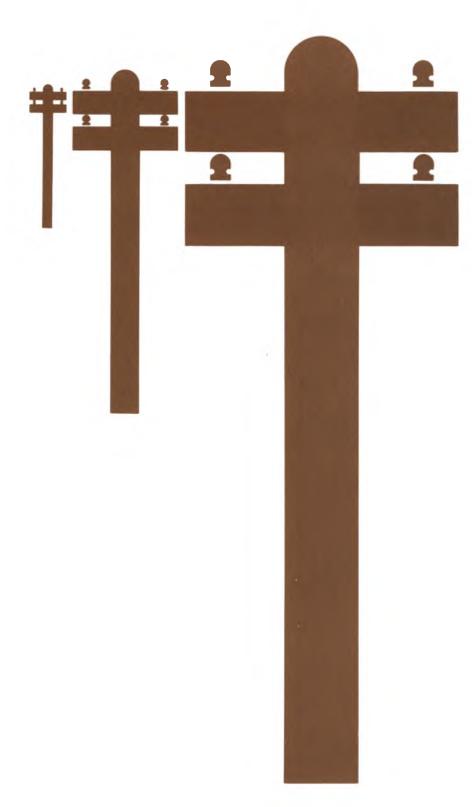
2029

Industry Wage Survey: Communications October-December 1977



U.S. Department of Labor Bureau of Labor Statistics 1979

Bulletin 2029



Industry Wage Survey: Communications October-December 1977



U.S. Department of Labor Ray Marshall, Secretary

Bureau of Labor Statistics Janet L. Norwood, Commissioner June 1979

Bulletin 2029

Preface

This summary of data on employment and hourly rates of pay in the communications industry in 1977 is based on annual reports filed with the Federal Communications Commission (FCC) by telephone carriers, the Western Union Telegraph Co., and international telegraph carriers, as required by the amended Communications Act of 1934. Under a cooperative arrangement with the FCC, the Bureau of Labor Statistics tabulates and publishes the data annually.

The study was conducted by the Bureau's Office of Wages and Industrial Relations. Harry B. Williams of

the Division of Occupational Wage Structures prepared the analysis in this bulletin.

Other publications available from the Bureau's program of industry wage studies, as well as the addresses of the Bureau's regional offices, are listed at the end of this bulletin.

Material in this publication is in the public domain and may be reproduced without the permission of the Federal Government. Please credit the Bureau of Labor Statistics and cite *Industry Wage Survey: Communications, October-December 1977*, Bulletin 2029.

.

Contents

Pa	age
Introduction Telephone carriers Western Union Telegraph Co International telegraph carriers	1 2
Text tables: 1. Number and average straight-time hourly earnings of telephone workers in major occupational categories, 1947 and 1977	1
2. Number and average straight-time hourly earnings of Western Union Telegraph workers in major occupational categories, 1947 and 1977	
Reference tables: Percent distribution of employees in occupational groups by average hourly rates, December 1977, for— 1. Telephone carriers	4 5 6
Average hourly rates of employees in selected occupations by region, December 1977, for— 4. All and Bell System telephone carriers	7
Percent distribution of employees in occupational groups by average hourly rates, October 1977, for— 5. Western Union Telegraph Company 6. International telegraph carriers	9 10
Appendix: Scope and method of survey	11

Communications, October-December 1977

Introduction

The year 1977 marked the 30th anniversary of the Bureau of Labor Statistics' occupational wage surveys of the communications industries. The 1977 survey covered about 830,000 workers of major telephone carriers and 15,000 telegraph workers, who combined, made up well over four-fifths of the Nation's 1 million workers in telephone and wire-telegraph communication. Over the past three decades, the work force in these industries has changed dramatically in both occupational makeup and pay structure. In the telephone branch, where overall employment rose to half again its 1947 level, the proportion of higher paid professional and semiprofessional employees more than doubled while the proportion of lower paid telephone operators declined by more than one half. (See text table 1.) Similarly, in the Western Union Telegraph Company, the proportion of higher paid construction, installation, and maintenance personnel more than doubled since 1947 while the proportion of lower paid telegraph operators fell by one-third. Unlike the telephone industry, however, Western Union's work force in 1977 was only one-fifth as large as it was 30 years earlier. (See text table 2.)

Text table 1. Number and average straight-time hourly earnings of telephone workers in major occupational categories, 1947 and 1977

Item	Octob	er 1947	Decemb	er 1977
nem	Workers	Earnings	Workers	Earnings
Total, all employees, except officials and managerial assistants Percent of total.	552,700 100	\$1.26 —	830,100 100	\$7.94
Professional and semi- professional employees	5	2.72	11	12.32
Business office and sales employees	5	1.45	9	7.90
Clerical employees Telephone operators	17 46	1.19 1.00	23 16	6.70 5.99
Construction, installation, and maintenance workers	23	1.55	37	8.26
motor vehicle employees	4	1.19	3	7.23

NOTE: Employment estimates are rounded to the nearest hundred, and percents are rounded to the nearest whole number. Dashes indicate "not applicable."

Text table 2. Number and average straight-time hourly earnings of Western Union Telegraph workers in major occupational categories, 1947 and 1977

Item	Octobe	er 1947	Octobe	er 1977
	Workers	Earnings	Workers	Earnings
All employees, except				
officials and managerial			ļ	
assistants	53,100	¹\$1.05	11,604	¹\$7.33
Percent of total	100	_	100	_
Professional and				
semi-professional			}	
employees	2	2.26	9	10.53
Telegraph office super-				
intendents and				
managers	8	1.07	4	7.03
Sales employees,	(2)	1.45	5	7.06
Clerical employees	19	.99	20	6.59
Telegraph operators	34	.94	23	5.64
Construction,				
installation,				
and maintenance				
workers	13	1.26	34	8.14
Building service				
employees	3	.90	1	5.69
Messengers, motor	3	.87	3	4.90
Messengers, walking				1
and bicycle	18	.65	1	3.40

 $^{{}^{1}\}textsc{Excludes}$ messengers in addition to officials and managerial assistants.

NOTE: Employment estimates are rounded to the nearest hundred, and percents are rounded to the nearest whole number.

Highlights of the 1977 survey and recent wage trends are presented below. A more detailed analysis of long-term patterns is available from prior reports, the most recent of which is *Industry Wage Survey: Communications, October-December 1976* BLS Bulletin 1991 (1978).

Telephone carriers

Straight-time hourly earnings of the 830,000 workers employed by the Nation's 63 principal carriers averaged \$7.94 in December 1977. Individual earnings of four-fifths of the workers fell within a range of \$3.50 to \$9.50 an hour. The middle 50 percent of the work force earned between \$6.10 and \$8.85 an hour. Some factors contributing to the wide dispersion of earnings were the broad range of skills required by the communications industry, differences in pay by carrier and

¹The study was limited to the 63 carriers that had annual operating revenues exceeding \$1 million and were engaged in interstate or foreign communications services either through use of their own facilities or through connections with another carrier under direct or indirect common control. Officials and managerial assistants of these carriers were not included in the study.

²Less than 0.5 percent.

locality, and pay rates which vary within a given occupation by length of employee service.

The occupations shown in tables 1 through 4 represent the full spectrum of activities performed by employees in the telephone industry. Among the major occupational categories, average hourly earnings in December 1977 ranged from \$12.32 for professional and semiprofessional employees to \$5.99 for telephone operators. Construction, installation, and maintenance employees were the largest employment group with nearly 307,000 workers; hourly earnings for these workers averaged \$8.26. Some other heavily populated groups (and their hourly averages) were: Business office and sales employees (\$7.90); building, supplies, and motor vehicle employees (\$7.23); and clerical employees (\$6.70).

Employees of the Bell System carriers, slightly over nine-tenths of all telephone workers, held a 23-percent average wage advantage over those of non-Bell carriers-\$8.06 compared to \$6.57 an hour. Similar pay relationships were also found among various occupational groups studied; occupational averages for non-Bell workers typically ranged from 70 percent to about 85 percent of those for Bell employees. Differences between the worker groups narrowed slightly when weekly earnings were compared, reflecting, for some occupational groups, the longer average workweeks reported for non-Bell workers.

Workers in the Middle Atlantic States, the largest region in terms of employment, recorded the highest average-\$8.83 an hour. Other regional averages fell between \$7.25 and \$8.25 an hour in December 1977. Of the 47,467 workers who could not be allocated to individual regions but were included in the nationwide total, seven-eighths were employees of the American Telephone and Telegraph Company's Long Lines and General Departments; these workers averaged \$9.90 an hour. ²

Wage levels of the principal telephone carriers in December 1977 rose 8.0 percent from the previous year. Part of this change resulted from wage increases negotiated under collective bargaining agreements. For example, the Bell System contract, negotiated in 1977, provided for an immediate general wage increase that varied by tenure up to a maximum of 8 percent.³.

The 8.0-percent rise for 1976-77 was the smallest annual gain for telephone workers in the 1970's. Between 1970 and 1976, telephone wage increases averaged 11.2 percent per year; over the 30 years of BLS communications surveys, the annual average rise has been slightly over 6 percent.

Telephone carriers included in the Bureau survey employed 830,100 workers in December 1977-an increase of 20,000 workers or 2 percent over the previous year. Bell System carriers increased their work force by 1 percent, to 764,800; employment in non-Bell carriers rose 24 percent, to 65,300. Most of the increase

for non-Bell carriers, however, reflected the addition of a major independent carrier with nearly 10,000 workers, reporting for the first time in the 1977 survey. Excluding this carrier, the increase for non-Bell employees was 5 percent between December 1976 and December 1977.

Western Union Telegraph Co.

Wage rates for the 11,100 nonmessenger employees in the Western Union Telegraph Co. ⁴ averaged \$7.33 an hour in October 1977 (table 5). This was 7.6 percent above the \$6.81 average reported one year earlier. The average for 500 messengers was \$4.59 an hour-up 6.3 percent from October 1976. Motor messengers held a 44-percent average wage advantage over those who either walk or use bicycles to perform their duties-\$4.90 to \$3.40 an hour.

Wage rates for Western Union bargaining unit employees are determined by labor agreements with the United Telegraph Workers (UTW) in all areas except the New York metropolitan area where agreements are with the Communications Workers of America (CWA). Unlike those in prior contracts, wage adjustments differed somewhat under terms of the two agreements, dated July 1976, as follows: Workers who were in the bargaining units of the UTW received an across-theboard increase of 6.829 percent, effective July 28, 1977, with no cost of living adjustment; those under the CWA contract were provided a 3-percent general wage increase on the same date plus a 29-cent cost-of-living adjustment. 'Other wage adjustments related to specific job classifications or types of work assignments also specified in both agreements.

²Also excluded from the regional tabulations but included in the U.S. totals were carriers operating in Alaska, Hawaii, Puerto Rico, and the Virgin Islands. These carriers, none of which were affiliated with the Bell System, employed 5,967 workers averaging \$8.36 an hour.

