crushed and broken stone		46.9 48.4	46.5 48.2	45.7 47.2	46.3 47.3						
Crushed and broken stone	142	40.4	40.2	47.2	47.3						
Construction	1	38.7	38.6	37.7	38.0	39.0					
	ĺ		İ								ŀ
General building contractors		38.0	37.9	37.1	37.3						
Residential building construction Operative builders		37.1 38.5	36.8 39.1	36.2 37.9	36.7 37.6						
Nonresidential building construction		39.0	39.0	38.1	38.0			1			
,								1		i	
Heavy construction contractors	16	43.3	42.9	41.3	41.6						
Highway and street construction		45.3	44.6	41.7	42.3				}	j	
Heavy construction, except highway	162	42.2	41.9	41.1	41.3			ļ	į		
Special trade contractors	17	37.8	37.7	36.9	37.2				1		
Plumbing, heating, and air conditioning		39.0	39.2	38.7	38.9				l		
Painting, paper hanging, and decorating		36.8	36.6	35.7	36.1				ļ	1	
Electrical work		38.8	39.2	38.8	38.8				İ		
Masonry, stonework, and plastering		35.6	35.5	34.6	35.1						
Carpentering and flooring Roofing and sheet metal work		35.6 35.6	35.5 34.6	34.7 32.7	35.2 32.8	!	l	į	l		
•					1			}			İ
Manufacturing		41.2	40.7	40.9	41.1	40.5	3.9	3.7	3.6	3.8	3.
Durable goods		42.0	41.2	41.5	41.7	40.9	4.1	3.8	3.8	3.9	3.
Lumber and wood products	24	40.9	40.3	40.1	40.4	39.3	3.9	3.8	3.5	3.6	
Logging camps and logging contractors		41.1	40.3	40.9	41.0	-	4.2	4.4	5.2	4.9	
Sawmills and planing mills		41,7	40.9	41.6	41.6		4.4	4.2	4.2	4.4	
Sawmills and planing mills, general		42.1	41.3	42.0	41.9		4.6	4.5	4.5	4.7	
Hardwood dimension and flooring Millwork, plywood, and structural members		40.1 40.6	39.5 40.3	40.3 39.5	40.3 40.0		3.5	3.1	3.1 3.0	3.4	1
Millwork		40.9	40.6	38.6	38.9		3.3	3.2	2.1	1.9	
Wood kitchen cabinets		39.8	39.4	38.9	40.1		3.4	2.8	2.9	3.5	
Hardwood veneer and plywood	2435	41.0	40.1	40.2	40.6		3.8	3.4	3.4	3.7	
Softwood veneer and plywood		41.6	41.1	42.4	42.6		5.1	5.4	4.9	4.9	
Wood containers		39.4	38.9	38.9	39.0		3.6	3.4	3.5	3.4	
Wood buildings and mobile homes Mobile homes		40.6 40.1	40.0 39.5	38.1 38.2	39.1		3.2 2.9	3.1	1.9	2.2 1.8	1
Miscellaneous wood products		40.5	39.8	39.6	40.0		3.3	3.1	2.7	2.9	
Furniture and fixtures	25	39.4	38.9	39.0	39.3	38.3	2.6	2,4	2.3	2.6	
Household furniture		39.0	38.3	38.7	38.9	-	2.3	1.9	2.1	2.3	
Wood household furniture		39.3	38.9	39.5	40.0	1	2.4	2.0	2.6	2.8	
Upholstered household furniture	2512	37.9	36.9	37.1	37.4		1.8	1.3	1.4	1.5	
Metal household furniture	1	40.3	39.4	40.2	40.1		2.7	2.0	2.5	3.0	
Mattresses and bedsprings		40.6	38.6	38.7	39.3		3.5	3.1	2.5	2.7	
Office furniture		39.9	39.8	39.1	39.0	-	2.4	2.6	2.0	2.1	
Public building and related furniture Partitions and fixtures		41.4 39.7	40.8 39.4	39.3 40.7	39.7 40.9		4.7 2.9	4.0 3.2	3.5 3.1	3.8	
Miscellaneous furniture and fixtures		39.4	39.4	38.2	40.9		2.9	2.9	2.0	1	
Stone, clay, and glass products	32	42.8	42.4	42.4	42.6	42.5	5.4	5.2	5.0	5.2	
Flat glass		45.4	44.5	44.7	44.9	-	7.5	7.2	6.0	5.7	1
Glass and glassware, pressed or blown		41.0	41.5	42.1	42.0		4.4	4.9	4.6	4.7	

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

lad .	1972	ļ	Average	nourly 6	zamings		· · · · · · · · · · · · · · · · · · ·	Average	e weekly e	arrings	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p
Total private		\$9.23	\$9.24	\$9.59	\$9.58	\$9.63	\$322.13	\$324.32	\$330.86	\$333.38	\$338.0
Mining		12.61	12.72	13.13	13.04	13.07	535.93	539.33	551.46	558.11	567.24
Metal mining	10	13.25	13.31	13.60	13.65		560.48	571.00	573.92	584.22	
Iron ores		14.55	14.76	13.78			603.83	614.02	587.03	619.20	
Copper ores		11.68	11.60	11.51	11.77		503.41	525.48	509.89	536.71	
Coal mining Bituminous coal and lignite mining		15.86 15.91		16.16 16.22	15.74 15.79		666.12 669.81	643.92 647.54	686.80 689.35	656.36 660.02	
Oil and gas extraction	13	11.68	11.92	12.37	12.50		483.55	497.06	502.22	525.00	
Crude petroleum, natural gas, and natural gas liquids		14.35	14.51	15.09	15.24		594.09	631.19	618.69	679.70	
Oil and gas field services		10.09	10.29	10.73	10.70		416.72	418.80	432.42	432.28	
Nonmetallic minerals, except fuels	14	10.91	10.97	11.16	11.29		511.68	510.11	510.01	522.73	
Crushed and broken stone		10.40	10.45	10.68	10.83		503.36	503.69	504.10	512.26	
Construction		12.89	12.96	13.28	13.23	13.32	498.84	500.26	500.66	502.74	519.48
General building contractors	15	12.03	12.05	12.51	12.45		457,14	456.70	464.12	464.39	
Residential building construction		11.34	11.38	11.90	11.87		420.71	418.78	430.78	435.63	
Operative builders	1	11.05	10.89	11.85	11.79		425.43	425.80	449.12	443.30	
Nonresidential building construction	154	12.86	12.83	13.22	13.14		501.54	500.37	503.68	499.32	
Heavy construction contractors	16	12.39	12.53	12.95	13.01		536.49	537.54	534.84	541.22	
Highway and street construction		12.32	12.42	12.52	12.73	ļ	558.10	553.93	522.08	538.48	
Heavy construction, except highway	162	12.43	12.59	13.15	13.15		524.55	527.52	540.47	543.10	
Special trade contractors		13.43	13.48	13.70	13.62		507.65	508.20	505.53	506.66	
Plumbing, heating, and air conditioning		13.72	13.83	14.20	14.07		535.08	542.14	549.54	547.32	
Painting, paper hanging, and decorating		12.64	12.69	12.93	12.94		465.15	464.45	461.60	467.13	
Electrical work Masonry, stonework, and plastering		14.76 13.69	14.73 13.62	14.66 13.94	14.69 13.83		572.69 487.36	577.42 483.51	568.81 482.32	569.97 485.43	
Carpentering and flooring		12.82	12.82	13,11	12.96		456.39	455.11	454.92	456.19	
Roofing and sheet metal work		11.83	12.05	11.98	11.92		421.15	416.93	391.75	390.98	
Manufacturing		10.16	10.17	10.42	10.44	10.47	418.59	413.92	426.18	429.08	424.04
Durable goods		10.70	10.67	10.94	10.98	10.99	449.40	439.60	454.01	457.87	449.49
Lumber and wood products	24	8.60	8.66	8.79	8.86	8.92	351.74	349.00	352.48	357.94	350.56
Logging camps and logging contractors	241	10.78	11.08	11.14	11.28	- 1	443.06	446.52	455.63	462.48	-
Sawmills and planing mills		8.73	8.77	8.95	8.98		364.04	358.69	372.32	373.57	
Sawmills and planing mills, general		9.07	9.09	9.27	9.30		381.85	375.42	389.34	389.67	
Hardwood dimension and flooring Millwork, plywood, and structural members		7.03 8.61	7.09 8.57	7.33 8.72	7.38 8.76		281.90 349.57	280.06 345.37	295.40 344.44	297.41 350.40	
Millwork		8.79	8.76	8.92	8.92		359.51	355.66	344.31	346.99	
Wood kitchen cabinets		8.04	7.89	8.14	8.19		319.99	310.87	316.65	328.42	
Hardwood veneer and plywood	2435	6.99	7.03	7.28	7.41		286.59	281.90	292.66	300.85	
Softwood veneer and plywood	2436	10.20	10.27	10.13	10.19		424.32	422.10	429.51	434.09	
Wood containers		6.34	6.39	6.51	6.44		249.80	248.57	253.24	251.16	
Wood buildings and mobile homes		8.08	8.01	8.30	8.31	1	328.05 329.62	320.40	316.23	324.92 324.87	
Miscellaneous wood products		8.22 7.41	8.07 7.50	8.31 7.61	8.33 7.69		300.11	318.77 298.50	317.44 301.36	307.60	
Furniture and fixtures	25	7.93	7.99	8.16	8.22	8.26	312.44	310.81	318.24	323.05	316.36
Household furniture		7.30	7.35	7.53	7.57	-	284.70	281.51	291.41	294.47	-
Wood household furniture		6.81	6.91	7.08	7.11		267.63	268.80	279.66	284.40	
Upholstered household furniture		7.91	7.90	8.23	8.22	1	299.79	291.51	305.33	307.43	
Metal household furniture		7.37	7.55	7.57	7.93	- 1	297.01	297.47	304.31	317.99	
Mattresses and bedsprings Office furniture		7.76 8.98	7.69 9.16	7.87 9.18	7.88 9.31	1	315.06 358.30	296.83 364.57	304.57 358.94	309.68 363.09	
Public building and related furniture		8,48	8.37	8.78	8.75		351.07	364.57	345.05	347.38	
Partitions and fixtures		9.34	9.36	9.62	9.66	1	370.80	368.78	391.53	395.09	
Miscellaneous furniture and fixtures		8.27	8.21	8.45	8.52		325.84	320.19	322.79	340.80	
Stone, clay, and glass products		10.47	10.53	10.69	10.74	10.78	448.12	446.47	453.26	457.52	458.15
Flat glass		15.02	14.83	15.06	14.93	-	681.91	659.94	673.18	670.36	-
Glass and glassware, pressed or blown	322	11.69	11.89	12.05	12.04		479.29	493.44	507.31	505.68	

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

	1972		Averag	e weekly	hours			Average	overtim	e hours	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989°	June 1988	July 1988	May 1989	June 1989 ⁹	Jul 1989
Durable goods—Continued											
Stone, clay, and glass products—Continued											
Glass containers		40.8	41.6	42.4	42.5		5.3	5.7	5.4	5.6	
Pressed and blown glass, nec		41.2	41.3	41.7	41.4		3.3	4.0	3.6	3.7	
Products of purchased glass		41.9	41.7	41.5	41.4		3.5	3.4	3.2	3.3	
Cement, hydraulic		42.5	42.3	41.7	41.5		3.3 4.4	3.4 4.4	3.0 3.7	2.8 4.0	
Structural clay products Pottery and related products		42.1 40.1	41.9 39.5	41.4 40.2	42.3 39.8		2.9	2.9	2.9	3.0	
Concrete, gypsum, and plaster products		44.7	43.9	43.4	43.7		7.4	6.9	6.8	7.0	
Concrete block and brick		46.6	45.5	44.0	43.4		8.1	7.0	6.7	6.8	
Concrete products, nec		43.4	43.1	43.3	43.6		6.3	6.3	6.2	6.4	1
Ready-mixed concrete		44.7	43.5	42.8	43.1		8.0	7.1	7.0	7.2	
Misc. nonmetallic mineral products	329	42.6	41.8	42.2	42.7		4.7	4.5	4.5	4.7	
Abrasive products	3291	43.8	42.7	42.7	44.1		3.8	3.6	4.0	4.5	
Asbestos products	3292	42.5	40.7	42.1	41.2		3.9	2.9	5.0	3.4	
Primary metal industries		43.7	43.1	43.1	43.3	42.7	5.6	5.4	5.1	5.4	
Blast furnaces and basic steel products		44.5	44.0	43.6	43.8	43.2	5.9	5.9	5.6	5.8	
Blast furnaces and steel mills		44.7	44.4	43.9	44.2	-	6.0	6.2	5.8	6.0	Ì
Steel pipe and tubes		43.9	41.7	41.7	41.7 42.9		5.9 5.7	5.0 5.2	4.2 5.0	4.5 5.2	
Iron and steel foundries		43.5 43.9	42.6 42.3	42.8 43.0	43.4		6.1	5.3	5.0	5.7	
Malleable iron foundries		42.0	42.2	41.3	42.0		4.2	5.1	3.4	3.8	
Steel foundries, nec		43.1	43.1	42.4	42.4		5.7	5.1	4.7	4.9	
Primary nonferrous metals	1	43.4	43.6	42.9	42.8		4.6	5.1	4.7	4.8	
Primary aluminum		43.8	43.8	43.1	42.6		4.8	5.1	4.9	4.9	
Nonferrous rolling and drawing		43.8	43.1	43.5	43.8		6.2	6.0	5.7	6.2	
Copper rolling and drawing	3351	43.7	42.3	43.3	43.9		6.7	6.2	4.8	5.8	
Aluminum sheet, plate, and foil	3353	45.3	45.2	45.3	44.8		7.7	8.2	7.7	7.6	
Nonferrous wire drawing and insulating		43.4	42.5	42.7	42.7		5.7	5.2	5.1	5.4	
Nonferrous foundries	1	42.0 42.8	40.5 40.8	41.5 42.0	41.7 42.2		4.1 4.5	3.2 3.3	3.7 3.7	3.7	
Fabricated metal products		42.2	41.1	41.5	41.7	40.7	4.2	3.6	3.7	3.8	
Metal cans and shipping containers		44.8	45.0	44.2	44.7		5.8	6.1	5.7 5.4	6.0	{
Metal cans Cutlery, hand tools, and hardware	1	45.1 41.9	45.5 40.5	44.2 41.0	45.1 40.9	l	6.0 3.6	6.3 3.1	2.8	6.0 2.8	
Hand and edge tools, and hand saws and blades .		41.4	40.4	40.9	40.9		3.1	2.8	2.6	2.6	
Hardware, nec		41.8	40.2	40.6	40.6	1	3.7	3.2	2.6	2.7	
Plumbing and heating, except electric		40.9	40.6	40.4	40.7		3.5	3.2	3.0	3.3	
Plumbing fittings and brass goods		40.7	40.5	41.1	40.9		3.1	2.8	3.4	3.1	
Heating equipment, except electric	3433	40.5	40.6	39.5	39.8		3.3	3.6	2.4	3.1	
Fabricated structural metal products		41.3	40.9	41.1	41.5		3.8	3.8	3.4	3.7	
Fabricated structural metal		42.3	42.2	41.5	41.9		5.0	5.1	4.0	4.1	
Metal doors, sash, and trim		40.6	40.2	40.3	40.8		3.3	3.3	2.6	3.1	1
Fabricated plate work (boiler shops)		42.9 39.9	42.0 39.6	42.3 40.3	42.4 40.6		4.4 3.0	4.2 3.1	3.8 3.0	4.0 3.2	
Architectural metal work		40.3	39.7	40.9	41.6		3.5	3.1	4.4	4.5	1
Screw machine products, bolts, etc		43.4	42.7	42.4	42.7	1	5.4	4.9	4.7	4.9	1
Screw machine products	3451	42.3	41.4	41.0	41.0	1	4.5	4.0	3.7	3.5	1
Bolts, nuts, rivets, and washers	3452	44.7	44.1	44.0	44.6		6.5	5.9	5.9	6.4	
Metal forgings and stampings	346	43.7	40.8	42.4	42.2		5.6	3.5	4.4	4.2	
Iron and steel forgings		43.4	42.9	42.7	43.1		5.1	4.8	4.6	5.0	ł
Automotive stampings		45.9	40.2	43.4	42.9		7.0	2.9	5.0	4.5	İ
Metal stampings, nec		40.8	40.4	40.6	40.5		3.8	3.5	3.3	3.3	
Metal services, nec		41.3	40.3	41.3	41.3		3.7	3.2	3.8	3.6	
Plating and polishing		41.3	40.1	41.3	41.0		3.6	3.1	3.7	3.4	1
Metal coating and allied services		41.2 41.7	40.6 41.2	41.2 41.4	41.8 41.8	_	3.8 3.3	3.5 2.8	3.9 2.8	4.0 3.1	1
Ordnance and accessories, nec Ammunition, except for small arms, nec		40.4	40.7	41.4	41.6		3.3 2.5	2.6	2.0	2.8	1
Misc. fabricated metal products		42.1	40.7	40.7	41.1	_	3.7	3.2	3.3	3.2	1
Valves and pipe fittings		43.0	41.7	41.6	41.6		4.1	3.8	3.3	3.1	
Misc. fabricated wire products		41.5	40.0	39.3	40.0		3.6	3.0	3.2	3.2	
Machinery, except electrical	35	42.7	42.3	42.3	42.6	41.8	4.4	4.1	4.2	4.3	
Engines and turbines		44.2	45.3	43.0	42.6	-	4.7	3.9	4.0	3.6	
Turbines and turbine generator sets		44.0	43.3	42.1	42.7		5.2	5.1	4.8	4.6	
Internal combustion engines, nec		44.2	45.9	43.3	42.6		4.6	3.5	3.8	3.2	
Farm and garden machinery		42.3	41.7	41.8	42.2	-	3.8	3.8	3.9	4.1	1
Farm machinery and equipment	3523	43.4	43.4	42.3	43.3	l -	4.8	4.7	4.5	4.9	1

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

	1972		Average	hourly 6	earnings			Averag	e weekly e	earnings	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989°	July 1989°	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Durable goods—Continued											
Stone, clay, and glass products-Continued	}								'		
Glass containers	1	\$12.18	\$12.38	\$12.57			\$496.94			\$534.65	
Pressed and blown glass, nec		11.12	11.30	11.45	11.40		458.14	466.69	477.47	471.96	
Products of purchased glass		9.13	9.15	9.29	9.32		382.55	381.56	385.54	385.85	
Cement, hydraulic		13.03	13.17	13.50	i 1		553.78	557.09	562.95	559.84	
Structural clay products		8.89	8.96	9.15	9.14		374.27	375.42	378.81	386.62	l
Pottery and related products		9.28	9.41	9.54	9.59 10.55		372.13	371.70	383.51	381.68	
Concrete, gypsum, and plaster products Concrete block and brick		10.25 9.32	10.28 9.36	10.49 9.67	9.80		458.18 434.31	451.29 425.88	455.27 425.48	461.04 425.32	
Concrete products, nec		9.19	9.22	9.48	9.51		398.85	397.38	410.48	414.64	
Ready-mixed concrete	· ·	11.05	11.10	11.29	11.36		493.94	482.85	483.21	489.62	
Misc. nonmetallic mineral products		10.57	10.61	10.65	10.76		450.28	443.50	449.43	459.45	
Abrasive products		9.96	9.99	10.24	10.25		436.25	426.57	437.25	452.03	
Asbestos products		10.48	10.54	11.20	11.07		445.40	428.98	471.52	456.08	
Primary metal industries		12.14	12.22	12.25	12.32	\$12.35		526.68	527.98	533.46	\$527.
Blast furnaces and basic steel products		13.95	14.09	14.06	14.15	14.17	620.78	619.96	613.02	619.77	612.1
Blast furnaces and steel mills		14.70	14.88	14.81	14.87	-	657.09	660.67	650.16	657.25	-
Steel pipe and tubes		11.01	10.82	10.85	11.00		483.34	451.19	452.45	458.70	
Iron and steel foundries		10.98	10.92	11.10	11.19		477.63	465.19	475.08	480.05	
Gray iron foundries Malleable iron foundries		11.52 11.75	11.44 12.22	11.64 12.15	11.73 12.05		505.73 493.50	483.91 515.68	500.52 501.80	509.08 506.10	
Steel foundries, nec		10.22	10.15	10.31	10.44		440.48	437.47	437.14	442.66	
Primary nonferrous metals		13.21	13.33	13.57	13.68		573.31	581.19	582.15	585.50	
Primary aluminum		13.57	13.60	13.85	13.98		594.37	595.68	596.94	595.55	
Nonferrous rolling and drawing	1	11.66	11.66	11.78	11.81		510.71	502.55	512.43	517.28	
Copper rolling and drawing		10.96	10.92	11.06	11.11		478.95	461.92	478.90	487.73	
Aluminum sheet, plate, and foil		14.02	14.00	14.24	14.22		635.11	632.80	645.07	637.06	
Nonferrous wire drawing and insulating	3357	11.82	11.78	11.84	11.96		512.99	500.65	505.57	510.69	
Nonferrous foundries		9.58	9.50	9.72	9.72		402.36	384.75	403.38	405.32	
Aluminum foundries	3361	9.78	9.62	9.94	9.94		418.58	392.50	417.48	419.47	
Fabricated metal products		10.29	10.20	10.49	10.50	10.54	434.24	419.22	435.34	437.85	428.9
Metal cans and shipping containers		13.51	13.42	13.75	13.86	-	605.25	603.90	607.75	619.54	_
Metal cans		14.32 10.20	14.21	14.69	14.77 10.38		645.83 427.38	646.56 406.22	649.30 427.63	666.13 424.54	
Cutlery, hand tools, and hardware Hand and edge tools, and hand saws and blades		9.28	10.03 9.19	10.43 9.56	9.63		384.19	371.28	391.00	393.87	
Hardware, nec		10.63	10.41	10.85	10.74		444.33	418.48	440.51	436.04	
Plumbing and heating, except electric		9.37	9.38	9.43	9.48		383.23	380.83	380.97	385.84	
Plumbing fittings and brass goods		8.93	9.01	9.07	9.04		363.45	364.91	372.78	369.74	
Heating equipment, except electric		9.12	9.13	9.30	9.40		369.36	370.68	367.35	374.12	
Fabricated structural metal products		9.58	9.61	9.84	9.91		395.65	393.05	404.42	411.27	
Fabricated structural metal	3441	10.27	10.25	10.45	10.44		434.42	432.55	433.68	437.44	
Metal doors, sash, and trim		8.04	8.10	8.23	8.26		326.42	325.62	331.67	337.01	
Fabricated plate work (boiler shops)		10.29	10.34	10.46	10.57		441.44	434.28	442.46	448.17	
Sheet metal work		9.89	9.92	10.15	10.34		394.61	392.83	409.05	419.80	
Architectural metal work		8.93	8.86	9.32	9.32		359.88	351.74	381.19	387.71	
Screw machine products, bolts, etc	345	10.00 9.27	9.96	10.25	10.30		434.00 392.12	425.29 385.43	434.60	439.81	
Screw machine products Bolts, nuts, rivets, and washers		10.80	9.31 10.66	9.63 10.90	9.64 10.98		482.76	470.11	394.83 479.60	395.24 489.71	
Metal forgings and stampings		12.46	12.10	12.57	12.49		544.50	493.68	532.97	527.08	
Iron and steel forgings		12.94	12.97	13.27	13.32		561.60	556.41	566.63	574.09	
Automotive stampings		14.20	13.79	14.24	14.05		651.78	554.36	618.02	602.75	
Metal stampings, nec		9.46	9.44	9.67	9.74	1	385.97	381.38	392.60	394.47	
Metal services, nec		8.20	8.26	8.50	8.50		338.66	332.88	351.05	351.05	
Plating and polishing	3471	8.16	8.23	8.46	8.47	İ	337.01	330.02	349.40	347.27	
Metal coating and allied services	3479	8.28	8.32	8.57	8.55		341.14	337.79	353.08	357.39	
Ordnance and accessories, nec		11.29	11.30	11.59	11.56	,	470.79	465.56	479.83	483.21	
Ammunition, except for small arms, nec		10.96	10.94	11.37	11.23		442.78	445.26	462.76	467.17	
Misc. fabricated metal products		9.43	9.50	9.70	9.74		397.00	386.65	396.73	400.31	
Valves and pipe fittings Misc. fabricated wire products		10.31 8.38	10.41 8.39	10.51 8.64	10.49 8.64		443.33 347.77	434.10 335.60	437.22 339.55	436.38 345.60	
·			1		1	11.04					474.0
Machinery, except electrical		10.97	10.98	11.29	11.32	11.34	468.42	464.45	477.57	482.23	474.0
Engines and turbines		13.69	13.71	13.98	14.08	_	605.10	621.06	601.14	599.81	-
Turbines and turbine generator sets		13.75	13.90	14.19	14.15 14.05	-	605.00	601.87	597.40	604.21	
Internal combustion engines, necFarm and garden machinery		13.67 10.04	13.66 10.30	13.91 10.47	10.60	-	604.21 424.69	626.99 429.51	602.30 437.65	598.53 447.32	-
Farm machinery and equipment		10.69	10.30	11.37	11.36		463.95	473.49	480.95	491.89	-
i ann macimiery and equipment	3323	10.00	10.91	11.57	11.55		700,00	7,0,73	700.30	701.00	

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

	1972		Averag	je weekly	hours			Average	overtim	ne hours	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989°	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Durable goods—Continued											
Machinery, except electrical—Continued	1										
Construction and related machinery	. 353	43.4	42.9	42.3	42.8		4.3	4.1	4.0	4.4	
Construction machinery	. 3531	44.5	44.2	42.7	43.0		4.0	3.9	4.3	4.5	
Mining machinery	. 3532	41.1	40.8	42.0	42.7		3.7	4.0	4.0	4.5	
Oil field machinery	. 3533	44.3	42.4	41.3	42.6		6.3	5.3	3.7	4.5	
Conveyors and conveying equipment	. 3535	43.0	43.9	43.3	43.9		4.5	5.1	5.2	5.4	1
Industrial trucks and tractors		41.3	41.3	40.9	41.1		3.4	3.4	3.0	3.5	
Metalworking machinery	. 354	43.3	42.9	43.3	43.6		5.0	5.0	5.3	5.4	
Machine tools, metal cutting types		42.8	42.2	44.3	44.2		4.3	4.3	5.3	5.4	1
Machine tools, metal forming types		44.1	44.9	43.4	44.0		5.3	5.9	5.3	5.9	
Special dies, tools, jigs, and fixtures	1	43.9	43.7	43.7	44.0		5.8	5.8	5.9	6.0	
Machine tool accessories		42.3	41.6	42.4	42.6		4.4	4.1	4.8	4.7	
Power driven hand tools	1	42.4	41.6	42.0	42.8		3.3	3.4	3.5	3.6	
Special industry machinery		42.4	41.7	42.0	42.4		4.8	4.5	4.4	4.5	
Food products machinery		42.1	41.8	41.8	42.6		4.1	4.0	4.2	4.3	
Textile machinery	1	42.6	41.8	42.4	42.5		3.8	3.2	3.5	3.4	
Printing trades machinery		40.1	39.5	38.7	38.7		5.1	5.0	4.0	3.8	1
General industrial machinery		42.9	42.5	42.3	42.8		4.8	4.5	4.2	4.4	
Pumps and pumping equipment		43.8	43.7	42.5	43.0		4.7	4.5	3.9	4.2	i
Ball and roller bearings		44.1	43.0	43.4	43.6		6.2	5.4	5.8	6.0	İ
Air and gas compressors		42.0	41.9	43.6	45.9		4.8	4.2	4.4	4.7	
Blowers and fans		42.0	41.1	40.9	41.4		3.2	3.2	2.6	3.2	
Speed changers, drives, and gears	1	43.4	42.1	41.6	42.2		5.6	5.3	4.3	4.8	
Power transmission equipment, nec		41.8	42.0	41.7	42.0		5.1	4.8	4.3	4.3	1
Office and computing machines		41.5	41.5	41.4	41.8		3.2	2.8	2.7	3.1	İ
Electronic computing equipment		41.6	41.5	41.4	41.6		3.2	2.8	2.7	3.1	
Refrigeration and service machinery		42.4	41.5	42.0	42.2	į	4.1	3.5	3.5	3.7	
Refrigeration and heating equipment		43.0	42.2	42.7	42.9		4.3	3.8	4,1	4.3	
Misc. machinery, except electrical		42.1	41.8	41.7	42.3		4.4	4.3	4.4	4.4	
Carburetors, pistons, rings, and valves Machinery, except electrical, nec		43.2 41.9	42.7 41.7	42.2 41.7	42.4 42.2		5.1 4.3	4.9 4.3	4.3 4.4	4.4 4.4	
Clastical and clastronic agricument	26	44.4	40.4	40.4	40.0	40.4			0.0	20	
Electrical and electronic equipment		41.1	40.4	40.4	40.8	40.1	3.3	2.9	2.8	3.0	
Electric distributing equipment		42.3	41.9	41.6	41.9	-	3.5	3.7	2.7	3.1	
Transformers		42.5	41.8	42.1	42.5		3.4	3.2	2.8	3.3	
Switchgear and switchboard apparatus		42.2	42.0	41.1	41.3		3.6	4.1	2.6	2.9 3.8	
Electrical industrial apparatus		42.6	41.8 41.6	41.7 41.9	42.1 42.0		4.4 5.1	3.8 3.9	3.4 3.9	4.3	
Motors and generators		42.5	41.0		1		2.8		2,2	3.0	
Industrial controls Household appliances		41.9 39.7	39.2	40.3 39.3	41.7 39.4		2.8	2.6 2.5	2.2	2.6	
Household refrigerators and freezers		39.7	38.8	38.2	38.2		4.5	3.6	3.2	2.9	
Household laundry equipment		39.9	40.3	41.0	41.3		2.0	2.2	2.6	2.9	
Electric housewares and fans		39.4	39.7	40.4	40.5		2.0	2.2	2.8	2.8	
Electric lighting and wiring equipment		40.4	39.3	39.7	40.0		3.2	2.5	2.5	2.8	}
Electric lamps		41.0	40.2	40.4	39.9		3.6	2.9	2.5	2.8	
Current-carrying wiring devices		39.7	38.9	39.6	40.0	}	2.9	2.6	2.4	2.8	ł
Noncurrent-carrying wiring devices		40.9	39.6	39.9	40.5		2.7	2.4	2.4	2.5	
Residential lighting fixtures		38.7	38.2	37.7	37.9	ļ	1.7	1.3	1.7	2.5	1
Radio and TV receiving equipment	. 365	41.3	40.8	39.4	40.0		3.2	2.7	2.8	3.0	
Radio and TV receiving sets		40.8	40.5	38.7	39.3		2.7	1.9	2.3	2.6	
Communication equipment		41.0	40.7	40.7	41.1		2.5	2.3	2.2	2.5	
Telephone and telegraph apparatus		42.7	42.2	41.5	42.3		3.0	2.6	2.3	2.9	
Radio and TV communication equipment		40.4	40.1	40.3	40.6		2.4	2.2	2.2	2.3	
Electronic components and accessories		40.5	39.9	39.9	40.2		3.3	3.0	3.0	3.2	
Electronic tubes		41.6	41.1	41.3	41.0	}	3.3	2.9	3.4	3.3	
Semiconductors and related devices		40.1	40.0	39.6	40.0		3.4	3.4	3.5	3.8	
Electronic components, nec		40.8	39.9	40.2	40.5		3.3	3.0	2.9	3.2	
Misc. electrical equipment and supplies		42.6	41.2	41.6	42.2		4.1	3.2	3.2	3.4	1
Storage batteries		41.8	40.9	41.8	43.0		3.3	2.9	2.9	3.4	
Engine electrical equipment		43.6	41.1	41.8	42.4		5.2	3.5	4.0	4.0	

