UNITED STATES DEPARTMENT OF LABOR

Frances Perkins, Secretary

BUREAU OF LABOR STATISTICS Isador Lubin, Commissioner

in cooperation with WORK PROJECTS ADMINISTRATION

Salaries and Hours of Labor in Municipal Fire Departments, July 1, 1938

VOLUME V
South Atlantic Cities

Prepared by the

DIVISION OF CONSTRUCTION AND PUBLIC EMPLOYMENT

Herman B. Byer, Chief



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Letter of Transmittal

United States Department of Labor,
Bureau of Labor Statistics,
Washington, D. C., September 25, 1940.

The Secretary of Labor:

I have the honor to transmit herewith the fifth of a series of nine reports on Salaries and Hours of Labor in Municipal Fire Departments. This report covers cities in the South Atlantic States. An explanation of the purposes of the survey was given in the preface to the first report, Volume I, New England Cities.

ISADOR LUBIN, Commissioner.

Hon. Frances Perkins, Secretary of Labor.

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Bulletin No. 684 (Vol. V) of the United States Bureau of Labor Statistics

Salaries and Hours of Labor in Fire Departments of 39 South Atlantic Cities, July 1, 1938¹

Summary

On July 1, 1938, the fire departments ² of 39 South Atlantic Division cities ³ employed 5,818 people whose annual salaries totaled about \$11,104,000.

Of every 100 employees 95 were in the fire-fighting divisions and 5 were in the fire-prevention, apparatus, fire-alarm, and clerical divisions. Of the 95 in the fire-fighting divisions, 74 were privates, fire-engine engineers, and drivers; 16 were captains, lieutenants, and sergeants; 3 were chiefs, battalion chiefs, and assistants to the chiefs; and 2 were in other occupations.

One out of every 5 employees was an officer or held a supervisory position of some kind.

On the basis of the United States census of population for 1930, the large cities had a relatively greater number of firemen than the small cities. For every 10,000 inhabitants the group of the 9 largest cities in the South Atlantic Division had 17 fire-department employees, the group of the 14 medium-sized cities had 14 fire-department employees, and the group of the 16 small cities had 13 fire-department employees.

The annual salaries of all the employees in the 39 fire departments did not show the wide variations found in private industry. The annual salaries ranged between \$900 and \$8,000 but 84 percent of the employees received between \$1,550 and \$2,450 a year. This

¹ Analysis and presentation by Arthur Dadian. Editing and tabulation of data by Mahlon B. Buckman. Carol P. Brainerd, technical adviser.

² Relatively little general information is available on employment and salaries in city fire departments, in spite of the importance of their functions and the considerable number of their employees. A study of salaries and working conditions of fire department employees in 1934 was made by the Bureau of Labor Statistics and was published in the Monthly Labor Review for November 1935. In the present study the Bureau of Labor Statistics, in cooperation with the Work Projects Administration, undertook to compile this information, as of July 1, 1938, for cities in the United States having a population of 25,000 or more. This report for 39 South Atlantic Division cities is one of a series which is being issued by geographic divisions.

³ This report covers only cities having a population of 25,000 or more, the United States census of population for 1930 being used to determine the size of the cities. See appendix for list of the States in the South Atlantic Division and the cities included in this bulletin.

concentration was due mostly to the small differences between the salaries of officers or those holding supervisory positions and the rest of the employees.

The supervisory employees, who constituted 20 percent of all employees, received 23 percent of the total salaries, a ratio of only 1.00 to 1.16.

Of every \$100 spent in salaries \$95 went to the fire-fighting divisions. Of this \$95, \$71 went to privates, drivers, and fire-engine engineers; \$18 went to captains, lieutenants, and sergeants; \$4 went to chiefs, assistants to the chiefs, and battalion chiefs; and \$2, to those in other occupations.

The annual salaries were higher in the large than in the small cities. This was especially so among the higher-ranking occupations which entailed greater responsibility in the large cities.

Because of the higher salaries and the relatively greater number of firemen in the large cities, the per capita salary cost of fire protection was higher in the large than the small cities. The actual per capita cost was \$3.43 for the 9 largest cities, \$2.29 for the 14 medium-sized cities, and \$2.06 for the 16 small cities.

The annual salaries of firemen are affected by such factors as vacations with pay, payments for uniforms, injuries resulting in incapacity, and the promotion policy of fire departments.