³The 1977 agreement between the American Telephone and Telegraph Company and the Communications Workers of America provide for wage increases of 3 percent, with a guaranteed minimum increase of \$5 a week, on Aug. 6, 1978, and Aug. 5, 1979. In addition, cost-of-living adjustments, tied to the BLS Consumer Price Index, were scheduled on the first and second anniversary dates of the contract.

⁴The Western Union Telegraph Co., a subsidiary of the Western Union Corp., is a communications common carrier engaged principally in the business of providing tariffed telecommunication systems and services to business customers, the government, and the public. Such operations include teletypewriter networks, leased private communication systems, telegram message services, money order services, mailgram services, contract maintenance service and Response-Phone (telephone order and inquiry service).

⁵The wage escalator clause provides for adjustments of 1 cent for each 0.4-percentage point change in the Bureau of Labor Statistics Consumer Price Index (1967=100). For a more detailed account, see Wage Chronology: Western Union Telegraph Co. and the Telegraph Workers and the Communications Workers, 1976-79 Supplement to the BLS Bulletin 1927. (Bureau of Labor Statistics, 1978).

Among the major occupational groups studied, the professional and semiprofessional staff recorded the highest average-\$10.53 an hour. Construction, installation, and maintenance employees (the most heavily populated group studied) averaged \$8.14 an hour. Other key employee groups and their average hourly rates included: Sales employees (\$7.06); telegraph office superintendents and managers (\$7.03); clerical employees (\$6.59); building service employees (\$5.69); and telegraph operators (\$5.64).

Wage rates for the highest paid workers exceeded those of the lowest paid by at least \$4 an hour for most employee groups. In a few jobs, however, rates were within a narrow band. For example, individual earnings fell between \$3.50 and \$4.00 for virtually all operators-in-training; between \$4.50 and \$5.50, for four-fifths of the motor messengers; and between \$7.50 and \$8.50, for nine-tenths of the subscribers' equipment maintainers.

Employment at Western Union totaled about 11,600 in October 1977. This was 31 percent below the level 5 years earlier.

International telegraph carriers

Wage rates for the five international telegraph carriers included in the October 1977 survey averaged \$9.10 an hour-up 14 percent from October 1976. The 4,600 nonmessenger employees, who made up 97 percent of the work force of the five companies, averaged \$9.25 an hour in October 1977; messengers, the lowest paid

employee group studied, averaged \$3.21 an hour. Hourly averages for the other groups covered a broad range: Nonsupervisory clerical employees, operators, building service employees, sales employees, and construction, installation, maintenance, and other technical employees, between \$6.50 and \$9.50; supervisory employees, between \$11 and \$12; and office or station superintendents and assistants, and professional and semiprofessional employees, over \$12.

Employment in surveyed international telegraph carriers was basically unchanged between October 1976 and October 1977-down 1 percent to 4,700 workers. Over the past 10 years, these carriers' employment has fluctuated within a narrow range from 4,700 to 5,500 workers.

Men accounted for nearly five-sixths of the work force in October 1977 and were predominant in all occupational groups except nonsupervisory clerical employees. Three out of four women were clerical workers and of the remainder, about 1 out of 2 were operators, typically teletype-multiplex operators.

⁶ The study included carriers engaged in nonvocal international telegraph communication either by radio or ocean cable. Although many of the occupational categories studied are common to both operations, some are exclusive to one carrier group. For example, radio telegraph operators and cable operators were employed only in ocean cable operations.

Table 1. Telephone carriers: Percent distribution of employees in occupational groups by average hourly rates², December 1977

	Numbe	r of emp	loyees											eceivi					
		, ,		Average	Average			\$4.00	\$4.50	\$5.00	\$5.50	\$6.00	\$6.50	\$7.00	\$7.50	\$8.00	\$8.50	\$9.00	\$9.5
Occupational group	Total	Men,	Women	scheduled weekly hours	hourly rates	\$3.50	under	- ** **	- 00	- #5 50	-	- 86 50	- *7.00	- 67.50	-	- 60 50	\$9.00	- *0.50	and
				Hours		_	34200	34.30	\$3.00	#3.30	30.00	30, 30	37.00	37.30	30.00	\$0.30	\$7.00	\$ 3. 30	000
ll employees, except officials and							1			'									
	830,087	407,367	422,720	38.4	\$7.94	0.7	2.2	2.5	2.5	3.1	11.6	10.9	8.7	6.0	7.0	13.9	8.0	3.7	19.1
art-time employees, including	11 030	1 610	10 (120	24.0	5.16	-	_		_		_	_	_	_		_			
officials and managerial assistants	11,939	1,519	10,420	24.U	3.10	-	-	_		_	_	-	-	_	_	_	-	-	-
employees	92.067	65,709	26.358	38.1	12.32		. 1	. 2	. 2	.3	.6	1.0	1.5	1.6	2.2	2.4	3.1	3.5	83.4
Drafters	1.609	656	953	40.1	6.62	.9	2.1	4.4	3.9	5.8	14.4	17. 3	14.3	8.4	5.6	5.8	3.2	4.5	9.4
Others	90,458		25,405	38.1	12.43	4		.1	- 1	.2	. 3	. 7	1.3	1.5	2.1	2.3	3.1	3.5	84.7
usiness office and sales employees	78,823			38.0	7.90	.5	2.0	2.4	2.6	2.7	4.7	10.6	20.7	15.4	1.9	7.4	2.7	3.0	23.4
Supervisors	8,553	1,855	6.698	38.3	10.33	*			. 1	. 2	. 2	. 5	. 0	1.5	3.1	4.9	10.1	9.7	60.9
Nonsupervisory employees	70.270		50,377	38.0	7.60	,5	2.2	2.7	3.0	3.1	5.3	11.8	23.2	17.1	1.7	7.7	1.8	2.2	17.9
lerical employees	190,600		162,074	37.9	6.70	1.4	3.4	3.5	3.6	5.3	20.4	21.9	14.6	5.8	3.1	2.9	2.1	1.9	10.1
Supervisors	18,516	4,724	13,792	38.2	9,99		-1	. 1	. 1	. 2	. 3	1.3	3.2	5.4	6.7	6.8	9.1	9.9	56.6
Nonsupervisory	172,084	23,802	148,282	37.9	6.34	1.5	3.8	3.9	4.0	5.B	22.6	24.1	15.8	5.8	2.7	2.5	1.3	1.1	5.1
Commercial department	29,618	2,211	27,407	37.1	5.92	2.4	5.5	5.9	4.8	6.4	25.0	23.6	15.5	6.6	2.1	1.2	.3	. 2	5
Traffic department	9,706	367	9,339	37.9	6.16	1.7	1.3	2.8	4.3	3.1	29.1	31.9	14.9	5.5	1.3	1.3	.6	.5	1.7
Plant department	32,031	3,587	28,444	38.6	5.96	1.9	3.8	4.3	4.5	8.4	33.4	21.6	10.4	3.7	1.5	2.8	1.6	.6	1.3
Accounting department	30,070	4,120	25,950	37.6	6.45	1.0	3.0	2.8	3_4	4_7	17.2	25.4	22.1	9.3	3.2	1.7	. 8	. 8	4.5
All other departments	70,659			38.1	6.68	1.2	3.7	3.4	3.6	5.2	18.1	23.8	15.8	4.9	3.6	3.5	2.0	1, 9	9.4
elephone operators	135,086	8,162	126,924	36.3	5.99	1.4	6.2	6.9	6.0	5.9	29.6	20.2	7.0	5.3	4.4	1.3	1.1	. 9	3.7
Chief operators	8,156	337	7,819	38.2	9.54	.1				-4	1.2	1.9	2.3	5.4	7.4	10.7	11_4	11.4	47.7
Service assistants and instructors	8,252	261	7,991	36.7	6.70	*	. 1	_4	1.0	2.5	12.2	37.9	20.1	7.2	7.1	4.3	1.4	1.5	4.1
Experienced switchboard operators	105,561	4,496	101,063	36.1	5.83	1.4	2.6	5.3	6.7	7.1	36.4	22.0	6.9	5.7	4.5	_4	.3	. 2	6
Operators in training	11,431	2,992	8,439	36.5	4.12	3.2	49.4	32.5	8.5	2.5	2.4	. 4	. 2	. 1	*	*	.5		. 1
Other switchboard employees	1,686	74	1,612	37.7	6.84	-	.2	. 2	. 7	1.4	12.5	43.6	15.9	7.6	4.9	2.2	2.6	1.7	6.5
construction, installation, and				1										}			}		ŀ
maintenance employees		263,023	43,869	39.8	8.26	.1	.5	.7	.8	1.2	3.3	3.2	4.5	5.1	13.2	31.7	17.6	6.2	11.8
Supervisors of telephone craft workers	39,946		3,486	39.9	10.53	*	-		-		. 1	. 2	- 4	6	1.3	2.9	5.7	10.4	78.5
Central office craft workers	123,020			39.7	7.83	.3	.7	.7	. 7	2.0	6.9	5.4	6.5	5.7	11-1	31.0	17.4	8.9	2.6
Test board and repeater workers	21,178	18,600	2,578	39.9	8.42		*	-1	. 2	_4	1.1	1 .7	1.6	2.1	9.1	43.5	23.9	14.2	3.3
Central office repairers	52,085		3,690	39.9	8.36	*		-1	-2	.3	. 8	. 8	2.3	2.7	12.5	39.7	23.7	13.8	2.7
Others	49,757	19,733	30,024	39.3	7.00	.8	1.7	1.6	1.4	4.5	15.9	12.2	13.0	10.3	10.5	16_4	8.0	1.6	2.2
Installation and exchange repair								_	_	_		1						١	١
craft workers	96,181	93,309	2,872	40.0	8.07		.2	-7	. 9	-7	1.0	1.9	3.6	6.1	18.5	41_2	22.7	1.4	1. 1
PBI and station installers	46,198	44,309	1,889	40.0	8.01		.3	1.0	1.2	-9	1.3	2.8	3.9	5.0	17.0	41.1	24.0	. 8	1 .8
Exchange repairers	29,167	28,726	542	40.0	8.22		-1	- 4	- 6	.3	1.4		3.0	11.3	14.9	43.3	29.0	2.4	-8
Others	20,816	46,418	1,206	40.0	7.89		.2	.7	-8	.6	1.0	1.7				38.7	10.8	1.5	2.0
Line, cable, and conduit craft workers	47,624 26,180	25,745	435	40.0	7.78		.7	1.5	1. 2	1.1	1.5	2.5	3.8	5.4	18.2	38.7	18.0	4.9 3.8	1.5
Cable splicers	19,977	19,332	645	40.0	0.02								5.5	5.2	17.1	40.4			
Cable splicers' helpers	450	395	55	39.9	6.35	.2	6.0	6.0	3.8	3.6	1.2	2.2	24.2	4.0	7. 8	5.1	18.6	6.3	. 6
Others	1,017	946	71	39.9	8.88	-4	.2	-4	2.3	1.0	.8		3.6	1.4	8.3	18.0	18.4	8.4	35.9
Laborers	119	106	13	33.8	5.82	1 -	30.3	5.9	3.4	6.7	21.0	1. 1	.8	31.9	0.3	10.0	10.4	0.4	33.3
uilding, supplies, and motor vehicle		"""		3340	5.02	į –	3023	3. 3	3. 4	0	41.0	_		31.3	_	_	_		-
employees	25.390	19,529	5,861	39.1	7.23	1.0	1.8	2.8	4.7	7.4	11.1	9.6	12.7	6.4	8.3	9.8	7.9	3.3	11.1
Supervisors	3,044	2,709	335	39.7	10.08	*	1.1	. 1	1	1 1	1 . 9	1.7	1.2	2.0	3.2	5.6	7.5	9.5	68.2
Bechanics	4,047	3,793	254	39.7	8.03	.9	.5	.,	1. 2	2.8	2.1	4.2	7.7	8.0	9.7	28.7	24.0	4.7	4.9
Other building service employees	6,938	4,172	2,766	37.9	5.51	2.5	4.1	6.9	13. 2	19,6	28.2	13.9	9.0	1.0	3.7	_4	.2	1.2	4.9
Other supplies and motor vehicle	0,550	~,.,*	2,00	1 """	"""	200	7.	0.3	.3.2	17.0	20.2	13.3	3.0	1	1	- "		1	"
employees	11,361	8,855	2,506	39.6	7_19	.4	1.3	1.8	2.1	3.5	6.5	10 . 9	19.8	14.9	14.1	9_9	7.1	3.2	4.6