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

	1972		Average	hourly e	arnings			Average	e weekly e	earnings	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989°	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Ourable goods—Continued											
Machinery, except electrical—Continued											
Construction and related machinery		\$11.08	\$11.02	\$11.32	\$11.38		\$480.87	\$472.76			
Construction machinery		12.33	12.24	12.64	12.75		548.69	541.01	539.73	548.25	
Mining machinery		11.40	11.43	11.25	11.25		468.54	466.34	472.50	480.38	
Oil field machinery		10.81	10.69	11.05	11.01		478.88	453.26	456.37	469.03	
Conveyors and conveying equipment		9.96	9.93	10.32	10.36		428.28	435.93	446.86	454.80	
Industrial trucks and tractors		9.91	9.83	10.01	10.22		409.28	405.98	409.41	420.04	
Metalworking machinery		11.31	11.40	11.70	11.74		489.72	489.06	506.61 516.10	511.86 512.72	
Machine tools, metal cutting types Machine tools, metal forming types		11.30 11.74	11.37 11.80	11.65 12.09	11.60 12.17		483.64 517.73	479.81 529.82	524.71	535.48	
Special dies, tools, jigs, and fixtures		12.08	12.21	12.49	12.17	:	530.31	533.58	545.81	553.08	
Machine tool accessories		10.10	10.08	10.56	10.58		427.23	419.33	447.74	450.71	
Power driven hand tools		8.92	9.10	9.35	9.37		378.21	378.56	392.70	401.04	
Special industry machinery		11.13	11.17	11.47	11.54		471.91	465.79	481.74	489.30	
Food products machinery		11.08	10.99	11.53	11.46		466.47	459.38	481.95	488.20	
Textile machinery		9.09	9.13	9.59	9.62		387.23	381.63	406.62	408.85	1
Printing trades machinery		12.23	12.31	12.36	12.44		490.42	486.25	478.33	481.43	
General industrial machinery		10.63	10.59	10.86	10.89		456.03	450.08	459.38	466.09	
Pumps and pumping equipment		11.33	11.31	11.37	11.45	-	496.25	494.25	483.23	492.35	_
Ball and roller bearings	3562	11.17	10.96	11.33	11.40	- 1	492.60	471.28	491.72	497.04	
Air and gas compressors		10.55	10.46	10.50	10.57	-	443.10	438.27	457.80	485.16	
Blowers and fans	3564	9.38	9.38	9.64	9.69		393.96	385.52	394.28	401.17	
Speed changers, drives, and gears	3566	10.59	10.47	11.16	11.13		459.61	440.79	464.26	469.69	-
Power transmission equipment, nec	3568	10.54	10.62	10.42	10.42	-	440.57	446.04	434.51	437.64	
Office and computing machines		10.72	10.70	11.05	11.15	-	444.88	444.05	457.47	466.07	
Electronic computing equipment		10.69	10.67	11.04	11.13		444.70	442.81	457.06	463.01	
Refrigeration and service machinery		10.64	10.49	10.79	10.76		451.14	435.34	453.18	454.07	
Refrigeration and heating equipment		10.86	10.70	11.03	10.95		466.98	451.54	470.98	469.76	ļ
Misc. machinery, except electrical		10.58	10.55	10.98	10.92	-	445.42	440.99	457.87	461.92	
Carburetors, pistons, rings, and valves		12.85 10.25	12.62 10.26	13.17 10.69	13.10 10.63	-	555.12 429.48	538.87 427.84	555.77 445.77	555.44 448.59	
Electrical and electronic equipment	26	10.15	10.13	10.33	10.38	\$10.44	417.17	409.25	417.33	423.50	\$41
Electrical and electronic equipment		9.36	9.41	9.42	9.38	₩10.44 -	395.93	394.28	391.87	393.02	Ψ-11
Transformers		9.17	9.23	9.14	9.00	-	389.73	385.81	384.79	382.50	
Switchgear and switchboard apparatus		9.54	9.58	9.72	9.77	_	402.59	402.36	399.49	403.50	
Electrical industrial apparatus		10.07	10.03	10.06	10.07		428.98	419.25	419.50	423.95	ł
Motors and generators		10.08	9.90	10.01	10.04		428.40	411.84	419.42	421.68	
Industrial controls		9.88	10.01	9.88	9.86		413.97	410.41	398.16	411.16	-
Household appliances		10.10	10.14	10.14	10.11	_	400.97	397.49	398.50	398.33	
Household refrigerators and freezers		11.75	11.77	11.88	11.78	-	467.65	456.68	453.82	450.00	
Household laundry equipment	3633	11.71	11.79	12.13	11.99		467.23	475.14	497.33	495.19	
Electric housewares and fans	3634	7.47	7.42	7.53	7.47		294.32	294.57	304.21	302.54	
Electric lighting and wiring equipment		9.57	9.49	9.77	9.84		386.63	372.96	387.87	393.60	
Electric lamps		10.63	10.72	10.95	10.89		435.83	430.94	442.38	434.51	
Current-carrying wiring devices		9.27	9.43	9.57	9.70		368.02	366.83	378.97	388.00	
Noncurrent-carrying wiring devices		9.24	9.23	9.26	9.44		377.92	365.51	369.47	382.32	1
Residential lighting fixtures		7.08	7.09	7.37	7.48		274.00	270.84	277.85	283.49	
Radio and TV receiving equipment		9.34	9.33	9.59	9.60		385.74	380.66	377.85	384.00	
Radio and TV receiving sets		9.78	9.62	10.08	10.09		399.02	389.61	390.10	396.54	
Communication equipment Telephone and telegraph apparatus		12.12	12.15 11.72	12.37 11.71	12.44 11.70		496.92 500.02	494.51 494.58	503.46 485.97	511.28 494.91	
Radio and TV communication equipment		12.29	12.33	12.64	12.74		496.52	494.43	509.39	517.24	
Electronic components and accessories		9.21	9,21	9.55	9.63	ļ	373.01	367.48	381.05	387.13	
Electronic tubes		11.37	11.53	12.01	12.17	_	472.99	473.88	496.01	498.97	
Semiconductors and related devices		11.19	11.11	11.61	11.74	-	448.72	444.40	459.76	469.60	
Electronic components, nec		8.24	8.21	8.50	8.55		336.19	327.58	341.70	346.28	
Misc. electrical equipment and supplies		10.75	10.54	10.97	11.06		457.95	434.25	456.35	466.73	
Storage batteries		11.05	10.81	11.56	11.60		461.89	442.13	483.21	498.80	
			10.01					. ,		.00.00	1

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

	1972		Averag	e weekly	hours			Average	overtim	e hours	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	M ay 1989	June 1989 ^p	July 1989
Durable goods—Continued											
Transportation equipment	37	43.0	41.7	42.7	42.6	41.7	4.9	4.2	4.5	4.5	
Motor vehicles and equipment	371	44.2	41.7	43.3	43.0	41.3	5.8	4.4	4.7	4.7	
Motor vehicles and car bodies	3711	44.0	40.8	43.4	43.0	_	5.9	4.4	4.7	4.7	1
Truck and bus bodies		43.0	41.7	42.7	42.8		4.1	3.8	3.7	4.0	İ
Motor vehicle parts and accessories		44.7	42.2	43.8	43.5		6.2	4.5	5.2	5.0	
Truck trailers		41.5	39.5	40.3	40.2		3.8	2.6	2.3	2.7	
Aircraft and parts		42.2	42.3	42.7	43.0		4.4	4.5	4.9	5.2	
Aircraft		41.8	41.8	42.7	43.0		3.8	3.9	5.0	5.2	
Aircraft engines and engine parts		42.0	42.7	41.9	42.3		4.5	4.8	4.6	4.9	1
Aircraft equipment, nec		43.1	42.8	43.2	43.4		5.2	5.3	5.1	5.4	
• • •		40.6	40.2	40.6	40.2		2.9	2.8	3.0	2.7	
Ship and boat building and repairing		1			ı						
Ship building and repairing		40.8	40.7	41.3	41.0		3.1	3.0	3.1	2.9	
Boat building and repairing		40.2	39.5	39.7	39.1		2.7	2.6	2.8	2.5	
Railroad equipment		42.7	40.8	42.0	43.2		4.0	3.3	3.4	4.3	
Guided missiles, space vehicles, and parts		42.6	42.9	42.7	43.1		4.1	4.5	4.0	3.9	
Guided missiles and space vehicles	3761	42.4	42.9	43.1	43.6		4.2	4.7	4.1	4.2	
Miscellaneous transportation equipment	379	39.8	40.5	39.5	39.2		2.6	3.1	2.2	2.4	
Travel trailers and campers	3792	38.8	39.5	38.4	38.3		2.0	3.2	1.6	1.7	
Instruments and related products		41.4	41.1	40.8	41.3	41.0	3.0	2.8	2.7	2.7	
Engineering and scientific instruments	381	41.6	42.0	41.6	41.9	_	2.8	3.0	2.8	2.8	
Measuring and controlling devices	382	41.6	40.9	40.6	41.1		2.8	2.6	2.5	2.6	
Environmental controls		39.7	38.5	39.8	40.4		2.1	2.1	2.0	2.3	
Process control instruments		44.2	43.4	42.9	42.9		3.9	3.7	3.7	3.6	
Instruments to measure electricity		40.6	40.4	39.8	40.6	ļ	2.5	2.0	2.1	2.2	
Optical instruments and lenses		43.6	43.9	42.6	42.8		3.7	3.3	2.5	2.7	
Medical instruments and supplies		40.9	40.2	40.2	40.4		2.9	2.6	2.6	2.6	-
Surgical and medical instruments		41.1	39.5	39.9	40.9		2.9	2.3	2.5	2.9	İ
Surgical appliances and supplies		40.4	40.9	40.4	39.7		2.5	2.9	2.7	2.9	
		1	39.2		1			2.9	2.7		
Ophthalmic goods		39.8		40.5	40.6		2.8			2.2	
Photographic equipment and supplies Watches, clocks, and watchcases		42.6 40.4	43.7 39.9	42.6 39.1	43.7 39.3		4.0 2.1	3.7 1.6	3.6 1.3	3.4 1.4	
Miscellaneous manufacturing	39	39.4	38.6	39.4	39.4	38.2	2.5	2.1	2.3	2.4	
Jewelry, silverware, and plated ware		37.2	37.7	38.2	37.6		1.8	.9	1.7	1.2	
Jewelry, precious metal		35.9	36.7	38.0	37.0		1.4	.3	1.6	.9	1
Musical instruments		39.9	38.3	39.2	38.7		2.3	1.8	1.9	1.7	1
					}	i	2.3	2.1	2.4	2.5	
Toys and sporting goods		39.5	38.7	39.8	39.8						
Dolls, games, toys, and children's vehicles		37.7	37.0	38.1	38.4		1.2	1.2	1.2	1.6	
Sporting and athletic goods, nec		40.8	39.9	41.0	40.7		3.0	2.8	3.2	3.2	1
Pens, pencils, office, and art supplies		40.4	40.1	40.0	40.2	ŀ	3.1	2.7	2.4	2.7	ļ
Costume jewelry and notions		38.6	36.2	38.0	38.6		2.4	1.3	2.1	2.8	-
Costume jewelry		37.3	34.3	36.6	37.6		2.1	.7	2.0	2.9	•
Miscellaneous manufactures		40.0	39.1	40.0	39.9		2.8	2.5	2.6	2.5	}
Signs and advertising displays	3993	39.9	39.2	39.9	39.9	ļ	2.7	2.8	2.8	2.9	
Nondurable goods		40.1	39.9	40.0	40.3	40.0	3.6	3.6	3.5	3.6	3
Food and kindred products	20	40.3	40.3	40.4	40.6	41.2	4.2	4.5	4.0	4.4	.
Meat products	201	40.5	40.1	40.6	40.9	-	4.4	4.3	4.1	4.4	
Meat packing plants	2011	41.4	41.5	41.4	41.9		5.2	5.6	4.9	5.3	1
Sausages and other prepared meats	2013	41.7	41.3	41.6	41.8		5.0	5.2	4.8	4.8	
Poultry dressing plants	2016	39.4	38.5	39.8	39.9		3.5	3.1	3.4	3.7	ļ
Dairy products		41.4	41.7	40.9	41.3]	4.5	4.7	4.2	4.4	
Cheese, natural and processed		39.9	39.8	39.1	40.1	1	3.6	3.6	3.5	4.1	1
Fluid milk		42.0	42.5	41.6	41.9		4.7	5.2	4.5	4.5	İ
Preserved fruits and vegetables		38.6	38.5	39.1	39.0	1	3.7	4.3	3.2	4.0	1
		1	1	1	1			1		1	
Canned specialties		40.1	41.2	41.5	42.8		4.3	3.9	4.7	5.8	
Canned fruits and vegetables	2033	38.7	38.8	40.0	37.9		4.2	5.4	3.3	4.2	
Frozen fruits and vegetables		37.4	36.4	37.1	37.7		3.5	3.4	2.2	3.6	
Grain mill products		44.2	44.9	43.7	44.2		5.8	6.8	5.5	5.9	
Flour and other grain mill products	2041	46.3	48.1	45.3	46.0		6.6	8.5	5.5	6.4	
Prepared feeds, nec	2048	43.2	43.2	42.4	42.5		5.8	6.2	5.6	5.8	
Bakery products	205	40.2	40.3	39.7	39.9	1	4.1	4.1	4.0	4.1	
Bread, cake, and related products		39.2	39.5	39.0	39.4		4.3	4.2	4.3	4.5	
						1		,	3.2		1

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

	1972		Average	hourly e	earnings			Average	weekly e	earnings	,
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ⁹
Durable goods—Continued											
Transportation equipment		\$13.30	\$13.19	\$13.58	\$13.65	\$13.57	\$571.90	1 7		\$581.49	
Motor vehicles and equipment		14.09	13.79	14.17	14.22	14.02	622.78	575.04	613.56	611.46	579.03
Motor vehicles and car bodies		16.23	16.03	16.30	16.44	-	714.12	654.02	707.42	706.92	-
Truck and bus bodies		11.77	11.66	11.61	11.81		506.11	486.22	495.75	505.47	
Motor vehicle parts and accessories		13.18 9.24	12.90	13.19	13.18		589.15	544.38 365.38	577.72 378.82	573.33	
Truck trailers		13.47	9.25 13.63	9.40 14.06	9.57 14.13		383.46 568.43	576.55	600.36	384.71 607.59	
Aircraft		(²)	(²)	(²)	(²)		-	370.33	-	-	ŀ
Aircraft engines and engine parts		\$13.74	\$14.04	\$14.20	\$14.30		\$577.08	\$599.51	\$594.98	\$604.89	
Aircraft equipment, nec		12.56	12.59	12.91	13.00		541.34	538.85	557.71	564.20	
Ship and boat building and repairing		10.23	10.17	10.48	10.54		415.34	408.83	425.49	423.71	
Ship building and repairing		11.51	11.44	11.66	11.68		469.61	465.61	481.56	478.88	
Boat building and repairing	3732	8.28	8.39	8.71	8.78		332.86	331.41	345.79	343.30	
Railroad equipment		11.94	11.95	12.57	12.68		509.84	487.56	527.94	547.78	
Guided missiles, space vehicles, and parts		13.06	13.15	13.60	13.65		556.36	564.14	580.72	588.32	
Guided missiles and space vehicles		(²)	(²)	(²)	(²)					<u>-</u> -	
Miscellaneous transportation equipment		\$10.04	\$10.19	\$10.24	\$10.39		\$399.59	\$412.70	\$404.48	\$407.29	
Travel trailers and campers	3792	8.65	8.65	8.98	9.11		335.62	341.68	344.83	348.91	
Instruments and related products		9.90	9.96	10.17	10.25	10.32	409.86	409.36	414.94	423.33	423.12
Engineering and scientific instruments	381	11.11	11.18	11.37	11.44	-	462.18	469.56	472.99	479.34	_
Measuring and controlling devices		9.68	9.69	9.93	10.02		402.69	396.32	403.16	411.82	
Environmental controls		9.29	9.30	9.28	9.38		368.81	358.05	369.34	378.95	
Process control instruments		9.35	9.37	9.50	9.62		413.27	406.66	407.55	412.70	
Instruments to measure electricity	4	9.79	9.79	10.17	10.30		397.47	395.52	404.77	418.18	
Optical instruments and lenses		10.75	10.92	11.14	11.31		468.70	479.39	474.56	484.07	
Medical instruments and supplies		8.84	8.94	9.26	9.25		361.56	359.39	372.25	373.70	
Surgical and medical instruments		9.10	9.15	9.38	9.46		374.01	361.43	374.26	386.91	
Surgical appliances and supplies		8.53	8.71	9.11	8.99		344.61	356.24	368.04	356.90	i
Ophthalmic goods		7.48	7.50	7.71	7.64		297.70	294.00	312.26	310.18	
Photographic equipment and supplies Watches, clocks, and watchcases		13.48 7.27	13.29 7.41	13.35 7.46	13.57 7.46		574.25 293.71	580.77 295.66	568.71 291.69	593.01 293.18	
Miscellaneous manufacturing	20	7.96	7.98	8.24	8.23	8.31	313.62	308.03	324.66	324.26	317.44
Jewelry, silverware, and plated ware		8.61	8.54	8.81	8.80	- 0.31	320.29	321.96	336.54	330.88	317.44
Jewelry, precious metal		8.75	8.63	8.80	8.77		314.13	316.72	334.40	324.49	_
Musical instruments		7.94	7.85	8.20	8.33		316.81	300.66	321.44	322.37	
Toys and sporting goods		7.22	7.23	7.53	7.52		285.19	279.80	299.69	299.30	
Dolls, games, toys, and children's vehicles		6.97	6.97	7.41	7.37		262.77	257.89	282.32	283.01	
Sporting and athletic goods, nec		7.39	7.41	7.61	7.62		301.51	295.66	312.01	310.13	
Pens, pencils, office, and art supplies		7.80	7.83	8.09	8.02		315.12	313.98	323.60	322.40	
Costume jewelry and notions		6.69	6.76	7.03	7.06		258.23	244.71	267.14	272.52	
Costume jewelry		6.22	6.26	6.56	6.66		232.01	214.72	240.10	250.42	
Miscellaneous manufactures		8.73	8.73	9.00	8.98		349.20	341.34	360.00	358.30	
Signs and advertising displays	3993	9.04	9.08	9.35	9.32		360.70	355.94	373.07	371.87	İ
Nondurable goods		9.40	9.46	9.68	9.69	9.77	376.94	377.45	387.20	390.51	390.80
Food and kindred products	20	9.11	9.12	9.34	9.37	9.35	367.13	367.54	377.34	380.42	385.22
Meat products	201	7.62	7.62	7.72	7.74	-	308.61	305.56	313.43	316.57	-
Meat packing plants	2011	8.54	8.50	8.64	8.61		353.56	352.75	357.70	360.76	İ
Sausages and other prepared meats		9.10	9.07	9.14	9.19		379.47	374.59	380.22	384.14	
Poultry dressing plants		6.34	6.36	6.50	6.56		249.80	244.86	258.70	261.74	
Dairy products		9.76	9.82	10.14	10.14		404.06	409.49	414.73	418.78	
Cheese, natural and processed		9.21	9.12	9.46	9.49		367.48	362.98	369.89	380.55	
Fluid milk		10.15	10.31	10.58	10.66		426.30	438.18	440.13	446.65	
Preserved fruits and vegetables		8.39	8.39	8.78	8.74		323.85	323.02	343.30	340.86	
Canned specialties		10.59	10.52	10.80	10.72		424.66	433.42	448.20	458.82	
Canned fruits and vegetables		8.44	8.48	8.81	8.92		326.63	329.02	352.40	338.07	
Frozen fruits and vegetables		7.54	7.63	7.91	7.76		282.00	277.73	293.46	292.55	
Grain mill products	204	11.20	11.30	11.31	11.43		495.04	507.37	494.25	505.21	
Flour and other grain mill products		10.83	10.98	10.84	10.92		501.43	528.14	491.05	502.32	
Prepared feeds, nec		8.59	8.74	8.75	8.82	·	371.09	377.57	371.00	374.85	
Bakery products		10.27	10.28	10.45	10.50		412.85	414.28	414.87	418.95	
Bread, cake, and related products		10.25	10.24	10.42	10.42		401.80	404.48	406.38	410.55	
Cookies and crackers	2052	10.30	10.37	10.53	10.69		439.81	439.69	435.94	438.29	

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

	1972		Averaç	je weekly	hours			Average	overtim	e hours	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989°	Jul 1989
Nondurable goods—Continued											
Food and kindred products—Continued		1									1.
Sugar and confectionery products	206	39.9	40.2	40.1	40.8		3.0	3.6	3.1	3.3	-
Cane and beet sugar	2061-3	40.4	41.5	43.0	44.0	-	4.5	6.0	4.0	4.9	-
Confectionery products	2065	39.0	39.0	38.7	39.3	_	2.3	3.0	2.7	2.8	
Fats and oils		42.8	42.9	43.1	43.5	_	5.0	5.4	5.0	5.3	.
Beverages		41.4	42.2	41.8	42.2	-	4.6	5.1	4.2	4.6	.
Malt beverages		43.0	44.8	43.6	44.3		6.5	7.2	6.2	6.9	
Bottled and canned soft drinks		41.3	41.7	41.2	41.6	_	4.5	4.9	4.0	4.3	
Misc. food and kindred products		38.0	38.5	38.5	38.8	-	3.8	4.4	4.0	4.2	
Tobacco manufactures		39.8	39.3	39.5	38.9	34.6	2.8	2.9	2.3	2.0	
Cigarettes	211	40.0	39.5	39.9	38.9	-	3.1	3.0	2.6	2.0	'
Textile mill products		41.0	40.4	41.2	41.6	40.8	3.8	3.5	4.0	4.3	
Weaving mills, cotton		40.2	39.9	41.6	41.9	-	4.0	3.6	4.4	4.7	i '
Weaving mills, synthetics		41.9	41.2	41.5	41.6	-	4.5	3.9	4.2	4.2	
Weaving and finishing mills, wool		41.2	40.3	41.3	41.4	-	3.4	2.9	3.1	3.4	
Narrow fabric mills		41.5	40.6	41.8	42.4	-	3.4	3.0	3.6	4.0	
Knitting mills	225	40.1	39.6	40.2	41.1	-	3.0	2.9	3.5	4.0	
Women's hosiery, except socks	2251	37.7	37.4	38.1	39.3	-	2.0	1.9	2.2	2.8	
Hosiery, nec	2252	39.3	39.0	39.0	40.8	_	2.4	2.6	3.0	4.0	
Knit outerwear mills		40.3	40.2	40.4	40.8	-	2.9	3.1	4.0	4.1	1
Knit underwear mills		40.0	38.6	40.0	40.4	-	2.4	1.8	2.2	2.5	
Circular knit fabric mills	2257	40.7	40.1	41.6	42.6	-	4.1	3.8	4.5	5.4	
Textile finishing, except wool		41.7	40.8	42.7	43.0	l <u>-</u>	4.3	3.8	5.0	5.4	
Finishing plants, cotton		41.8	42.2	42.7	43.3	_	4.1	4.0	4.8	5.3	
Finishing plants, synthetics		42.0	39.7	42.7	42.3	١ _	4.9	3.5	5.1	5.3	1
Floor covering mills		42.9	42.7	41.7	42.1		4.6	4.5	4.4	4.5	
Yarn and thread mills		40.3	39.8	41.0	41.1	_	3.9	3.8	4.1	4.2	
Yarn mills, except wool		40.6	40.1	41.3	41.2	_	4.1	4.0	4.4	4.5	
Throwing and winding mills		38.6	38.5	39.6	39.7	i _	2.9	2.5	2.6	2.9	
Miscellaneous textile goods		43.0	41.7	41.8	42.4	_	4.7	3.8	3.8	4.1	
Amount and other toutile muselines	00	07.0	06.7	07.0	07.0	00.0	10	4.5	10		
Apparel and other textile products		37.3	36.7	37.0	37.3	36.8	1.8	1.5	1.8	2.0	
Men's and boys' suits and coats		37.3	37.4	36.2	36.5	-	1.5	1.1	.9	1.1	1
Men's and boys' furnishings		37.4	36.6	37.0	37.7	_	1.6	1.3	1.5	1.8	
Men's and boys' shirts and nightwear		37.8	37.1	37.3	38.2		1.5	1.0	1.3	1.6	
Men's and boys' separate trousers		37.0	36.7	36.1	36.6	-	1.8	1.2	1.3	1.5	
Men's and boys' work clothing		36.6	36.4	36.6	37.0	-	1.6	1.6	1.8	2.0	
Women's and misses' outerwear		35.6	35.6	35.6	35.6	-	1.6	1.5	1.6	1.7	
Women's and misses' blouses and waists		36.7	36.3	35.8	36.1		1.5	1.1	1.0	1.5	1
Women's and misses' dresses		35.1	34.9	34.8	34.7	-	1.3	. 1.1	1.6	1.6	
Women's and misses' suits and coats	2337	37.0	36.0	36.7	36.4		1.9	2.1	2.2	2.1	
Women's and misses' outerwear, nec	2339	35.3	35.5	35.6	35.8	-	1.6	1.6	1.6	1.6	İ
Women's and children's undergarments		37.9	36.3	37.6	37.7	-	1.5	1.4	1.6	1.6	
Women's and children's underwear		38.3	36.7	37.9	38.2	-	1.5	1.4	1.5	1.7	
Brassieres and allied garments	2342	35.8	33.9	36.0	35.1	_	1.7	1.7	1.9	1.2	1
Children's outerwear		37.9	37.2	36.8	37.2	1	1.9	1.8	1.8	1.9	
Children's dresses and blouses	2361	36.4	35.3	35.8	35.8		1.4	1.2	1.6	1.7	
Misc. apparel and accessories		38.4	37.6	38.2	38.2	-	1.9	1.9	2.2	2.2	
Misc. fabricated textile products		39.2	38.1	39.1	39.5	-	2.9	2.0	2.8	3.0	
Curtains and draperies		36.3	36.4	38.4	37.8		1.5	.7	2.4	1.9	
House furnishings, nec		38.2	38.6	38.7	39.4		2.1	2.4	2.5	2.7	1
Automotive and apparel trimmings		42.8	39.0	41.1	41.7	-	6.4	3.2	4.6	5.0	
Paper and allied products	26	43.1	42.9	43.1	43.3	42.9	4.9	5.0	4.9	5.0	
Paper and pulp mills	261 2 6	45.0	45.0	45.4	44.9		6.3	6.3	6.7	6.1	1
Paper mills, except building paper	262	45.2	45.0	45.6	45.2		6.4	6.4	6.8	6.3	
Paperboard mills		44.5	43.8	44.4	44.7		7.6	7.4	6.7	7.2	
Misc. converted paper products		41.5	41.4	41.6	41.7	1	3.7	3.8	3.6	3.8	
		43.0	42.8	43.2	43.5		4.0	4.0	3.8	4.3	
Paper coating and glazing		1		1	1	_	1	1			1
Envelopes		40.6	41.2	41.2	40.8		2.5	2.8	2.9	2.5	1
Bags, except textile bags		41.2	41.5	41.0	41.3		4.0	4.3	4.0	4.1	1
Paperboard containers and boxes		42.6	42.4	42.3	43.1	1	4.4	4.4	4.3	4.7	
Folding paperboard boxes		42.0	41.7	42.1	42.5	1	4.2	4.0	4.2	4.5	
Corrugated and solid fiber boxes		43.1	42.9	42.8	43.8		4.7	4.9	4.6	5.1	1
Sanitary food containers	2654	43.8	43.5	42.4	43.2	1	4.8	5.0	4.8	5.2	