The 39 fire departments gave their employees an average of 16 days of vacation with pay. Many of the 39 cities supplied their firemen with uniforms and other items such as rubber boots and rubber coats.

In this study data were obtained regarding promotions only for the lower-grade privates. Of the 39 fire departments 3 had no promotion system for their lower-grade privates while 32 promoted their lower-grade privates after a specified period of service and 4 after civil-service examination.

Of the 39 fire departments, 4 operated under the single-platoon system of assignment of men on duty, 34 operated under the 2-platoon system, and 1 city had a volunteer fire department.

The single-platoon system included 3 percent and the 2-platoon system included 92 percent of all employees. The remaining 5 percent of the employees did not work under any platoon system, less than 1 percent of them were on continuous duty and the rest had other working hours prevailing in the other city departments.

Under the single-platoon system the firemen were on duty, on the average, between 112 and 134 hours per week. Under the 2-platoon system, 76 percent of all employees were on duty an average of 84

hours per week, 15 percent an average of 72 hours per week, and 1 percent 81 hours. The employees having the hours prevailing in the other city departments worked an average of 52 hours per week.

The average number of hours on duty was lower in the large than in the small cities mostly because none of the large cities operated under the single-platoon system and none of the small cities operated under the variation of the 2-platoon system which averaged 72 hours on duty per week.

The average number of days on duty per week varied between 4.7 and 5.6 days under the single-platoon system and between 3.4 and 7.0 days under the 2-platoon system. Under 'the 2-platoon system the averages of 3.5, 6.1, and 6.5 days on duty per week predominated and included 30, 25, and 11 percent of all employees, respectively.

Some small cities in the United States still have volunteer fire departments and "call" men who receive a nominal remuneration. Among the 39 South Atlantic Division cities only 1 small city had a volunteer fire department with 14 full-time engineers, and 1 small city had 41 call men in addition to its 35 regular, full-time employees.

Annual Salaries

General Level of Salaries

Annual salaries in the fire departments of the 39 South Atlantic cities did not show wide variations. Forty-nine percent of all employees received between \$1,550 and \$1,850, 34 percent between \$1,850 and \$2,450, 11 percent under \$1,550, and 6 percent \$2,450 and over. In the large cities the annual salaries were considerably higher than in the small cities.⁴ In cities having a population of 100,000 or more, only 12 percent of the fire department employees received less than \$1,750, compared with 83 percent in cities having a population of 50,000 and under 100,000, and 87 percent in cities having a population of 25,000 and under 50,000.

For the sake of brevity and comparability with other reports in this series, the group of largest cities mentioned above will be here designated as Group I,⁵ the medium-sized cities as Group II, and the smaller cities as Group III.

⁴ Usually the difference in annual salaries between large and small cities is not so great. The unusual difference in South Atlantic Division was due mostly to the comparatively high salaries in Washington, D. C., which had 15 percent of all the employees in the division.

⁵ Baltimore, Md., with a population of 804,874, has been included in this group because it was the only city in the South Atlantic Division with a population over 500,000 and the data for it did not vary sufficiently from the data for the other cities in Group I to justify a separate treatment.

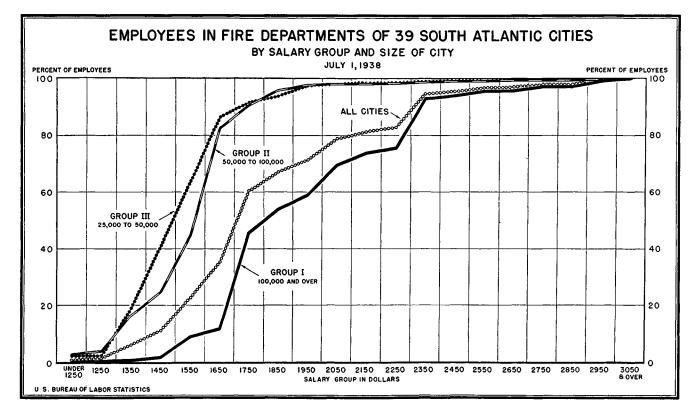


Table 1 .- Distribution of employees in fire departments of 39 South Atlantic cities, by salary group and size of city, July 1, 1938