Ocvers 63 telephone carriers which have annual operating revenues exceeding \$1,000,000. These carriers are engaged in interstate or foreign communications service using their own facilities or through connection with those of another carrier under direct or indirect common control.

² See appendix for definition of hours and rates used in this bulletin.
NOTE: Asterisk (*) indicates less than 0.05 percent. Dashes (-) indicate that no data were reported. Because of rounding, sums of individual items may not equal 100.

Table 2. Bell System telephone carriers: Percent distribution of employees in occupational groups by average hourly rates², December 1977

	Rumbe	of emp	Loyees										yees r					P = 30 0	
				Average	Average	A	\$3.50	\$4.00	\$4.50	\$5.00	\$5.50	\$6.00	\$6.50	\$7.00	\$7.50	\$8.00	\$8.50	\$9.00	159.5
Occupational group	Total	Men	Women	scheduled		Under	and	_	_	_	l _	l _	l _	_		_			
	10041	.ieii	women	weekly hours	rates	\$3.50		\$4.50	\$5.00	\$5.50	\$6.00	\$6.50	\$7.00	\$7.50	\$8.00	\$8.50	\$9.00	\$9.50	ove
All employees, except officials and																			-
managerial assistants Part-time employees, including	1	371,425	393,368	38.4	\$8.06	0.3	2.0	2.1	1.8	2.5	12.1	11.4	8.7	5.8	6.8	14.3	8.5	3.7	20.1
officials and managerial assistants Professional and semiprofessional	9,228	1,134	8,094	24.8	5.48	-	-	-	-	-	-	100	17	-			-	-	-
employees	84.800	60,209	24.591	37.9	12.63			*	. 1	1	. 3	. 6	1. 1	1.3	1.7	1.9	2.6		87. 1
Drafters	1,104	39 2	712	37.7	7.32	.3	.7	1.5	2.4	3.5	15.1	17.8	12.6	7.6	7.2	7.5	4.5	6.6	12.6
Others	83,696	59,817	23,879	37.9	12,70				*		. 1	. 4	. 9	1.2	1.7	1.9	2.6	3.0	
Business office and sales employees	74, 150	21,027	53,123	37.9	8.03	.2	1.6	2, 1	1.7	2_0	3.0	11.0	21.8	16.3	1.8	7.6	2.7		88.
Supervisors	7,885	1.574		38.1	10.49	*			'-'			11.0	- 9					3.0	24.
Nonsupervisory employees	66.265	19.453		37.9	7.73	.2	1.8	2.4	1.9	2.2	200	12.1		.8	2.2	4.0	10.0	9.5	72.9
Clerical employees	177,858		150,845	37.9	6.82	.8	3.1	2.7	2.4	3.9	4.2	12.3	24 . 3	18.1	1.7	8.0	1.8	2.3	18.7
Supervisors	17,910		13,507	38.1	10.06	**	3.1	2. /	2.4		21.3	23.3	15.4	6.0	3.3	3.1	2.2	2.0	10.
Nonsupervisory			137,338	37.9	6.45	_				. * .	- 1	1.0	3.1	5.4	6.7	6.7	9.0	10.0	57.5
Commercial department	27.286	2,131		37.4		8.	3.4	3.0	2.7	4.3	23.6	25.7	16.8	6.0	2.9	2.6	1.4	1.2	5.4
Traffic department		302		37.8	6.00	1.1	5.3	4.6	3.8	5.2	25.9	25.6	16.8	7.2	2.3	1.2	. 3	-2	
Plant department					6.31	-2	. 7	.8	1_0	1.9	31.6	35.7	16.8	6.1	1.4	1.2	.5	. 4	1.1
		2,967		38.5	6.09	1.1	3.3	2.8	2.5	5.7	37.3	24.3	11.1	3.3	1.6	3.1	1.8	. 7	1.5
Accounting department	28,454	4,022		37.5	6.55	5	2.6	2.4	2.2	3.2	17.8	26.7	23.3	9.8	3.3	1.8	.8	. 9	4.7
All other departments		13,188		38.0	6.76	. 8	3.4	3.0	2.7	4.2	18.4	24.7	16.4	5.1	3.7	3.6	2.1	2.0	9.1
Telephone operators			116,841	36.1	6.09	_4	5.7	6.2	4.1	5.1	31.8	21.7	7.4	5.7	4.7	1.3	1.0	.9	3.5
Chief operators	7,487	313	7,174	38.0	9.73	*		*		.1	- 2	. 5	1.3	4.9	7.0	10.8	12. 1	12.0	50.5
Service assistants and instructors	7,842	244	7,598	36.6	6.73		. 1	.3	.5	1.3	11.8	39.4	20.7	7.3	7.3	4.4	1.4	1.2	4.2
Experienced switchhoard operators	96,293	4,132	92,161	35.9	5.96	_1	1.4	4.2	4.3	6.2	39.6	24.0	7.5	6.3	4.9	.5	- 1	.1	
Operators in training	11,318	2,980	8,338	36.5	4.09	3.2	49.9	32.9	8.2	2.5	2.4	. 4	.2	. 1		-			
Other switchboard employees	1,636	66	1,570	37.6	6.83	-	.1	. 2	- 7	. 9	12.5	44.6	15.9	7.6	4-7	2. 1	2.6	1.8	
Construction, installation, and		1	i -	-				"-	1		12.63	77.00		,	44.	20 1	2.0	1.0	6.4
maintenance employees	280,735	238,213	42.522	39.8	8.34	,1	. 4	. 6	. 6	1.0	3.3	2.8	3.4	4.1	12.6	33.1	19.1		
Supervisors of telephone craft workers	36,637	33, 291	3.346	39.9	10-65	1			- 0	*	3.3							6.5	12.4
Central office craft workers	114.961	79,468	35,493	39.7	7.86	.3	.7	.7	-6	2.0	7.2	.1	. 3	-4	.7	1.8	4.9	9.6	82.
Test board and repeater workers	20,338	17,913	2,425	39.9	8.47	*3	: '					5.4	5.8	4.6	10.B	31.0	18.6	9.5	2.6
Central office repairers	48, 192	44,766	3,426	39.9	8.46			-1	+1	.3	1.0	. 5	. 6	1.1	8.4	44.9	24.9	14.7	3,5
Others	46,431	16,789	29,642	39.2	6.96	1 '		- 1	- 1	• 1	- 6	. 4	. 5	1.0	12.1	41.7	25.6	14.8	3.0
Installation and exchange repair	40,431	10,763	29,042	39.2	0.30	.0	1.7	1.6	1.3	4.6	16.7	12.8	13.5	9.9	10.5	14.0	8.6	1.7	2.3
craft workers	85,792	83.271	2 5 2 4						-					7100					
PBI and station installers	63,792		2,521	40_0	8.16		.2	.5	.7	. 4	. 6	- 9	1.7	4.8	17.8	44.6	25.4	1.6	. 8
FDE BING SCRILLON INSTRILLERS		38,804	1,849	40.0	8.14		.3	.7	1.0	. 6	. 8	1.1	2.2	4.4	14.6	45.2	27.3	. 8	. 5
Exchange repairers	27,621	27,261	360	40.0	8.28	*	.1	- 2	. 4	.1	- 3	5	1.1	4.4	15.4	43.5	30.6	2.5	-1
Others	17,518		312	40.0	8.02	*	.3	. 7	.5	. 4	<u>_</u> 5	. 8	1.6	6.5	28.7	45.0	12.8	1.7	
Line, cable, and conduit craft workers	43,345	42,183	1,162	40.0	8.00	*	6	1.1	. 9	. 8	1.0	1.8	2.8	4.4	17.4	42.2	19.8	5.4	1.7
Line workers	24,326	23,899	427	40.0	7.90	*	.7	1.2	. 9	.8	1.0	1.5	2.7	5.1	20.0	41.5	19.2	4.1	1. (
Cable splicers	17,641	17,003	638	40.0	8.13	-	.2	. 8	. 9	.8	. 9	1.6	2.5	3.5	14.6	45.2	21.0	7.1	
Cable splicers helpers	431	378	53	40.0	6.40	.2	5.3	5, 1	3.7	2.8	5.8	30.6	25.3	3.9	8.1	5.1	3.5	.5	
Others	947	903	44	39.9	9.10	-	_	. 2	- 1	1.0	. 6	1. 1	. 8	1.5	8.2	19.2	19.7	9.0	38.5
Laborers	-	-	-		-	-	-		-		-				-	1 3.2	12.7	7. 0	30 4 -
Building, supplies, and motor vehicle					-		1						_	_	_	_		_	-
employees	22,357	17, 113	5,244	39.1	7.40	.2	.6	1. 3	4.4	7.2	11.4	9.2	13.2	8.7	0.0	10 6	0.0	11	
Supervisors	2,657	2,366	291	39.7	10.37			1.3	7. 4	7.4	11.4				8.9	10.6	8.8	3.6	11.9
Bechanics	3,424	3,284	140	39.9	8. 17	1 7	1	-2		.6	1,6	3.5	. 8	1.4	1.7	3.8	6.7	9.3	76.0
Other huilding service employees	6,073	1,562	2,511	37.7	5.69	.4	1.1		13.6				5.8	6.0	10.0	33.7	28.4	5.5	3.
Other supplies and motor vehicle	0,073	1,302		3.4.	3.09	- "	1 - 1	3.1	13.6	22.0	31.9	15.6	10.0	1.0	. 2	.3	2	. 2	4.4
employees	10,203	7,901	2,302	39.6	7.33	,	1 7			2 0				20.0	126 9	100	0.3		100
All employees not elsewhere classified	317	115	2,302	37.3	9.26	2.3	2.7	1.9	1.3	2.4	5.5	9.5	20.7	16.2	15.6	10.8	7.9	3.5	4.8
war ambroloss not errespere cressiriens sees	317	1113	202	3/43	7 - ∠0	2.8	2.2	2.2	1.3	2.8	8.5	10.1	12.9	14.2	4.7	3. 2	1.3	2.2	31.