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

	1972		Average	hourly 6	earnings			Average	weekly e	arnings	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p
Nondurable goods—Continued											
Food and kindred products—Continued											
Sugar and confectionery products	206	\$9.53	\$9.58	\$9.98	\$9.93		\$380.25	\$385.12	\$400.20	\$405.14	
Cane and beet sugar		11.27	11.49	11.52	11.57		455.31	476.84	495.36	509.08	
Confectionery products	2065	8.35	8.37	8.87	8.80		325.65	326.43	343.27	345.84	
Fats and oils	207	9.45	9.56	9.72	9.80		404.46	410.12	418.93	426.30	
Beverages	208	12.16	12.25	12.74	12.91		503.42	516.95	532.53	544.80	
Malt beverages	2082	17.06	17.09	17.76	18.07		733.58	765.63	774.34	800.50	
Bottled and canned soft drinks		9.66	9.72	10.24	10.31		398.96	405.32	421.89	428.90	
Misc. food and kindred products	209	8.51	8.39	8.74	8.74		323.38	323.02	336.49	339.11	
Tobacco manufactures		15.92 17.97	15.78 17.59	16.13 18.27	16.48 18.70	\$16.24 -	633.62 718.80	620.15 694.81	637.14 728.97	641.07 727.43	\$561.9 -
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Textile mill products		7.33	7.31	7.62	7.65	7.64	300.53	295.32	313.94	318.24	311.7
Weaving mills, cotton		7.64	7.62	7.94	8.00	-	307.13	304.04	330.30	335.20	-
Weaving mills, synthetics		7.98	7.87	8.26	8.24		334.36	324.24	342.79	342.78	
Weaving and finishing mills, wool		8.04	7.95	8.42	8.57		331.25	320.39	347.75	354.80	
Narrow fabric mills		6.79	6.80	7.11	7.17		281.79	276.08	297.20	304.01	
Knitting mills		6.60	6.62	6.86	6.90		264.66	262.15	275.77	283.59	
Women's hosiery, except socks		6.46	6.52	6.75	6.75		243.54	243.85	257.18	265.28	
Hosiery, nec		6.35	6.39	6.69	6.76		249.56	249.21	260.91	275.81	1
Knit outerwear mills		6.33	6.36	6.44	6.49		255.10	255.67	260.18	264.79	
Knit underwear mills		6.39	6.40	6.79	6.86		255.60	247.04	271.60	277.14	
Circular knit fabric mills	2257	7.43	7.37	7.70	7.75		302.40	295.54	320.32	330.15	
Textile finishing, except wool	226	7.77	7.72	8.07	8.14		324.01	314.98	344.59	350.02	
Finishing plants, cotton	2261	7.78	7.71	8.03	8.17		325.20	325.36	342.88	353.76	
Finishing plants, synthetics	2262	8.07	7.99	8.44	8.45		338.94	317.20	360.39	357.44	
Floor covering mills		7.66	7.66	7.91	7.94		328.61	327.08	329.85	334.27	
Yarn and thread mills	228	6.99	7.01	7.34	7.36		281.70	279.00	300.94	302.50	
Yarn mills, except wool		6.98	6.99	7.34	7.39		283.39	280.30	303.14	304.47	İ
Throwing and winding mills		7,13	7.17	7.37	7,31		275.22	276.05	291.85	290.21	
Miscellaneous textile goods		8.35	8.31	8.59	8.58		359.05	346.53	359.06	363.79	
Apparel and other textile products	. 23	6.10	6.03	6.32	6.33	6.31	227.53	221.30	233.84	236.11	232.2
Men's and boys' suits and coats		6.78	6.81	7.05	7.06	_	252.89	254.69	255.21	257.69	
Men's and boys' furnishings		5.56	5.57	5.79	5.78		207.94	203.86	214.23	217.91	
Men's and boys' shirts and nightwear	2321	5.39	5.40	5.70	5.68		203.74	200.34	212.61	216.98	
Men's and boys' separate trousers		5.42	5.45	5.60	5.58		200.54	200.02	202.16	204.23	
Men's and boys' work clothing		5.59	5.61	5.74	5.73		204.59	204.20	210.08	212.01	
Women's and boys work clouding		5.86	5.82	6.05	6.09		208.62	207.19	215.38	216.80	
Women's and misses' blouses and waists		5.11	5.04	5.27	5.30		187.54	182.95	188.67	191.33	
Women's and misses' dresses		6.21	6.12	6.56	6.66		217.97	213.59	228.29	231.10	
Women's and misses' suits and coats		1			6.36					231.10	
		6.54	6.54	6.34			241.98	235.44	232.68		
Women's and misses' outerwear, nec		5.75	5.75	5.96	5.98		202.98	204.13	212.18	214.08	
Women's and children's undergarments		5.68	5.59	5.95	5.91		215.27	202.92	223.72	222.81	
Women's and children's underwear		5.53	5.45	5.78	5.76		211.80	200.02	219.06	220.03	
Brassieres and allied garments		6.48	6.45	6.81	6.71		231.98	218.66	245.16	235.52	l
Children's outerwear		5.41	5.44	5.60	5.66		205.04	202.37	206.08	210.55	
Children's dresses and blouses		5.41	5.45	5.62	5.63		196.92	192.39	201.20	201.55	
Misc. apparel and accessories		5.93	5.93	6.14	6.12		227.71	222.97	234.55	233.78	
Misc. fabricated textile products		7.50	7.16	7.60	7.64		294.00	272.80	297.16	301.78	
Curtains and draperies		5.98	5.93	6.30	6.36		217.07	215.85	241.92	240.41	
House furnishings, nec Automotive and apparel trimmings		6.23 11.67	6.25 10.68	6.39 11.72	6.41 11.87		237.99 499.48	241.25 416.52	247.29 481.69	252.55 494.98	
	1		ŀ								
Paper and allied products		11.66	11.72	11.89	11.90	12.08	502.55	502.79	512.46	515.27	518.2
Paper and pulp mills		14.36	14.40	14.62	14.62	-	646.20	648.00	663.75	656.44	-
Paper mills, except building paper		14.41	14.42	14.63	14.64		651.33	648.90	667.13	661.73	
Paperboard mills		14.37	14.51	14.67	14.61		639.47	635.54	651.35	653.07	
Misc. converted paper products		10.07	10.11	10.31	10.41		417.91	418.55	428.90	434.10	[
Paper coating and glazing		11.24	11.26	11.43	11.52]	483.32	481.93	493.78	501.12	
Envelopes		9.53	9.64	9.65	9.66	1	386.92	397.17	397.58	394.13	
Bags, except textile bags	2643	9.38	9.41	9.50	9.61		386.46	390.52	389.50	396.89	
Paperboard containers and boxes	265	9.98	10.03	10.16	10,14	ļ	425.15	425.27	429.77	437.03	
Folding paperboard boxes		10.34	10.32	10.56	10.54		434.28	430.34	444.58	447.95	
Corrugated and solid fiber boxes		10.15	10.21	10.33	10.32		437.47	438.01	442.12	452.02	
Sanitary food containers		9.70	9.68	10.01	9.86	ŀ	424.86	421.08	424.42	425.95	l

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

	1972		Averag	je weekly	hours			Average	overtim	e hours	.
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989°	June 1988	July 1988	May 1989	June 1989 ^p	July 1989
Nondurable goods—Continued											
Printing and publishing	. 27	37.6	37.8	37.4	37.4	37.4	2.7	2.9	2.7	2.6	
Newspapers		33.6	33.2	33.0	33.0	-	1.4	1.3	1.3	1.2	1
Periodicals		37.7	38.1	37.7	37.1		3.0	3.0	2.6	2.3	
Books	273	38.6	39.1	39.3	38.0		2.9	3.3	3.4	2.3	
Book publishing	2731	38.1	37.7	38.9	37.3		2.2	2.1	3.0	1.8	
Book printing	2732	39.3	41.4	40.0	39.0		3.8	5.1	4.1	3.1	1
Miscellaneous publishing	274	35.6	36.2	36.0	36.5		1.7	1.9	1.9	1.8	
Commercial printing	275	38.6	39.1	38.6	38.8		2.9	3.2	3.1	3.0	
Commercial printing, letterpress	2751	38.7	38.9	38.6	38.5		2.7	2.9	2.8	2.7	1
Commercial printing, lithographic	2752	38.5	38.9	38.4	38.7		2.9	3.3	3.0	3.1	
Manifold business forms		42.1	41.9	40.8	41.8		4.5	4.6	3.3	4.0	
Blankbooks and bookbinding	278	38.8	39.0	38.3	38.4		2.7	3.1	2.8	2.8	
Printing trade services	279	38.9	39.3	38.0	38.1		4.3	4.8	3.4	3.6	
Chemicals and allied products	28	42.4	42.0	42.1	42.5	42.2	4.2	4.0	4.0	4.3	
Industrial inorganic chemicals		43.1	42.8	42.7	43.1		4.3	4.3	4.3	4.5	
Industrial inorganic chemicals, nec		43.3	42.7	42.5	42.6		4.3	4.2	4.0	4.3	1
Plastics materials and synthetics		43.5	43.5	43.0	43.2		4.9	5.0	4.9	5.1	
Plastics materials and resins	2821	43.9	43.6	43.4	44.0		5.1	5.0	5.1	5.3	
Organic fibers, noncellulosic	2824	43.0	43.6	43.0	43.5		4.6	5.0	4.6	4.8	1
Drugs		41.3	40.4	41.2	42.2		3.0	2.8	3.5	3.7	
Pharmaceutical preparations		41.1	40.0	40.8	41.9		3.0	2.8	3.5	3.6	
Soap, cleaners, and toilet goods		40.4	39.7	39.5	40.2		3.6	3.2	2.4	3.0	
Soap and other detergents		44.2	43.6	41.6	42.9		5.0	5.4	4.4	5.5	
Polishing, sanitation, and finishing preparations		41.5	40.4	40.3	41.1		3.6	2.9	2.5	2.8	
Toilet preparations		37.8	37.3	38.0	38.2		2.9	2.1	1.3	1.7	İ
Paints and allied products	;	42.3	42.2	41.9	42.4		4.2	4.0	3.6	4.2	
Industrial organic chemicals		43.7	43.7	44.4	44.5		5.1	5.2	5.5	5.7	
Cyclic crudes and intermediates		42.4	40.8	44.2	45.2		5.3	5.1	5.4	6.4	
Gum, wood, and industrial organic chemicals, nec		44.1	44.5	44.4	44.3		5.1	5.2	5.5	5.5	
Agricultural chemicals		43.7	42.4	43.1	43.3		5.6	4.5	4.9	4.6	
Miscellaneous chemical products		42.1	41.8	42.0	41.9	-	3.7	3.6	3.5	3.9	
Petroleum and coal products	20	45.1	45.3	43.9	44.9	46.2	5.9	5.9	5.7	5.3	
Petroleum refining		45.0	45.2	44.1	45.2	- 40.2	5.3	5.2	5.7 5.7	4.8	
Paving and roofing materials		47.0	47.0	44.2	44.8	_	9.0	9.2	6.8	7.6	
Dubban and mine alreading products	00	44.0	44.4	44.5	44.5	40.7	4.0	4.0		0.0	1
Rubber and misc. plastics products		41.8	41.1	41.5	41.5	40.7	4.3	4.0	3.8	3.9	
Tires and inner tubes		44.7	44.8	46.0	43.7	-	6.3	6.8	6.0	5.1	
Rubber and plastics footwear Reclaimed rubber, and rubber and plastics hose	. 302	39.3	39.7	40.4	40.8		1.4	1.2	1.8	2.0	1
and belting	202.4	44.4	45.4	42.8	42.0		4.3	5.2	4.2	3.8	
Fabricated rubber products, nec		42.0	40.8	42.8	42.9 40.7		4.3	3.4	2.9	3.0	
Miscellaneous plastics products		41.3	40.8	41.0	41.3		4.0	3.4	3.7	3.9	
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Leather and leather products		37.9	37.3	37.6	38.7	37.6	2.1	1.6	1.8	2.1	
Leather tanning and finishing		41.3	39.9	42.0	42.7	-	4.0	3.2	4.6	5.3	
Footwear, except rubber		37.8	37.6	37.1	38.6		1.9	1.4	1.3	1.7	
Men's footwear, except athletic		37.4	37.7	37.7	38.4	-	1.1	9	1.1	1.3	-
Women's footwear, except athletic		38.2	38.2	36.0	38.1	-	2.8	2.2	1.5	2.1	
Luggage Handbags and personal leather goods		39.7 36.2	36.8 35.4	39.5 35.8	39.4 36.0	-	3.5 1.5	3.3 1.2	2.5 1.6	3.1 1.6	-
ransportation and public utilities		39.5	39.8	39.3	39.6	40.3	-	_	-	-	
Tallan ad Augusta and Aliana											ŀ
Railroad transportation: Class I railroads³	4011	45.1	46.3	45.3	45.0				-		
Local and interurban passenger transit	. 41	34.7	36.7	34.3	34.6						
Local and suburban transportation	411	38.8	39.1	38.1	38.8			_		1	
Intercity highway transportation		41.0	40.8	39.8	39.7	-	-	_			
Frucking and warehousing	12	38.6	38.5	38.3	38.7						
Trucking and trucking terminals		38.6	38.5	38.3	38.7			-			
Public warehousing		38.7	39.1	38.9	39.0						
Pipe lines, except natural gas	i	41.9	43.5	41.0	41.9						

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

	1972		Average	hourly e	earnings			Average	e weekly e	earnings	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989°	July 1989 ⁹	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p
Nondurable goods—Continued											
Printing and publishing		\$10.43	\$10.48	\$10.76	\$10.74	\$10.80	\$392.17	\$396.14	\$402.42	\$401.68	\$403.92
Newspapers		10.46	10.44	10.73	10.73	-	351.46	346.61	354.09	354.09	-
Periodicals		10.90	10.91	11.37	11.32		410.93	415.67	428.65	419.97	
Books		9.32	9.39	9.41	9.48		359.75	367.15	369.81	360.24	ļ
Book publishing		8.96	9.01	9.00	9.04		341.38	339.68	350.10	337.19	
Book printing		9.87	9.93 9.86	10.04 10.14	10.13 10.11		387.89	411.10	401.60	395.07 369.02	
Miscellaneous publishing		9.82 10.65	10.75	11.03	10.11		349.59 411.09	356.93 420.33	365.04 425.76	426.41	
Commercial printing		10.03	10.73	10.73	10.58		398.61	401.06	414.18	407.33	
Commercial printing, lithographic		10.73	10.88	11.14	11.13		413,11	423.23	427.78	430.73	
Manifold business forms		11.14	11.04	11.23	11.27		468.99	462.58	458.18	471.09	
Blankbooks and bookbinding		8.29	8.35	8.67	8.66		321.65	325.65	332.06	332.54	
Printing trade services		12.83	12.95	13.44	13.32		499.09	508.94	510.72	507.49	
Chemicals and allied products	28	12.60	12.70	12.98	12.97	13.11	534.24	533.40	546.46	551.23	553.24
Industrial inorganic chemicals		13.82	13.99	14.18	14.16	-	595.64	598.77	605.49	610.30	-
Industrial inorganic chemicals, nec		13.87	14.07	14.24	14.25		600.57	600.79	605.20	607.05	
Plastics materials and synthetics	282	13.04	13.08	13.32	13.34		567.24	568.98	572.76	576.29	-
Plastics materials and resins	2821	13.75	13.86	14.24	14.17		603.63	604.30	618.02	623.48	
Organic fibers, noncellulosic		12.48	12.46	12.61	12.68		536.64	543.26	542.23	551.58	-
Drugs		11.97	11.99	12.44	12.38		494.36	484.40	512.53	522.44	-
Pharmaceutical preparations		11.74	11.79	12.39	12.29		482.51	471.60	505.51	514.95	
Soap, cleaners, and toilet goods		10.98	11.04	11.13	11.18		443.59	438.29	439.64	449.44	
Soap and other detergents		14.34	14.44	14.88	15.01		633.83	629.58	619.01	643.93	
Polishing, sanitation, and finishing preparations		10.35	10.27	10.22	10.31		429.53	414.91	411.87	423.74	
Toilet preparations		9.23	9.29	9.39	9.32		348.89	346.52	356.82	356.02	
Paints and allied products		11.17	11.15	11.64	11.70		472.49	470.53	487.72	496.08	_
Industrial organic chemicals Cyclic crudes and intermediates		15.02 14.93	15.19 14.89	15.57 15.41	15.56 15.61		656.37 633.03	663.80 607.51	691.31 681.12	692.42 705.57	
Gum, wood, and industrial organic chemicals, nec		15.05	15.27	15.61	15.55		663.71	679.52	693.08	688.87	
Agricultural chemicals		12.22	12.48	12.43	12.39		534.01	529.15	535.73	536.49	
Miscellaneous chemical products		11.50	11.54	11.84	11.88		484.15	482.37	497.28	497.77	
Petroleum and coal products	29	14.96	14.93	15.34	15.24	15.35	674.70	676.33	673.43	684.28	709.17
Petroleum refining		16.26	16.20	16.61	16.42	-	731.70	732.24	732.50	742.18	-
Paving and roofing materials		11.53	11.56	12.08	12.14		541.91	543.32	533.94	543.87	
Rubber and misc. plastics products	30	9.10	9.15	9.40	9.40	9.47	380.38	376.07	390.10	390.10	385.43
Tires and inner tubes		14.24	14.42	15.01	14.88	-	636.53	646.02	690.46	650.26	-
Rubber and plastics footwear	302	6.38	6.33	6.60	6.60		250.73	251.30	266.64	269.28	
Reclaimed rubber, and rubber and plastics hose											
and belting		9.23	9.35	9.38	9.51		409.81	424.49	401.46	407.98	
Fabricated rubber products, nec		8.77	8.78	8.81	8.87	l	368.34	358.22	356.81	361.01	
Miscellaneous plastics products	307	8.50	8.49	8.72	8.76		351.05	343.00	357.52	361.79	
Leather and leather products		6.26	6.19	6.58	6.58	6.55	237.25	230.89	247.41	254.65	246.28
Leather tanning and finishing		8.44	8.37	8.68	8.79	-	348.57	333.96	364.56	375.33	-
Footwear, except rubber		5.95	5.89	6.27	6.25		224.91	221.46	232.62	241.25	-
Men's footwear, except athletic Women's footwear, except athletic		6.28	6.20	6.69	6.69		234.87	233.74	252.21	256.90	-
Luggage		5.69 6.34	5.68 6.24	5.92 6.65	5.91 6.67	-	217.36 251.70	216.98 229.63	213.12 262.68	225.17 262.80	
Handbags and personal leather goods		6.00	5.82	5.93	6.00	-	217.20	206.03	212.29	216.00	
Fransportation and public utilities		12.27	12.32	12.49	12.47	12.60	484.67	490.34	490.86	493.81	507.78
Railroad transportation:											
Class railroads ³	4011	15.06	15.04	15.29	15.35		679.21	696.35	692.64	690.75	
Local and interurban passenger transit	41	8.42	8.55	8.69	8.86	ļ	292.17	313.79	298.07	306.56	
Local and suburban transportation		9.03	9.15	9.50	9.62	ļ	350.36	357.77	361.95	373.26	
Intercity highway transportation		11.21	11.35	11.39	11.49		459.61	463.08	453.32	456.15	
Trucking and warehousing	42	10.94	10.90	11.33	11.28		422.28	419.65	433.94	436.54	_
Trucking and trucking terminals		11.10	11.04	11.48	11.43	İ	428.46	425.04	439.68	442.34	_
Public warehousing	1 '	8.82	8.89	9.29	9.26		341.33	347.60	361.38	361.14	
Pipe lines, except natural gas	46	15.58	15.47	15.94	15.90		652.80	672.95	653.54	666.21	

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

	1972	<u></u>	Averag	je weekly	hours			Average	overtim	e hours	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989°	July 1989
Fransportation and public utilities—Continued											
Communication	48	39.9	40.3	39.2	39.7				ŀ		
Telephone communication	1	41.4	42.0	40.8	41.4					i	
Radio and television broadcasting		35.7	36.1	34.8	35.1			ļ	!		
Electric and antitony continue	40	41.5	41.7	41.8	41.9						
Electric, gas, and sanitary services	49	1 1									
		41.4	42.0	42.1	42.1			1			
Gas production and distribution		41.1	41.3	41.2	41.4						
Combination utility services		42.0 42.3	41.3 42.6	42.0 41.9	42.4 41.8				ı		
Samary services	495	42.3	42.0	41.5	41.0						
Vholesale trade		38.1	38.3	37.9	38.1	38.3					
Durable goods	50	38.6	38.7	38.4	38.6						
Motor vehicles and automotive equipment		38.1	38.4	37.2	37.5						
Furniture and home furnishings		37.3	37.2	37.1	37.6						
Lumber and construction materials		40.0	39.7	39.4	39.6						
Sporting goods, toys, and hobby goods		35.7	36.3	34.9	34.9						
Metals and minerals, except petroleum		40.5	39.8	40.3	40.2						
Electrical goods		38.0	38.2	37.9	38.2						
Hardware, plumbing, and heating equipment		38.7	38.9	38.4	38.9						
Machinery, equipment, and supplies		38.9 38.0	39.0 38.1	39.0 38.3	39.1 38.3						
•		00.0	55.1	Ų0.0	\$0.0						
Nondurable goods	51	37.5	37.6	37.2	37.4						
Paper and paper products	511	37.0	37.0	36.6	37.2						
Drugs, proprietaries, and sundries	512	36.8	36.9	37.1	37.0						1
Apparel, piece goods, and notions		36.7	36.6	35.7	36.3						
Groceries and related products		37.9	38.4	37.6	37.9						
Chemicals and allied products		40.0	40.1	39.7	40.4					i	
Petroleum and petroleum products		38.5	38.8	38.1	38.3						
Beer, wine, and distilled beverages		36.3	36.5	36.1	36.3						
Miscellaneous nondurable goods		36.9	36.7	37.0	36.8					1	
Retail trade		29.4	30.0	28.8	29.2	29.9					
Building materials and garden supplies	52	37.0	37.3	36.2	36.9						
Lumber and other building materials		38.9	39.0	38.0	38.7						
Hardware stores		33.3	33.8	32.1	33.2					1	
General merchandise stores	53	28.0	28.5	27.3	27.9						ļ
Department stores		27.7	28.1	27.2	27.8						ł
Variety stores		29.3	30.1	27.7	27.6					1	
Misc. general merchandise stores		30.1	31.1	28.4	29.4						
Food stores	E4	30.7	31.5	29.9	30.5						
					30.7						
Grocery storesRetail bakeries	546	30.9 28.9	31.6 29.4	30.0 29.4	29.8					ļ	
Automotive dealers and service stations	55	36.8	36.9	35.8	36.4						
New and used car dealers		37.5	37.3	36.7	37.1			1			
Auto and home supply stores	553	38.9	39.4	37.9	38.7						
Gasoline service stations	554	34.7	35.0	33.3	34.2						
Apparel and accessory stores	56	27.1	27.8	26.6	27.2						
Men's and boys' clothing and furnishings		29.3	30.2	28.2	29.1						
Women's ready-to-wear stores		25.3	26.1	24.7	25.0						
Family clothing stores		27.2	27.8	26.4	27.3						
Shoe stores		28.7	29.4	28.6	29.1						
Furniture and home furnishings stores	57	32.8	33.4	32.6	33.1						
		33.4	33.4	33.3	33.6						
Furniture and home furnishings stores		1	1								
Household appliance storesRadio, television, and music stores		33.6 31.6	33.9 32.4	33.1 31.3	33.9 32.0						
Eating and drinking places4	.∣58	26.0	26.8	25.4	25.8			1	1	1	1

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

	1972		Average	hourly e	earnings			Average	weekly e	earnings	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989°	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p
Transportation and public utilities—Continued									·		
Communication		\$12.68	\$12.73	\$13.04	\$13.06		\$505.93		\$511.17		
Telephone communication		13.30	13.42	13.69	13.74		550.62	563.64	558.55	568.84	
Radio and television broadcasting	483	11.55	11.35	12.12	12.02		412.34	409.74	421.78	421.90	
Electric, gas, and sanitary services	49	14.08	14.16	14.65	14.52		584.32	590.47	612.37	608.39	
Electric services		14.22	14.32	14.98	14.85		588.71	601.44	630.66	625.19	
Gas production and distribution	492	13.16	13.14	13.52	13.39		540.88	542.68	557.02	554.35	
Combination utility services		16.54	16.77	17.10	16.92		694.68	692.60	718.20	717.41	
Sanitary services	495	10.94	11.00	11.16	11.16		462.76	468.60	467.60	466.49	
Wholesale trade		9.88	9.95	10.28	10.30	\$10.41	376.43	381.09	389.61	392.43	\$398.70
Durable goods	50	10.09	10.16	10.54	10.54		389.47	393.19	404.74	406.84	_
Motor vehicles and automotive equipment		9.15	9.20	9.53	9.62		348.62	353.19	354.52	360.75	_
Furniture and home furnishings		9.15	9.49	9.66	9.73		352.86	353.26	358.39	365.85	
Lumber and construction materials		9.56	9.49	9.99	10.04		382.40	380.72	393.61	397.58	
Sporting goods, toys, and hobby goods		9.80	9.69	9.65	9.71		349.86	351.75	336.79	338.88	
Metals and minerals, except petroleum		10.55	10.56	10.88	10.93		427.28	420.29	438.46	439.39	
Electrical goods		10.33	10.58	10.88	11.05		398.24	404.16	414.25	422.11	
Hardware, plumbing, and heating equipment		9.48	9.50	9.89	9.86		366.88	369.55	379.78	383.55	
Machinery, equipment, and supplies		10.76	10.86	11.33	11.24		418.56	423.54	441.87	439.48	
Miscellaneous durable goods		7.96	8.02	8.29	8.37		302.48	305.56	317.51	320.57	
	<u> </u>										
Nondurable goods		9.57	9.65	9.91	9.94		358.88	362.84	368.65	371.76	
Paper and paper products		10.22	10.44	10.80	10.88		378.14	386.28	395.28	404.74	
Drugs, proprietaries, and sundries	512	11.06	11.12	11.20	11.33		407.01	410.33	415.52	419.21	
Apparel, piece goods, and notions	513	9.46	9.44	9.92	9.84		347.18	345.50	354.14	357.19	
Groceries and related products		9.71	9.79	10.06	10.08		368.01	375.94	378.26	382.03	
Chemicals and allied products	516	12.22	12.28	12.39	12.34		488.80	492.43	491.88	498.54	
Petroleum and petroleum products		9.70	9.62	9.87	9.90		373.45	373.26	376.05	379.17	
Beer, wine, and distilled beverages Miscellaneous nondurable goods		11.11 7.78	11.20 7.84	11.51 8.15	11.65 8.13		403.29 287.08	408.80 287.73	415.51 301.55	422.90 299.18	
		6.27	6.28		6.48	6.48		188.40	186.91	189.22	193.75
Retail trade		0.27	0.28	6.49	0.46	0.40	104.34	100.40	160.91	109.22	193.75
Building materials and garden supplies	52	7.33	7.36	7.61	7.61		271.21	274.53	275.48	280.81	
Lumber and other building materials	521	7.67	7.69	8.01	7.98		298.36	299.91	304.38	308.83	
Hardware stores	525	6.19	6.19	6.36	6.33		206.13	209.22	204.16	210.16	
General merchandise stores	53	6.50	6.52	6.73	6.70		182.00	185.82	183.73	186.93	
Department stores		6.81	6.83	7.00	6.97		188.64	191.92	190.40	193.77	
Variety stores	533	4.93	4.92	5.28	5.24		144.45	148.09	146.26	144.62	
Misc. general merchandise stores	539	5.26	5.29	5.65	5.57		158.33	164.52	160.46	163.76	
Food stores	54	6.94	6.91	7.13	7.06		213.06	217.67	213.19	215.33	
Grocery stores		7.04	7.01	7.24	7.16		217.54	221.52	217.20	219.81	
Retail bakeries		5.99	5.97	6.04	6.09		173.11	175.52	177.58	181.48	
Automotive dealers and service stations	55	8.29	8.36	8.52	8.55		305.07	308.48	305.02	311.22	
New and used car dealers		10.22	10.37	10.34	10.46		383.25	386.80	379.48	388.07	
Auto and home supply stores		6.98	7.01	7.48	7.42		271.52	276.19	283.49	287.15	
Gasoline service stations		5.72	5.74	5.94	5.95		198.48	200.90	197.80	203.49	
Apparel and accessory stores	56	5.78	5.75	5.96	5.98		156.64	159.85	158.54	162.66	
Men's and boys' clothing and furnishings		7.06	6.94	7.44	7.43		206.86	209.59	209.81	216.21	
Women's ready-to-wear stores		5.44	5.39	5.61	5.57		137.63	140.68	138.57	139.25	
Family clothing stores		5.66	5.68	5.84	5.92		153.95	157.90	154.18	161.62	
Shoe stores		5.94	5.91	6.02	6.07		170.48	173.75	172.17	176.64	
Furniture and home furnishings stores	5 7	7.04	7.90	0.40	0.40		256 47	263.86	266.02	270.76	
		7.81	1	8.16	8.18		256.17		266.02	270.76	
Furniture and home furnishings stores		7.93	8.01	8.15	8.13		264.86	271.54	271.40	273.17	
Household appliance stores		7.81	7.85	8.26	8.40		262.42	266.12	273.41	284.76	
Radio, television, and music stores	5/3	7.59	7.72	8.16	8.20		239.84	250.13	255.41	262.40	
Eating and drinking places ⁴	58	4.53	4.55	4.71	4.72		117.78	121.94	119.63	121.78	