		Num	ber		Percent				
Salary group	All	Ci	ty grou	p 1	All	Ci	ty grou	p 1	
	cities	I II		III	cities	I	II _	ш	
All groups	2 5, 818	3, 903	1, 238	677	100.0	100.0	100.0	100.0	
Under \$1,250 \$1,250 and under \$1,350 \$1,350 and under \$1,450 \$1,450 and under \$1,550 \$1,550 and under \$1,650	30 277 293	2 12 11 37 283	32 16 154 105 248	14 2 112 151 153	0.8 .5 4.8 5.0 11.8	0.1 .3 .9 7.3	2.6 1.3 12.4 8.5 20.0	2. 1 . 3 16. 5 22. 3 22. 6	
\$1,650 and under \$1,750 \$1,750 and under \$1,850 \$1,850 and under \$1,950 \$1,950 and under \$2,050 \$2,050 and under \$2,150	1, 462 403 239	100 1, 330 321 192 422	468 98 66 22 4	154 34 16 25 3	12. 4 25. 1 6. 9 4. 1 7. 4	2,6 34,1 8,2 4,9 10.8	37.8 7.9 5.3 1.8	22.7 5.0 2.3 3.7 .4	
\$2,150 and under \$2,250 \$2,250 and under \$2,350 \$2,350 and under \$2,450 \$2,350 and under \$2,450 \$2,550 and under \$2,650	96 684 44	142 93 676 38 63	1 2 5 4 1	1 1 3 2	2, 5 1, 6 11, 8 .8 1, 1	3, 6 2, 4 17, 3 1, 0 1, 6	.1 .2 .4 .3	.2 .2 .4 .3	
\$2,650 and under \$2,750 \$2,750 and under \$2,850 \$2,850 and under \$2,950 \$2,950 and under \$3,050 \$3,050 and over	51	12 49 1 79 4 40	2 1 4 5 5	3 1 1 61	.3 .9 (3) 1.4 .8	3 1.3 (3) 2.0 1.0	.2 .1 .3 .4	.2	

¹ Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000; and Group III, cities having a population of 25,000 and under 50,000, based on United States census of population for 1930.

2 Includes only regular full-time employees.

6 Includes 1 at \$3,300.

Salaries in Selected Occupations

The annual salaries for the various occupations within the same fire department did not show large differences. When the annual salaries for every occupation were averaged it was found that the average annual salary of the chiefs, the highest-paid officers, was only \$1,347 higher than the average annual salary of first-grade privates. In the case of lower-ranking occupations the differences were much The average annual salary of captains was only \$240 more than that of first-grade privates. These differences were somewhat greater in the large than in the small cities. This was especially so among the supervisory occupations which entailed greater responsibilities in the The difference between the average annual salaries of chiefs and first-grade privates in Group I cities was \$2,774, compared with a difference of \$1,332 in Group II cities and \$942 in Group III

Less than a tenth of 1 percent.

4 Includes 1 at \$3,066, 2 at \$3,087, 1 at \$3,120, 1 at \$3,200, 2 at \$3,300, 1 at \$3,500, 2 at \$3,600, 1 at \$3,875, 5 at \$4,000, 1 at \$4,200, 15 at \$4,500, 5 at \$5,000, 1 at \$5,040, 1 at \$5,600, and 1 at \$8,000.

5 Includes 1 at \$3,110, 3 at \$3,300, and 1 at \$3,392.

cities. Similarly, the differences between the average annual salaries of captains and first-grade privates were \$349 in Group I cities, \$179 in Group II cities, and \$202 in Group III cities.

On the whole, the annual salaries for the same occupation were higher in the large than in the small cities, the differences being more pronounced among the higher-ranking occupations. The average annual salary of chiefs in Group I cities, for example, was \$1,790 above that of chiefs in Group II cities and \$2,112 above that of chiefs in Group III cities. The differences in the salary of the bulk of the employees were not so great. In Group I cities the average annual salary of first-grade privates was only \$348 above that of first-grade privates in Group III cities, and \$380 above that of first-grade privates in Group III cities.