Overs 25 Bell System telephone carriers which have annual operating revenues exceeding \$1,000,000. These carriers are engaged in interstate or foreign communications service using their own facilities or through connection with those of another carrier under direct or indirect common control.

² See appendix for definition of hours and rates used in this bulletin.

NOTE: Asterisk (*) indicate less than 0.05 percent. Dashes (—) indicate that no data were reported. Because of rounding sums of individual items may not equal 100.

Table 3. Non-Bell telephone carriers: Percent distribution of employees in occupational groups by average hourly rates², December 1977

	Number	of empl	oyees											eceivi					
				yverage	Average	1		\$4.00	\$4.50	\$5.00	\$5.50	\$6.00	\$6.50	\$7.00	\$7.50	\$8.00	\$8.50	\$9.00	\$9.5
Occupational group	Total	Men	Women	scheduled		Under		-	- 1	-	-	_	_	_	_	-	_	_	and
	1000	l lien	***************************************	weekly	rates	\$3.50	under						1						
			Ĺ	hours			\$4.00	\$4.50	\$5.00	\$5.50	\$6.00	\$6.50	\$7.00	\$7.50	\$8.00	\$8.50	\$9.00	\$9.50	0.461
All employees, except officials and	T																		
managerial assistants	65,294	35,942	29,352	39.4	\$6.57	4.9	5.2	7.6	11.4	10.3	6.1	5.4	9.0	8.4	9.9	8.4	2.6	2.7	8,1
Part-time employees, including	1	'	1					_	_										1
officials and managerial assistants	2,711	385	2,326	21.6	3.88	-	-	-	-	-	-	-	-	-	_	_	-	-	-
Professional and semiprofessional		1													!				
employees	7,267	5,500	1,767	40.3	8.88	. 3	.6	1.4	2.1	2.9	3.2	5.6	7.0	5.7	7.1	7.3	8.4	6.3	40.0
Drafters	505	264	241	45.2	5.35	2.4	5.1	10.5	7.3	10.7	12.9	16.0	18.0	10.1	2.2	2.0	. 2		2.6
Others	6,762	5,236	1,526	40.0	9.18	.1	. 3	. 7	1.7	2.3	2.5	4.8	6.2	5.4	7.5	7.7	9.0	8.9	42.8
Business office and sales employees	4,673	721	3,952	39.4	5.92	4.9	7.5	6.3	17.1	14.8	20.3	4.0	4.3	2.2	2.9	3.6	2.7	3.0	6.1
Supervisors	668	281	387	40.0	8.56	-3	-		1. 3	2.5	2.5	4.8	5.7	9.3	13.3	15.7	11.2	11.8	21.4
Monsupervisory employees	4,005	440	3,565	39.3	5.47	5.7	0.0	7.4	19.8	16.9	23.3	3.8	4.1	1.0	1. 1	1.6	1.3	1.6	3.6
Clerical employees	12,742	1,513	11,229	38.3	5.09	10.2	8.6	15.0	20.2	24 _ 1	8.7	2.7	2.6	2.8	. 9	1.2	.9	.5	1.4
Supervisors	606	321	265	40.0	7.93	. 2	1.7	2, 1	4.1	6.6	6.1	9.1	5.8	6.1	7.3	9.9	10.7	7.6	22.8
Nonsupervisory	12,136	1,192	10,944	38.2	4.94	10.7	9.0	15.7	21.0	24.9	8.8	2.4	2.4	2.7	. 6	. 8	. 5	. 2	. 4
Commercial department	2,332	80	2,252	33.4	4.89	16.9	9.0	21.7	16.4	19.8	14.6	- 4	.7	*	.1	- 1	- 2		-
Traffic department	1,088	65	1,023	38.3	4.95	13.1	5.6	18.8	30.6	12.7	9.4	2.1	.5	1.1	_ 4	2.0	1.7	1.0	1.0
Plant department	3,922	620	3,302	39.5	5.06	7.9	7.8	15.6	19.2	28.0	5.4	2.3	5.6	6.7	.7	.7	- 1	-	.2
Accounting department	1,616	9.8	1,518	39.6	4.84	9.8	10.4	10.2	24.6	31.9	6.7	1.9	- 2	1.3	1.2	. 4	. 9	. 2	. 1
All other departments	3,178	329	2,849	39.6	4.89	9_4	10.8	13.1	21.4	25.5	9.7	4.4	1.6	.9	.7	1.1	.5	- 2	. 8
Telephone operators	10,510	427	10,083	38.4	4.83	13.0	12.6	15.3	20.6	15.5	3.8	2.5	1.4	1.0	1_0	.7	2.7	1.2	. 0
Chief operators	669	24	645	40.0	7.51	. 4	. 3	. 1	. 3	3.7	12.0	17.5	13.9	10.8	11.7	9.3	3.6	5.1	11.4
Service assistants and instructors	410	17	393	40.0	6.16	- 5	. 2	2.9	10.5	25.9	10.8	9.8	8.3	6.8	4.4	2.0	1.7	6.6	1.7
Experienced switchboard operators	9,268	366	8,902	38.2	4.53	14.6	14.2	17.2	31.5	16.0	2.6	1.1	. 1	*	-	-	2.1	. 7	
Operators in training	113	12	101	38.6	6.72	7.1	-	-	38.1	-	-	-	-	-	. 9	. 9	53.1	-	-
Other switchboard employees	50	0	42	40.0	7.22	-	2.0	-	-	16.0	14.0	18.0	16.0	8.0	10.0	6.0	-	-	10.0
Construction, installation, and								1											
maintenance employees	26, 157	24,810	1,347	40.0	7.45	.1	_7	2.0	2.6	2.7	3 . B	7.2	16.8	16.4	19.8	16.9	1.8	2.9	6.2
Supervisors of telephone craft workers	3,311	3, 171	140	39.9	9.24		-	-	-	. 1	. 3	.7	2.0	3.0	7.8	14_0	14.3	19.6	37.5
Central office craft workers	8,059	7, 26 0	799	39.9	7.28	- 2	. 7	. 9	2.2	3.0	3.3	4.7	17.1	21.3	15.6	29.7	. 1	. 8	_4
Test board and repeater workers	840	687	153	40.0	7.13	-	.1	. 2	2.5	2.5	3.5	5.1	26 . 1	25.8	24.8	9.2	- 2	-	-
Central office repairers	3,893	3,629	264	40.1	7.16		3	6	1.7	2.9	3.0	6.3	24.8	24.7	18.1	16.0		1.5	_ 1
Others	3,326	2,944	382	39.7	7.46	•5	1.3	1.3	2.8	3.3	3.7	2.8	6.0	16.1	10.2	51.0	- 1	. 2	. 8
Installation and exchange repair													1						
craft workers	10,389	10,038	351	40.0	7.33	*.	. 2	2. 2	3.0	2.8	3.9	10.3	18.7	16.8	24.9	13.2		. 3	3.4
PBI and station installers	5,545	5,505	40	40.1	7.02	-1	- 3	2.6	2.9	3.3	4.7	14.8	15.9	9.2	34.7	10.7	-	. 5	
Exchange repairers	1,546	1,465	81	40.0	7.13	.1	-1	2.7	4.5	3.6	2.4	3.0	37.5	1.6	4.7	39.8	. 1	-	-
Others	3,298	3,068	230	40.0	7.94	- ·	-1	8.	2.3	1.7	3.4	6.3	14.6	36.9	17.9	5.0	- 1	. 2	10.6
Line, cable, and conduit craft workers	4,279	4,235	44	40.1	6.74	- 1	1.7	5.2	4.5	3.9	6.4	9.5	23.3	16.1	25.3	3.7	-	. 3	*
Line Workers	1,854	1,846	8	40.0	6.19	-1	3,5	10.7	7.8	7.2	10.3	13.3	17.3	13.8	12.7	3.3	-	-	. 1
Cable splicers	2,336	2,329	7	40.1	7.21	-		-8	1_0	1.2	3.3	6.7	27.8	18.4	36.0	4.2	-	. 5	-
Cable splicers' belpers	19	17	2	38.9	5.03		21.1	26.3	5.3	21.1	10.5	5.3		5.3		5.3	-	-	-
Others	70	4.3	27	40.0	5, 67	5.7	2.9	2.9	31.4	1-4	2.9	1.4	41.4	1	8.6	1.4	-	-	-
Laborers	119	106	13	33.8	5.82	-	30.3	5.9	3.4	6.7	21.0	-	. 8	31.9	-	-	-	-	-
Building, supplies, and motor vehicle						l	l			١									
employees	3,033	2,416	617	39.2	6.01	6.6	10.6	14.2	7.4	8.8	8.3	12.3	9.3	6.2	4.3	3.4	1.8	1.5	5.3
Supervisors	387	343	44	40.0	8.07	.3	- 5	. 5	. 5	5	6.5	11.4	3.9	6.2	13.2	17.6	13.2	11.1	14.7
Mechanics	623	509	114	38.4	7.24	6.1	2.7	3.2	4.3	14.6	4.7	7.7	18_0	18.9	8.0	1.0	- .	-	10.0
Other building service employees	865	610	255	38.7	4.32	17.1	25.3	33.8	10.3	2.0	2.5	1.8	2.2	1.2	1.3	. 9	.1	. 2	-5
Other supplies and motor vehicle				1		l	l	l	l	l	l	l	1	l	l	l i			l .
employees	1,158	954	204	39.6	5.91	1.0	7.3	10.0	9.2	13.0	15.1	23.0	11.8	3.2	1.6	1. 9	.3		2.8
All employees not elsewhere classified	912	555	357	40.0	6.61	5.6	6.1	6.5	2.7	12.5	6.6	7.8	3.0	4.8	30.5	2.7	2.4	2.5	6.3

¹ Covers 38 non-Bell talephone carriers which have annual operating revenues exceeding \$1,000,000. These carriers are engaged in interstate or foreign communication service using their own facilities or through connection with those of another carrier under direct or indirect common control.

0

² See appendix for definitions of hours and rates used in this bulletin.
NOTE: Asterisk (*) indicates less than 0.05 percent. Dashes (-) indicate that no data were reported. Because of rounding, sums of individual items may not equal 100.