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

	1972		Averag	je weekly	hours			Averag	e overtim	ne hours	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989°	June 1988	July 1988	May 1989	June 1989°	July 1989
Retail trade—Continued											
Miscellaneous retail	59	30.0	30.5	29.9	29.8	,				_	
Drug stores and proprietary stores		27.7	28.4	26.9	27.6						
Miscellaneous shopping goods stores		29.0	29.9	28.1	28.7					_	
Nonstore retailers		32.0	31.8	32.8	33.0				1		
Fuel and ice dealers		38.1	38.5	37.5	37.3			1		1	
Retail stores, nec		31.9	32.0	33.5	31.1				-		-
Finance, insurance, and real estate ⁵		35.8	36.1	35.6	35.8	36.4					
Banking	60	35.6	36.3	35.4	35.7						
Commercial and stock savings banks		35.5	36.2	35.4	35.7					-	-
Credit agencies other than banks	61	36.3	36.6	36.1	36.5						
Savings and loan associations		35.9	36.1	35.8	36.0					1	
Personal credit institutions		36.5	36.7	36.0	36.3						
i Gradiai Gradii inautuulla		30.3	30.7	30.0	30.3						
Insurance carriers	63	37.1	37.2	37.1	37.1						
Life insurance	631	36.6	36.8	37.0	36.9						
Medical service and health insurance		37.6	38.2	37.7	37.8			İ			
Fire, marine, and casualty insurance		37.1	36.9	36.9	37.0						
Services		32.7	33.0	32.4	32.7	33.1				_	
Hotels and other ladging places.										ĺ	
Hotels and other lodging places: Hotels, motels, and tourist courts ⁴	701	31.6	32.2	31.0	31.2				-	-	
Personal services:					İ					ì	
Laundry, cleaning, and garment services	721	34.4	34.3	34.5	34.5						ì
Beauty shops ⁴		30.1	30.0	30.0	29.8					-	-
Business services	73	34.0	33.9	33.6	33.8					_	
Advertising		37.0	37.2	36.7	36.7						i
Services to buildings		29.4	29.7	29.7	29.9					_	
Computer and data processing services		37.8	37.9	37.6	37.6					_	_
Auto repair, services, and garages	75	36.5	36.9	36.2	37.0					_	
Automotive repair shops	753	38.1	38.1	37.7	38.4					_	-
Miscellaneous repair services	76	38.4	38.5	37.9	38.2						
Motion pictures	78	28.7	29.5	28.2	29.7			ŀ			_
Motion picture production and services		36.9	37.8	35.4	37.6					-	_
Amusement and recreation services	79	28.8	30.4	27.5	29.0						
Health services	80	32.4	32.7	32.2	32.4						
Offices of physicians		31.2	31.2	31.2	31.4			1			
Offices of dentists		28.4	28.3	28.6	28.5						_
Nursing and personal care facilities		31.7	32.2	31.5	31.7						_
Hospitals		34.1	34.3	33.8	34.0					-	-
Legal services	81	34.7	35.0	34.5	34.9						-
Mineellaneous convines	90	38.0	20 4	27.7	27.0						
Miscellaneous services			38.1	37.7	37.8						
Engineering and architectural services		39.4	39.2	38.8	39.1				1	-	
Accounting, auditing, and bookkeeping	893	36.5	36.9	36.3	36.3	1		1	1	-	-

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

	1972		Average	hourly e	earnings			Average	e weekly	earnings	
Industry	SIC Code	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p
Retail trade—Continued											
Miscellaneous retail		\$6.55	\$6.56	\$6.76			\$196.50			\$201.15	
Drug stores and proprietary stores	. 591	6.25	6.28	6.41	6.38		173.13	178.35	172.43	176.09	
Miscellaneous shopping goods stores	. 594	6.11	6.10	6.37	6.35		177.19	182.39	179.00	182.25	
Nonstore retailers	. 596	7.51	7.54	7.77	7.75		240.32	239.77	254.86	255.75	
Fuel and ice dealers	. 598	9.01	9.04	9.29	9.25		343.28	348.04	348.38	345.03	
Retail stores, nec	. 599	6.66	6.74	6.82	6.91		212.45	215.68	228.47	214.90	
Finance, insurance, and real estate ⁵		8.97	9.03	9.48	9.47	\$9.58	321.13	325.98	337.49	339.03	\$348.7
Banking	. 60	7.81	7.85	8.23	8.20		278.04	284.96	291.34	292.74	
Commercial and stock savings banks		7.51	7.54	7.84	7.80		266.61	272.95	277.54	278.46	
Credit agencies other than banks	. 61	8.18	8.24	8.55	8.58		296.93	301.58	308.66	313.17	
Savings and loan associations	. 612	7.66	7.74	8.01	8.02		274.99	279.41	286.76	288.72	
Personal credit institutions		7.71	7.73	8.12	8.14		281.42	283.69	292.32	295.48	
Insurance carriers	. 63	10.13	10.18	10.58	10.67		375.82	378.70	392.52	395.86	
Life insurance	. 631	9.58	9.66	9.95	9.99		350.63	355.49	368.15	368.63	
Medical service and health insurance		9.78	9.75	10.25	10.26		367.73	372.45	386.43	387.83	
Fire, marine, and casualty insurance		10.67	10.71	11.31	11.40		395.86	395.20	417.34	421.80	
Services		8.79	8.80	9.30	9.26	9.33	287.43	290.40	301.32	302.80	308.82
Hotels and other lodging places:											
Hotels, motels, and tourist courts4	. 701	6.38	6.32	6.65	6.58		201.61	203.50	206.15	205.30	
Personal services:											
Laundry, cleaning, and garment services	. 721	6.33	6.36	6.55	6.57		217.75	218.15	225.98	226.67	
Beauty shops4		6.92	6.84	6.88	6.90		208.29	205.20	206.40	205.62	
Business services	. 73	9.03	9.10	9.53	9.53		307.02	308.49	320.21	322.11	
Advertising		12.15	12.28	12.97	12.86		449.55	456.82	476.00	471.96	
Services to buildings		6.95	6.95	7.13	7.18		204.33	206.42	211.76	214.68	
Computer and data processing services		13.00	13.15	13.93	14.01		491.40	498.39	523.77	526.78	
Auto repair, services, and garages	. 75	8.07	8.13	8.37	8.38		294.56	300.00	302.99	310.06	
Automotive repair shops		8.81	8.82	9.22	9.26		335.66	336.04	347.59	355.58	
Miscellaneous repair services	. 76	9.51	9.49	9.88	9.86		365.18	365.37	374.45	376.65	
Motion pictures	. 78	10.90	10.59	12.52	11.96		312.83	312.41	353.06	355.21	
Motion picture production and services	. 781	15.21	14.87	15.99	15.66		561.25	562.09	566.05	588.82	
Amusement and recreation services	. 79	6.88	6.74	7.86	7.23		198.14	204.90	216.15	209.67	
Health services	. 80	9.15	9.23	9.69	9.72		296.46	301.82	312.02	314.93	
Offices of physicians	. 801	8.72	8.80	9.20	9.23		272.06	274.56	287.04	289.82	1
Offices of dentists		8.85	8.90	9.35	9.39		251.34	251.87	267.41	267.62	
Nursing and personal care facilities		6.30	6.37	6.72	6.72		199.71	205.11	211.68	213.02	
Hospitals		10.43	10.53	11.04	11.06		355.66	361.18	373.15	376.04	
Legal services	. 81	12.68	12.75	13.21	13.42		440.00	446.25	455.75	468.36	
Miscellaneous services	. 89	12.43	12.60	13.09	13.09		472.34	480.06	493.49	494.80	
Engineering and architectural services		13.17	13.30	13.94	13.82		518.90	521.36	540.87	540.36	
Accounting, auditing, and bookkeeping		10.82	11.11	11.27	11.38	_	394.93	409.96	409.10	413.09	
g, areaning, and booking minimum.											

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

See table C-2a for average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing.
 Data relate to line haul railroads with operating revenues of

^{\$50,000,000} or more.

Money payments only; tips, not included.

⁵ Data for nonoffice sales agents are excluded from all series in this division.

Data not available.
 p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to

A Note on Average Hourly Earnings in Aircraft (SIC 3721) and Guided Missiles and Space Vehicles (SIC 3761) Manufacturing

For many years, the Bureau of Labor Statistics' average hourly earnings series for production workers in aircraft manufacturing (sic 3721) and guided missiles and space vehicles manufacturing (sic 3761) have been used to escalate labor costs in contracts between aerospace companies and their customers. Although the Bureau's series by definition take account of traditional wage rate changes, they do not capture "lump-sum payments to workers in lieu of general wage increases" which were negotiated in aerospace manufacturers' collective bargaining agreements beginning in late 1983.

Because of special circumstances in the aerospace industry, BLS has calculated average hourly earnings series for SIC 3721 and SIC 3761 which include lump-sum payments. These series, beginning in October 1983, the effective date of the first aerospace bargain-

ing agreement using lump-sum payments, were published in the June 1988 issue of *Employment and Earnings*. Current and year earlier data are presented in table C-2a along with the average hourly earnings series produced as part of the Current Employment Statistics program. An explanation of the methodology used to derive these series appears in the Explanatory Notes of this publication.

Lump-sum payments are but one of several recent changes in the way that employees are compensated. The changes are widespread and they differ by industry. Because of these developments, the Bureau is conducting a broad-based review of all concepts and definitions used in its earnings and wage programs to determine the proper treatment of lump-sum payments and other new compensation practices.

C-2a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing

		Aircraft (S	SIC 3721)		Guided m	issiles and sp	ace vehicles (SIC 3761)
Series	May 1988	June 1988	May 1989	June 1989 ^p	May 1988	June 1988	May 1989	June 1989 ^p
Average hourly earnings, excluding lump-sum payments	\$14.04	\$13.93	\$14.69	\$14.73	\$13.40	\$13.51	\$14.09	\$14.17
Average hourly earnings, including lump-sum payments	14.50	14.38	15.14	15.18	13.67	13.79	14.53	14.62

p = preliminary.

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

Industry	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p
Manufacturing	\$9.70	\$9.73	\$9.98	\$9.98	\$10.02
Durable goods	10.19	10.21	10.47	10.49	10.52
Lumber and wood products	8.21	8.27	8.42	8.48	(²)
Furniture and fixtures	7.67	7.76	7.92	7.95	(²)
Stone, clay, and glass products	9.86	9.92	10.10	10.12	
Primary metal industries	11.42	11.50	11.56	11.60	(°) (°) (°) (°)
Fabricated metal products	9.79	9.77	10.05	10.05	(²)
Machinery, except electrical	10.43	10.47	10.76	10.77	(²)
Electrical and electronic equipment	9.76	9.78	9.99	10.01	(²)
Transportation equipment	12.59	12.55	12.91	12.97	(²) (²)
Instruments and related products	9.56	9.64	9.85	9.93	(²)
Miscellaneous manufacturing	7.71	7.77	8.01	7.99	(²)
Nondurable goods	9.00	9.05	9.28	9.27	\$9.33
Food and kindred products	8.66	8.63	8.90	8.89	(²)
Tobacco manufactures	15.37	15.23	15.67	16,06	(²)
Textile mill products	7.00	7.00	7.26	7.27	(²)
Apparel and other textile products	5.95	5.91	6.17	6.17	(²) (²)
Paper and allied products	11.03	11.08	11.24	11.25	(²)
Printing and publishing	10.07	10.10	10.39	10.39	(²) (²)
Chemicals and allied products	12.01	12.11	12.39	12.35	(²)
Petroleum and coal products	14.04	14.02	14.40	14.39	(°) (°) (°) (°)
Rubber and misc. plastics products	8.66	8.72	8.99	8.98	(²)
Leather and leather products	6.09	6.06	6.43	6.40	(2)

[.] Derived by assuming that overtime hours are paid at the rate of time and one-half. $\ ^{2}$ Not available.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revision.

preliminary.

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

		Averag	e hourly e	arnings			Average	weekly e	earnings	
INDUSTRY	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p	June 1988	July 1988	May 1989	June 1989 ^p	July 1989 ^p
Total private:										
Current dollars	\$9.23	\$9.24	\$9.59	\$9.58	\$9.63	\$322.13	\$324.32	\$330.86	\$333.38	\$338.01
Constant (1977) dollars	4.82	4.80	4.77	4.75	(²)	168.13	168.57	164.53	165.37	(²)
Mining:									•	1
Current dollars	12.61	12.72	13.13	13.04	\$13.07	535.93	539.33	551.46	558.11	\$567.24
Constant (1977) dollars	6.58	6.61	6.53	6.47	(²)	279.71	280.32	274.22	276.84	(²)
Construction:					1	1				
Current dollars	12.89	12.96	13.28	13.23	\$13.32	498.84	500.26	500.66	502.74	\$519.48
Constant (1977) dollars	6.73	6.74	6.60	6.56	(²)	260.35	260.01	248.96	249.38	(²)
Manufacturing:										
Current dollars	10.16	10.17	10.42	10.44	\$10.47	418.59	413.92	426.18	429.08	\$424.04
Constant (1977) dollars	5.30	5.29	5.18	5.18	(²)	218.47	215.14	211.92	212.84	(²)
Transportation and public utilities:										
Current dollars	12.27	12.32	12.49	12.47	\$12.60	484.67	490.34	490.86	493.81	\$507.78
Constant (1977) dollars	6.40	6.40	6.21	6.19	(²)	252.96	254.85	244.09	244.95	(²)
Wholesale trade:										
Current dollars	9.88	9.95	10.28	10.30	\$10.41	376.43	381.09	389.61	392.43	\$398.70
Constant (1977) dollars	5.16	5.17	5.11	5.11	(²)	196.47	198.07	193.74	194.66	(²)
Retail trade:										1
Current dollars	6.27	6.28	6.49	6.48	\$6.48	184.34	188.40	186.91	189.22	\$193.75
Constant (1977) dollars	3.27	3.26	3.23	3.21	(²)	96.21	97.92	92.94	93.86	(²)
Finance, insurance, and real estate:										
Current dollars	8.97	9.03	9.48	9.47	\$9.58	321.13	325.98	337.49	339.03	\$348.71
Constant (1977) dollars	4.68	4.69	4.71	4.70	(²)	167.60	169.43	167.82	168.17	(²)
Services:										
Current dollars	8.79	8.80	9.30	9.26	\$9.33	287.43	290.40	301.32	302.80	\$308.82
Constant (1977) dollars	4.59	4.57	4.62	4.59	(²)	150.02	150.94	149.84	150.20	(²)

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

2 Not available.

P = preliminary.

NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all unadjusted data from April 1988 forward are subject to revisions. revision.

C-5. Average weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls by major industry and manufacturing group, seasonally adjusted

As As As As As As As As As As As As As A			19	88				-		1989			
Industry	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^p
Total private	34.8	34.6	34.7	34.8	34.7	34.7	34.8	34.6	34.7	34.9	34.6	34.6	34.9
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 Overtime hours	41.1 3.9	41.0 3.9	41.1 3.9	41.2 4.0	41.2 3.9	41.0 3.9	41.1 3.9	41.1 3.9	41.0 4.0	41.3 3.9	41.0 3.8	41.0 3.8	41.0 3.9
								1					
Durable goods	41.8	41.7	41.9	41.9	41.9	41.7	41.8	41.8	41.7	41.9	41.5	41.5	41.5
Overtime hours	4.1	4.1	4.1	4.2	4.2	4.1	4.1	4.1	4.1	4.1	3.9	3.9	4.0
Lumber and wood products	40.4	40.1	40.1	40.7	40.3	40.3	40.3	39.6	40.0	40.5	39.7	39.8	39.4
Furniture and fixtures	39.6	39.2	39.6	39.4	39.5	39.4	39.8	39.7	39.8	39.9	39.4	39.3	39.0
Stone, clay, and glass products	42.2	42.2	42.3	42.5	42.6	42.4	42.5	42.2	42.2	42.5	41.9	42.2	42.3 43.1
Primary metal industries	43.5	43.5	43.9	43.7 44.2	43.7 44.0	43.5	43.6	43.4	43.5	43.3	43.2	43.3	43.1
Blast furnaces and basic steel products	44.0	44.1	44.5			43.8	44.0	43.8	44.1	43.5	43.6	43.6	
Fabricated metal products	41.9	41.8	42.0	41.9	42.1	41.8	41.9	41.9	41.8	41.9	41.7	41.5	41.5
Machinery, except electrical	42.8	42.5	42.7	42.7	42.5	42.5	42.5	42.6	42.5	42.7	42.5	42.5	42.3 40.7
Electrical and electronic equipment	41.0	40.9	40.9	41.0 43.1	41.0 43.1	40.8	40.9	40.9 43.1	40.6	41.0	40.7	40.7	40.7
Transportation equipment	42.7 42.9	42.7 43.6	43.0 44.1	43.1	44.1	42.8 43.7	42.8 43.6	43.1	43.1 43.9	42.8 43.3	42.5 42.8	42.5 42.7	42.7
Motor vehicles and equipment	42.9	43.6	44.1	43.9	41.6	43.7	41.5	43.9	43.9	43.3	42.8	41.3	42.5
Instruments and related products Miscellaneous manufacturing	39.3	39.3	39.2	39.1	39.3	39.0	39.4	39.5	39.5	39.8	39.6	39.4	38.9
Nondurable goods	40.2	40.1	40.2	40.2	40.2	40.0	40.1	40.2	40.1	40.4	40.2	40.2	40.3
Overtime hours	3.7	3.6	3.7	3.7	3.6	3.6	3.6	3.7	3.8	3.8	3.7	3.6	3.8
Food and kindred products	40.4	40.3	40.3	40.4	40.6	40.2	40.1	40.3	40.4	40.7	40.5	40.6	41.3
Tobacco manufactures	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Textile mill products	41.0	41.0	41.0	41.0	41.0	40.5	40.9	40.8	41.1	41.7	41.4	41.4	41.4
Apparel and other textile products	37.0	36.9	37.1	36.9	37.0	36.8	37.0	37.1	36.9	37.6	37.1	37.0	37.1
Paper and allied products	43.2	43.2	43.2	43.2	43.1	43.2	43.1	43.2	43.3	43.4	43.3	43.4	43.2
Printing and publishing	38.0	38.0	38.1	38.0	37.9	37.8	38.0	38.0	37.9	37.9	37.7	37.8	37.6
Chemicals and allied products	42.3	42.2	42.3	42.5	42.3	42.3	42.3	42.3	42.3	42.6	42.1	42.5	42.5
Petroleum and coal products	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Rubber and misc. plastics products	41.7	41.6	41.7	41.6	41.7	41.4	41.7	、41.7	41.6	41.6	41.5	41.4	41.3
Leather and leather products	37.2	37.5	37.5	37.8	37.3	37.7	38.0	38.6	38.0	38.3	37.4	37.9	37.5
Transportation and public utilities	39.4	39.3	39.4	39.4	39.3	39.4	39.6	39.4	39.4	40.1	39.5	39.4	39.9
Wholesale trade	38.1	37.9	38.1	38.1	38.0	38.1	38.1	38.1	38.1	38.3	37.9	38.0	38.1
Retail trade	29.3	29.0	29.1	29.2	29.0	29.1	29.1	28.9	28.9	29.1	28.9	28.9	29.2
Finance, insurance, and real estate	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Services	32.7	32.5	32.6	32.7	32.5	32.7	32.7	32.5	32.6	32.8	32.5	32.5	32.8

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

² These series are not published seasonally adjusted because the

seasonal components are small relative to the trend-cycle and/or irregular

components and consequently cannot be separated with sufficient precision. = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

ESTABLISHMENT DATA HOURS SEASONALLY ADJUSTED

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

(1977 = 100)

			19	88						1989			
Industry	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July ^e
Total private	125.6	125.1	125.6	126.3	126.3	126.8	127.4	127.2	127.6	128.7	127.6	128.0	129.4
Goods-producing	102.0	101.5	101.8	102.4	102.8	102.3	103.0	102.9	102.9	103.5	102.4	102.5	103.2
Mining	83.5	81.6	81.1	81.2	80.0	80.2	79.9	80.1	81.1	83.4	81.8	81.4	81.7
Construction	137.9	137.8	138.1	139.4	141.1	139.4	141.2	140.5	140.3	141.0	138.2	139.2	143.0
Manufacturing	95.9	95.5	95.7	96.2	96.5	96.2	96.7	96.7	96.7	97.2	96.4	96.3	96.5
Durable goods	94.2	93.7	94,1	94.6	94.9	94.6	95.2	95.0	94.9	95.2	94.3	94.0	93.8
Lumber and wood products	104.5	103.6	103.7	106.3	105.9	106.2	107.0	104.5	105.3	105.9	103.7	103.4	102.1
Furniture and fixtures	112.9	111.0	112.6	112.3	112.9	112.6	113.8	113.7	114.3	114.6	112.9	112.3	111.7
Stone, clay, and glass products	90.0	89.8	89.6	90.6	91.0	91.0	91.4	90.9	90.5	91.0	89.3	90.0	89.8
Primary metal industries	68.5	68.0	68.9	68.9	69.0	68.8	69.1	68.7	68.9	68.6	68.2	68.5	68.2
Blast furnaces and basic steel products	54.5	54.0	54.2	54.1	54.0	53.1	53.8	53.4	53.6	52.4	52.3	52.5	51.3
Fabricated metal products	91.6	91.1	91.5	91.8	92.5	92.1	93.0	92.8	92.5	92.2	91.7	90.9	91.1
Machinery, except electrical	91.4	90.7	91.2	91.9	92.1	92.5	93.0	93.7	93.4	93.9	93.7	93.8	93.6
Electrical and electronic equipment	100.8	100.6	100.6	101.0	101.4	100.2	100.2	99.9	98,8	99.7	98.4	97.8	97.6
Transportation equipment	100.2	99.9	100.0	100.8	100.8	100.3	101.0	101.0	101.5	101.2	100.5	99.4	99.4
Motor vehicles and equipment	89.1	91.5	92.3	92.7	93.6	89.9	91.8	91.1	91.7	91.1	90.2	88.0	86.3
Instruments and related products	113.1	113.1	113.7	114.8	114.8	114.5	115.3	115.6	115.0	116.4	115.8	115.8	118.3
Miscellaneous manufacturing	85.7	85.4	84.8	84.0	84.8	84.7	85.9	86.4	86.1	87.1	86.6	86.2	83.9
Nondurable goods	98.4	98.0	98.2	98.6	98.8	98.4	98.9	99.3	99.5	100.1	99.5	99.8	100.5
Food and kindred products	100.7	100.5	100.4	101.7	102.6	101.5	101.5	102.2	102.9	103.8	103.3	104.2	107.0
Tobacco manufactures	77.0	77.5	74.3	75.1	76.5	76.7	73.4	74.1	69.6	73.0	69.6	66.9	62.7
Textile mill products	81.3	80.2	80.6	80.6	80.5	79.5	80.6	80.4	81.0	82.1	81.5	81.7	81.8
Apparel and other textile products	84.5	83.8	84.2	83.8	84.4	84.2	84.9	85.5	85.4	86.8	85.4	84.9	85.5
Paper and allied products	102.3	102.1	101.7	101.9	101.9	102.1	101.7	101,9	102.3	102.4	102.3	102.4	102.7
Printing and publishing	136.2	136.7	137.2	137.3	137.3	137.4	138.3	138.4	138.5	138.2	137.8	138.6	138.2
Chemicals and allied products	98.4	98.5	98.7	99.5	99.0	99.4	99.9	100.0	100.4	100.9	100.5	102.0	101.8
Petroleum and coal products	84.5	84.1	84.1	84.1	83.5	82.7	81.2	83.3	82.2	82.9	83.5	84.9	87.6
Rubber and misc. plastics products	118.6	117.9	117.8	118.5	119.3	118.6	119.5	120.0	119.9	119.9	119.6	118.8	119.0
Leather and leather products	54.9	54.9	55.4	55.3	54.6	55.2	56.1	57.0	56.1	56.0	54.7	55.5	54.9
Service-producing	138.7	138.1	138.8	139.6	139.2	140.3	140.9	140.6	141.2	142.6	141.5	142.2	143.9
Transportation and public utilities	113.7	113.7	114.1	114.6	114.7	115.5	116.4	116.2	116.2	118.6	117.3	117.4	119.3
Wholesale trade	123.3	122.8	123.8	124.2	124.2	124.9	125.3	125.9	126.4	127.2	126.1	126.6	127.1
Retail trade	126.5	125.5	125.9	126.5	126.0	126.7	127.2	126.7	126.9	127.7	127.2	127.4	128.9
Finance, insurance, and real estate	141.5	140.1	140.9	141.6	140.6	141.2	142.1	140.8	141.8	143.8	141.9	142.5	145.3
Services	162.4	162.1	163.2	164.3	164.0	165.8	166.4	166.1	167.3	168.9	167.5	168.9	170.8

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

p = preliminary.

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

C-7. Average hourly and weekly earnings of production or nonsupervisory workers' on private nonagricultural payrolls, seasonally adjusted

ladare.			19	88						1989			
Industry	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June⁵	July
						Average	hourly e	earnings					
Total private (in current dollars)	\$9.31	\$9.32	\$9.37	\$9.43	\$9.42	\$9.45	\$9.49	\$9.52	\$9.54	\$9.61	\$9.60	\$9.62	\$9.70
Mining	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)	(²)
Construction	\$13.05	\$13.03	\$13.07	\$13.08	\$13.10	\$13.15	\$13.18		\$13.26	\$13.33	\$13.32	\$13.31	\$13.41
Manufacturing	10.18	10.21	10.25	10.29	10.30	10.31	10.33	10.37	10.40	10.40	10.42	10.45	10.48
Excluding overtime ³ r	9.72	9.75	9.78	9.80	9.83	9.85	9.87	9.89	9.92	9.92	9.97	9.99	10.01
Transportation and public utilities	12.35	12.37	12.37	12.41	12.39	12.36	12.45		12.50	12.52	12.54	12.53	12.63
Wholesale trade	9.98	9.95	10.03	10.14	10.06	10.11	10.19	10.18	10.21	10.36	10.28	10.32	10.45
Retail trade	6.32	6.33	6.36	6.38	6.40	6.43	6.44	6.45	6.47	6.51	6.49	6.51	6.53
Finance, insurance, and real estate	9.11	9.09	9.18	9.35	9.26	9.35	9.40		9.36	9.54	9.45	9.52	9.67
Services	8.93	8.95	9.00	9.07	9.05	9.10	9.15	9.19	9.24	9.32	9.33	9.34	9.46
Total private (in constant dollars)4	4.84	4.82	4.83	4.84	4.82	4.82	4.81	4.81	4.80	4.80	4.77	4.77	(⁵)
						Average	weekly e	earnings					
		·		Т Т									
Total private: In current dollars	323.99	322.47	325.14	328.16	326.87	327.92	330.25	329.39	331.04	335.39	332.16	332.85	338,53
In constant (1977) dollars4	168.39	166.82	167.68	168.55	167.28	167.39	167.55	166.44	166.44	167.53	165.01	165.10	(⁵)

Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance,

NOTE: Establishment survey estimates are currently projected from March 1988 benchmark levels. When more recent benchmark data are introduced, all seasonally adjusted data from January 1985 forward are subject to revision.

insurance, and real estate; and services.

² This series is not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

3 Derived by assuming that overtime hours are paid at the rate of time

and one-half.

⁴ The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.

Not available.

⁼ preliminary.