Table 2.—Distribution of fire-department employees in 39 South Atlantic cities, by selected occupations and salary group, July 1, 1938

	A	ll occu	pation	S		Ch	iefs		Assistant or deputy chiefs				
Salary group	All			p 1	All City group 1				All	City group 1			
	cities	I	п	III	cities	I	п	III	cities	I	11	ш	
Number of cities report- ing	39	9	14	16	38	9	14	15	31	7	13	11	
ees 3	5, 818	3, 903	1, 238	677	38	9	14	15	43	12	18	13	
Under \$1,250	48 30 277 293 684	11 37	32 16 154 105 248	14 2 112 151 153									
\$1,650 and under \$1,750 \$1,750 and under \$1,850 \$1,850 and under \$1,950 \$1,950 and under \$2,050 \$2,050 and under \$2,150	722 1, 462 403 239 429	1, 330 321 192	468 98 66 22 4	154 34 16 25 3	1 2			1 2	2 3 10 3 3		5 2 2	3 5	
\$2,150 and under \$2,250 \$2,250 and under \$2,350 \$2,350 and under \$2,450 \$2,450 and under \$2,550 \$2,550 and under \$2,650	144 96 684 44 64	93 676 38	1 2 5 4 1	1 1 3 2	1 3 4 1		1 2 1	1 1 2 2	2 4 2		2 3 2	i	
\$2,650 and under \$2,750 \$2,750 and under \$2,850 \$2,850 and under \$2,950	17 51 1	12 49 1	2 1	3 1	3 2		1	.3 1	4 1	2 1	2		
\$2.950 and under \$3,050 \$3,050 and over	84 46	79 40	4 5	1 1	5 15		7 5	8 1	8	98			
Average annual salary	\$1, 908	\$2, 041	\$1, 651	\$1,615	\$3, 194	\$4, 727	\$2, 937	\$2, 515	\$2, 529	\$3, 683	\$2, 214	\$1, 899	

Table 2.—Distribution of fire-department employees in 39 South Atlantic cities, by selected occupations and salary group, July 1, 1938—Continued

	Assis	tant de	eputy o	chiefs	l I	Battalio	on chie	fs		Cap	tains		
Salary group	All	Ci	ty grou	ip i	All	Ci	ty grou	tp 1	All	Cit	ty grou	p 1	
	cities	I	II	III	cities	I	II	III	cities	I	II	Ш	
Number of cities report- ing	8	4	2	2	11	6	3	2	35		14	12	
ees 3.	10	6	2	2	66	56	6	4	506	297	141	68	
Under \$1,250 \$1,250 and under \$1,350 \$1,350 and under \$1,450 \$1,450 and under \$1,550 \$1,550 and under \$1,650									16 31		12 19	4 12	
\$1,650 and under \$1,750 \$1,750 and under \$1,850 \$1,850 and under \$1,950 \$1,950 and under \$2,050 \$2,050 and under \$2,150	2 1 1		1 1	2	2 2 4 1 1		2 2 1 1	2	28 62 63 46 130	25 12 130	5 55 38 12	23 7 22	
\$2,150 and under \$2,250 \$2,250 and under \$2,350 \$2,350 and under \$2,450 \$2,450 and under \$2,550 \$2,550 and under \$2,650	<u>1</u>	i			8 6	8 6			9 56 18	9 56 18			
\$2,650 and under \$2,750 \$2,750 and under \$2,850 \$2,850 and under \$2,950 \$2,950 and under \$3,050	1	1			4 24	4 24			47	47			
\$3,050 and over	\$2,638	1		\$1, 785	14 \$3, 014	11 14 \$3, 220	\$1, 915	\$1, 780	\$2, 087	\$2, 302	\$1, 784	\$1, 775	
		Lieute	enants		Eng	ineers,	fire en	gine	 	Dri	vers		
Salary group		Lieutenants City group ¹			City group 1					City group 1			
	A 11	01	o) Broa	-	A 11	Ci	ty grou	tb,	Δ11	Cit	ty grou	p 1	
	All cities	1	11	III	All cities	Cir I	II II	III	All cities	Cit	y grou	p 1	
Number of cities report- ing	cities 	1 8	11	111	cities ——— 19	I 7		1II 	cities	1 4	II 8	111	
ing Total number of employ- ees ³	cities	ı	11	III	cities	I		ııı	cities	I	11		
Total number of employ-	cities 	1 8	11	111	cities ——— 19	I 7		1II 	cities	1 4	II 8	111	
ing. Total number of employees 3 Under \$1,250. \$1,250 and under \$1,350. \$1,350 and under \$1,450. \$1,450 and under \$1,450.	30 439 	1 8	11 91	111 56 	19 426	I 7	5 86 86 87	111 17 67 23 28	16 182	1 4	8 114 6	111 4 13	
ing. Total number of employees 3 Under \$1,250. \$1,250 and under \$1,330. \$1,350 and under \$1,350. \$1,450 and under \$1,550. \$1,550 and under \$1,550. \$1,550 and under \$1,750. \$1,750 and under \$1,750. \$1,750 and under \$1,850. \$1,850 and under \$1,950. \$1,850 and under \$1,950.	30 439 	8 4 292	11 91 27 25 31	111 56 	19 426 31 45 19 57 47 82	7 273	5 86 88 17	23 28 10	16 182 13 26 88	1 4 555	8 114 	111 4 13	
ing. Total number of employees 3 Under \$1,250. \$1,250 and under \$1,350. \$1,350 and under \$1,350. \$1,350 and under \$1,550. \$1,450 and under \$1,550. \$1,650 and under \$1,650. \$1,650 and under \$1,750. \$1,650 and under \$1,850. \$1,850 and under \$1,850. \$1,850 and under \$2,250. \$2,250 and under \$2,250.	30 439 	8 4 2922 333 95 21 111 366	11 91 27 25 31	111 56 	19 426	7 273 46 82 1 56 64	5 86 88 17	23 28 10	16 182 13 26 88 29	1 4 555	8 114 	111 4 13	