Table 4. All and Bell System telephone carriers: Average hourly rates² of employees in selected occupations by region, December 1977

Occupational group	United	States ³		igland	Middle A		Great		Chesar			heast		Central		Central	Hount			ific
Occupational group	of	hourly	of	Average bourly		Average		Average		yAsiade		Average			Humber		Number	lverage	Number	Averag
	workers		workers		workers	hourly	of workers	hourly		hourly	of	hourly	of	bourly	of	hourly		hourly		hourly
	AOL MET S	Iraces	aorrera	Tares	AOLYGIA	reres	AOLIGIS	Lates	MOLFELB			rates	workers	rates	workers	rates	workers	rates	WOLKELS	rates
all employees, except officials and		1								All ca	rriers		,							
managerial assistants	830.087	\$7.94	52,069	\$8.24	137,445	\$8.83	134,878	\$7.75	46,628	\$7.69	132,598	\$7.35	77 622	\$7.40	88.88	67 27				
Part-time employees, including								7.4.0	10,010	4	132,336	#1033	21,032	37.40	00,000	\$7.27	43,691	\$7.33	118,791	\$7.95
officials and managerial assistants	11,939	5.16	1,609	5.22	2,332	5.64	2,204	4 86	446	4.60	599	5.13	520	5.61	8 2 6	4.43	1,095	4.70	2 000	
Professional and semiprofessional		1	_				_					""	1	3.01	020	4543	1,033	4.70	2,068	5.39
employees	92,067	12.32	6,172		15,201	14.11	15,787	11.39	4,740	11.73	12,118	11.30	2.830	11.13	7,613	11, 11	4,215	11.30	12,457	12.20
Drafters		6.62	59	7.16	140	8.34	271	6.60	106	6.17	204	4.63	26		2 19	6.13	68	6.60	198	
Others		12.43	6,113		15,061	14.17	15,516	11.47	4,634	11.86	11,914	11.45	2,804	11.18	7,394	11.26	4, 147	11.37	12,259	
Business office and sales employees		7.90	4,394		13,662	9. 09	12,918	7.50	4,335	7.87	12,506	7.38	2,864	7.46	10,172	6.88	4, 415	7.15	11,561	B. 28
Supervisors	8,553		4 30	10.77	1,485	11.81	1,307	9.88	555	10.16	1,395	9.67	329	10.34	1,053	9.32	641	9.65	1,405	
Monsupervisory employees	70,270	7.60	3,964	8, 12	12,177	8.76	11,611	7.23	3,780	7.53	11,111	7.09	2,535		9,079	6.59	3,974	6.87	10, 156	
Clerical employees	190,600	9.99	12,413	7.02	29,902	7.53	29,108	6-48	10,884	6.63	27,003	6.13	6,702		19,396	5.96	10,975	6.27	29, 474	6.76
Supervisors		6.34	11,340	10.48	3,489 26,413	11.08 7.05	2,901	9.73	796	9.95	2,574	8 . 89	765	9.29	1,793	9.22	1,135	9.24	2,646	10.28
Commercial department		5,92	1,896	6.19	4,663	6.67	26,207 3,840	6.11 5.73	10,088	6.37 5.55	24,429	5.84	5,937		17,603	5.63	9,840	5.93	26,828	
Traffic department			534	6.43	1,418	6.96	1,514	5.82	515	5.96	4,475	5.69	1,161		3,784	5.46	1,606	5.48	5,388	
Plant department		5.96	1,864		4,796	6.67	5,242	6.06	1.703	5.88	1,587 5,830	5.97 5.56	4 15 9 10	5.91	1,331	5.81	679	5.92	1,402	
accounting department	30.070	6.45	2,324		6,092	7.02	4,678	6.01	1,524	6.22	3.483	6.00	938	5.55 5.89	3,793	5.28	1,478	5.39	4,942	
All other departments	70.659	6.68	4,722		9,494	7.47	10,933	6.36	4,430	7.03	9,054	6.02	2,513		2,516	5.83	1,410	6.07	4,351	
Telephone operators		5.99	8,689	6.20	20,745	6.74	21,629	5.83	7,068	5.74	25,161	5.73	5,306		15,563	5.83	4-667	6-21	10,745	
Chief operators		9.54	598		1.046	11.16	1,226	9.18	419	9.46	1,765	8.79	321	9.83	1,072	8.85	7,854	5.67	19,724	
Service assistants and instructors	8, 252	6,70	614	6.75	1,800	7.19	1,670	6.58	297	6.53	935	6.53	398	6.32	813	6.56	389	6.63	1,023	
Experienced switchboard operators	105,561	5.83	7,006	5.65	16,656	6,51	16,511	5.69	5,776	5.54	20,286	5.58	3,876		12,052	5.90	5.834	5.61	14, 833	6.53 5.80
Operators in training		4.12	317	3.84	881	4.20	2,064	4.15	460	4_02	1,850	3.76	633		1,490	3.98	1,042	3.91	2, 488	
Other switchboard employees	1,686	6.84	154	6.93	362	7.21	158	6.97	116	6.93	325	6.71	78		136	6.29	90	6.45	231	6.63
Construction, installation, and				[1						_		1		1	5445	231	0.03
maintenance employees	306,892		18,379	8.55	52,786	8.89	49,149	8.28	18,070	8.05	52,933	7.81	9,054	7.97	34,605	7.61	14,281	7.91	42,501	8.35
Supervisors of telephone craft workers	39,948		2,448		6,851	11.48	6,314	10.50	2,318	10.16	6,890	9.83	1,236	10.25	4,147	10.01	2,018	10.02	5, 874	10.60
Central office craft workers	123,020	7.83	8,240		20,130	8.26	18,283	7.81	6,706	7.53	19,191	7.30	3,164	7.41	12,795	7.55	5,466	7.49	17,687	7.87
Test board and repeater workers Central office repairers	21,178	8.42	1, 245		2,862	8.91	2,617	8.42	804	8.42	2,892	7.97	417		1,865	8.17	656	8.10	2,971	8.49
	52,085	8.36 7.00	3,005		8,828	0.85 7.38	8,046	8.32 7.07	3,295	8.19	7,255	8.05	1,450		6,018	8.08	2,341	8.06	6,785	8.53
Others	49,757	7.00	3,990	7.02	8,440	1.30	7,620	/.0/	2,607	6.40	9,044	6.48	1,297	6.41	4,912	6.66	2,469	6.79	7,931	7.06
craft workers	96.181	8,07	5,324	8.41	17,893	8.69	16,419	8.08	6,245	7.90	17.308	7	2 000						beer 7	
PBX and station installers	46,198	8.01	2,182	8.39	8.271	8.72	7.873	8.14	3, 108	7.71	8.625	7.66	3,048	7.81	11,541	7.66	4,463	7.71	12,808	8.09
Exchange repairers		8.22	1,584	8.42	5,953	8.78	5,535	8.15	1,570	8.31	5,387	7.75	464	8.01	6,127	7.49	1,870	7.57	6,667	8.09
Others	20.816	8.01	1,558	8.44	3.669	8.47	3,011	7.79	1,567	7.86	3,296	7.58	1.600	7.66	3,310	8.05 7.53	1,043	7.89	4,220	8. 25
Line, cable, and conduit craft workers	47.624	7.89	2,367	7.49	7,912	8.66	8.014	8.05	2.801	7.88	9,544	7.64	1,606	7.65	6,122	7.19	2,334	7-47	1,921	7.75
Line workers	26,180	7.78	1,330	6.58	4,449	8.64	4,356	7.98	1,471	7.78	5,641	7.56	836	7.61	3,190	7. 10	1,345	7.43	6,132 2,997	8.13
Cable splicers	19,977	8.02	939	8.56	3,167	8.74	3,348	8.17	1,299	7.99	3.601	7.80	760	7.67	2,852	7, 31	925	7.49		8.02
Cable splicers' belpers	450	6.35	3	6.63	148	6.67	54	6.16	10	7.47	165	6,15		-	65	6.07	- 723	-	2,864	6.40
Others	1,017	8.08	95	9.63	148	9.56	256	6.05	21	8.75	137	8.68	10	9.40	15	7.18	64	8.12	266	9.43
Laborers	119	5.82	-	-	-	-	119	5.82	-	-	-	-		-		7	- 0.1	- 12	200	3.43
Building, supplies, and motor vehicle	i	1						ì						1						
employees			2,017		5,131	7.61	6,223	7.03	1,526	6.79	2,869	6.80	876	7.05	1,539	6.54	1,232	6.99	2,891	7.72
Supervisors	3,044		240		6 14	11.19	784	9.77	240	9.24	326	9.19	75		138	9.28	162	9.27	370	10.38
Mechanics			209		809	0.68	907	7.84	182	7.68	349	6.62	124		267	7.93	162	7.12	588	7.94
Other building service employees	6,938	5.51	706	6.04	1,793	5.02	2,061	5.27	377	4.72	465	4.74	380	5.76	2 27	4.90	216	5.59	404	5.96
Other supplies and motor vehicle	11 200	7 40	0.00	3.51	1 000	7 ()	2	3 05	305		4 300					l				
all employees not elsewhere classified			862		1,915	7.64	2,471	7.25	727	6.80	1,729	6.92	297	7.55	907	6.07	692	6.82	1,529	7.45
wir embroless unr sizesusis CTSRSIII60*****	1,229	1.20	, ,	5.99	18	8.29	64	5.82	5	7.13	8	6.18	-	-	-	-	719	6.77	183	6.31

See footnotes at end of table.