ESTABLISHMENT DATA STATE AND AREA HOURS AND EARNINGS NOT SEASONALLY ADJUSTED

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas

	Avera	ige weekly	hours	Averag	e hourly ea	rnings	Avera	ge weekly e	arnings
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989º
Alabama	41.6	41.1	41.1	\$8.99	\$9.10	\$9.11	\$373.98	\$374.01	\$374.42
Birmingham	41.5	40,4	40.9	9.10	9.29	9.28	377.65	375.32	379.55
Mobile	40.6	41.5	41.6	10.60	10.45	10.64	430.36	433.68	442.62
Alaska	43.9	46.0	38.4	11.81	12.83	12.70	518.46	590.18	487.68
Arizona	41.2	40.8	41.0	9.87	9.91	9.92	406.64	404.33	406.72
						2.04		201.15	
Arkansas	40.9 41.2	40.8	40.1 41.6	8.05	8.19	8.21	329.25	334.15 314.03	329.22 307.42
Fayetteville-Springdale	41.2 40.4	42.9 40.1	41.6	7.15 8.62	7.32 8.70	7.39 8.87	294.58 348.25	314.03	361.01
Fort Smith	41.0	41.0	40.7	8.46	8.73	8.86	346.25	346.67	364.15
Little Rock-North Little Rock	41.0	41.0	41.1	10.44	10.63	10.49	453.10	461.34	456.32
California	(¹)	(')	(')	(')	(¹)	(')	(')	(')	(1)
Colorado Denver	40.4 40.9	39.6 40.2	40.3 40.5	10.20 10.74	10.70 11.18	10.55 10.87	412.08 439.27	423.72 449.44	425.17 440.24
CELIYO				i I					
Connecticut	41.6	41.8	42.1	10.82	11.16	11.21	450.11	466.49	471.94
Bridgeport-Milford	41.8	42.4	42.7	11.10	11.50	11.53	463.98	487.60	492.33
Hartford	42.5	42.2	42.4	11.21	11.89	11.91	476.43	501.76	504.98
New Britain	42.0	42.0	42.1	11.25	11.50	11.46	472.50	483.00	482.47
New Haven-Meriden	40.8	40.4	40.5	10.29	10.62	10.65	419.83	429.05	431.33
Stamford	40.4	42.7	42.9	12.10	12.25	12.18	488.84	523.08	522.52
Waterbury	43.3	42.9	42.9	9.62	10.08	10.15	416.55	432.43	435.44
Delaware	40.4	40.2	40.9	10.61	10.80	10.89	428.64	434.16	445.40
Wilmington	40.9	41.3	42.1	13.28	12.96	12.99	543.15	535.25	546.88
District of Columbia:									
Washington MSA	39.1	39.5	39.8	11.21	12.03	12.01	438.31	475.19	478.00
Florida	41.1	40.5	40.6	8.37	8.64	8.64	344.01	349.92	350.78
Fort Lauderdale-Hollywood-Pompano Beach	41.5	40.9	41.2	8.34	8.60	8.61	346.11	351.74	354.73
Jacksonville	41.7	40.3	41.3	9.09	9.26	9.30	379.05	373.18	384.09
Miami-Hialeah	40.0	39.0	39.0	7.10	7.38	7.33	284.00	287.82	285.87
Orlando	39.9	41.1	41.3	8.87	9.61	9.67	353.91	394.97	399.37
Pensacola	43.1	42.7	42.5	10.75	11.00	10.95	463.33	469.70	465.38
Tampa-St. Petersburg-Clearwater	41.0	40.4	40.4	8.09	8.56	8.62	331.69	345.82	348.25
West Palm Beach-Boca Raton-Delray Beach	40.2	40.8	41.0	9.21	9.36	9.37	370.24	381.89	384.17
Georgia	41.5	40.5	41.0	8.69	8.73	8.71	360.64	353.57	357.11
Atlanta	41.8	40.9	41.3	10.35	10.17	10.10	432.63	415.95	417.13
Savannah	49.1	47.4	48.0	11.40	11.58	11.59	559.74	548.89	556.32
Hawaii	39.4	39.4	38.9	9.95	10.26	10.35	392.03	404.24	402.62
Honolulu	39.5	39.7	39.3	10.08	10.43	10.57	398.16	414.07	415.40
ldaho	39.3	37.9	38.5	10.07	9.91	10.24	395.75	375.59	394.24
Illinois	41.9	41.5	41.7	11.04	11.23	11.23	462.58	466.05	468.29
Aurora-Elgin	41.6	41.5	41.7	10.49	10.41	10.44	436.38	432.02	435.35
Bloomington-Normal	43.3	40.1	39.1	11.52	11.58	12.23	498.82	464.36	478.19
Champaign-Urbana-Rantoul	39.6	38.5	40.2	9.17	9.53	9.56	363.13	366.91	384.31
Chicago	42.3	41.4	41.4	10.78	10.82	10.84	455.99	447.95	448.78
Davenport-Rock Island-Moline	39.4	40.9	39.3	12.80	12.61	12.82	504.32	515.75	503.83
Decatur	42.1	42.3	42.7	14.28	14.58	14.90	601.19	616.73	636.23
Joliet	42.2	42.0	42.9	12.10	12.25	12.26	510.62	514.50	525.95
Kankakee	42.4	41.6	40.3	10.72	11.05	11.16	454.53	459.68	449.75
Lake County	41.0	40.5	40.6	11.45	11.78	11.77	469.45	477.09	477.86
Peoria	47.3	43.8	43.6	13.50	13.80	13.79	638.55	604.44	601.24
Rockford	43.5	42.4	41.9	11.77	11.94	11.78	512.00	506.26	493.58
Springfield	43.2	39.8	39.6	11.87	11.55	11.64	512.78	459.69	460.94
	1	1	1	1	l	1	1	1)

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued

	Aver	age weekly	hours	Averag	je hourly e	arnings	Avera	ige weekly e	arnings
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
•		40.0		240.50			0.400.40	70	2442.00
lowa	41.4	40.6	40.9	\$10.59	\$10.88	\$10.98	\$438.43	\$441.73	\$449.08
Cedar Rapids	40.0	39.6	39.0	12.21	12.38	12.67	488.40	490.25	494.13
Des Moines	42.2	40.2	40.7	11.93	11.75	11.92	503.45	472.35	485.14
Dubuque	40.8	40.0	41.6	11.84	11.76	12.03	483.07	470.40	500.45
Sioux City	36.8	34.4	34.0	8.67	8.34	8.40	319.06	286.90	285.60
Kansas	41.3	40.3	40.1	10.12	10.51	10.30	417.96	423.55	413.03
Topeka	43.4	43.8	42.4	11.25	11.27	11.41	488.25	493.63	483.78
Wichita	40.9	41.2	40.9	10.65	11.36	11.36	435.59	468.03	464.62
Kentucky	40.8	40.3	40.5	10.19	10.28	10.29	415.75	414.28	416.75
		1						1	
Lexington-Fayette	39.6	39.5	39.4	10.31	10.75	10.80	408.28	424.63	425.52
Louisville	42.1	41.1	40.9	11.81	11.72	11.78	497.20	481.69	481.80
Louisiana	42.8	42.3	42.1	10.99	10.95	10.93	470.37	463.19	460.15
Baton Rouge	42.6	43.0	43.0	12.90	12.93	12.94	549.54	555.99	556.42
New Orleans	41.2	40.7	40.8	10.43	10.65	10.64	429.72	433.46	434.11
Shreveport	41.7	42.8	42.4	11.94	10.71	11.20	497.90	458.39	474.88
Maine	40.8	40.2	41.0	9.29	9.76	9.90	379.03	392.35	405.90
Lewiston-Auburn	39.9	39.1	42.5	7.97	8.17	8.86	318.00	319.45	376.55
Portland	41.2	40.0	40.3	9.37	10.28	10.25	386.04	411.20	413.08
Bin-dood	44.0			40.47	40.00	40.00	405.55	444.70	445.70
Maryland	41.6 41.5	41.1	41.2 41.4	10.47 11.16	10.82 11.31	10.82 11.42	435.55 463.14	444.70 465.97	445.78 472.79
Dalimore Mort	41.5	71.2	41.4	''	11.01	11.72	400.14	403.57	472.73
Massachusetts	41.5	40.9	41.1	10.23	10.67	10.74	424.55	436.40	441.41
Boston	41.8	40.5	40.8	10.90	11.37	11.43	455.62	460.49	466.34
Springfield	43.0	42.4	42.3	9.70	9.90	9.94	417.10	419.76	420.46
Worcester	40.5	41.5	41.6	10.41	10.87	10.97	421.61	451.11	456.35
Michigan	43.9	43.2	43.0	13.52	13.61	13.65	593.53	587.95	586.95
Ann Arbor	46.6	45.0	43.5	14.85	14.34	14.34	692.01	645.30	623.79
Battle Creek	41.7	42.6	42.6	13.93	14.25	14.59	580.88	607.05	621.53
Detroit	45.4	43.8	43.5	14.56	14.48	14.58	661.02	634.22	634.23
Flint	43.9	45.4	45.6	16.57	17.46	17.35	727.42	792.68	791.16
Grand Rapids	41.7	41.3	41.4	11.38	11.62	11.63	474.55	479.91	481.48
	41.5	42.2	41.0	10.01	11.02	10.81	415.41	465.47	443.21
Jackson				1 3					
Kalamazoo	43.4	42.2	42.0	12.37	12.83	12.95	536.86	541.43	543.90
Lansing-East Lansing	43.5	41.9	40.4	15.40	14.79	14.77	669.90	619.70	596.71
MuskegonSaginaw-Bay City-Midland	40.8 44.0	40.9 44.1	41.1 43.9	12.01 15.25	12.32 15.25	12.23 15.30	490.01 671.00	503.89 672.52	502.65 671.67
bagillar-bay ony molaro illimination	44.0		40.5	13.23	10.20	13.00	071.00	072.52	071.07
Minnesota	40.8	39.8	40.1	10.52	10.80	10.81	429.22	429.84	433.48
Duluth	41.7	39.3	39.4	10.83	11.18	11.13	451.61	439.37	438.52
Minneapolis-St. PaulSt. Cloud	41.3 40.1	40.4 38.3	40.5 38.4	11.20 9.90	11.44 9.88	11.48 9.84	462.56 396.99	462.18 378.40	464.94 377.86
3. 0130	10.1	00.0	00.4	0.00	0.00	0.04	000.00	070.10	077.00
Mississippi	40.7	39.7	40.2	7.82	8.01	8.01	318.27	318.00	322.00
Jackson	40.4	40.3	40.0	8.94	8.97	9.07	361.18	361.49	362.80
Missouri	40.9	40.8	41.3	10.14	10.45	10.43	414.73	426.36	430.76
Kansas City	41.4	40.1	39.7	11.39	11.67	11.65	471.55	467.97	462.51
St. Louis	41.1	41.5	41,4	11.81	12.18	12.32	485.39	505.47	510.05
Springfield	40.3	39.5	40.1	8.48	8.71	8.72	341.74	344.05	349.67
Montana	39.1	39.3	39.7	10.82	10.84	10.74	423.06	426.01	426.38
				1					}
Nebraska	40.7	40.2	41.5	9.45	9.54	9.64	384.62	383.51	400.06
Lincoln	40.0	39.0	39.0	9.79	9.97	10.06	391.60	388.83	392.34
Omaha	41.0	41.9	42.0	10.23	10.28	10.35	419.43	430.73	434.70
Nevada	39.0	41.9	41.1	10.01	10.23	10.20	390.39	428.64	419.22
Las Vegas	39.8	43.5	41.8	12.47	12.42	12.95	496.31	540.27	541.31
New Hampshire	40.6	40.3	40.7	9.68	10.13	10.10	393.01	408.24	411.07
Manchester	40.6	39.8	41.3	9.98	10.13	10.10	406.19	412.33	420.43
Nashua	40.5	41.2	41.2	11.72	11.96	11.68	474.66	492.75	481.22
Portsmouth-Dover-Rochester	40.4	41.7	42.2	9.42	9.89	9.75	380.57	412.41	411.45
					2.00				

ESTABLISHMENT DATA STATE AND AREA HOURS AND EARNINGS NOT SEASONALLY ADJUSTED

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas—Continued

	Avera	ge weekly	hours	Averag	e hourly ea	arnings	Avera	ge weekly e	arnings
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989
New Jersey	41.0	41.0	41.1	\$10.85	\$11.27	\$11.28	\$444.85	\$462.07	\$463.61
New Mexico	39.8	40.4	40.3	8.79	8.55	8.67	349.84	345.42	349.40
Albuquerque	40.7	40.5	40.4	9.21	9.28	9.35	374.85	375.84	377.74
New York	40.0	39.9	40.0	10.41	10.69	10.62	416.40	426.53	424.80
Albany-Schenectady-Troy	41.0	40.2	41.6	10.89	10.94	10.66	446.49	439.79	443.46
Binghamton	39.9	39.9	39.7	9,48	9.90	9.99	378.25	395.01	396.60
Buffalo	43.5	42.4	42.4	12.41	12.71	12.54	539.84	538.90	531.70
Elmira	41.4	42.3	42.0	9.72	10.01	9.41	402.41	423.42	395.22
Nassau-Suffolk	39.3	39.7	39.8	11.01	11.77	11.62	432.69	467.27	462.48
New York PMSA	37.1	37.7	37.4	9.77	9.91	9.85	362.47	373.61	368.39
New York City	36.9	37.4	37.0	9.49	9.78	9.77	350.18	365.77	361.49
Niagara Falls	42.2	41.5	42.0	13.36	13.98	13.86	563.79	580.17	582.12
Orange County	39.8	37.9	38.5	8.19	8.86	8.65	325.96	335.79	333.03
Poughkeepsie	41.1	40.1	40.0	9.88	10.58	10.60	406.07	424.26	424.00
Rochester	43.1	42.5	42.5	12.36	12.48	12.50	532.72	530.40	531.25
Rockland County	35.4 42.0	38.5 41.3	39.4 41.0	11.19 11.92	9.91 12.24	8.48 12.30	396.13 500.64	381.54 505.51	334.11 504.30
Syracuse	41.2	40.4	40.6	9.62	9.81	9.75	396.34	396.32	395.85
Westchester County	40.3	40.4	40.7	11.53	11.13	11.05	464.66	449.65	449.74
North Carolina	40.4	40.5	40.7	8.10	8.39	8.40	327.24	339.80	341.88
Asheville	41.1	41.6	41.9	8.12	8.36	8.31	333.73	347.78	348.19
Charlotte-Gastonia-Rock Hill	40.3	40.8	40.9	8.36	8.77	8.77	336.91	357.82	358.69
Greensboro-Winston-Salem-High Point	40.0	39.5	39.4	9.07	9.19	9.25	362.80	363.01	384.45
Raleigh-Durham	41.7	41.3	40.9	9.20	9.36	9.40	383.64	386.57	384.46
North Dakota	39.1	40.0	40.4	8.39	8.91	8.91	328.05	356.40	359.96
Fargo-Moorhead	39.2	37.9	39.3	8.41	8.67	8.81	329.67	328.59	346.23
Ohio	43.3	42.7	42.8	12.05	12.23	12.29	521.77	522.22	526.01
Akron	44.1	42.6	41.9	11.76	11.47	11.26	518.62	488.62	471.79
Canton	42.8	42.1	42.1	11.35	11.81	11.80	485.78	497.20	496.78
Cincinnati	42.0	42.5	43.1	11.11	11.38	11.48	466.62	483.65	494.79
Cleveland	43.7	43.0	43.4	11.86	11.97	11.97	518.28	514.71	519.50
Columbus	41.5	41.2	41.3	11.57	11.96	11.96	480.16	492.75	493.95
Dayton-Springfield	44.0	43.1	43.4	12.71	12.89	12.92	559.24	555.56	560.73
Toledo Youngstown-Warren	43.4 42.8	43.9 43.4	43.2 42.6	13.17 13.60	13.32 13.84	13.24 13.92	571.58 582.08	584.75 600.66	571.97 592.99
Oklahoma	41.1	41.5	41.8	10.25	10.52	10.56	421.28	436.58	441,41
Oklahoma City	41.9	41.8	41.8	11.39	11.40	11.41	477.24	476.52	476.94
Tulsa	40.6	41.6	40.3	10.75	10.88	10.79	436.45	452.61	434.84
Oregon	39.3	39.6	39.8	10.61	10.84	10.82	416.97	429.26	430.64
Eugene-Springfield	40.2	39.1	39.4	10.72	10.79	10.80	430.94	421.89	425.52
Portland	39.2	39.8	39.7	10.73	10.96	10.93	420.62	436.21	433.92
Salem	38.2	38.0	39.1	8.85	9.76	9.49	338.07	370.88	371.06
Pennsylvania	41.2	40.5	40.8	10.23	10.53	10.58	421.48	426.47	431.66
Allentown-Bethlehem	40.0	39.1	39.4	10.45	10.55	10.61	418.00	412.51	418.03
Altoona	41.2	40.0	40.1	8.81	9.25	9.31	362.97	370.00	373.33
Beaver County	42.6	43.2	43.0	10.76	10.85	10.72	458.38	468.72	460.96
Erie	42.7 39.9	42.5	42.6	10.46	10.73	10.76	446.64	456.03	458.38
Harrisburg-Lebanon-Carlisle	39.9	39.3 39.7	39.9 39.5	9.42 8.37	9.86 8.35	9.87 8.34	375.86 333.96	387.50 331.50	393.81 329.43
Lancaster	40.3	40.2	40.2	10.05	10.61	10.61	405.02	426.52	426.52
Philadelphia PMSA	40.5	40.2	40.2	11.22	11.64	11,71	454.41	470.26	475.43
Pittsburgh	42.0	41.6	42.1	11.22	11.27	11.30	471.24	468.83	475.73
	1 -2.5	71.0	72.1	1		150	7,1.27	400.00	1,0.70

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas-Continued

State and area		ige weekly	hours	Averag	je hourly ea	arnings	Avera	ge weekly e	arnings
State and area	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989
ennsylvania-Continued									
Reading	41.3	40.8	40.9	\$10.71	\$11.02	\$11.04	\$442.32	\$449.62	\$451.5
Scranton-Wilkes-Barre	38.9	38.4	38.9	8.89	9.16	9.24	345.82	351.74	359.4
Williamsport	41.6	39.9	39.6	8.92	9.40	9.34	371.07	375.06	369.8
York	42.7	41.4	41.2	9.85	10.18	10.18	420.60	421.45	419.4
ibada laland	39.4	39.1	39.3	8.49	0.00	9.03	334.51	352.68	354.8
hode Island	40.1	40.1	40.4	8.13	9.02 8.68	8.71	326.01	348.07	351.8
Pawtucket-Woonsocket-Attleboro	39.2	38.8	38.8	8.55	8.69	8.70	335.16	337.17	337.5
auth Caralla		44.4	44.0	0.00	0.50	0.00	040.04	050.05	055.5
outh Carolina	41.4	41.1	41.2	8.29	8.59	8.63	343.21	353.05	355.5
Charleston	40.9	41.1	40.9	9.18	9.33	9.37	375.46	383.46	383.2
Columbia	41.3 41.4	41.2 40.7	41.7 41.2	8.35 8.25	8.74 8.54	8.79 8.61	344.86 341.55	360.09 347.58	366.5 354.7
outh DakotaSioux Falls	42.1 45.4	42.0 43.0	42.5 42.4	7.89 8.10	8.23 8.67	8.08 8.42	332.17 367.74	345.66 372.81	343.4 357.0
ennessea	41.9	40.8	41.2	8.93	9.26	9.18	374.17	377.81	378.2
ennessee	41.9	40.8	41.2	8.93	9.26 8.24	9.18 8.30	3/4.17	344.43	3/8.2
Chattanooga							ı		
Johnson City-Kingsport-Bristol	43.3	41.9	42.0	9.59	9.84	9.62	415.25	412.30	404.0
Knoxville	41.7	39.1	39.2	8.99	9.07	8.97	374.88	354.64	351.0
Memphis	42.7 42.2	42.1 41.6	42.5 41.9	9.01 10.39	9.41 10.75	9.48 10.70	384.73 438.46	396.16 447.20	402.9
TUSTITUS									
exas	41.9	41.7	41.8 41.9	9.95	10.14	10.19	416.91	422.84	425.
Dallas	41.8	42.0		9.76	10.07	10.17	407.97	422.94	426.
Ft. Worth-Arlington	42.4	40.9	41.5	10.62	10.89	10.99	450.29	445.40	456.0
Houston	43.6	43.1	43.5	11.36	11.75	11.83	495.30	506.43	514.6
San Antonio	40.5	40.8	40.5	7.52	7.60	7.54	304.56	310.08	305.3
tah	40.0	38.7	39.4	9.88	10.02	10.06	395.20	387.77	396.3
Salt Lake City-Ogden	40.9	40.0	40.8	9.86	10.04	10.03	403.27	401.60	409.2
ermont Burlington	41.0 41.2	40.8 39.4	41.1 39.4	9.33 9.57	10.01 10.64	9.95 10.41	382.53 394.28	408.41 419.22	408.9 410.1
						0.5=			
irginia	41.1	41.1	41.1	9.31	9.54	9.57	382.64	392.09	393.3
Bristol	42.7	40.8	42.1	7.81	7.98	7.85	333.49	325.58	330.4
Charlottesville	41.1	41.8	41.8	7.73	7.96	8.08	317.70	332.73	337.
Danville	42.1	41.3	40.5	8.55	8.63	8.55	359.96	356.42	346.2
Lynchburg	41.1	40.4	40.7	8.79	9.15	9.09	361.27	369.66	369.9
Northern Virginia	39.3	40.0	40.7	10.40	11.00	11.04	408.72	440.00	449.3
Richmond-Petersburg	41.6	41.0	41.6	12.02	12.50	12.47	500.03	512.50	518.
Roanoke	39.8	40.7	41.4	9.25	9.53	9.61	368.15	387.87	397.
/ashington	39.9	40.9	40.7	11.76	12.04	12.20	469.22	492.44	496.5
/est Virginia	41.0	41.1	41.4	10.67	11.12	11.20	437.47	457.03	463.6
Charleston	43.4	43.2	44.2	13.53	14.36	14.37	587.20	620.35	635.
Huntington-Ashland	42.3	41.4	41.1	12.52	12.58	12.66	529.60	520.81	520.
Parkersburg-Marietta	42.7	42.5	42.1	12.41	13.37	13.09	529.91	568.23	551.
Wheeling	41.2	40.7	41.0	12.02	12.37	12.31	495.22	503.46	504.
/isconsin	41.6	41.1	41.2	10.56	10.76	10.69	439.30	442.24	440.
Appleton-Oshkosh	43.1	43.8	43.2	11.13	11.77	11.79	479.70	515.53	509.
Eau Claire	40.8	41.3	41.4	10.66	10.47	10.32	434.93	432.41	427.
Green Bay	42.1	40.0	40.2	11.40	11.75	11.49	479.94	470.00	461.
Janesville-Beloit	42.6	42.1	40.9	13.03	13.32	12.78	555.08	560.77	522.
Kenosha	39.1	39.8	42.2	12.87	12.51	12.06	503.22	497.90	508.
a Crosse	39.1	40.2	40.2	9.18	9.92	9.72	358.94	398.78	390.
Madison	42.1	40.6	39.7	9.77	10.22	10.09	411.32	414.93	400.
Milwaukee	41.4	40.4	40.8	11.51	11.56	11.51	476.51	467.02	469.
Racine	40.7	38.7	40.1	10.89	11.00	11.22	443.22	425.70	449.
Wausau	42.4	42.0	41.5	10.05	10.13	10.28	426.12	425.46	426.
yoming	38.7	38.0	37.2	10.03	10.04	10.26	388.16	381.52	381.
uerto Rico	39.1	39.0	39.6	5.53	5.59	5.66	216.22	218.01	224.
				1				1	1

 1 Not available. $^p=$ preliminary. NOTE: Area definitions are published annually in the May issue of this

publication. All State and area data have been adjusted to March 1988 benchmarks.

PRODUCTIVITY DATA SEASONALLY ADJUSTED

C-9. Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted

	Million	s of hours (annual	rate)¹		Percent change	
Industry	M ay 1989'	June 1989'	July 1989°	July 1988 to July 1989	May 1989 to June 1989'	June 1989 to July 1989°
Total	200,847	201,230	202,695	2.8	0.2	0.7
Private sector	165,172	165,887	167,499	3.0	.4	1.0
Mining	1,574	1,573	1,574	8	.0	.1
Construction	10,207	10,314	10,568	4.3	1.1	2.5
Manufacturing	41,877	41,899	41,897	.9	.1	.0
Durable goods	24,949	24,920	24,840	.1	1	3
Nondurable goods	16,928	16,980	17,057	2.0	.3	.5
Transportation and public utilities	11,707	11,765	11,944	4.3	.5	1.5
Wholesale trade	12,244	12,303	12,379	3.3	.5	.6
Retail trade	29,324	29,344	29,756	2.0	.1	1.4
Finance, insurance, and real estate	12,593	12,688	12,914	2.6	.8	1.8
Services	45,649	46,000	46,468	5.1	.8	1.0
Government	35,675	35,343	35,196	1.7	9	4

 $[\]dot{}$ Total hours paid for 1 week in the month, seasonally adjusted, multiplied by 52.

NOTE: Data refer to hours of all employees-production workers,

nonsupervisory workers, and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods*, BLS Bulletin 2285, chapter 10, Productivity Measures: Business Sector and Major Subsectors. SOURCE: Office of Productivity and Technology (202 523 9261).

⁼preliminary.

⁼revised.

C-10. Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted'

(1977 = 100)

	Annual	average					Qu	arterly in	dex				
Item	1987'	1988′	1986		19	87			19	88		19	989
	1907	1900	IV'	l'	II'	III'	IV'	ľ	ll'	III'	IV'	ľ	IJ₽
Business sector												- Talahanan	
Output per hour of all persons		113.1	109.8	109.9	110.7	111.7	112.5	113.3	112.7	113.6	113.6	113.9	114.2
Output		140.0	128.9	130.4	132.2	134.4	136.7	138.2	139.3	140.7	141.9	143.6	144.0
Hours	120.1	123.8	117.4	118.6	119.5	120.3	121.5	122.0	123.6	123.9	124.9	126.0	126.2
Compensation per hour	1	200.4	187.4	188.2	189.5	191.8	195.2	196.5	199.3	202.2	204.8	207.2	210.5
Real compensation per hour		102.7	102.8	101.9	101.4	101.7	102.6	102.3	102.7	102.9	103.1	103.0	103.0
Unit labor costs	171.9	177.2	170.6	171.2	171.3	171.6	173.5	173.5	176.9	178.1	180.2	181.9	184.4
Unit nonlabor payments	1	170.8	160.7	162.6	166.5	168.9	167.2	168.9	168.8	171.7	173.6	174.7	176.2
Implicit price deflator	170.0	174.9	167.1	168.2	169.6	170.7	171.3	171.9	174.1	175.8	177.9	179.4	181.5
Nonfarm business sector													
Output per hour of all persons	108.9	111.2	107.6	107.7	108.6	109.5	110.3	111.1	110.7	111.6	112.1	111.8	111.8
Output	133.1	140.3	128.4	130.0	132.0	134.1	136.4	138.0	139.5	141.1	142.8	143.6	144.2
Hours		126.2	119.3	120.7	121.6	122.4	123.7	124.3	126.1	126.4	127.3	128.5	129.0
Compensation per hour	189.8	198.9	186.4	187.0	188.3	190.5	193.9	195.1	197.8	200.5	203.3	205.7	208.5
Real compensation per hour		101.9	102.2	101.3	100.7	101.0	101.9	101.6	101.9	102.1	102.4	102.3	102.0
Unit labor costs		178.8	173.2	173.6	173.4	173.9	175.8	175.7	178.7	179.6	181.3	184.1	186.4
Unit nonlabor payments	167.7	172.2	161.6	164.1	167.6	170.3	168.7	170.2	169.8	172.0	176.2	174.6	176.3
Implicit price deflator	172.0	176.5	169.2	170.3	171.4	172.6	173.4	173.8	175.6	177.0	179.6	180.8	182.9
Manufacturing													
Output per hour of all persons	132.9	137.7	130.1	131.3	133.1	134.3	135.1	136.3	137.5	139.2	140.0	140.7	141.6
Output	130.1	138.1	125.9	127.2	128.7	131.1	133.5	135.0	136.9	139.3	141.1	142.2	142.9
Hours	97.9	100.3	96.8	96.8	96.7	97.6	98.9	99.1	99.6	100.0	100.7	101.0	100.9
Compensation per hour	189.2	197.8	187.8	188.5	188.7	190.4	192.2	195.5	197.1	199.5	202.3	203.9	205,1
Real compensation per hour	100.9	101.3	103.0	102.0	101.0	100.9	101.0	101.8	101.5	101.5	101.9	101.3	100.4
Unit labor costs	142.3	143.6	144.3	143.5	141.8	141.8	142.3	143.5	143.3	143.2	144.5	144.8	144.9
Durable goods													
Output per hour of all persons	139.5	144.8	136.6	138.4	140.0	141.2	142.4	143.8	145.2	146.7	147.2	147.8	149.4
Output	136.0	145.0	131.8	133.3	134.2	136.5	139.9	141.3	144.0	146.4	148.3	149.1	149.9
Hours	97.5	100.2	96.5	96.4	95.9	96.7	98.2	98.3	99.2	99.8	100.7	100.9	100,3
Compensation per hour	187.4	195.3	186.9	187.9	187.4	189.0	190.6	194.5	195.0	197.0	200.2	201.8	202.4
Real compensation per hour	100.0	100.1	102.5	101.7	100.3	100.2	100.1	101.3	100.4	100.3	100.8	100.3	99.1
Unit labor costs	134.3	134.9	136.8	135.8	133.9	133.9	133.9	135.2	134.3	134.4	135.9	136.6	135.5
Nondurable goods													
Output per hour of all persons	123.2	127.3	120.5	121.0	123.1	124.3	124.4	125.3	126.1	128.3	129.3	130.3	130.1
Output	121.4	127.8	117.0	118.0	120.5	123.1	124.0	125.6	126.4	128.8	130.3	131.8	132.5
Hours	98.6	100.4	97.1	97.6	97.9	99.0	99.7	100.2	100.2	100.4	100.8	101.1	101.9
Compensation per hour	192.5	202.2	189.4	189.8	191.5	193.3	195.3	197.8	200.9	203.8	206.1	207.6	210.1
Real compensation per hour	102.7	103.6	103.9	102.8	102.4	102.5	102.6	103.0	103.5	103.8	103.8	103.2	102.8
Unit labor costs	156.2	158.9	157.1	156.9	155.6	155.5	157.0	157.8	159.3	158.9	159.4	159.3	161.5
Nonfinancial corporations													
Output per all-employee hour		114.9	110.6	110.4	111.6	113.0	113.6	114.8	115.0	115.4	115.3	114.7	(²)
Output	135.3	143.5	130.3	131.5	133.9	136.9	138.9	141.2	142.8	144.3	145.4	145.8	(²)
Hours	1	124.8	117.8	119.2	120.0	121.1	122.3	123.0	124.2	125.1	126.2	127.1	(²)
Compensation per hour	186.1	194.5	183.0	183.6	184.7	186.9	189.7	191.2	193.6	196.0	198.3	200.7	(°)
Real compensation per hour		99.7	100.4	99.4	98.8	99.1	99.6	99.6	99.7	99.8	99.9	99.7	(²)
Total unit costs	171.2	174.6	170.1	171.0	170.8	170.8	172.1	171.9	173.6	175.2	177.5	180.4	(²)
Unit labor costs	166.1	169.3	165.4	166.3	165.5	165.3	167.0	166.6	168.4	169.9	172.1	174.9	(²)
Unit nonlabor costs	186.4	190.3	183.7	185.0	186.3	186.9	187.2	187.8	188.9	191.0	193.3	196.9	(²)
	1											1	1 101
Unit profits	123.0	128.8	120.4	118.1	122.5	129.3	122.0	127.0	129.1	127.5	131.6	119.6	(²) (²)

The productivity and cost measures incorporate revised output and compensation measures reported by the Bureau of Economic Analysis of the U.S. Department of Commerce; revised data for employees of nonagricultural establishments; and a redefinition of labor input to hours at work.

SOURCE: Office of Productivity and Technology (202 523 9261).

Not available.

⁼preliminary. =revised.