Table 2.—Distribution of fire-department employees in 39 South Atlantic cities, by

	Pr	ivates,	all gra	des	A	uto m	echanie	28	Fire	e-alarn	opera	tors
Salary group	All	_ Ci	ty grou	1p 1	All	Ci	ty grou	ıp i	All	Ci	y grou	p 1
	cities	I	п	ш	cities	I	п	Ш	cities	I	II	ш
Number of cities report- ing	38 3, 721	9 2, 625	14 690	15 406	ļ - ·	5		6		6	6	2
Under \$1,250 \$1,250 and under \$1,350 \$1,350 and under \$1,450 \$1,450 and under \$1,550 \$1,550 and under \$1,650	37 28 209 182 569	10	30 16 132 42 193	7 2 76 116 99	1			1	3 	8		3
\$1,650 and under \$1,750 \$1,750 and under \$1,850 \$1,850 and under \$1,950 \$1,950 and under \$2,050 \$2,050 and under \$2,150	458 1, 228 142 67 175	89 1, 214 142 67 175	277	92 14		2 2 3	2 3 1	1 2 1 1	13 11 6 6	11 6	10	
\$2,150 and under \$2,250 \$2,250 and under \$2,350 \$2,350 and under \$2,450 \$2,450 and under \$2,550 \$2,550 and under \$2,650					2	2			13	13		
\$2,650 and under \$2,750 \$2,750 and under \$2,850 \$2,850 and under \$2,950 \$2,950 and under \$3,050 \$3,050 and over												
Average annual salary	\$1,829	\$1,939	\$1,570	\$1, 561	\$1,875	\$2,002	\$1,855	\$1, 731	\$1,794	\$1,927	\$1,624	\$1, 224
		Electr	icians			Line	men			Otl	ers	
Salary group	All	Cit	ty grou	p 1	All	Cit	ty grou	p 1	All	Cit	y grou	p 1
	cities	I	II	Ш	cities	I	II	m	cities	I	11	III
Number of cities reporting. Total number of employees 8	4	2	1	1	7 26	3 20	3	1	33 262	9	14 45	10
Under \$1,250 \$1,250 and under \$1,350 \$1,350 and under \$1,450 \$1,450 and under \$1,550 \$1,550 and under \$1,650	1 1 2		1						6 2 7 19 12	2 2 2 13 6	1 5 6 3	3
\$1,650 and under \$1,750 \$1,750 and under \$1,850 \$1,850 and under \$1,950 \$1,950 and under \$2,050 \$2,050 and under \$2,150	2				11 4	5 4	5	`1	12 37 41 16 27	1 24 31 11 26	5 8 9 5	6 5 1

27

18 17

5 14

13

13

12 6

\$2,050 and under \$2,150___

\$2,150 and under \$2,250.

\$2,250 and under \$2,350 \$2,350 and under \$2,450 \$2,450 and under \$2,550

\$2,550 and under \$2,650.

\$2,650 and under \$2,750. \$2,750 and under \$2,850.... \$2,850 and under \$2,950.... \$2,950 and under \$3,050....