Table 4. All and Bell System telephone carriers: Average hourly rates of employees in selected occupations by region, December 1977—Continued

	United	States ¹	Hev E	ngland	Biddle A	tlantic	Great	Lakes	Chesap	eake	Souti	east	Borth (Central	South	Central	Boun	tain	Paci	ific
Occupational group	Number	Average						Average			Number	Average	Number	Average	Number	Average	Number	Average	Number	Averag
	of	hourly	of	bourly	0£	hourly		hourly		hourly		hourly	of	hourly	of	hourly	of	hourly	of	hourly
	workers	rates	workers	rates	workers	rates	Workers	rates	workers		WOLKELS		workers	rates	workers	rates	workers	rates	workers	rates
									Be:	l Syste	m carrie	rs								
All employees, except officials and	764 703	40.00	F2 02"		436 705	** **		40.00		** **							l			
managerial assistants	104,193	\$8.06	52,024	\$8,24	136,495	\$8.85	114,539	\$8.03	40,674	31.97	119,949	\$7.41	27,448	37.41	80,121	\$7.40	42,212	\$7.35	109,831	\$8.04
Part-time employees, including officials and managerial assistants	0 220		4 (07	E 22	2 200		4 250	6 (2	230			F 30								1
Professional and semiprofessional	9,228	5.40	1,607	5.22	2,289	5.66	1,358	5.62	272	5.85	529	5.39	506	5.66	335	5.39	1,089	4.70	1,095	6.06
employees	84,800	12.63	6,169	12.52	15,112	14.15	13,379	11.90	4,063	12,52	10,897	11.60	2,817	11. 15	6,586	11.50	4,135	11.34	11,505	12.48
Drafters	1.104	7.32	59	7.16	135	8.47	153	7.89	4,003	6.37	127	6.21	21	6.01	37	5.66	68	6.60	133	7.49
Others	83,696		6.110		14.977	14.20	13,226	11,94	3,979	12.65	10,770		2,796		6,549		4,067	11.42	11.372	12.54
Business office and sales employees	74,150		4,382		13,609	9.10	11,297	7.81	4,074	7,94	11,409	7.48	2,856	7.45	9,330		4,353	7.17	11,228	8.32
Supervisors	7,885		429	10.78	1,479	11.83	1,151	10.06	477	10.51	1,226	9.81	324	10.37	993	9.47	430	9.70	1.306	11.00
Monsupervisory employees	66,265	7.73	3,953	8,13	12,130	8.77	10,146	7.56	3,597	7.60	10,183	7.20	2,532	7.08	8,337	6.75	3,923	6.88	9,920	7.96
Clerical employees	177,858	6.82	12,410	7.02	29,711	7.55	24,920	6.73	9,746	6.88	25,029	6.21	6,657	6.26	17,619	6.09	10,833	6.29	27, 292	6.86
Supervisors	17,910	10.06	1,073	10.48	3,486	11.08	2,584	9.96	784	9.98	2,536	8.91	765	9.29	1,658	9.37	1,130	9.24	2,626	10.30
Monsuper visory	159,948		11,337	6.69	26,225	7.07	22,336	6.36	8,962	6.61	22,493	5.90	5,892	5.86	15,961		9,703	5,94	24,666	6.50
Commercial department	27,286		1,896	6.19	4,632	6.68	3,479	5.89	1,462	5.97	4,210	5.66	1,140	5.49	3,682	5.48	1,577	5.49	4,364	6.24
Traffic department	8,618		534	6.43	1,404	6.99	1, 185	6.23	353	6.33	1,483	6.06	410	5.93	1,100	6.07	670	5.92	1,261	6.38
Plant department	28,109		1,861	6.36	4,737	6.70	3,892	6.32	1,482	6.05	4,964	5.66	901	5.57	3,165		1,435	5.39	4,385	6.13
Accounting department	28,454		2,324	6.57	6,049	7.04	4,128	6.23	1,417	6.37	3,276	6.07	937	5.89	2,261	5.96	1,399	6.07	4,109	6.59
All other departments	67,481	6.76	4,722	7.11	9,403	7.49	9,652	6.61	4,248	7.14	8,560	6.07	2,504	6.11	5,753	5.92	4,622	6.23	10,547	6.74
Telephone operators	124,576		8,689	6.20	20,582	6.76	18,375	6.08	5,900	6.04	23,076	5.81	5,267	5.77	14,440	6.09	7,719	5.69	18, 135	5.98
Chief operators	7,487		598 614	10.25	1,030	7.20	1,003	9.70 6.61	382 195	9.69 6.88	1,568	8.96 6.59	319 396	9.65	1,018	8.93	491	8.90	936	10.32
Experienced switchboard operators	96,293		7.006	5.85	16,517	6.53	13,636	6.02	4,747	5.88	18.480	5.68	3, 841	6.33 5.63	11.018	6.63	381	5.63	1, 136	6.54
Operators in training	11,318		317	3.84	881	4.20	2,050	4.16	460	4.02	1,848	3.76	633	3.95	1,490	3.98	1,042	3,91	13,346	5.91 4.42
Other switchboard employees	1,636		154	6.93	362	7.21	157	7.00	116	6.93	283	6.73	78	6.61	136		90	6.45	229	6.64
Construction, installation, and	1,030	0.00	1 .54	0.75	302	/ ***				0.75	203	0.75	""	0.01	1 130	0.23	, ,,	0.43	423	0.04
maintenance employees	280.735	8.34	18,355	8.55	52,389	8.90	41,430	8.50	15,617	8.25	47,282	7.81	8,985	7.99	30,908	7.95	13,917	7.93	39,102	8.40
Supervisors of telephone craft workers		10.65	2.445	11.08	6,797	11.50	5,345	10.76	1,933	10.54	6,113	9.86	1,222	10.28	3,722	10.17	1,976	10.05	5, 484	10.67
Central office craft workers		7.86	8,232	8.19	20,006	8.27	15,741	7.93	5,922	7.63	17,364	7.28	3,147	7.41	11,799	7.62	5,306	7.49	16,850	7.88
Test board and repeater workers	20,338	8.47	1,244	8.75	2,855	8.91	2,318	8.62	751	8.54	2,675	8.05	403	8.18	1,777	8.22	643	8.10	2,865	8.51
Central office repairers	48,192	8.46	2,999	8.70	8,717	8.87	6,498	8.58	2,594	8.58	6,927	8.13	1,450	8.09	5,641	8.16	2,202	8.10	6,459	8.56
Others	46,431	6.96	3,989	7.62	8,434	7.38	6,925	7.09	2,577	6.40	7,762	6.25	1,294	6_41	4,381	6.67	2,461	6.79	7,526	7.04
Installation and exchange repair		1							l					1			1	}	l i	1
craft workers	85,792	8-16	5,310	8.41	17,755	8.70	13,643	8.35	5,371	8.14	14,991	7.68	3,023	7.62	10,068	7.84	4,347	7.74	11,257	8.16
PBN and station installers	40,653		2,182	8.39	8,151	8.74	7,091	8.32	2,463	8.10	6,613	7.64	964	7.98	5,029	7.76	1,763	7.65	6,397	8.08
Exchange repairers	27,621	8.28	1,584	8.42	5,953	8.78	4,702	8.45	1,570	8.31	5,387	7.75	464	8.01	3,305	8.05	1,039	7.89	3,617	8.31
Others	17,518		1,552	7.49	3,651	8.48	1,850	8.25 8.35	1,338	8.01	2,991	7.62	1,595	7.67	1,734	7.67	1,545	7.75	1,243	
Line, cable, and conduit craft workers	43,345		2,360 1,326	6.58	7,831	8.68	6,701	8.28	1,275	8.05	8,814 5,419	7.68	1,593	7.67	5,319	7.36	2,288	7.50	5,511	8.21
Cable splicers	24,326	8. 13	936	8.56	3,128	8.76	3,739 2,717	8.45	1,085	8.25	3.094	7.86	754	7.68	2,834	7.34	1,321	7.51	2,695 2,548	8.17
Cable splicers' belpers	17,641	6.40	930	6.63	148	6.67	46	6.43	1,083	7.47	164	6.16		/. 00	2,416	6.23	30,	7.51	2,340	5.15
Others	947	9.10	95	9.63	148	9.56	199	8.72	21	8.75	137	8.68	10	9.40	111	8.14	60	8.21	266	9.43
Laborers		72.00		1		1 -				-	_ "			3.40	- "	1 0:17	_ "	0.21	_ 200	3.73
Building, supplies, and motor vehicle		1							1							ı		!		
employees	22.357	7-40	2,014	7_44	5.074	7.63	5,129	7.33	1,269	7.18	2,248	7.07	866	7.06	1,238	6.73	1,200	7.02	2,533	7.90
Supervisors	2,657	10.37	240	10.56	608	11.22	597	10.30	180	10.07	276	9.32	75	9.92	99	9.66	157	9.31	347	10.51
Nechanics	3,424		209	7.77	802	8.69	787	8.15	174	7.73	103	7.65	124	7.84	257	8.00	160	7.13	458	8.30
Other building service employees	6,073	5.69	703	6.05	1,769	5.83	1,719	5.46	244	5.26	341	5.18	376	5.78	171	5.14	203	5.66	348	6.09
Other supplies and motor vehicle		1	1	l		i	1					1	1			1				
employees		7.33	862	7.56	1,895		2,026	7.62	671	6.93	1,528	7.04	291	7.54	711	6.21	680	6.83	1,380	
All employees not elsewhere classified	317	9.26	5	5.99	18	8.29	9	7.58	5	7.13	. 8	6.18	-	-	-	-	55	6.54	36	6.38

1 Cover telephone carriers which have operating revenues exceeding \$1,000,000. These carriers are engaged in interstate or foreign communication service using their own facilities or through connection with those of another carrier under direct or indirect common control.

See appendix for definition of hours and rates used in this bulletin.

See appendix for definition of hours and rates used in this bulletin.

Includes data for employees in Alaska, Hawali, Puerro Rico, and the Virgin Islands, and employees of the American Telephone and Telegraph

Company, which are excluded from the regional tabulations. For scope of survey, see appendix.!

NOTE: For purposes of this study, the regional for which separate data are presented include: New England-Connecticut, Maine, Massachusetts,

New Hampshire, Rhode Island, and Vermont; Middle Atlantic—Delaware, New Jessey, New York, and Pennsylvania; Great Lakes—Illinois, Indiana,

Michigan, Ohio, and Wisconsin; Chesapeake—District of Columbia, Maryland, Virginia, and West Virginia; Southeast—Alabama. Florida, Georgia, Kentucky, Louisiana, Missisippi, North Carolina, South Carolina, and Tennesse; North Cartila—I-lowa, Minnesota, Nebraska, North Dakota, and South Dakota; South Central—Arkansas, Kansas, Missouri, Oklahoma, and Texas (except El Paso County); Mountain—Arizona, Colorado, Idaho (south of the Salmon River), Montana, Nevada, New Mexico, Texas (El Paso County), Utah, and Wyoming; and Pacific—California, Idaho (north of the Salmon River), Oregon, and Washington.

Dashes (-) indicate that no data were reported.