PRODUCTIVITY DATA SEASONALLY ADJUSTED

C-11. Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates'

					P	ercent cl	nange fro	m		····		
Item			Previous	s quarter				Sam	e quarter	, previou	s year	
	1 1988'	II 1988'	III 1988'	IV 1988′	l 1989'	 1989°	l 1988′	II 1988′	III 1988′	IV 1988′	1989'	II 1989°
Business sector												
Output per hour of all persons	2.7	-2.0	3.1	0.2	1.0	0.9	3.0	1.8	1.6	1.0	0.6	1.3
Output		3.3	4.0	3.4	4.8	1.4	5.9	5.4	4.7	3.8	3.9	3.4
Hours	1.7	5.4	.9	3.2	3.8	.4	2.8	3.5	3.0	2.8	3.3	2.1
Compensation per hour		5.9	5.8	5.2	4.8	6.6	4.4	5.2	5.4	4.9	5.4	5.6
Real compensation per hour		1.3	1.0	.7	6	.3	.4	1.3	1.2	.5	.6	.3
Unit labor costs	I	8.1	2.6	5.0	3.7	5.7	1.3	3.3	3.7	3.9	4.8	4.2
Unit nonlabor payments		3	7.1	4.6	2.4	3.5	3.9	1.4	1.7	3.9	3.4	4.4
Implicit price deflator	1.5	5.1	4.1	4.8	3.3	4.9	2.2	2.6	3.0	3.9	4.3	4.3
Nonfarm business sector												
Output per hour of all persons		-1.5	3.4	1.9	-1.3	.2	3.1	1.9	1.9	1.7	.6	1.0
Output		4.4	4.6	4.8	2.4	1.7	6.1	5.7	5.2	4.7	4.1	3.4
Hours		5.9	1.2	2.8	3.8	1.5	2.9	3.7	3.3	2.9	3.4	2.3
Compensation per hour	I	5.5	5.5	5.9	4.8	5.5	4.3	5.1	5.2	4.9	5.4	5.4
Real compensation per hour		.9	.8	1.4	6	9	.4	1.1	1.0	.5	.6	.2
Unit labor costs	I	7.1	2.0	3.9	6.2	5.2	1.2	3.1	3.3	3.1	4.8	4.3
Unit nonlabor payments Implicit price deflator		-1.0 4.3	5.4 3.2	10.1 5.9	-3.7 2.8	3.9 4.8	3.7 2.0	1.3 2.5	1.0 2.5	4.4 3.6	2.6 4.0	3.8 4.2
Manufacturing		""		0.0						0.0	""	"-
_		İ										
Output per hour of all persons		3.6	5.2	2.3	2.1	2.4	3.8	3.3	3.7	3.7	3.3	3.0
Output		5.8	7.1	5.1	3.1	2.1	6.2	6.4	6.2	5.6	5.3	4.4
Hours		2.2	1.8	2.8	1.1	3	2.3	3.0	2.5	1.9	2.0	1.3
Compensation per hour		3.2	4.9	5.9	3.1	2.5	3.7	4.4	4.8	5.3	4.3	4.1
Real compensation per hourUnit labor costs		-1.3 3	.2 3	1.4 3.5	-2.2 1.0	-3.7 .1	2 1	1.1	1.0	.9 1.5	5 1.0	-1.1 1.1
Durable goods												
•	1			4.0		1.0						
Output per hour of all persons		3.8	4.1	1.6	1.4	4.6	4.0	3.7	3.9	3.4	2.7	2.9
Output		7.7 3.7	6.8	5.3 3.6	2.2	2.0 -2.4	6.0 2.0	7.3	7.2	6.0	5.5	4.1
Hours		1.1	4.2	6.5	3.3	1.3	3.5	4.0	3.2 4.3	2.5 5.0	2.7 3.8	3.8
Compensation per hour Real compensation per hour		-3.3	5	1.9	-2.1	-4.8	4	.2	.1	.7	-1.0	-1.4
Unit labor costs		-2.6	.1	4.8	1.8	-3.1	4	.3	.4	1.6	1.0	.9
Nondurable goods						5			''			
•						_						ļ <u>.</u> .
Output per hour of all persons		2.7 2.7	7.0	3.2 4.8	3.2 4.7	7 2.3	3.6 6.4	2.5 4.9	3.2	4.0	4.0	3.1
Output Hours	1	.0	7.7	1.5	1.4	3.0	2.7	2.4	4.6 1.4	5.0 1.0	5.0	1.7
Compensation per hour		6.4	6.0	4.6	2.9	5.0	4.2	4.9	5.4	5.5	5.0	4.6
.		1.8	1.2	.2	-2.4	-1.3	.2	1.0	1.2	1.2		6
Unit labor costs		3.7	-1.0	1.4	4	5.7	.6	2.4	2.2	1.5	.9	1.4
Nonfinancial corporations												
Output per all-employee hour	4.3	.6	1.4	4	-1.8	(²)	4.0	3.0	2.1	1.5	.0	(2)
Output		4.6	4.3	3.2	1.0	(²) (²)	7.4	6.6	5.4	4.7	3.2	(²)
Hours		4.0	2.8	3.6	2.8	(²)	3.2	3.5	3.3	3.2	3.3	(²)
Compensation per hour		5.2	5.1	4.8	4.8	(2)	4.1	4.8	4.9	4.6	5.0	(²)
Real compensation per hour		.6	.3	.4	6	(²)	.2	.9	.7	.2	.2	(2)
Total unit costs		3.9	3.9	5.2	6.9	(2)	.5	1.6	2.6	3.1	5.0	(2)
Unit labor costs		4.5	3.6	5.3	6.6	(2)	.1	1.7	2.8	3.1	5.0	(2)
Unit nonlabor costs		2.5	4.6	4.9	7.5	(²)	1.5	1.4	2.2	3.3	4.9	(2)
Unit profits		6.8	-4.7	13.3	-31.7	(²)	7.5	5.4	-1.3	7.9	-5.8	(2)
Implicit price deflator	1.1	4.2	3.1	5.9	2.8	(²)	1.1	2.0	2.2	3.5	4.0	(2)

The productivity and cost measures incorporate revised output and compensation measures reported by the Bureau of Economic Analysis of the U.S. Department of Commerce; revised data for employees of nonagricultural establishments; and a redefinition of labor input to hours at work.

SOURCE: Office of Productivity and Technology (202 523 9261).

² Not available.

⁼preliminary.

⁼revised.

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

(Numbers in thousands)

	0:	W 1-b 4-				Unem	oloyea		
State and area	Civ	ilian labor fo	rce		Number			Percent of labor force	
	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p
Alabama	4 004 0	4.044.0	4 000 0		4400		7.0		7.4
Alabama	1,891.6	1,911.8	1,936.0	144.1	119.6	144.1	7.6	6.3	7.4
Birmingham	438.6	445.7	453.0	28.1	23.2	26.7	6.4	5.2	5.9
Huntsville	133.4	137.5	139.3	7.7	5.7	7.6	5.8	4.2 7.9	5.4
Mobile	208.5	210.1	212.6	19.9	16.5	18.9	9.5		8.9
Montgomery Tuscaloosa	137.1 68.1	138.5 72,4	138.8 71.2	9.3 4.2	8.4 3.9	9.6 4.1	6.8 6.1	6.0 5.3	6.9 5.7
	00.1	7 2,7	, ,,,,	7.2	3.3	7.1	0.1	3.5	
Alaska	247.5	240.3	246.3	22.6	18.6	17.3	9.1	7.7	7.0
Arizona	1,666.8	1,740.7	1,729.0	118.0	80.2	98.6	7.1	4.6	5.7
Phoenix	1,040.4	1,079.3	1,078.0	58.3	40.2	48.7	5.6	3.7	4.5
Tucson	312.0	329.7	326.2	17.5	12.8	15.6	5.6	3.9	4.8
Arkansas	1,138.8	1,175.8	1,195.6	94.0	94.3	100.2	8.3	8.0	8.4
Fayetteville-Springdale	61.2	63.9	64.0	2.9	2.7	2.9	4.7	4.2	4.5
Fort Smith	94.7	94.4	96.0	6.0	7.9	7.6	6.4	8.3	7.9
Little Rock-North Little Rock	268.1	278.0	282.8	19.0	20.0	21.7	7.1	7.2	7.7
Pine Bluff	37.9	39.1	40.2	3.5	3.4	3.8	9.3	8.7	9.5
California¹	14,078.6	14,259.3	14,355.9	765.3	735.5	785.9	5.4	5.2	5.5
Anaheim-Santa Ana	1,355.9	1,373.6	1,382.5	43.9	42.0	46.5	3.2	3.1	3.4
Bakersfield	230.5	231.3	238.3	22.3	22.3	26.5	9.7	9.6	11.1
Fresno	312.7	310.6	314.6	31.7	30.2	29.4	10.1	9.7	9.4
Los Angeles-Long Beach	4,096.1	4,144.1	4,152.8	208.3	192.3	208.6	5.1	4.6	5.0
Modesto	162.3	163.9	167.1	21.0	21.5	21.3	12.9	13.1	12.7
Oakland	1,071.7	1,097.6	1,106.8	52.5	49.7	53.2	4.9	4.5	4.8
Oxnard-Ventura	357.5	362.8	366.2	18.3	17.1	19.0	5.1	4.7	5.2
Riverside-San Bernardino	954.2	965.3	977.4	58.5	57.2	64.6	6.1	5.9	6.6
Sacramento	706.0	727.0	732.3	38.6	37.6	38.8	5.5	5.2	5.3
San Diego	1,125.3	1,159.1	1,167.7	50.8	47.4	50.6	4.5	4.1	4.3
San Francisco	884.3	887.7	891.2	34.0	31.0	33.2	3.8	3.5	3.7
San Jose	839.9	841.2	843.2	35.4	33.9	36.4	4.2	4.0	4.3
Santa Barbara-Santa Maria-Lompoc	180.5	181.1	181.4	7.4	7.6	7.3	4.1	4.2	4.0
Santa Rosa-Petaluma	196.0	194.6	196.4	9.7	8.9	9.5	5.0	4.6	4.8
Stockton	200.8	203.0	202.2	20.1	19.6	20.8	10.0	9.7	10.3
Vallejo-Fairfield-Napa	193.8	197.5	200.8	10.9	10.4	11.7	5.6	5.3	5.8
Colorado	1,715.4	1,640.2	1,651.1	110.2	99.5	110.4	6.4	6.1	6.7
Boulder-Longmont	130.8	127.0	126.4	6.4	5.9	6.8	4.9	4.7	5.4
Denver	891.7	846.0	850.7	53.9	47.7	54.0	6.0	5.6	6.3
Connecticut	1,805.0	1,781.6	1,819.0	58.1	51.8	61.1	3.2	2.9	3.4
Bridgeport-Milford	238.9	234.8	239.0	9.1	8.8	9.7	3.8	3.8	4.1
Hartford	437.8	431.6	439.5	13.5	11.3	13.4	3.1	2.6	3.0
New Britain	74.7	73.7	74.8	2.4	2.4	2.7	3.2	3.3	3.5
New Haven-Meriden	284.1	282.7	289.4	8.8	7.9	9.4	3.1	2.8	3.3
Stamford	119.6	116.2	119.0	2.9	2.4	2.8	2.4	2.0	2.3
Waterbury	102.7	102.3	104.6	4.1	3.8	4.4	4.0	3.7	4.2
Delaware	353.1	357.0	363.2	10.0	10.6	14.0	2.8	3.0	3.8
Wilmington	302.9	304.7	307.3	10.3	9.5	13.2	3.4	3.1	4.3
District of Columbia	342.4	325.2	333.4	15.4	17.9	17.5	4.5	5.5	5.3
Washington	2,221.8	2,238.9	2,296.8	64.4	62.0	68.7	2.9	2.8	3.0
Florida ¹	6,153.0	6,247.2	6,380.5	295.7	386.5	386.7	4.8	6.2	6.1
Daytona Beach	154.7	155.3	158.6	6.6	9.4	9.0	4.3	6.1	5.6
Fort Lauderdale-Hollywood-Pompano Beach	640.6	642.3	654.6	25.4	37.7	35.2	4.0	5.9	5.4
Fort Myers-Cape Coral	140.2	147.0	149.3	4.3	6.1	6.1	3.1	4.2	4.1
Jacksonville	465.5	463.2	476.2	23.6	29.3	29.3	5.1	6.3	6.2
Melbourne-Titusville-Palm Bay	186.5	189.3	194.9	8.1	11.1	10.7	4.3	5.8	5.5
Miami-Hialeah	947.8	959.1	974.4	48.5	69.2	65.5	5.1	7.2	6.7
Orlando	588.7	591.4	608.2	27.4	35.0	32.1	4.7	5.9	5.3
Pensacola	151.2	148.5	151.2	8.8	10.8	10.4	5.8	7.3	6.9
Sarasota	123.3	124.3	126.8	4.0	5.1	4.9	3.2	4.1	3.9
Tallahassee	130.4	131.4	136.3	4.6	6.3	6.6	3.5	4.8	4.8
Tampa-St. Petersburg-Clearwater	1,004.5	1,014.3	1,029.6	44.6	56.9	53.6	4.4	5.6	5.2
West Palm Beach-Boca Raton-Delray Beach	401.6	427.9	437.4	20.4	27.7	√ 30.9	5.1	6.5	7.1

STATE AND AREA LABOR FORCE DATA NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

		ion labor for	aa 1		Percent of						
State and area	CIVII	ian labor for	ue		Number			Percent of labor force			
	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^e	June 1988	May 1989	Jun- 1989		
to another	0.405.0	0.004.7	0.050.0	407.0	460.0	104.0	6.0	E 2	6.		
ieorgia	3,195.0	3,224.7	3,252.8	197.9	168.0	194.2	6.2	5.2	4.		
Athens	74.0	76.6	76.2	3.1	3.2	3.5	4.2	4.2			
Atlanta	1,512.6	1,525.2	1,535.5	82.9	74.4	87.0	5.5	4.9	5.		
Augusta	183.5	182.3	184.2	12.3	9.6	10.8	6.7	5.2	5.		
Columbus	102.8	102.2	103.0	7.1	5.3	5.9	6.9	5.1	5.		
Macon-Warner Robins		134.0	134.7	7.7	6.8	6.7	5.9	5.1	4		
Savannah	115.7	113.5	114.7	8.3	5.6	6.7	7.2	4.9	5		
lawaii	518.1	521.0	528.4	18.7	16.6	15.6	3.6	3.2	3		
Honolulu	385.0	384.3	389.5	12.3	11.0	10.4	3.2	2.9	2		
daho	486.8	488.7	493.0	24.9	24.4	24.0	5.1	5.0	3		
Boise City	104.5	110.8	110.0	3.9	3.8	3.7	3.7	3.4	3		
llinois¹		5,877.8	6,004.0	401.1	348.0	346.0	6.9	5.9	5		
Aurora-Elgin	179.9	185.9	192.1	9.4	9.2	9.4	5.2	4.9	4		
Bloomington-Normal		73.2	75.0	3.0	3.4	3.1	4.5	4.7	4		
Champaign-Urbana-Rantoul		91.7	94.6	3.7	3.5	3.5	4.3	3.8	3		
Chicago		3,232.8	3,310.5	210.5	182.4	178.2	6.6	5.6	5		
Davenport-Rock Island-Moline		180.4	182.7	13.6	10.8	11.6	7.5	6.0	Ì		
Decatur	58.0	59.0	60.1	4.8	4.2	4.4	8.3	7.1	7		
Joliet		196.5	198.8	14.7	13.0	12.8	7.6	6.6	l é		
									7		
Kankakee		45.4	46.1	4.3	3.5	3.6	9.6	7.7			
Lake County		287.4	293.1	12.6	10.7	11.4	4.5	3.7	3		
Peoria		159.8	163.1	10.8	9.1	9.3	6.9	5.7	5		
Rockford		147.7 110.2	153.2 113.1	10.9 5.5	8.4 5.0	8.8 5.2	7,3 5.0	5.7 4.6	5		
•								4.0	١,		
Anderson	2,882.8	2,935.5 61.6	2,997.6 63.9	124.9 3.0	117.0 2.8	99.4 2.5	4.3 5.0	4.0 4.6	3		
								3.1			
Bloomington		66.5	68.0	1.7	2.1	1.4	2.9				
Elkhart-Goshen	. 100.8	102.4	104.3	3.1	4.0	4.3	3.1	3.9	4		
Evansville		148.3	151.2	8.1	6.5	5.5	5.5	4.4	3		
Fort Wayne	. 203.7	207.7	213.1	7.8	6.9	6.3	3.8	3.3	1 3		
Gary-Hammond	. 262.3	268.3	274.0	13.9	12.1	9.9	5.3	4.5	3		
Indianapolis	. 690.9	704.4	721.2	27.2	23.6	19.9	3.9	3.4	1 2		
Lafayette-West Lafayette		70.1	70.2	1.7	2.1	1.7	2.6	3.0	1 2		
Muncie		62.7	61.3	2.8	2.6	2.1	4.6	4.1	1 3		
South Bend-Mishawaka		137.5	143.5	5.4	5.0	4.7	4.1	3.7	1 3		
Terre Haute		61.1	61.8	3.0	2.6	2.0	4.9	4.2	3		
owa	. 1,523.5	1,530.3	1,527.8	67.0	55.0	66.5	4.4	3.6	4		
Cedar Rapids		97.0	96.3	3.7	3.2	3.7	3.8	3.3	1 3		
Des Moines		235.7	237.2	8.6	8.0	9.7	3.7	3.4	1		
Dubuque		44.5	43.8	2.3	2.2	2.5	5.3	4.9			
Sioux City		60.3	59.9	3.3	2.2	2.7	5.4	3.5	'		
Waterloo-Cedar Falls		72.3	69.9	3.9	3.3	3.7	5.7	4.5			
Kansas	. 1,299.5	1,283.8	1.316.8	66.4	52.2	64.4	5.1	4.1	4		
Topeka		92.4	94.0	4.5	4.1	4.7	4.8	4.4	5		
Wichita		258.3	264.8	14.3	10.7	12.7	5.6	4.2	'		
Kentucky		1,738.8	1,762.9	161.2	114.8	128.7	9.1	6.6	:		
Lexington-Fayette	199.0	203.0	202.5	11.1	7.6	9.0	5.6	3.8	•		
Louisville		515.8	535.1	35.7	27.8	38.6	6.9	5.4	:		
Owensboro		44.5	45.0	4.5	3.1	3.2	10.1	7.1	1		
Louisiana		1,895.2	1,939.2	220.9	178.1	184.6	11.3	9.4	,		
Alexandria	61.1	60.0	61.3	6.1	5.6	5.7	10.0	9.3	1 :		
Baton Rouge	272.5	267.7	271.2	26.6	21.2	23.0	9.8	7.9	8		
Houma-Thibodaux		69.6	70.7	7.9	6.4	5.9	11.1	9.2	1 1		
Lafayette		99.3	100.0	9.9	8.2	8.0	9.9	8.3	(
Monroe		66.9	70.0	7.6	5.9	6.2	10.9	8.9			
New Orleans		591.2	603.1	61.3	50.4	51.6	10.1	8.5			
Shreveport		158.4	162.0	18.0	15.1	15.4	10.9	9.5			
	612.9	601.7	620.0	19.4	23.1	23.4	3.2	3.8	;		
Maine	1012.7										
Maine Lewiston-Auburn		41.4	41.3	1.7	2.0	2.0	4.0	4.8	.		

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

(Numbers in thousands)

	Civi	ilian labor fo	rce			Unem	Jioyea		
State and area	Civi	man labor lo	ice		Number	***		Percent of labor force	
	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989
Maryland	2,488.1	2,503.1	2,566.6	114.4	97.2	111.0	4.6	3.9	4.3
Baltimore	1,197.4	1,195.7	1,223.0	62.1	51.3	58.1	5.2	4.3	4.8
Massachusetts ¹	3,211.8	3,169.5	3,223.1	110.0	107.9	126.5	3.4	3.4	3.9
Boston	1,580.8	1,562.1	1,571.8	47.5	45.9	53.6	3.0	2.9	3.4
BrocktonFall River	100.3	100.4	101.9 77.9	4.3	4.0	4.9 4.3 I	4.3 5.1	4.0 4.9	4.4 5.5
Fitchburg-Leominster	77.6 49.5	76.6 47.8	48.8	4.0 2.1	3.7 2.3	2.8	4.3	4.9	5.
Lawrence-Haverhill	191.6	189.5	193.7	8.2	8.8	10.4	4.3	4.6	5.
Lowell	155.5	155.6	157.6	6.0	6.1	7.1	3.8	3.9	4.
New Bedford	86.8	87.6	89.4	4.2	4.3	4.8	4.8	5.0	5.
Pittsfield	41.7	40.5	41.9	2.0	1.7	1.8	4.8	4.1	4.
Springfield	257.8	252.7	254.7	8.6	8.7	10.4	3.3	3.5	4.
Worcester	225.7	229.6	233.7	7.2	7.2	9.2	3.2	3.1	3.
Alchigan¹	4,612.8	4,578.2	4,678.4	327.8	293.1	351.0	7.1	6.4	7.
Ann Arbor	162.0	163.9	162.8	6.0	5.5	8.1	3.7	3.3	5.
Battle Creek	64.8	64.0	66.2	4.2	4.2	5.5	6.5	6.6	8.
Benton Harbor	80.2	80.1	81.1	5.0	5.4	6.3	6.3	6.8	7.
Detroit	2,215.5	2,196.6	2,245.4	162.4	142.7	171.3	7.3	6.5	7.
Flint	196.9	186.1	189.8	29.7	16.7	18.9	15.1	9.0	10.
Grand Rapids	363.2	363.0	368.8	18.8	16.7	21.0	5.2	4.6	5.
Jackson	65.3	66.0	67.1	4.3	4.1	5.0	6.6	6.3	7.
Kalamazoo	116.6 244.3	117.1	119.6	5.2	5.3	6.8	4.4 5.4	4.5	5. 6.
Lansing-East Lansing Muskegon	69.1	244.7 67.4	250.0 69.1	13.3 6.0	11.5 5.8	15.4 6.7	8.6	4.7 8.6	9.
Saginaw-Bay City-Midland	184.7	181.8	186.1	12.6	11.5	14.2	6.8	6.3	7.
Ainnesota	2.344.3	2.313.0	2,368.3	95.4	100.2	115.0	4.1	4.3	4.
Duluth	106.9	107.0	108.9	6.7	6.4	6.7	6.2	6.0	6.
Minneapolis-St.Paul	1,385.6	1,379.4	1,410.0	49.0	53.1	62.1	3.5	3.9	4.
Rochester	61.0	60.5	61.5	1.8	1.8	2.3	2.9	2.9	3.
St. Cloud	94.8	95.9	95.3	4.3	4.8	4.9	4.6	5.0	5.
Mississippi Jackson	1,156.6 202.5	1,157.4 201.8	1,202.9 209.9	103.4 12.9	94.3 11.3	118.0 13.9	8.9 6.4	8.1 5.6	9. 6.
Aissouri	2,613.4	2,606.7	2,649.2	145.3	130.7	140.1	5.6	5.0	5.
Kansas City	850.4	845.9	866.9	46.6	39.7	47.3	5.5	4.7	5.
St. Louis LMA	1,257.2	1,256.1	1,274.4	76.2	66.1	69.5	6.1	5.3	5.
Springfield	119.8	124.8	124.0	4.9	5.3	5.4	4.1	4.3	4.
Montana	408.2	402.3	409.1	26.0	22.1	24.4	6.4	5.5	6.
lebraska	822.5	813.4	821.2	30.0	20.6	29.4	3.6	2.5	3.
Lincoln	124.4 328.9	126.8 326.1	125.5 329.2	3.5 14.1	2.9 9.7	3.9 13.6	2.8 4.3	3.0	4.
levada	590.2	610.9	605.1	30.7	30.4	31.8	5.2	5.0	5.
Las Vegas	342.7	359.7	354.1	19.9	18.5	19.5	5.8	5.1	5.
Reno	140.9	143.4	142.8	6.0	6.5	6.6	4.3	4.5	4.
lew Hampshire	608.1	617.4	634.5	15.2	17.9	21.3	2.5	2.9	3.
Manchester	85.5	86.5	87.8	1.9	2.5	2.9	2.2	2.9	3.
Nashua Portsmouth-Dover-Rochester	100.5 136.8	100.3 135.0	102.9 138.3	3.3 2.4	3.2 2.9	3.7 3.6	3.3 1.7	3.2 2.1	3.
								}	
lew Jersey ¹	4,022.4 185.5	3,972.1 179.1	4,037.7 192.2	146.7 8.2	120.0 6.7	166.2 9.4	3.6 4.4	3.0 3.7	4
Bergen-Passaic	724.4	720.7	728.2	22.6	19.9	27.2	3.1	2.8	3
Jersey City		267.7	271.8	17.0	13.6	17.7	6.3	5.1	6.
Middlesex-Somerset-Hunterdon		568.9	575.0	14.7	12.0	16.6	2.6	2.1	2.
Monmouth-Ocean	494.4	482.6	498.2	15.4	12.8	17.9	3.1	2.6	3.
Newark	958.3	940.9	951.5	36.9	30,0	42.4	3.8	3.2	4
Trenton	175.2 58.6	172.3 58.3	173.0 59.0	4.7 3.8	4.0 3.1	5.4 3.9	2.7 6.5	2.3 5.3	3
·									
lew Mexico		691.6 263.8	700.1 268.3	65.9 19.4	44.5 12.9	51.9 16.0	9.3 7.2	6.4 4.9	7
Las Cruces		56.7	56.8	5.6	3.7	4.4	9.8	6.5	7
Las Cluces				5.0	3.7	7,7 (0.0	0.0	

STATE AND AREA LABOR FORCE DATA NOT SEASONALLY ADJUSTED

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

(Numbers in thousands)

	0:.4					Unemp			
State and area	Civil	ian labor for	ce		Number			Percent of labor force	
	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989
ew York ¹	8.569.9	8,587.0	8,771.5	289.8	447.6	411.1	3.4	5.2	4.
Albany-Schenectady-Troy	423.9	428.1	439.2	12.2	17.6	17.3	2.9	4.1	3.
	128.0	127.9	129.9	3.7	6.5	5.6	2.9	5.1	4.
Binghamton	448.9		464.0	17.8	27.6	25.3	4.0	8.1	5
Buffalo		454.6				1.9	3.3	4.5	4
Elmira	42.1	43.6	45.2	1.4	2.0				4
Nassau-Suffolk	1,450.8	1,439.1	1,474.8	39.1	61.3	58.7	2.7	4.3	5
New York	3,927.7	3,909.8	3,988.9	143.1	216.3	198.8	3.6	5.5	5
New York City	3,238.7	3,232.4	3,291.0	127.1	190.3	173.8	3.9	5.9	
Orange County	135.0	136.4	140.4	3.9	6.7	6.7	2.9	4.9	4
Poughkeepsie	129.8	129.8	132.8	2.7	4.6	4.2	2.0	3.5	3
Rochester	503.1	510.2	519.3	15.3	21.6	20.3	3.0	4.2	3
Syracuse	316.2	318.8	324.1	11.0	16.1	14.5	3.5	5.1	4
Utica-Rome	136.6	138.3	140.4	4.6	7.4	6.3	3.4	5.4	4
orth Carolina¹	3,360.6	3,441.4	3,489.2	117.0	117.7	130.8	3.5	3.4	3
Asheville	90.2	91.7	94.0	2.6	2.3	2.8	2.9	2.5	
Charlotte-Gastonia-Rock Hill	633.2	657.3	668.0	20.3	20.4	24.3	3.2	3.1	3
Greensboro-Winston-Salem-High Point	525.9	535.0	538.3	16.0	18.0	19.2	3.0	3.4	3
Raleigh-Durham	398.8	413.8	418.1	10.6	11.4	11.8	2.7	2.7	2
orth Dakota	336.6	328.8	340.3	16.3	12.2	15.4	4.8	3.7	4
Bismarck	45.8	46.0	47.7	2.3	1.6	2.2	4.9	3.6	
Fargo-Moorhead	83.8 34.8	86.1 35.6	86.3 35.4	2.6 1.6	2.2 1.3	2.4 1.5	3.1 4.7	2.6 3.6	
hio¹	5,352.5	5,419.1	5,536.9	324.8	276.5	321.0	6.1	5.1	, ا
Akron	322.0	333.1	335.0	19.1	16.6	18.7	5.9	5.0	
Canton	191.5	194.6	198.4	13.1	11.3	12.4	6.8	5.8	l è
	770.7	788.8	803.1	44.7	34.3	39.8	5.8	4.3	,
Cincinnati				53.5	41.8	48.6	5.7	4.4	ì
Cleveland	936.6	942.2	963.9			37.5	4.9	4.4	
Columbus	711.8	729.9	745.3	35.0 24.3	32.2	26.4	5.2	4.6	}
Dayton-Springfield	467.8	478.6	488.8		22.2			5.4	``
Toledo	308.9 223.3	318.7 225.1	323.6 229.5	17.6 15.6	17.2 13.6	19.9 15.3	5.7 7.0	6.0	
klahoma	1,529.3	1,513.1	1,546.6	108.5	90.3	86.6	7.1	6.0	, ا
Enid	28.8	27.7	28.6	1.7	1.3	1.3	5.8	4.7	2
Lawton	48.9	48.7	50.2	3.0	2.4	2.3	6.2	5.0	2
Oklahoma City	496.6	489.0	496.4	29.1	24.4	23.0	5.9	5.0	, ,
Tulsa		339.1	348.5	27.5	21.6	20.3	8.1	6.4	
Pregon	1,428.9	1,452.3	1,475.8	84.1	75.6	77.5	5.9	5.2	,
Eugene-Springfield		146.5	147.6	8.2	7.0	7.4	5.8	4.8	
Portland	646.2	663.4	669.8	31.8	26.6	29.0	4.9	4.0	
Salem	134.6	135.3	141.2	8.1	7.4	7.6	6.0	5.5	1
ennsylvania¹	5,814.1	5,854.3	5,981.0	326.8	255.9	272.2	5.6	4.4	
Allentown-Bethlehem	329.5	333.2	339.6	17.1	13.9	14.6	5.2	4.2	.
Altoona		59.8	61.6	4.7	3.5	3.4	7.7	5.8	1
Beaver County	61.2	59.5	60.7	6.0	4.1	4.4	9.9	6.9	1
Erie	130.4	132.4	134.9	8.8	6.4	6.9	6.7	4.8	
Harrisburg-Lebanon-Carlisle	321.0	328.9	334.3	13.1	12.5	11.6	4.1	3.8	
Johnstown		96.5	99.1	7.8	6.2	6.9	8.1	6.4	1
Lancaster	220.4	225.8	229.3	9.1	6.8	7.5	4.2	3.0	1
Philadelphia		2,428.4	2,477.6	114.3	85.6	99.0	4.7	3.5	.
Pittsburgh	974.1	972.7	997.2	59.7	42.9	46.7	6.1	4.4	
Reading		178.9	181.9	8.6	8.0	7.1	5.0	4.5	
Scranton-Wilkes-Barre		362.1	371.2	23.5	18.8	20.5	6.5	5.2	
Williamsport		60.8	62.3	3.1	3.4	3.5	5.3	5.6	ĺ
York		224.1	226.0	9.7	8.9	9.3	4.5	4.0	
hode Island		534.2	532.3	15.5	22.4	19.9	3.0	4.2	
Pawtucket-Woonsocket-Attleboro		168.8 349.0	166.7 347.6	6.2 10.0	8.2 14.2	8.1 12.5	3.7 2.9	4.9 4.1	
Charleston		1,724.9	1,759.4	78.6	63.8	87.7	4.6	3.7	
Charleston		239.7	244.5	9.7	8.0	11.0	4.2	3.3	
Columbia		244.1 347.8	247.2 355.5	7.8 11.8	6.8 9.9	9.3	3.3 3.5	2.8 2.8	
South Dakota	ì	367.1	373.0	13.1	13.8	15.8	3.6	3.7	
Rapid City		40.3	41.0	1.4	1.6	1.6	3.6	3.9	
									i