\$3,050 and over_____

Average annual salary____|\$1,654|\$1,900|\$1,420|\$1,620|\$1,894|\$1,950|\$1,713|\$1,680 (13)

Salaries of Privates

In the fire departments of 38 South Atlantic cities which reported privates, these officers constituted 64 percent of all employees and received 61 percent of the total salaries. Some cities do not distinguish among privates, engineers, and drivers, but classify them all as privates. Of the 38 cities 19 reported engineers and 16 reported drivers. For purposes of comparison, therefore, these 3 occupations should be combined. Usually these 3 occupations include approximately three-fourths of all employees in a fire department. In the South Atlantic Division they constituted exactly 75 percent of all the employees.

Eighty-four percent of all privates were "first-grade" privates, 6 percent were in the second grade, and the rest were scattered between the third and seventh grades. Because of their large numbers of privates, the large cities maintained a greater number of grades of privates than the small cities. In many instances, however, the lower-grade privates in the large cities received higher salaries than first-grade privates in the small cities. Sixth-grade privates in Washington, D. C., for example, received more than the first-grade privates in all but 2 of the 38 cities.

On the whole, the annual salaries of privates did not vary greatly. Seventy-one percent of the privates received between \$1,350 and \$1,850 a year; 27 percent received between \$1,850 and \$2,450; and 2 percent, between \$1,050 and \$1,350. The annual salaries of privates were noticeably higher in the large than in the small cities. Eighty-five percent of the privates in Group I cities received \$1,750 or more, as compared with only 3 percent in Group III cities, and none in Group II.

⁶ Because of the relatively higher salaries in Washington, D. C., the differences resulting from the size of the cities were more pronounced in the South Atlantic Division than in most other geographic divisions.

Table 3.—Distribution of privates in fire departments of 38 South Atlantic Division cities by salary group and grade, July 1, 1938

	All grades											
		Nur	nber		Percent							
Salary group	All	С	ity group) ¹	All	City group 1						
	cities	I	II	III	cities	I	II	Ш				
All groups	3, 721	2, 625	690	406	100.0	100. 0	100.0	100.0				
\$1,050 and under \$1,150 \$1,150 and under \$1,250 \$1,250 and under \$1,350 \$1,250 and under \$1,350 \$1,350 and under \$1,450 \$1,450 and under \$1,550	5 32 28 209 182	10 1 24	26 16 132 42	1 6 2 76 116	.1 .9 .8 5.6 4.9	.4 (²)	. 6 3. 8 2. 3 19. 1 6. 1	. 2 1. 5 . 5 18. 7 28. 6				
\$1,550 and under \$1,650 \$1,650 and under \$1,750 \$1,750 and under \$1,850 \$1,750 and under \$1,950 \$1,950 and under \$2,050	569 458 1, 228 142 67	277 89 1, 214 142 67	193 277	99 92 14	15. 3 12. 3 33. 0 3. 8 1. 8	10. 6 3. 4 46. 2 5. 4 2. 6	28. 0 40. 1	24, 4 22, 7 3, 4				
\$2,050 and under \$2,150 \$2,150 and under \$2,250 \$2,250 and under \$2,350 \$2,350 and under \$2,450	175 50 37 539	175 50 37 539			4. 7 1. 3 1. 0 14. 5	6. 7 1. 9 1. 4 20. 5						

	Number of privates in specified grade										
Galana arang		Fi	rst		Second						
Salary group	All	С	ity group) I	All	City group ¹					
	cities	I	11	111	cities	I	11	III			
All groups	3, 143	2, 216	600	327	231	163	36	32			
\$1,050 and under \$1,150 \$1,150 and under \$1,250 \$1,250 and under \$1,350					4		5	4 1			
\$1,350 and under \$1,450 \$1,450 and under \$1,550	158 128		101 34	57 94	25 24	16	18 8	7			
\$1,550 and under \$1,650 \$1,650 and under \$1,750 \$1,750 and under \$1,850	506 341 1, 222	220 1, 208	191 274	95 67 14	13 101	11 78	2 3	20			
\$1,850 and under \$1,950 \$1,950 and under \$2,050	106	106			9	9					
\$2,050 and under \$2,150 \$2,150 and under \$2,250 \$2,250 and under \$2,350 \$2,350 and under \$2,450		122 21 539			33 16	33 16					