Table 5. Western Union Telegraph Company: Percent distribution of employees in occupational groups by average hourly rates2, October 1977

	Manifest	of empl	CUITAGE							Perc	ent of	emplo	yees r	eceivi	ng +				
Occupational group	wumbe t	Of empi	luyees	Average scheduled				\$4.00	\$4.50	\$5.00	\$5.50	\$6.00	\$6.50	\$7.00	\$7.50	\$8.00	\$8.50	\$9.00	
occupational group	Total	Men	Women	weekly hours	hourly rates?	Under \$3.50	under	- \$4.50	- \$5.00	- \$5.50	\$6.00	- \$6.50	- \$7.00	57.50	58.00	- \$8.50	- \$9.00	 \$9.50	s9.
all employees except officials, managerial assistants, and messengers	11,089	6,708	4,381	38.6	\$7.33	0.1	1.3	1.0	7.8	7.3	12.7	9.0	B . 4	5.8	19.6	10.9	2.9	2.6	10.
Engineers and engineering assistants Others	1,063 267 796	896 259 637	167 8 159	37.1 36.9 37.2	10.53 10.59 10.51	· -	.1 .4	1.1	.3	.4	1.1 .4 1.4	6.8 1.9 8.4	3.8 2.2 4.3	5.8 6.0 5.8	3.7 6.4 2.8	3.4 3.4 3.4	4.3 3.4 4.6	5.3 7.9 4.4	65. 67.
elegraph office superintendents and managers	439 525	274 425	165 100	39.8 36.6	7.03	-	1.1	5.7	.9 8.2	2.3	9.8	20.7	23.9	20.7	9.6	1.4	1.8	2.3	6.
Supervisors	2,336 496	663	1,673	36.8 37.2	6.59	-2	-4	1.7	4.5	8.9	16.0	19.6	16.7	15.6	7.1	4.6 2.3 8.3	3.2 2.1 6.7	3.6 2.0 7.7	12. 2. 12.
Nonsupervisory employees	1,840	39 2 14 4	1,448	36.7 36.7	6.25	.3	<u>.</u> 5	1.8	5.6	11.2		22.3	16.1	15.7	4.2	.7	.9	•5	124
Traffic department	35 990	239	27 751	40.0 36.5	5.31 6.30	-5	- 9	8.6	5.7	60.0	25.7 17.1	18.3	14.4	23.9	2.7	1.2	1.4	.5	-
Route aides	2,616	517	2,099	40.0 39.3	4.63 5.64	*	4_7	1.1	100 24.3	19.0	31.8	10.7	2.9	1.1	1. 3	1.0	- 2	.2	1.
supervisors, and instructors	442	229	213	39.7	7, 18	-	-	-	. 2	2.0	7.0	47.1	13.6	5.2	7.0	6.1	1.1	1.1	9.
(ercept Horse operators)	2,050 516	280 122	1,770 394	39.2 40.0	5.41 5.47	•2	-	1.5	30.9 8.5	23.8 37.0	39.1 40.3	3.5 6.6	2.3	.3	.1	_	-	_	:
Traffic department	1,534 124	158	1,376 116	38.9 40.0	5.39 3.88	-	99.2	-5	38.5	19.4	38.7	2.5	-2	-3	:1	-	-	-	:
Traffic testing and regulating employees Construction, installation, and	3,984 1,044	3,836 1,021	148 23	39.8 40.0	8.14 8.05	-	-	-2	_ <u>.</u> "	1.0	2.0 1.3	1.0	5.9 2.8	1.4	46.0 44.2	26.7 44.8	4.8 5.4	3.8	6.
maintenance employees	2,916 702	2,792 688	124 14	39.7 39.0	8.20 9.47	-	_	*	.3	1.2	2.1	1.1	7.1	1.6	47.0 1.3	20.4	4.7 14.2	5.1	9 36
Subscribers' aguipment maintainers	1,396 128 690	1,394 128 582	108	40.0 40.0 39.9	7.96 8.08 7.44	-	_	-	-1	3.1	1.1 3.1	1.6	3.4	2.5	73.4	17.3 33.6	1.3 9.4	11.7	3.
OthersLaborersilding service employees	24 126	23	1 29	40.0 39.9	4-98 5-69	1.6	-	25.0 3.2	37.5 50.0	3.8 12.5 6.3	5.8 25.0 3.2	2.8	21.6	4.0	43.6	18.1	- 9	.6	1.
Mechanicsothers	47 79	45 52	2 27	39.9 39.9	7.18 4.80	2.5	_	5.1	79.7	10.1	6.4	4.3	40.4	10.6	29.8	4.3	-	2.1	2
ssengers	515 489	473	16 16	38.6	4.59	21.4	3.9	11.1	53.8	9.7	-	- 2	-	-	-	-	-	-	
Part-time	26 111 404	26 103 396	- 8 8	37.1 39.0	3.40	96.4	2.7	14.1	.9	12.4	-	2	=	=	-	-	-	-	

<sup>Includes employees working in the conterminous 48 States and the District of Columbia; the company does not operate in
Alaska and Hawaii.

Excludes premium pay for overtime and for work on weekends, holidays, and late shifts.</sup>

NOTE: Asterisk (*) indicates less than 0.05 percent, Dashes (-) indicate that no data were reported. Because of rounding, sums of individual items may not equal 100.

Table 6. International telegraph carriers: Percent distribution of employees in occupational groups by average hourly rates², October 1977

	No b	-6	100000							Perc	ent of	emplo	yees r	eceivi	ng –				
0	Number	of emp	Loyees	Average	Average			\$4.00	\$4.50	\$5.00	\$5.50	\$6.00	\$6.50	\$7.00	\$7.50	\$8.00	\$8.50	\$9.00	\$9.5
Occupational group	Total	Men	Women	scheduled weekly hours	hourly rates	Under \$3.50	under	- \$4.50	s5.00	- \$5.50	\$6.00	- \$6.50	- \$7_00	- \$7.50	\$8.00	- \$8.50	s9.00	- \$9.50	and ove
All employees except officers and assistants All employees except officers and	4,707	3,875	832	36.9	\$9.10	2.0	0.8	1.0	2.5	3.4	4.2	3.6	5.4	5.8	5.8	7.5	12.0	5.9	40.0
assistants and messengers	4,574	3,750	824	37.0	9.25	-1	- 1	1.0	2.6	3,5	4.3	3.7	5.5	6.0	6.0	7.7	12.3	6.1	41.2
Professional and semiprofessional employees	746	700	46	37.2	12.28	-	-	-	-	a 1	.3	_4	-8	1.5	3.6	2.7	4.6	4.3	81.6
Engineers and engineering assistants	300	294 406	40	36.9 37.4	12.66	-	-	-	-	_3	. 3		.7	1.0	1.0	1.0	3.0	4.7	88.0
Others	446		40	35.6	12.03	1	-	_	_	-	. 2	.7	-9	1.8	5.6	3.8	5.6	4.0	77.4
assistants	28 407	349	58	36.4	9.21	-				-	7.1	7.1						7.1	78.6
Sales employees	1, 124	582	54.2	36.4	7.94	_	• 2	.7	1.5	2.2	2.0	8.6	9.6	9.6	7.1	6.9	8.8	11.8	43.0
Supervisors	148	132	16	36.4	11. 17	_	_3	3.3	7.7	9.3	9.6	2.0	2.0	8.2	6.6	5.4	4.1	3.3 8.1	73.6
Wonsupervisory employees	976	450	526	36.8	6.89	-	,3	3.8	8.8	10.8	11-1	9.6	10.8	9-2	7.1	11.1	9.5	2.6	5.4
Operating department	245	135	110	37. 1	7.21		- 3	3.3	9.4	10.2	6.5	6.1	9.0	6.1	9.0	9.8	23.3	5.3	2.0
Commercial department	114	59	55	37-5	6.73		_	2.6	6.1	15.8	13.2	7.9	12.3	23.7	1.8	5.3	2.6	2.6	6.1
Accounting department	309	133	176	37.2	6.95		_	2.6	4.2	9.1	13.6	12.3	10.7	6.5	9.4	20.1	5.8	. 6	5-2
Engineering department	33	16	17	37.2	7.04			7.0	6-1	12.1	15.2	18.2	12.1	3.0	6.1	6. 1	6-1	6.1	9.1
All other departments	275	107	168	35.9	6.56	_	1.1	6.5	14.9	10.9	10.9	9.5	11.6	9.8	5.1	5. 1	4.7	1.8	8.0
Operators	1,040	8 86	154	36.9	8.86	_	1 1	. 1	2.1	1.4	4.2	1.6	5.8	5.4	4.4	11. 1	33.2	6.3	24.2
Traffic chiefs, dispatchers, supervisors,	_		i																
instructors, and assistants	187	1 80	7	37.3	11.53	-	-	-	-	-	-	-	-	-	-5	1.6	5.9	11.2	80.7
Monsupervisory operators	853	706	147	36_9	8.29	-	.1	. 1	2.6	1.8	5.2	2.0	7.0	6.6	5.3	13.1	39.2	5,3	11.8
Radio operators	11	11	-	34. 1	7.78	-	-	-	-	9.1	-	9.1	9.1	18.2	18.2	9.1	9.1	9.1	9.1
Marine coastal station operators	102	102	-	37.5	8.70	-	-	-	-	-	_	-	22.5	7.8	7.8	2.9	4.9	5.9	48.0
Cable operators	92	80	12	37.5	8.17	-		-	-	2.2	12.0	2.2	-	2. 2	2.2	14.1	38.0	27.2	-
Teletype-multiplex operators	531	426	105	36.6	8.16	-	. 2	-	4 . 1	2.3	5.6	2.4	5.8	6.6	4.9	17.1	45.2	-6	5.1
Telephone operators	62	42	20	37.5	8.27	-	-	1.6	-	-	4.8	-	8.1	11.3	3.2	6.5	61.3	3.2	-
All other operators	55	45	10	37.5	9.08	-	-	-	-	-	-	1.8	-	3.6	9.1	-	27.3	14.5	43.6
Hessengers	133	125	8	33. 1	3.21	67.7	26.3	3.0	. 8	1.5	-	-	-8	-	-	-	-	-	-
Foot and bicycle	130	122	8	33.0	3.18	69.2	26.2	3.1		. 8	-	-	-8	-	-	-	I - 1	-	-
Motor	3	3	-	37. 3	4.69	-	33.3	-	33, 3	33.3	_	-	-	-	-	-	-	2	-
and other technical employees	1,131	1,113	18	37.5	9.50	. 3	-	-	+ 2	1.7	3.0	2.2	3.8	4.7	8.1	6.2	4.9	8.0	57.0
Supervisors	151	151	-	37.3	11.86	-	-	-	-	-	-	-	-	-	-	-	1.3	6.0	92.7
Hechanics and maintenance										1			į		l				1
technicians	574	560	14	37.5	9.04	. 7	-	-	3	2,3	3.7	2.8	3.7	6.6	8.4	7.7	6.8	7.1	50.0
Radio operating technicians	95	93	2	37.5	9.07	-	-	-	-	-	-	-	1.1	2.1	30.5	5.3	6.3	10.5	44.2
Radio telegraph riggers	7	7	1	37.4	9.60	-	-	-	-	-	-	-		14.3			14.3		71.4
Others	304	302	2	37.5	9.34	-	-		-	2.2	4.0	2.0	6.8	4.0	4.9	6.8	2.5	9.9	56.2
Building service employees	89	87	2	37.5	7.19	-	-	3.6	3.6	11.9	1.2	7-1	19.0	25.0	6.0	3.6	2-4		16.7
All employees, not elsewhere classified	9	9	- 1	37.4	8.19	-	-	-	-	-	-	11.1	11.1	22.2	-	11.1	22.2	11.1	11.1

¹Covers employees of international telegraph carriers which have annual operating revenues exceeding \$50,000; excludes employees working for international telegraph carriers outside the conterminous 48 States and the District of Columbia.

² See appendix for definitions of hours and rates used in this bulletin.

NOTE: Dashes (-) indicate that no data were reported. Because of rounding, sums of individual items may not equal 100.