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

(Numbers in thousands)

	.	P 1-1 2-				Oneni	oloyed		
State and area	Civi	lian labor for	rce		Number			Percent of labor force	,
	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	June 1989 ^p	June 1988	May 1989	Jur 1989
ennessee	2,392.5	2,346.4	2,362.0	172.7	128.2	130,6	7.2	5.5	5
Chattanooga	215.9	213.4	214.2	14.7	12.1	12.3	6.8	5.7	5
Johnson City-Kingsport-Bristol	218.5	215.4	215.6	14.9	11.1	10.6	6.8	5.2	2
Knoxville	289.9	282.2	285.5	18.8	16.2	16.4	6.5	5.7	
Memphis LMA	449.2	447.0	449.6	29.1	23.6	23.9	6.5	5.3	
Nashville	532.6	514.5	515.6	30.8	21.0	21.7	5.8	4.1	
xas¹	8,556.8	8,233.2	8,332.9	682.6	489.4	587.7	8.0	5.9	
Abilene	54.1	53.0	52.9	3.8	3.1	3.7	7.1	5.9	'
Amarillo	102.8	96.9	98.6	6.2	4.7	5.6	6.1	4.8	
Austin	437.3	420.3	420.5	29.8	21.1	25.0	6.8	5.0	
Beaumont-Port Arthur	167.8	160.9	162.3	18.6	13.6	15.9	11.1	8.5	
Brazoria	85.0	83.6	84.8	7.6	5.3	6.5	9.0	6.3	
Brownsville-Harlingen	102.1	98.2	99.5	14.7	10.3	12.6	14.4	10.5	1
Bryan-College Station	57.6	60.2	58.6	3.1	2.5	2.8	5.3	4.1	'
Corpus Christi	164.7	157.6	159.3	17.6	12.1	14.5	10.7	7.7	
Dallas	1,506.5	1,435.4	1,450.3	97.7	68.5	83.7	6.5	4.8	
				29.7		26.5		9.0	1
El Paso	250.5	237.9	242.8		21.5		11.9		
Fort Worth-Arlington	710.6	685.2	694.7	49.6	33.7	41.1	7.0	4.9	
Galveston-Texas City	114.3	106.1	107.4	11.1	7.3	8.3	9.7	6.9	ļ
Houston	1,666.3	1,618.1	1,646.7	127.8	86.0	104.5	7.7	5.3	
Killeen-Temple	97.8	95.4	96.9	8.2	6.3	7.5	8.4	6.6	
Laredo	48.0	47.6	48.4	6.6	4.9	5.7	13.7	10.3	1
Longview-Marshall	81.9	77.6	79.3	7.6	6.1	7.2	9.2	7.8	i
Lubbock	116.2	113.3	114.1	7.0	4.8	6.4	6.0	4.3	1
McAllen-Edinburg-Mission	156.3	154.4	157.7	24.0	20.4	23.2	15.3	13.2] 1
Midland	50.6	48.4	48.9	3.1	2.8	3.2	6.2	5.8]
Odessa	55.6	51.6	52.4	4.5	3.9	4.7	8.1	7.6	1 .
San Angelo	46.2	44.6	44.9	3.0	2.3	2.7	6.5	5.3	
San Antonio	628.1	607.4	614.2	55.7	39.4	48.7	8.9	6.5	
Sherman-Denison	50.5	47.1	47.4	3.4	2.4	2.9	6.8	5.1	
Texarkana	59.6	57.6	59.1	5.2	4.1	4.7	8.8	7.1	
Tyler	76.7	74.2	74.8	6.4	4.7	5.4	8.3	6.4	
				3.0	2.0	2.3	8.0	5.5	
Victoria	37.2	35.7	36.1				8.1	5.0	
Waco	94.4 59.4	91.8 56.9	91.9 57.0	7.7 3.7	4.5 3.2	5.7 3.5	6.2	5.7	
tah	760.2	767.4	778.8	35.8	39.4	31,3	4.7	5.1	
Provo-Orem	102.6	104.9	106.4	4.0	4.4	3.9	3.9	4.2	
Salt Lake City-Odgen	498.2	501.7	511.1	22.5	24.6	19.7	4.5	4.9	
ermont	302.0	304.1	312.3	7,1	10.8	11.9	2.4	3.6	
Burlington	75.9	76.0	77.3	1.4	2.1	2.3	1.8	2.8	
rginia	3,129.8	3,105.8	3,174.1	114.7	106.5	114.7	3.7	3.4	
Charlottesville	66.5	67.7	66.8	1.7	1.9	1.4	2.6	2.9	
Danville	53.1	52.9	53.8	3.5	3.1	3.2	6.5	5.8	
Lynchburg	71.9	70.7	71.9	3.6	2.7	2.8	5.0	3.9	
Norfolk-Virginia Beach-Newport News	620.1	608.1	625.9	26.4	24.8	26.9	4.3	4.1	
Richmond-Petersburg	443.5	449.0	457.9	14.1	14.7	16.3	3.2	3.3	
Roanoke	123.4	121.1	123.4	4.6	3.8	4.4	3.7	3.2	
ashington	2,301.7	2,441.5	2,437.9	141.8	132.9	132.7	6.2	5.4	
Seattle	1,008.0	1,098.7	1,086.2	51.2	49.0	47.8	5.1	4.5	
est Virginia	754.8	765.7	772.8	74.5	62.0	62.4	9.9	8.1	
Charleston	116.6	119.8	121.6	10.0	8.3	8.1	8.6	6.9	
Huntington-Ashland	126.9	129.2	129.8	11.3	8.7	8.8	8.9	6.8	
Parkersburg-Marietta	71.5	72.8	74.0	5.1	4.6	4.9	7.2	6.4	
Wheeling	72.1	72.5	73.2	5.8	4.5	4.9	8.0	6.2	
isconsin	2,630.5	2,619.6	2,682.6	99.2	114.8	120.9	3.8	4.4	
Appleton-Oshkosh-Neenah	174.9	174.7	178.7	5.7	7.3	7.8	3.3	4.2	
Eau Claire	73.5	74.7	75.4	2.8	3.0	3.0	3.8	4.0	
Green Bay	109.0	110.0	112.5	3.9	4.7	4.5	3.6	4.2	
Janesville-Beloit	75.1	74.9	76.1	3.1	4.6	5.2	4.2	6.1	
Kenosha	56.2	55.3	54.2	2.6	4.9	4.7	4.7	8.9	
La Crosse	57.4	59.8	60.8	1.9	2.2	2.6	3.4	3.7	
Madison	224.9	226.5	229.7	5.5	5.6	6.0	2.4	2.5	ł
Milwaukee	774.2	778.6	797.3	27.9	30.7	35.1	3.6	3.9	
	91.6	92.5	94.8	3.8	4.7	5.0	4.2	5.0	
Racine									1
Wausau	63.4	64.1	65.0	2.6	2.9	2.8	4.1	4.5	

<sup>Data are obtained directly from the Current Population Survey. See the Explanatory Notes for State and Area Labor Force Data.

Not available.

P = preliminary.

NOTE: Data refer to place of residence. Estimates for 1988 have been</sup>

benchmarked to 1988 Current Population Survey annual averages. Except in the 11 States designated by footnote 1, estimates for 1989 are provisional and will be revised when new benchmark information becomes available. Area definitions are published annually in the May issue of this publication.

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 over about 55,800 households, representing 729 areas in 1,973 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

Data based on establishment records are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of over 300,000 establishments employing over 38 million nonagricultural wage and salary workers. The data relate to all workers, full or part time, who received pay during the payroll period which includes the 12th day of the month.

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

Employment

Coverage. The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises, and members of the Armed Forces stationed in the United States. Civilian employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of nonagricultural establishments.

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

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

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

Hours of work

The household survey measures hours actually worked whereas the payroll survey measures hours paid for by

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

Earnings

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

COMPARABILITY OF 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 Economics and Statistics Service series and the treatment of dual jobholders, who are counted more than once if they work on more than one farm during the reporting period. There are also wide differences in sampling techniques and collecting and estimating methods which cannot be readily measured in terms of their impact on differences in the levels and trends of the two series.

COMPARABILITY OF 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 sample surveys of manufacturing and business establishments. The major reasons for noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the BLS statistics.

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

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

Household Data (A tables)

COLLECTION AND COVERAGE

Statistics on the employment status of the population, the personal, occupational, and other characteristics of the employed, the unemployed, and persons not in the labor force, and related data are compiled for the BLS by the Bureau of the Census in its Current Population Survey (CPS). A detailed description of this survey appears in Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey, BLS Report 463. Historical national data are published in Labor Force Statistics Derived From the Current Population Survey: A Databook, BLS Bulletin 2096.

These monthly surveys of the population are conducted through 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. The inquiry relates to activity or status during the calendar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

Inmates of institutions and persons under 16 years of age are not covered in the regular monthly enumerations, and are excluded from the population and labor force statistics shown in this publication. Data on the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force," and "total employment." are obtained from the Department of Defense.

Each month about 55,800 occupied units are eligible for interview. About 2,600 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 and 5 percent. In addition to the 55,800 occupied units, there are 11,500 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

CONCEPTS AND DEFINITIONS

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

Employed persons are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family; and (b) all those who

were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor- management disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

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

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

Unemployed persons are all civilians who had no employment during the survey week, were available for work, except for temporary illness, and had made specific efforts to find employment some time during the prior 4 weeks. Persons who were waiting to be recalled to a job from which they had been laid off or were waiting to report to a new job within 30 days need not be looking for work to be classified as unemployed.

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

Unemployment is also categorized according to the status of individuals at the time they began to look for work. The reasons for unemployment are divided into four major groups. (1) Job losers are persons whose employment ended involuntarily who immediately began looking for work, and persons on layoff. (2) Job leavers are persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work. (3) Reentrants are persons who previously worked at a full-time job lasting 2 weeks or longer but were out of the labor force prior to beginning to look for work. (4) New entrants are persons who never worked at a full-time job lasting 2 weeks or longer. Each of these four categories of the unemployed may be expressed as an unemployment rate or proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers.

Jobseekers are all unemployed persons who made

specific efforts to find a job sometime during the 4-week period preceding the survey week. Jobseekers do not include those persons unemployed because they (a) were waiting to be called back to a job from which they had been laid off or (b) were waiting to report to a new job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some other method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated labor pickup point.

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

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

The unemployment rate for all civilian workers represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, race, Hispanic origin, marital status, etc.

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

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

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

For persons not in the labor force, data on previous work experience, intentions to seek work, desire for a job at the time of interview, and reasons for not looking for work are published on a quarterly basis. As of January 1970, the detailed questions for persons not in the labor force are asked only in those households that are in the fourth and eighth months of the sample, i.e., the "outgoing" groups, those which had been in the sample for 3 previous months and would not be in for the subsequent month. Between 1967 and 1969, these questions were asked in those households entering the sample for the first time and those returning for the second 4 months of interviewing, i.e., the "incoming" groups.

Occupation, industry, and class of worker for the employed apply to the job held in the survey week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours during the survey week. The unemployed are classified according to their last full-time job lasting 2 weeks or more. The classifications of occupations and industries used in data derived from the CPS are defined as in the 1980 census. Information on the detailed categories included in these groups is available upon request.

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

Hours of work statistics relate to the actual number of hours worked during the survey week. For example, persons who normally work 40 hours a week but were off on the Columbus Day holiday would be reported as working 32 hours even though they were paid for the holiday. For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week; all the hours are credited to the major job.

Persons who worked 35 hours or more during the survey week are designated as working full time. Persons who worked between 1 and 34 hours are designated as working part time. Part-time workers are classified by their usual status at their present job (either full or part time) and by their reason for working part time during the survey week (economic or noneconomic 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. Noneconomic reasons include: Labor dispute, bad weather, own illness, vacation, demands of home or school, no desire for full-time work, and fulltime worker only during peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1 to 34 hours for noneconomic reasons and usually work full time.

Data on employment "at work" differ from data on total employment because they exclude persons in the zero-hours-

worked category, "with a job but not at work." These are persons who were absent from their jobs for the entire week for such reasons as bad weather, vacation, illness, or involvement in a labor dispute.

Employed persons are also categorized into full- and parttime groupings based primarily on their usual status. In this context, full-time workers are those who (a) worked 35 hours or more during the survey week, (b) worked 1 to 34 hours for economic or noneconomic reasons, but usually work full time, and (c) were with a job but not at work and usually work full time. Similarly, part-time workers are those who (a) voluntarily worked 1 to 34 hours during the survey week, (b) worked 1 to 34 hours for economic reasons, but usually work part time, i.e., persons who could only find part-time work; and (c) were with a job but not at work and usually work part time.

Unemployment rates for full- and part-time workers are calculated using the concepts of the full- and part-time labor force which are based on the type of job—full or part-time—that persons—whether working or unemployed—report that they want. The "full-time labor force" includes all persons working part time but who desire full-time work, that is, working part time for economic reasons. Thus, this category consists of persons on full-time schedules; all persons involuntarily working part time regardless of their usual status; 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. Employed persons with a job but not at work are distributed according to whether they usually work on full-time or voluntary part-time schedules.

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

White, black, and other are terms used to describe the race of workers. Included in the "other" group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. All tables in this publication which contain racial data, with the exception of A-5 and its annual counterpart, present data for the black population group. Because of their relatively small sample size, data for "other" races are not published. In the enumeration process, race is determined by the household respondent.

Hispanic origin refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American, or of other Hispanic origin or descent. Persons of Hispanic origin may be of any race; thus they are included in both the white and black population groups.

Vietnam-era veterans are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Data are limited to men in the civilian noninstitutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

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

Median earnings indicate the value which divides the earnings distribution into two equal parts, one part having values above the median and the other having values below the median. The medians as shown in this publication are calculated by linear interpolation of the \$50 centered interval within which each median falls.

Data expressed in constant dollars are deflated by the Consumer Price Index for All Urban Consumers (CPI-U).

Single, never married; married, spouse present; and other marital status are terms used to define the marital status of individuals at the time of interview. Married, spouse present, applies to husband and wife if both were reported as members of the same household even though one may be temporarily absent on business, vacation, on a visit, in a hospital, etc. Other marital status applies to persons who are married, spouse absent; widowed; or divorced. Married, spouse absent, includes persons who are separated because of marital discord, as well as persons who are living apart because either the husband or the wife was employed and living away from home, serving in the Armed Forces, or had a different place of residence for any reason.

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

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

Family refers to a group of two or more persons residing together who are related by birth, marriage, or adoption; all such persons are considered as members of one family even though they may include a related subfamily, that is, a married couple or a parent-child group related by birth or marriage to the householder and sharing the living quarters. The

count of families used in this publication excludes unrelated subfamilies such as lodgers, guests, or resident employees living in a household but not related to the householder. Families are classified either as married-couple families or as families maintained by women or men without spouses. A family maintained by a woman or a man is one in which the householder is either single, widowed, divorced, or married, spouse absent. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

Poverty areas are defined as those census tracts in tracted areas, and Minor Civil Division's (MCD's) in untracted areas, in which 20 percent or more of the noninstitutional residents were poor according to the 1980 decennial census. Persons were classified as poor or nonpoor by comparing money income to a series of poverty income thresholds which vary by family size and number of children. 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 Metropolitan Statistical Areas (MSA's) as defined by the Office of Management and Budget (OMB) as of June 30, 1983. These definitions differ from those used in the 1980 decennial census. A detailed discussion of the MSA definitions as well as changes in terminology can be found in "The New Metropolitan Area Definitions" section of the 1980 Census of Population Supplementary Report on Metropolitan Statistical Areas, PC-S1-18. Nonmetropolitan areas consist of the total territory outside MSA's.

The *urban population*, as defined for the 1980 census, comprises all persons living in urbanized areas and in places of 2,500 or more inhabitants outside urbanized areas. More specifically, the urban population consists of all persons living in (1) places of 2,500 or more inhabitants incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the New England States, New York, and Wisconsin), but excluding those persons living in the rural portions of extended cities; and (2) other territories, incorporated and unincorporated, included in urbanized areas. The population not classified as urban constitutes the rural population.

HISTORICAL COMPARABILITY

Change in lower age limit

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

Report on the Labor Force, February 1967.

Noncomparability of labor force levels

In addition to the changes introduced in 1967, there are several other periods of noncomparability in the labor force data: (1)Beginning in 1953, as a result of introducing data from the 1950 census into the estimating procedures, population levels were raised by about 600,000; labor force, total employment, and agricultural employment were increased by about 350,000, primarily affecting the figures for totals and men; other categories were relatively unaffected. (2) Beginning in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force. Four-fifths of this increase was in nonagricultural employment; other labor force categories were not appreciably affected. (3) Beginning in 1962, the introduction of data from the 1960 census reduced the population by about 50,000 and labor force and employment by about 200,000; unemployment totals were virtually unchanged. (4) Beginning in 1972, information from the 1970 census was introduced into the estimation procedures, increasing the population by about 800,000; labor force and employment totals were raised by a little more than 300,000; and unemployment levels and rates were essentially unchanged. (5) A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment, which affected the white and black-and-other groups but had little effect on totals, resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black-and-other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black-and-other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

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

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

Beginning in January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the civilian labor

force and employment totals; unemployment levels and rates were essentially unchanged. An explanation of the procedural changes and an indication of the differences appear in "Revisions in the Current Population Survey in January 1978" in the February 1978 issue of *Employment and Earnings*.

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than by the interviewer as before. The purpose of this change was to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. The new procedure had no significant effect on the estimates.

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

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

Beginning in January 1983, the first-stage ratio adjustment methodology was updated to account for results obtained from the 1980 census. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in "Revisions in the Current Population Survey Beginning in January 1983" in the February 1983 issue of *Employment and Earnings*. There were only slight differences between the old and new procedures in estimates of levels for the various labor force characteristics and virtually no differences in estimates of participation rates.

Beginning in January 1985, most of the steps of the CPS estimation procedure—the noninterview adjustment, the first and second-stage ratio adjustments, and the composite

estimator—were revised. These procedures are described in the Estimating Methods section. A description of the changes and an indication of their effect on national estimates of labor force characteristics appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of this publication. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin. Major estimates were revised back to January 1980.

Beginning in January 1986, the population controls used in the second-stage ratio adjustment methodology were revised to reflect an explicit estimate of the number of undocumented immigrants (largely Hispanic) since 1980 and an improved estimate of the number of emigrants among legal foreign-born residents for the same time period. As a result, the total civilian population and labor force estimates were raised by nearly 400,000; civilian employment was increased by about 350,000. The Hispanic-origin civilian population and labor force estimates were raised by about 425,000 and 305,000, respectively, and civilian employment by 270,000. Overall and subgroup unemployment levels and rates were not significantly affected. Because of the magnitude of the adjustments for Hispanics, data have been revised back to January 1980 to the extent possible. An explanation of the changes and their effect on estimates of labor force characteristics appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of this publication.

Changes in the occupational and industrial classification system

Beginning in 1971, the comparability of occupational employment data was affected as a result of changes in the occupational classification system for the 1970 census that were introduced into the CPS. Comparability was further affected in December 1971, when a question relating to major activity or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. As a result of these changes, meaningful comparisions of occupational employment levels could not be made between 1971-72 and prior years nor between those 2 years. Unemployment rates were not significantly affected. For a further explanation of the changes in the occupational classification system, see "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of Employment and Earnings.

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

The 1980 census occupational classification system evolved

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

The industrial classification system used in the 1980 census is based on the 1972 Standard Industrial Classification system (SIC), as modified in 1977. The adoption of the new system had a much less adverse effect on historical comparability than did the new occupational system. The most notable changes from the 1970 system were the transfer of farm equipment stores from "retail" to "wholesale" trade, postal service from "public administration" to "transportation", and some interchange between "professional and related services" and "public administration."

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

Changes in the sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, the number of sample areas and the number of sample persons are increased occasionally. In 1953, the current rotation plan was introduced, in which a sample unit is interviewed for 4 months, leaves the sample for 8 months, and then returns to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated into the design. In October 1978, a coverage improvement sample, composed of approximately 450 sample household units which represented 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates in order to provide coverage of mo-124

bile homes and new construction units that previously had no chance for selection in the CPS sample selected from the 1970 census frame. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. Beginning in January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to SMSA's, which were redefined in 1973.

Beginning in 1985, a new State-based CPS sample was selected based on 1980 census information rather than 1970 census information. The selection of new sample areas provided an opportunity to improve the efficiency of the sample design. Sample areas chosen to replace incoming sample areas account for only 10 percent of the national estimate. The new CPS sample has resulted in increased reliability for State estimates with a slightly reduced sample size. Sample households are chosen from 729 sample areas, which represent 1,973 geographic areas in the United States. This current number of sample areas is not completely comparable to the old number of sample areas since many of the sample areas have been redefined. (See pp. 7-10 of the May 1984 issue of Employment and Earnings, for an overview of these new definitions and the introduction of the new sample.) A sample reduction of about 4,000 households was implemented in April 1988.

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

ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. The estimation procedure involves weighting the data from each sample person by the inverse of the probability of the person being in the sample. This gives a rough measure of the number of actual persons that the sample person represents. Beginning in 1985, almost all sample persons within the same State have the same probability of selection. These estimates are then adjusted for noninterviews, 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 respondents for other reasons. This noninterview adjustment is made separately by combinations of similar sample areas that are not necessarily contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within

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

Time period	Number of sample	Househo	Households eligible			
Time pendu	areas	Interviewed	Not interviewed	not eligible		
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 .	 1330	33,500	1,500	6,000		
Jan. 1960 to Feb. 1963 .	2333	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 Dec. 1984 .	 629	57,800	2,500	11,000		
Jan. 1985 to Mar. 1988 .	729	57,000	2,500	11,000		
Apr. 1988 to present.	 729	53,200	2,600	11,500		

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

each combination of sample areas there is a further breakdown by residence. MSA sample areas are categorized by "central city" and "balance of the MSA". Residence categories of non-MSA areas are "urban" and "rural". The proportion of sample households not interviewed varies from 4 to 5 percent, depending on weather, vacation, etc.

- 2. Ratio estimates. The distribution of the population selected for the sample may differ somewhat, by chance, from that of the population as a whole in such characteristics as age, race, sex, and residence. Since these characteristics are closely correlated with labor force participation and other principal measurements made from the sample, the survey estimates can be substantially improved when weighted appropriately by the known distribution of these population characteristics. This is accomplished through two stages of ratio estimates as follows:
- a. First-stage ratio estimate. In the CPS, a portion of the 729 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 adjustment is made at the State level for each of the 43 States which contain nonsample areas by race cells of black and non-black. The procedure corrects for differences that existed in each cell at the time of the 1980 census between the race distribution of the population in sample areas and the known race distribution of the State.
- b. Second-stage ratio estimate. In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment, which is performed to

further reduce variability of the estimates and to correct to some extent for CPS undercoverage relative to the decennial census, is carried out in 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. The second step involves an adjustment by Hispanic origin to a national estimate for eight age-sex categories by Hispanic and non-Hispanic. In the third step, a national adjustment is made by the race categories of white, black, and other races to independent estimates by age and sex. The white and black categories contain 32 age-sex groups each; the other races category has 6 age-sex cells. The entire second-stage adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race-origin categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1985. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985" in the February 1985 issue of Employment and Earnings.

The controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population using the two most recent July 1 estimates, 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 957 of that series. A description of the age estimates methodology is available in Report 1010 of that series.

Prior to January 1985, there was no separate control for Hispanics in the second-stage ratio procedure. These Hispanic controls are prepared by carrying forward the 1980 census count for Hispanics by adding estimated Hispanic births and immigrants and subtracting estimated Hispanic deaths

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

and emigrants to yield an estimate of the Hispanic population by age and sex.

During the period from January 1982 to December 1984, the "inflation-deflation" method was temporarily discontinued in the preparation of the independent national controls used for the age-sex-race groups in the third step of the second-stage ratio estimation procedure. These controls were prepared by carrying forward the 1980 census data after taking account of subsequent aging of the population, births, deaths, and net migration and then subtracting the estimate for the institutional population and Armed Forces. Beginning in January 1985, the "inflation-deflation" method of deriving independent population controls was reintroduced into the CPS estimation procedure. With the "inflation-deflation" method, the independent controls are prepared by inflating the 1980 census counts to include estimated undercounts 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. Because an estimate of undercount is first added and then subtracted, the size of each race-sex group is unaffected by the "inflation-deflation" method. Similarly, the final estimate is affected only by the age structure of the undercount, but not the level. This feature of the method is important since the exact amount of undercount in the 1980 census remains unknown.

Data on births and deaths between April 1, 1980, and the estimate date are based on tabulations of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of Personnel Management, and the Puerto Rico Planning Board. The civilian noninstitutional population is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 census to the total population, including Armed Forces overseas for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national control totals are then obtained by collapsing these cells into broader age groups for the population 16 years and older.

Beginning in January 1986, two changes were introduced into the estimation of the independent population controls. For the first time, an explicit allowance for net undocumented immigration since April 1, 1980 (the census date) was added to the estimated level of legal immigration. In addition, an increase in the estimate of emigration of legal foreign-born residents has been incorporated into the postcensal population estimates since 1980. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986" in the February 1986 issue of *Employment and Earnings*.

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. Also included is an additional term which is an estimate of the net difference between incoming and continuing parts of the current month's sample. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of level are also improved, but to a lesser extent.

Rounding of estimates

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals and components to the nearest thousand. Similarly, sums of percent distributions may not always equal 100 percent because of rounding. Differences, however, are insignificant.

Reliability of the estimates

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

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

Nonsampling errors in surveys can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness of respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in processing the data, errors made in estimating values for missing data, and failure to 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 Effects of Rotation Group Bias on Estimates From Panel Surveys," by Barbara A. Bailar, Journal of the American Statistical Association, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Compared to the level of the decennial census, undercoverage is about 6 percent. It is known that the CPS undercoverage varies with age, sex, race, and Hispanic origin. Generally, undercoverage is larger for men than for women, and larger for blacks, Hispanics, and other races combined than for whites. Ratio estimation to independent age-sex-race-Hispanic origin 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-Hispanic origin group. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

Additional information on nonsampling error in the CPS appears in "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailar, Statistical Policy Working Paper 3, U.S. Department of Commerce, Office of Federal Statistical Policy and Standards; in "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, Annals of Economic and Social Measurement, Vol. 2, April 1973; and in The Current Population Survey, Design and Methodology, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive 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 are 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 are 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 table 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-tomonth change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between 2 consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors for levels, labor force participation rates, and percentages as pertaining to the yearto-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

Table B. Standard errors for major employment status categories

(in thousands)

	Stand	dard error of—
Employment status, sex, age, and race	Month level	
Total, 16 years and over:		
Civilian labor force.	. 275	212
Employed	293	224
Unemployed	136	140
Men, 20 years and over:		
Civilian labor force .	. 173	151
Employed	186	163
Unemployed	. 93	95
Women, 20 years and over:	1	
Civilian labor force.	. 211	155
Employed	212	160
Unemployed	. 83	87
Both sexes, 16 to 19 years:	1	
Civilian labor force .	. 88	94
Employed	. 92	102
Unemployed	. 59	66
Black, 16 years and over:		
Civilian labor force .	94	73
Employed	104	79
Unemployed	. 68	71
Men, 20 years and over:		1
Civilian labor force .	. 59	51
Employed	. 64	57
Unemployed	. 44	47
Women, 20 years and over:		,,
Civilian labor force	. 76	50
Employed	76	
Unemployed	45	48
Both sexes, 16 to 19 years:		
Civilian labor force	. 36	40
Employed	33	
Unemployed .	. 30	33

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 174,000. The 68-percent confidence interval as shown by these data is from 11,826,000 to 12,174,000. 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 129,000.