	Number of privates in specified grade—Continued													
		Th	ird			Fou	rth		Fifth through seventh					
Salary group	All City group 1				All	Cit	y grot	1p 1	All	City group 1				
	cities	I	п	ш	cities	I	11	ш	cities	I	11	III		
All groups	131	107	14	10	82	53	21	8	134	86	19	29		
\$1,050 and under \$1,150 \$1,150 and under \$1,250 \$1,250 and under \$1,350 \$1,350 and under \$1,450 \$1,450 and under \$1,550	11	10	13	1 3	10 11 12	8	10 11	4	13 15	1	15	12 15		
\$1,550 and under \$1,650 \$1,650 and under \$1,750 \$1,750 and under \$1,850 \$1,850 and under \$1,950 \$1,950 and under \$2,050	5	10		5	6 10	2 6 10		4	11 26 48	11 26 48				
\$2,050 and under \$2,150 \$2,150 and under \$2,250 \$2,250 and under \$2,350 \$2,350 and under \$2,450		26 17			27	27								

Table 3.—Distribution of privates in fire departments of 38 South Atlantic Division cities by salary group and grade, July 1, 1938—Continued

Hours and Working Conditions

Average Hours and Days on Duty per Week

A large majority of the employees in a fire department, in fact all of the uniformed men except a few officers, work under a platoon system of assignment. The rest of the employees are either on "continuous" duty or have the working hours prevailing in the other city bureaus.

A platoon is a system whereby the hours of duty of the firemen are so arranged as to insure protection to the city at all times. It is analogous to the shift systems in industries operating 24 hours a day. There are 3 different types of platoon systems: (1) Single-platoon system, (2) 2-platoon system, and (3) 3-platoon system.

Under the single-platoon system each fireman stays on duty continuously for two or more days, depending upon the variation of the system in use in the particular locality, and then has a day off. The off days are so arranged that the fire department is equally staffed at all hours.

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¹ Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000; and Group III, cities having a population of 25,000 and under 50,000, based on United States census of population for 1930.

² Less than a tenth of 1 percent.

The length of the period on duty between off days determines the average weekly number of hours and days on duty under the single-platoon system. The shorter the period on duty the shorter the average weekly hours and days on duty. The shortest average hours and days on duty noted under the single-platoon system is the one with 2 days on and third day off. It averages 112 hours, or 4.7 days on duty per week. In no instance, however, does the single-platoon system ever reach 168 hours or 7 days of duty per week because under all variations of the single-platoon system the firemen are given a day off duty at regular intervals.

The single-platoon system used to be the most prevalent system. At present a majority of the cities operate under the two-platoon system.

4. Under the two-platoon system the firemen are divided into two groups and work in two shifts. While one group is at work the other is off duty. The firemen, however, do not work on the same shift constantly but change from day to night shift at regular intervals. Usually, before shifting from day to night duty, or vice versa, the men on duty stay on for 24 hours while those off duty remain off for 24 hours. Thus, the full day off duty is balanced by a full day on duty every shift period. Hence, even with a full day off every other shift period, each group stays on duty an average of 12 hours a day, or 84 hours a week.

In some fire departments, however, the firemen are given additional time off duty which is not compensated for by a like period on duty. In those fire departments the average hours on duty per week is less than 84, usually 72.

The interval of time between the shifts, or the frequency of the shifts, is not the same in all cities operating under the 2-platoon system of assignment. In some cities shifts occur as frequently as every 24 hours, whereas in others they occur as seldom as every 30 days. The frequency of the shifts does not affect the average hours on duty per week under the 2-platoon system because under all variations of the 2-platoon system the firemen average 12 hours a day, except in cities that give additional time off duty. The frequency of the shifts under the 2-platoon system, however, does affect and determine the average number of days on duty per week in the given fire department. The more frequent shifts result in a fewer number of average days on duty per week. The shift with 24 hours on and 24 hours off averages the least number of days on duty per

week, 3½ days, and the shift with no full 24-hour day off duty averages the most, 7 days. Thus, the different cities operating under the 2-platoon system and having the same average number of hours on duty per week, 84 hours if no additional time off duty is given, may have a different average number of days on duty per week, between 3½ and 7 days.

In a very few fire departments a small number of the officers work under a different platoon system than the rest of the firemen, which fact results in a combination of two types of platoons in the same fire department. However, such cases are rare. Almost every fire department operates wholly under either one of the three platoon systems (single-platoon, 2-platoon, or 3-platoon).

Almost every fire department has a small number of employees not included under the platoon system. These employees fall into two groups—those on "continuous" duty and "other." In most of the fire departments the chief and a few of his immediate assistants, including those in charge of the various divisions within the fire departments, such as the superintendent of fire-alarm division, are subject to call any moment and are therefore considered to be on duty continuously. The "other" group includes mostly nonuniformed employees such as clerks and maintenance men who are not required to fight fires. These employees usually have the working hours prevalent in private industry or in the other departments of the city government.