Appendix: Scope and Method of Survey

Data presented in this study are based on annual reports filed with the Federal Communications Commission (FCC) by communication carriers, as required by the amended Communications Act of 1934. All carriers engaged in interstate or foreign communications service by means of their own facilities or through connection with the facilities of another carrier under direct or indirect common control are subject to the full jurisdiction of the Commission. Telephone carriers engaged in interstate or foreign service only by connection with the facilities of another unaffiliated carrier are not subject to the full jurisdiction of the Commission and are not required to file annual reports of hours and earnings of employees.

Tabulations for telephone carriers relate to those having annual operating revenues over \$1 million, and which are subject to the full jurisdiction of the FCC. Included are 25 Bell System companies and 38 companies not affiliated with the Bell System.

Tabulations for wire-telegraph and international telegraph carriers are confined to companies with annual revenues exceeding \$50,000 which are engaged in interstate or foreign commerce. Western Union Telegraph Company is the only wire-telegraph company included. Five companies engaged in nonvocal radio or cable communications are included in the international telegraph tabulations.

Employees and occupational groups studied

Officials and managerial assistants are not included in the tabulations. Also excluded are employees working outside the 50 States and the District of Columbia, except telephone carrier employees in Puerto Rico and the Virgin Islands. All other employees, both full-time and part-time, are included. Part-time employees are defined as those regularly assigned shorter hours than a full-time schedule.

Occupational groups for which separate data are presented are defined in the FCC's *Rules and Regulations*, volume X, part 51, applying to telephone carriers, and part 52, applying to telegraph companies. Copies of this volume are on sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

Hours and rates

Average hourly rates presented in this bulletin were computed by dividing total "scheduled weekly compensation" by total "scheduled weekly hours." Average scheduled weekly hours were obtained by dividing the total scheduled weekly hours by the number of employees. The terms "scheduled weekly hours" and "scheduled weekly compensation" for the three carrier groups covered by the study are defined, according to the FCC's Rules and Regulations, as follows:

Telephone carriers

51.12 (b). "Scheduled weekly hours" means the number of regular hours, excluding overtime hours, in the duty tours which the employee is scheduled to work during the week in which December 31 occurs, whether or not excused because of a holiday, vacation, leave of absence, or other reason.

51.13 (b). "Scheduled weekly compensation" means compensation to the employee at the rate of pay in effect on December 31 for the "scheduled weekly hours." It includes the basic weekly pay rate plus any regularly scheduled supplementary compensation, such as differentials for evening and night tours, equivalent value of board and lodging for unlocated employees, equivalent value of meals furnished dining service employees, and equivalent value of living quarters and maintenance furnished for managers of agency offices. It excludes pay for overtime work and pay in excess of weekday rates for Sunday and holiday work.

Western Union Telegraph Company

52.21 (b). "Scheduled weekly hours" are defined as an employee's regular daily tour of duty multiplied by the number of days, or fraction of days, scheduled to be worked during a week.

52.22 (b). "Scheduled weekly compensation" is defined as wages scheduled to be paid for scheduled weekly hours as defined in 52.21 (b). This should include employee contribution for old-age benefits, unemployment insurance, and similar deductions, paid vacation and holiday hours, the regularly scheduled weekly compensation for employees temporarily on leave due to disability or sickness, and the scheduled weekly compensation of both full-and part-time employees.

The company reports that "scheduled weekly compensation" excludes premium pay for overtime and for work on weekends, holidays, and late shifts.

International telegraph carriers

International telegraph carriers are instructed to report scheduled weekly hours and compensation for their employees as defined for the Western Union Telegraph Company, except that scheduled weekly compensation should include regularly scheduled maintenance, travel, or other allowances.

Distribution of workers by earnings classes

In the tables, workers are distributed according to the percentage having stipulated hourly rates of pay. Because of rounding, sums of individual items may not equal 100.

Industry Wage Studies

The most recent bulletins providing occupational wage data for industries included in the Bureau's program of industry wage surveys are listed below. Copies are for sale from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, or from any of its regional sales offices, and from regional

offices of the Bureau of Labor Statistics shown on the inside back cover. Copies that are out of stock are available for reference purposes at leading public, college, or university libraries, or at the Bureau's Washington or regional offices.

Manufacturing

Basic Iron and Steel, 1972. BLS Bulletin 1839 Candy and Other Confectionery Products, 1975. BLS Bulletin 1939

Cigar Manufacturing, 1972. BLS Bulletin 1976 Cigarette Manufacturing, 1976. BLS Bulletin 1944 Corrugated and Solid Fiber Boxes, 1976. BLS Bulletin 1921

Fabricated Structural Steel, 1974. BLS Bulletin 1935 Fertilizer Manufacturing, 1971. BLS Bulletin 1763 Fluid Milk Industry, 1973. BLS Bulletin 1871 Footwear, 1975. BLS Bulletin 1946 Grain Mill Products, 1977. BLS Bulletin 2026 Hosiery, 1976. BLS Bulletin 1987 Industrial Chemicals, 1976. BLS Bulletin 1978 Iron and Steel Foundries, 1973. BLS Bulletin 1894 Leather Tanning and Finishing, 1973. BLS Bulletin

Machinery Manufacturing, 1978. BLS Bulletin 2022 Meat Products, 1974, BLS Bulletin 1896

Men's and Boys' Separate Trousers, 1974. BLS Bulletin 1906

Men's and Boy's Shirts (Except Work Shirts) and Nightwear, 1974. BLS Bulletin 1901

Men's and Boy's Suits and Coats, 1976. BLS Bulletin 1962

Miscellaneous Plastics Products, 1974. BLS Bulletin 1914

Motor Vehicles and Parts, 1973-74. BLS Bulletin 1912

Nonferrous Foundries, 1975. BLS Bulletin 1952 Paints and Varnishes, 1976. BLS Bulletin 1973 Petroleum Refining, 1976. BLS Bulletin 1948 Pressed or Blown Glass and Glassware, 1975. BLS Bulletin 1923

Pulp, Paper and Paperboard Mills, 1977. BLS Bulletin 2008

Semiconductors and Related Devices, 1977. BLS
Bulletin 2021

Structural Clay Products, 1975. BLS Bulletin 1942 Synthetic Fibers, 1976. BLS Bulletin 1975 Textile Dyeing and Finishing, 1976. BLS Bulletin 1967 Textiles, 1975. BLS Bulletin 1945

Wages and Demographic Characteristics in Work Clothing Manufacturing, 1972. BLS Bulletin 1858 Women's and Misses' Coats and Suits, 1970. BLS Bulletin 1728

Women's and Misses' Dresses, 1976. BLS Bulletin 2007

Wood Household Furniture, Except Upholstered, 1974. BLS Bulletin 1930

Nonmanufacturing

Appliance Repair Shops, 1975. BLS Bulletin 1936 Auto Dealer Repair Shops, 1973. BLS Bulletin 1876 Banking and Life Insurance, 1976. BLS Bulletin 1988 Bituminous Coal Mining, 1976. BLS Bulletin 1999 Communications, 1976. BLS Bulletin 1991 Computer and Data Processing Services, 1978. BLS Bulletin 2028

Contract Cleaning Services, 1977. BLS Bulletin 2009 Contract Construction, 1973. BLS Bulletin 1911 Department Stores, 1977. BLS Bulletin 2006 Educational Institutions: Nonteaching Employees, 1968-69. BLS Bulletin 1671

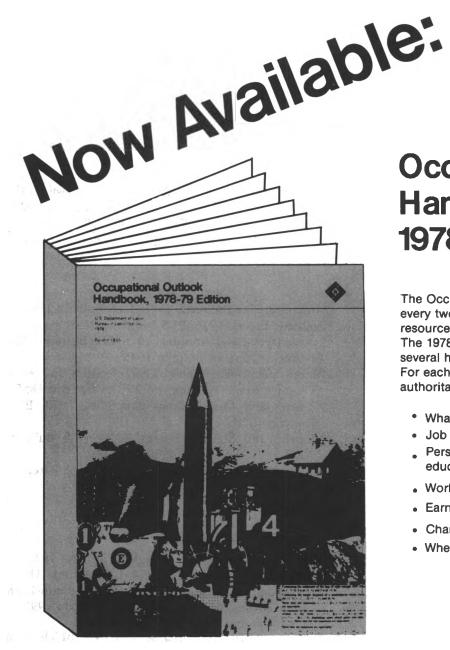
Electric and Gas Utilities, 1972. BLS Bulletin 1834 Hospitals, 1975-76. BLS Bulletin 1949 Hotels and Motels, 1973. BLS Bulletin 1883 Metal Mining, 1977. BLS Bulletin 2017

Nursing Homes and Related Facilities, 1976. BLS Bulletin 1974

Oil and Gas Extraction, 1977. BLS Bulletin 2014 Scheduled Airlines, 1975. BLS Bulletin 1951 Wages and Tips in Restaurants and Hotels, 1970. BLS Bulletin 1712

1835

¹Bulletin out of stock.



Occupational Outlook Handbook, 1978-79 Edition

The Occupational Outlook Handbook--published every two years--is one of the most widely used resources in the field of vocational guidance. The 1978-79 edition, now available, covers several hundred occupations and 35 major industries. For each major job discussed, the reader can get authoritative information:

- What the work is like.
- Job prospects to 1985.
- Personal qualifications, training, and educational requirements.
- . Working conditions.
- · Earnings.
- · Chances for advancement.
- Where to find additional information.

Fill out and mail coupon below to Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Make checks payable to Superintendent of Documents.

Federa Cityer Statek and Zips Code

•	ccupational Outlook Handbook, 1978-79 Edition (Paper), No. 029-001-02059-7 — copies of Occupational Outlook Handbook, 1978-79 Edition (Cloth), No.
•	□ Charge to GPO deposit account no.
Name	
Address red for FRASER	

Bureau of Labor Statistics Regional Offices



Region I

1603 JFK Federal Building Government Center Boston, Mass 02203 Phone: (617) 223-6761

Region II

Suite 3400 1515 Broadway New York, N Y 10036 Phone: (212) 399-5405

Region III

3535 Market Street P O Box 13309 Philadelphia, Pa 19101 Phone. (215) 596-1154

Region IV

1371 Peachtree Street. NE Atlanta, Ga 30309 Phone (404) 881-4418

Region V

9th Floor Federal Office Building 230 S Dearborn Street Chicago, III 60604 Phone: (312) 353-1880

Region VI

Second Floor 555 Griffin Square Building Dallas, Tex 75202 Phone. (214) 749-3516

Regions VII and VIII*

911 Walnut Street Kansas City, Mo 64106 Phone: (816) 374-2481

Regions IX and X**

450 Golden Gate Avenue Box 36017 San Francisco, Calif 94102 Phone: (415) 556-4678

- Regions VII and VIII are serviced by Kansas City
- **Regions IX and X are serviced by San Francisco