Standard errors for rates and percentages. The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends upon both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more

Table C. Standard errors for unemployment rates by major characteristics

	Standard	l error of—		Standard	error of—
Characteristic	Monthly level	Consecutive- month change	Characteristic	Monthly level	Consecutive- month change
Total (all civilian workers)	0.11	0.12	Occupation—Continued		1
Men, 20 years and over	.15	.15	Precision production, craft, and repair.	0.32	0.36
Women, 20 years and over.	.16	.17	Machine operators, assemblers, and		
Both sexes, 16 to 19 years .	.67	.81	inspectors	.49	.55
White workers.	.11	.12	Transportation and material moving	.59	.66
Black workers	.51	.54	Handlers, equipment cleaners, helpers, and		
Married men, spouse present	.15	.17	laborers	.72	.82
Married women, spouse present.	.19	.21	Farming, forestry, and fishing.	.68	.76
Full-time workers .	.12	.12			
Part-time workers	.34	.42	Industry		
Unemployed 15 weeks and over .	.06	.07			
			Nonagricultural private wage and salary		
			workers .	.12	.13
Occupation	1		Mining	1.63	1.86
•			Construction	.65	.75
Executive, administrative, and managerial	.22	.24	Manufacturing	.26	.29
Professional specialty	.19	.21	Durable goods	.33	.37
Technicians and related support.	.47	.52	Nondurable goods	.42	.47
Sales	.29	.33	Transportation, communications, and		ĺ
Administrative support, including clerical	.23	.26	public utilities	.42	.48
Private household .	1.18	1.33	Wholesale and retail trade	.27	.30
Protective service	.76	.85	Finance and services	.20	.22
Service, except private household and			Government workers	1 00	.25
protective	.39	.43	Agricultural wage and salary workers	1.16	1.32

reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000, the quarterly average base is less than 60,000, or the annual average base is less than 35,000.

Tables F and G show generalized standard errors for monthly level and month-to-month change for unemployment rates. Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentage 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. Assume that in a given month 2.9 percent of a total of 112,440,000 employed persons are employed in agriculture. The standard error on an estimate of 2.9 percent with a base of 112,440,000 is obtained from table H (0.08 percent). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 2.9 percent is then approximately $0.08 \times 1.26 = 0.10$ percentage point.

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

Illustration. Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.2 percent, based on a total of 119,865,000 in the civilian labor force, and that

Table D. Standard errors for estimates of monthly level

(in thousands)

				(Characteristi	C ¹					
		Unempl	oyment	Labor force data other than agricultural employment and unemployment							
Estimated monthly level	Agricultural employment	Total or white	Black	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years	Total or white men only, or women only	Black men only, or women only		
50	131 159 182 202 -	11 16 36 51 72 101 123 141 156 188 213	12 17 38 53 73 97 110 116	12 17 37 52 74 104 126 145 161 193 219 259 286 306 319 326 327 314 274	12 17 37 51 70 92 104\\109 108 74	12 17 36 50 68 86 92 88 72	12 16 32 35	11 15 34 49 68 95 115 132 145 172 191 215 225 222 206 172 107	10 14 31 43 58 73 76 69 47		

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

of the estimated number of employed persons age 20 to 54 years, use the column for total employed.

(in thousands)

				Charac	cteristic ¹					
Estimated monthly level		Unempl	oyment		Labor force da	Labor force data other than unemployment and agricultural employment				
	Total or white	Both sexes 16 to 19 years, or part-time labor force ²	Black	Black, 16 to 19 years	Total or white	Black	Total or white, 16 to 19 years	Black, 16 to 19 years		
50	13 18 40 56 78 108 129 144 157 177 184	14 20 45 63 89 124 150	13 19 41 57 76 95 99 89 58	14 20 38 41	9 12 27 39 55 77 93 107 119 143 163 192 213 228 238 244 245 237 212 160	9 12 27 38 52 68 78 82 81 59	14 20 43 59 80 100 104 94 65	14 19 37 39		

See footnote 1, table D.

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

a year prior to this the unemployment rate was 7.0 percent, based on a total of 117,834,000 in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.6 percent with a base of 118,850,000, 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 persons and families may be obtained by using table K in conjunction with the following formula:

$$\sqrt{\begin{pmatrix} Stand-\\ ard\\ error\\ x \end{pmatrix}^2 + \begin{pmatrix} Stand-\\ ard\\ error\\ y \end{pmatrix}^2 - 2(P) \begin{pmatrix} Stand-\\ ard\\ error\\ x \end{pmatrix}} \begin{pmatrix} Stand-\\ ard\\ error\\ y \end{pmatrix}$$

X is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P, is a measure of the corre-

lation 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 0.30 for persons (total, white, and black) and 0.35 for families (total, white, and black). The respective values for estimates of Hispanics are 0.45 and 0.55.

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:

$$(216,000)^2$$
 + $(221,000)^2$ -2(.30) $(216,000)$ $(221,000)$,

or about 259,000.

² Part-time labor force for unemployment also includes persons reentering

Table F. Standard errors for unemployment rates

Monthly base of unemployment rate	Monthly unemployment rate (percent)										
(in thousands)	1	2	5	10	15	20	25	30	35	50	
50	2.28	3.20	4.98	6.85	8.13	9.09	9.82	10.36	10.75	11.12	
100 .	1.61	2.26	3.52	4.84	5.75	6.43	6.94	7.33	7.60	7.87	
500	.72	1.01	1.58	2.16	2.57	2.88	3.11	3.28	3.40	3.52	
1,000 .	.51	.72	- 1,11	1.53	1.82	2.03	2.20	2.32	2.40	2.49	
2,000	.36	.51	.79	1.08	1.29	1.44	1.55	1.64	1.70	1.76	
4,000	.25	.36	.56	.77	.91	1.02	1.10	1.16	1.20	1.24	
6,000	.21	.29	.45	.62	.74	.83	.90	.95	.98	1.02	
10,000 .	.16	.23	.35	.48	.58	.64	.69	.73	.76	.79	
20,000 .	.11	.16	.25	.34	.41	.45	.49	.52	.54	.56	
60,000	.07	.09	.14	.20	.24	.26	.28	.30	.31	.32	
100,000	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25	
120,000	05	.07	.10	.14	.17	.19	.20	.21	.22	.23	
140,000	04	.06	.09	.13	.15	.17	.19	.20	.21	.21	

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

Monthly base of unemployment rate	Monthly unemployment rate (percent)									
(in thousands)	1	2	5	10	15	20	25	30	35	50
50	2.53	3.57	5.60	7.83	9.47	10.79	11.91	12.87	13.71	15.67
100 .	1.79	2.52	3.96	5.53	6.69	7.63	8.42	9.10	9.69	11.08
500	.80	1.13	1.77	2.47	2.99	3.41	3.76	4.06	4.33	4.94
1,000	.57	.80	1.25	1.75	2.11	2.41	2.65	2.87	3.05	3.48
2,000	.40	.56	.88	1.23	1.49	1.70	1.87	2.02	2.15	2.44
4,000	.28	_40	.63	.87	1.05	1.20	1.32	1.42	1.51	1.70
6,000	.23	.33	.51	.71	.86	.97	1.07	1.15	1.22	1.37
10,000	.18	.25	.39	.55	.66	.75	.82	.88	.93	1.03
20,000	.13	.18	.28	.38	.46	.51	.56	.60	.62	-
60,000	.07	.10	.16	.21	.24	.27	.28	_	-	
100,000	.06	.08	.12	.15	.17	.18	-			
120,000	05	.07	.11	.14	.15	-				
140,000	05	.07	.10	1	-				1	

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

Monthly base of percentages	1	Percentage of monthly level										
(in thousands)	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	. 2.34	3.29	5.12	7.05	8.39	9.40	10.18	10.77	11.21	11.75		
100 .	. 1.65	2.33	3.62	4.99	5.94	6.65	7.20	7.62	7.93	8.31		
500	74	1.04	1.62	2.23	2.65	2.97	3.22	3.41	3.55	3.72		
1,000 .	52	.74	1.15	1.58	1.88	2.10	2.28	2.41	2.51	2.63		
2,000 .	37	.52	.81	1.12	1.33	1.49	1.61	1.70	1.77	1.86		
4,000 .	26	.37	.57	.79	.94	1.05	1.14	1.20	1.25	1.31		
6,000	21	.30	.47	.64	.77	.86	.93	.98	1.02	1.07		
10,000 .	17	.23	.36	.50	.59	.66	.72	.76	.79	.83		
20,000	12	.16	.26	.35	.42	.47	.51	.54	.56	.59		
40,000 .	08	.12	.18	.25	.30	.33	.36	.38	.40	.42		
60,000 .	07	.10	.15	.20	.24	.27	.29	.31	.32	.34		
80,000	06	.08	.13	.18	.21	.24	.25	.27	.28	.29		
100,000 .	. 05	.07	.11	.16	.19	.21	.23	.24	.25	.26		
120,000 .	05	.07	.10	.14	.17	.19	.21	.22	.23	.24		
140,000 .	04	.06	.10	.13	.16	.18	.19	.20	.21	.22		
160,000	04	.06	.09	.12	.15	.17	.18	.19	.20	.21		

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

	Fa	ctor		Fa	ctor
Characteristic	Monthly level	Month-to- month change	Characteristic	Monthly level Month-to-month cha	
Agricultural employment: Total or full-time labor force	. 1.26 . 1.26	1.05 1.50	Unemployment: Part-time labor force, duration of unemployment, left last job, reentering labor force	1.01	1,21
Total Men only	. 1.00	.74 .84	Total or white:	.97	1.08
Women only	86 . 1.00 . 1.00	.75 1.18 1.18	Both sexes, 16 to 19 years . Black: Total	.97 1.04	1.21
			Both sexes, 16 to 19 years.	1.04	1.24

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

			Factor		
Characteristic	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or men	1.30 1.30 1.40	0.89 .83 .74	0.80 .80 .80	0.72 .58 .46	0.70 .70 .70
Total or white	. 1.30 . 1.30 . 1.40	.88 .82 .74	.88 .88 .88	.67 .57 .46	.70 .70 .60
Unemployment:					
Total Part time .	1.40	.76 .69	.88 .88	.50 .39	.65 .54

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

(In thousands)

	Characteristic										
		Total			М	len		Wor	men		
Estimated quarterly level	Destruction	Total or full-	Total or full-time workers		Total	or full-time w	Total, full-time, or part-time workers				
	Part-time workers	Total or White Black	Part-time workers	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 24	19	21	21	21	19	19		
200 . 250 .	22 24	24 27	24 27	22 24	24 27	24 27	24 27	22 24	21 24		
300	26	30	30	2 4 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	64	127	88		
10,000	149	165	102	144	157	155	_	145	_		
	180	198	102	187	183	179		173			
20,000	205 226	224 244	-	192 207	199 209	193 199		195 211			
20,000	224	261		207	209	198		224			
40,000	272	286		233	201	174		242			
50,000	296	301		-	160	100		249			
75,000	331	304			160	-					
100,000	343	255			-						

Establishment Data (Tables B-1 through C-8)

COLLECTION

Payroll reports provide current information on wage and salary employment and hours and earnings in nonagricultural establishments, by industry and geographic location. Historical statistics are published in *Employment*, *Hours*, and *Earnings*, *United States*, 1909-84, and *Employment*, *Hours*, and *Earnings*, *States and Areas*, 1939-82 and their supplements.

Federal-State cooperation

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

Shuttle schedules

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

Form BLS 790 provides for entry of data on the total number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month.

CONCEPTS

Industrial classification

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

industry indicated by the principal product or activity.

All data on employment, hours, and earnings for the Nation and for States and areas are classified in accordance with the 1972 Standard Industrial Classification Manual (SICM), Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

Industry employment

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

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

Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday, on paid vacation, or who work during a part of the pay period even though they are unemployed or on strike during the rest of the period are counted as employed. Not counted as employed are persons who are on layoff, on leave without pay, on strike for the entire period, or who were hired but have not yet reported during the period.

Indexes of diffusion of employment change (table B-7). These indexes measure the dispersion among industries of the change in employment over the specified time span. The overall indexes are calculated from 349 seasonally adjusted employment series (three-digit industries) covering all nonagricultural payroll employment in the private sector. The manufacturing diffusion indexes are based on 141 three-digit industries.

To derive the indexes, each component industry is assigned a value of 0, 50, or 100 percent, depending on whether its employment showed a decrease, no change, or an increase, respectively, over the time span. The average value (mean) is then calculated, and this percent is the diffusion index number.

The reference point for diffusion analysis is 50 percent, the value which indicates that the same number of component industries had increased as had decreased. Index numbers above 50 show that more industries had increasing employment, and

values below 50 indicate that more had decreasing employment. The margin between the percent that increased and the percent that decreased is equal to the difference between the index and its complement, i.e., 100 minus the index. For example, an index of 65 percent means that 30 percent more industries had increasing employment than had decreasing employment (65-(100-65)=30). However, for dispersion analysis, the distance of the index number from the 50-percent reference point is the most significant observation.

Although diffusion indexes are commonly interpreted as showing the percent of components that increased over the time span, it should be remembered that the index reflects half of the unchanged components as well. (This is the effect of assigning a value of 50 percent to the unchanged components when computing the index.)

Industry hours and earnings

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

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

Construction workers include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices, helpers, laborers, etc., engaged in new work, alterations, demolition, repair, maintenance, etc., whether working at the site of construction or working in shops or yards at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.

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

Payroll covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of any kind, e.g., for old-age and unemployment insurance, group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacation, and sick leave paid directly by the firm. Bonuses (unless

earned and paid regularly each pay period); other pay not earned in the pay period reported (e.g., retroactive pay); tips; and the value of free rent, fuel, meals, or other payment in kind are excluded. "Fringe benefits" (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

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

Overtime hours cover hours worked by production or related workers for which overtime premiums were paid because the hours were in excess of the number of hours of either the straight-time workday or the workweek during the pay period which included 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.

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.

Indexes of aggregate weekly hours. The indexes of aggregate weekly hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 1977. For basic industries, the hours aggregates are the product of average weekly hours and production worker or nonsupervisory worker employment. At all higher levels of industry aggregation, hours aggregates are the sum of the component aggregates.

Average overtime hours. The overtime hours represent that portion of the 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, 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 work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours.

Average hourly 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 production worker, construction worker, or nonsupervisory employee definitions.

Average hourly earnings, including lump-sum wage payments. These series are compiled only for aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing. The same concepts and estimation methods apply to these series as apply to the average hourly earnings series described above; the one difference between the series is definitional. The payroll data used to calculate this series include lump-sum payments made to production workers in lieu of general wage rate increases; such payments are excluded from the definition of gross payrolls used to calculate the other average hourly earnings series.

For each sample establishment in SIC 3721 and SIC 3761 covered by a lump-sum agreement, the reported payroll data are adjusted to include a prorated portion of the lump-sum payment. Such payments are generally made once a year and cover the following 12-month period. In order to spread the payment across this time period, a prorated portion of the payment is added to the payroll each month. This prorated portion is adjusted by an exit rate to reduce the lump-sum amount to account for persons who received the payment but left before the payment allocation period expired.

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. No adjustments are made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

Railroad hours and earnings. The figures for Class I railroads (excluding switching and terminal companies) are based on monthly data summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC 136

group I) who received pay during the month. 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. Average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

Average weekly earnings. These estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. Therefore, weekly earnings are affected not only by changes in average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as the 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-time trends of 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.

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).

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, bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past benchmark comparisons. Beginning with data for April 1983, these factors are modified by changes in the sample link relatives for the most recent quarter. Other features of the general procedures are described in table L.

Size and regional stratification

A number of industries are stratified by size of establish-

ment and/or by region, and the stratified production or nonsupervisory worker data are used to weight the hours and earnings for aggregation into broader industry groupings. Accordingly, the basic estimating cell for an employment, hours, or earnings series, as the term is used in the summary of computational methods in table L, may be a whole industry or a size stratum, a region stratum, or a size stratum of a region within an industry.

Benchmark adjustments

Employment estimates are compared periodically with

benchmarks (comprehensive counts of employment) for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1987 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by State agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover 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

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

Employment, hours, and earnings	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry level (division and, where stratified, industry)
	Month	ly data
All employees	All-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months.1	Sum of all-employee estimates for component cells.
Production or nonsupervisory workers, women employees	All-employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) estimated ratio of women to all employees. ²	Sum of production or nonsupervisory worker estimates, or estimates of women employees, for component cells.
Average weekly hours	Production or nonsupervisory worker hours divided by number of production or nonsupervisory workers. ²	Average, weighted by production or nonsupervisory worker employment, of the average weekly hours for component cells.
Average weekly overtime hours.	Production worker overtime hours divided by number of production workers. ²	Average, weighted by production worker employment, of the average weekly overtime hours for component cells.
Average hourly earnings	Total production or nonsupervisory worker payroll divided by total production or nonsupervisory worker hours. ²	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Average weekly earnings.	Product of average weekly hours and average hourly earnings.	Product of average weekly hours and average hourly earnings.
	Annual av	erage data
Ail employees, women employees, and production or nonsupervisory workers	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Average weekly hours .	Annual total of aggregate hours (production or non- supervisory worker employment multiplied by average weekly hours) divided by annual sum of employment	Annual total of aggregate hours for production or non- supervisory workers divided by annual sum of employ- ment 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.
Average hourly earnings	Annual total of aggregate payrolls (product of production or nonsupervisory worker employment by weekly hours and hourly earnings) divided by annual aggregate hours.	Annual total of aggregate payrolls divided by annual aggregate hours.
Average weekly earnings.	Product of average weekly hours and average hourly earnings.	Product of average weekly hours and average hourly earnings.

¹ The estimates are computed by multiplying the above product by bias adjustment factors, which compensate for the underrepresentation of newly formed enterprises and other sources of bias in the sample.

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.

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

Interstate Commerce Commmission, 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 1987 benchmark adjustment is shown in table M.

Data for all months since the last benchmark to which the series has been ajusted 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 establishment survey is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. Under this type of design, large establishments fall into the sample with certainty. The size of the sample for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a larger 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 inclu-

Table M. Comparison of nonagricutural employment benchmarks and estimates for March 1988

(In thousands)

Industry	Benchmark	Estimate	Percent difference
Total .	103,835	104,161	-0.3
Mining	711	723	-1.7
Construction	4,686	4,787	-2.2
Manufacturing	19,171	19,302	7
Transportation and public			
utilities	5,437	5,473	7
Wholesale trade	5,926	6,016	-1.5
Retail trade	18,551	18,612	3
Finance, insurancé, and	1		
real estate .	6,594	6,599	1
Services	25,103	24,978	.5
Government	17,656	17,671	1

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

Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table N shows the latest benchmarks and 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 N. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1988

	Bench-	San	nple covera	age ¹
Industry	marks	Niverbox of	Emp	loyees
	(thou- sands)	Number of establish- ments	Number (thou- sands)	Percent of benchmarks
Total .	103,835	262,856	38,922	37
Mining	711	3,361	276	39
	4,686	24,924	917	20
	19,171	49,889	9,483	49
utilities	5,437	² 14,091	² 2,482	46
	5,926	22,810	1,062	18
	18,551	49,015	3,704	20
real estate Services Government:	6,594	19,711	2,126	32
	25,103	58,713	5,795	23
Federal	2,964	(³)	2,964	100
	4,151	4,883	3,406	82
	10,541	15,459	6,707	64

¹ Counts reflect reports used in final estimates. Since not all establishments report payroll and hours information, hours and earnings estimates are based

on a smaller sample than employment estimates.

The Interstate Commerce Commission provides a complete count of employment for Class I railroads.

Total Federal employment counts for use in national estimates 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. the Executive Branch, as well as State and area estimates of Federal employment are based on a sample of 5,000 reports covering about 56 percent of employment in Federal establishments

Reliability

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

The hours and earnings estimates for basic estimating cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors, which may be expressed as

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

(In percent)

	Average benchmark	Relative	e error²
Industry	revision in estimates of employ- ment ¹	Average weekly hours	Average hourly earnings
Total .	0.2		
Mining Construction Manufacturing Durable goods Nondurable goods Transportation and public utilities Wholesale trade Retail trade Finance, insurance, and real estate	 .3 2.2 1.8 .7 .7 .9 .4 1.0 .7	0.1 1.0 .2 .1 .1 .1 .7 .2 .2	0.2 1.3 .5 .2 .3 .2 .6 .4 .4

- ¹ The average percent revision in employment for the 1984-88 benchmarks.
- ² Relative errors relate to 1982 data.

relative errors of the estimate. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table O and for individual industries with the specified number of employees in table P. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

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

RMSE =
$$\sqrt{\text{(standard deviation)}^2 + \text{(bias)}^2}$$

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

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

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

STATISTICS FOR STATES AND AREAS

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

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

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

¹ Assuming 12-month intervals between benchmark revisions.

³ Estimates for government are based on a total count for Federal Government provided by the Office of Personnel Management and a sample of State and local government reports.

² Relative errors relate to 1982 data

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.

Table Q. Errors of preliminary employment estimates

	Root-mean-square error of—			Root-mean-square error of—		
Industry	Monthly level	Month-to-month change	Industry	Monthly level	Month-to-month change	
Total .	88,900	89,500	Nondurable goods—Continued			
Total private .	61,300	58,900	Chemicals and allied products Petroleum and coal products Rubber and misc. plastics	2,600 1,200	2,800 1,200	
Goods-producing industries.	21,200	19,800	products	1,600 1,700	1,600 1,600	
Mining	4,400	4,200	Service-producing industries	85,400	85,700	
Oil and gas extraction	3,800	3,300	Transportation and public utilities	14,600	13,000	
Construction	14,400 4,900	15,100 5,100	Transportation	16,600	16,000	
Manufacturing	18,200	18,300	utilities	6,500	6,100	
			Wholesale trade	8,700	7,700	
Durable goods	13,700	12,300	Durable goods	5,800	5,300	
Lumber and wood products	2,200	2,000	Nondurable goods	5,000	4,400	
Furniture and fixtures	1,700	1,600	Datail trade	20,000	24.400	
Stone, clay, and glass products. Primary metal industries	1,600 4,300	1,500	Retail trade	38,600 22,800	34,400 20,400	
Blast furnaces and basic	4,300	4,300		6.800	6,000	
steel products	3,300	3.100	Automotive dealers and	0,000	0,000	
Fabricated metal products	2,400	2,200	service stations	4.200	5.100	
Machinery, except electrical	5.700	6.800	Eating and drinking places	10,100	9,500	
Electrical and electronic equipment	4.900	4,900	Taking and animing places	70,100	0,555	
Transportation equipment	7,700	7,000	Finance, insurance, and real estate	8,700	7,600	
Motor vehicles and equipment.	6,500	6,600	Finance .	4,100	3,900	
Instruments and related products	2,100	2,200	Insurance	3,700	3,100	
Miscellaneous manufacturing	1,800	1,800	Real estate	5,000	4,000	
Nondurable goods	8,500	8,400	Services	36,600	34,900	
Food and kindred products	5,600	5,600	Business services	11,700	10,700	
Tobacco manufactures	1,500	1,400	Health services	10,200	10,000	
Textile mill products	1,800	1,700				
Apparel and other textile			Government	59,700	53,500	
products	4,500	4,000	Federal	15,900	11,300	
Paper and allied products	1,600	1,400	State	22,000	20,000	
Printing and publishing .	2,100	2,000	Local	34,600	34,500	

NOTE: Data are based on differences from December 1983 through December 1988.

Productivity Data (Tables C-9 through C-11)

COLLECTION

Productivity data 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.

CONCEPTS

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

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

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

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

Unit labor costs measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour.

Unit nonlabor payments include profits, depreciation, interest, and indirect taxes per unit of output. They are com-

puted by subtracting compensation of all persons from the current-dollar gross national product and dividing by output. In these tables, unit nonlabor costs contain all the components of unit nonlabor payments except unit profits.

Unit profits include corporate profits and inventory valuation adjustments per unit of output.

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

NOTES ON THE DATA

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

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics. Historical statistics for most productivity measures appear in *Trends in Multifactor Productivity*, 1948-81, BLS Bulletin 2178. Additional information may be obtained from the Office of Productivity and Technology (202 523-9261).

State and Area Labor Force Data (D table)

FEDERAL-STATE COOPERATIVE PROGRAM

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

Annual average data for the States and areas shown in table D are published in *Employment and Earnings* (usually the May issue). For regions, States, selected metropolitan areas, and central cities, annual average data classified by selected

demographic, social, and economic characteristics are published in the BLS bulletin, Geographic Profile of Employment and Unemployment.

Labor force estimates for counties and cities and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The report "Unemployment in States and Local Areas" is published monthly through GPO and is available in microfiche form only, on a subscription basis.

ESTIMATING METHODS

Monthly labor force, employment, and unemployment estimates are prepared for the 50 States, the District of Columbia, and over 2,600 labor market areas. The

estimation methods are described below for States (and the District of Columbia) and for sub-State areas. A more detailed description of the estimation procedure is contained in the BLS document, "Manual for Developing Local Area Unemployment Statistics."

Estimates for States

Current monthly estimates. The civilian labor force and unemployment estimates for the 11 largest States—California, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, and Texas—are sufficiently reliable to be taken directly from the Current Population Survey (CPS) on a monthly basis. These are termed "direct-use States." For a description of the CPS concepts, see "Household Data," above.

For the 39 smaller States and the District of Columbia, which do not use the CPS directly each month, regression models (sets of equations) are used to develop employment and unemployment estimates. These, then, are the "non-direct-use" States. The regression techniques are based on historical and current relationships found within each State's economy as reflected in the different sources of data that are available for each State—the CPS, the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. When the estimation procedures were introduced in 1989, over 10 years of data were used to develop the equations for each State. While all the State models have important variables in common, they differ somewhat from one another so as to better reflect individual State characteristics.

Two models—one for employment and one for the unemployment rate—are used for each State. The unemployment rate, rather than the unemployment level, is modeled, primarily because the rate is usually more meaningful for economic analysis.

The employment models use the CES estimates of nonfarm wage and salary jobs and also include data for employed persons not covered or only partially covered by the CES survey. Typically, these are agricultural workers, the self-employed, unpaid family workers, and private household workers.

The unemployment rate models also include different types of data. Data for UI claimants (without earnings due to employment) are used to represent most of the experienced unemployed. The models also include an employment-to-population ratio which reflects both the business cycle and the experienced unemployed not covered by the UI claims data. New entrants and reentrants into the labor force are also reflected in the models. For some States, the models include variables which reflect seasonal factors not reflected in the other data used, such as the large increase in the labor force at the end of the school year.

In both the employment and unemployment rate models, an important feature is the use of a technique that allows the equations to adjust automatically to structural changes that occur. The models are termed "variable coefficient models" because they include a built-in tuning mechanism, known as the Kalman Filter, which revises a model's coefficients when 142

the new data that become available each month indicate that changes in the data relationships have taken place. Once the estimates are developed from the models, the unemployment level and labor force estimates are calculated.

Benchmark correction procedures. Once each year, monthly estimates for the 39 non-direct-use States and the District of Columbia are adjusted, or benchmarked, by BLs to the annual average CPs estimates. The benchmarking technique employs a procedure (called the Denton method) which adjusts the annual average of the models to equal the CPs annual average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

In the 11 direct-use States, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

Estimates for sub-State areas

Sub-State monthly labor force and unemployment estimates in over 2,600 labor market areas (LMA's) are prepared in several stages.

Preliminary estimate—employment. The total civilian employment estimates are based on CES data. These "place-of-work" estimates must be adjusted to refer to place-of-residence as used in the CPS. Factors for adjusting from place-of-work to place-of-residence have been developed for several categories of employment on the basis of employment relationships at the time of the 1980 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CES—agriculture, nonagricultural self-employed and unpaid family workers, and private household workers.

Preliminary estimate—unemployment. In the current month, the estimate of unemployment is an aggregate of the estimates for each of three categories: (1) persons who were previously employed in industries covered by State UI laws; (2) those previously employed in industries not covered by these laws; and (3) those who were entering the civilian labor force for the first time or reentering after a period of separation.

Sub-State adjustment for additivity. Estimates of employment and unemployment are prepared for the State and LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment must be applied to all sub-State LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment.

Benchmark correction. At the end of each year, sub-State estimates are revised. The revisions incorporate any changes in the inputs, such as revisions in the CES-based employment figures, corrections in claims counts, and updated historical relationships. The corrected estimates are then readjusted to add to the revised (benchmarked) State estimates of employment and unemployment.

Seasonal Adjustment

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

Since January 1980, national labor force data have been seasonally adjusted with a procedure called X-11 ARIMA (Auto-Regressive Integrated Moving Average), which was developed at Statistics Canada as an extension of the 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, January 1983.

At the beginning of each calendar year, projected seasonal adjustment factors are calculated for use during the January-June period. In July of each year, BLS calculates and publishes in *Employment and Earnings* projected seasonal adjustment factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years are made only at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970.

All labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment, and unemployment—data for four sex-age groups (men and women under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is a sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the

total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

Revised seasonally adjusted data for selected labor force series based on the experience through December, new seasonal adjustment factors to be used to calculate the civilian unemployment rate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure are published in each January issue of *Employment and Earnings*. Revised seasonally adjusted data covering the revision period for a broader range of labor force series are published in the February issue of this publication.

Since the early 1980's, the BLS has also used the X-11 ARIMA procedure to seasonally adjust establishment-based employment, hours, and earnings data. The X-11 ARIMA program has been run once each year after benchmarking and seasonal adjustment factors have been projected and published for 12 months ahead (April-March). Beginning in June 1989, with the introduction of the March 1988 benchmarks, the Bureau introduced a modification to this procedure to paralled that used in seasonally adjusting household survey data. Projected seasonal adjustment factors are now calculated only for the first 6 months after benchmarking. A second set of projected seasonal adjustment factors, for use during the subsequent period, will be computed based upon data through September and introduced with the publication of data for October. Revisions of historical data for the most recent 5 years will continue to be made once a year, coincident with benchmark revisions, and published in a Supplement to Employment and Earnings.

The BLS is also working on an extension to X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period (as well as for the occasional effects of Labor Day in the September survey reference period). If this research proves successful, this extension will be introduced for the computation of the seasonal adjustment factors to be published in November 1989.

All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series.

Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban

Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1977 base. For total private, total goods-producing, total private service-producing, and major industry divisions, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1977 base.

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

Seasonal adjustment factors for Federal Government employment are derived from unadjusted data which include Christmas temporary workers employed by the Postal Service. The number of temporary census takers for the 1980 decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

Revised seasonally adjusted establishment-based series based on the experience through March 1989, new seasonal adjustment factors for April-September, and a description of the current seasonal adjustment procedure appear in the June 1989 issue of *Employment and Earnings*.

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