The single-platoon system included 3 percent and the 2-platoon system included 92 percent of all employees. The remaining 5 percent of the employees did not work under any platoon system but were either on continuous duty or had other hours prevailing in the other departments of the city government.

Under the single-platoon system the firemen were on duty between an average of 112 and 134 hours per week. Under the 2-platoon system they were on duty between an average of 72 and 84 hours per week. Those having "other" hours were on duty an average of 52 hours per week.

There were two types of 2-platoon systems—the regular type, and the one under which the firemen received additional time off duty.

The regular 2-platoon system with an average of 84 hours on duty per week included 76 percent of all the employees. The 2-platoon system with additional time off duty included 16 percent of all employees, 1 percent of whom were on duty an average of 81 hours a week and 15 percent were on duty an average of 72 hours per week.

The average number of hours on duty per week were shorter in the large than in the small cities. This was due to three facts: (1) None of the Group I cities operated under the single-platoon system, whereas one Group II and three Group III cities did operate under the single-platoon system, (2) none of the Group III cities operated under the variation of the 2-platoon system with additional time off duty, and (3) continuous duty included only 0.3 percent of all employees in Group I cities, as compared with 0.7 percent in Group II cities, and 1.8 percent in Group III cities.

The average number of days on duty per week ranged between 4.7 and 5.6 days under the single-platoon system and between 3.4 and 7.0 days under the 2-platoon system.

Under the regular 2-platoon system 3.5, 6.1, and 6.5 days predominated and included 30, 25, and 11 percent of all employees, respectively. Under the 2-platoon system with additional time off duty an average of 5.5 days per week predominated and included 15 percent of all employees.

The most popular platoon system was the variation of the regular 2-platoon system with 24 hours on duty followed by 24 hours off duty. Seventeen of the 39 fire departments and 30 percent of all the employees operated under this variation. Under this variation the second platoon comes on duty when the first goes off duty so that the city has the same number of firemen on duty at all hours.

In addition to the 17 fire departments mentioned above, another fire department operated under the variation of the 2-platoon system, with 24 hours on and 24 hours off duty. However, that city gave an additional 0.2 day off duty per week. With this additional time off duty the men under this variation were on duty an average of 81 hours and 3.4 days per week.

The 24 hours of continuous duty is the least desirable feature of this type of 2-platoon system. This disadvantage, however, is partly compensated for by the fact that the average number of days on duty per week under this system is shorter than under any other system.

Table 4.—Average hours and days on duty per week in fire departments of 39 South
Atlantic Division cities, July 1, 1938

	Aver-		Number of cities reporting				Number of employees				Percent of employees			
System of operation	hours on duty per	days on duty per	All cit-	Cit	y gro	up 1	All cit-	Cit	y groi	1p 1	All cit-	Cit	y grot	1p 1
	week		ies	I	II	ш	ies	I	II	III	ies	I	II	ш
All systems							² 5, 818	3, 903	1, 238	677	100. 0	100. 0	100. 0	100. 0
Continuous duty Single platoon 3	168	7.0	25 4	6	8				9 46			. 3		1.8 19.0
On 2 days, off 1 day	112		1			1	55		40	55			3. 1	8.1
On 3 days, off 1 day	126		1			1	40	- -		40				5. 9
On 4 days, off 1 day	134	5.6	2		1	1	80		46	34	1.4		3.7	5.0
Two-platoon-regular			32	7	11	14	4, 413	2, 853	1, 043	517	75.8	73. 1	84. 2	76. 4
On 24 hours, off 24	84	3. 5	17	5	6	6	1, 757	1.003	506	248	30. 2	25. 7	40.9	36, 6
Shift 3rd day	84	5.8	1			ĭ	146	146			2. 5	3.8		
Shift 4th day			2	1		1	1, 450	1, 398		52		35.8	:-:	7.7
Shift 5th day	84 84		1 6		1 2	3	63 637		63 258		1. 1 10. 9	7.8	5. 1 20. 8	
Shift each week	84	7.0	5		2 2	3	360		216				17. 4	
Two-platoon-with addi-													!	
tional time off duty 5 Shift 7th day, off 1 day		 -	2	1	1		920	840	80		15.8	21. 5	6.5	
per week	72	5.5	l 1	1			840	840		l	14.4	21. 5		
On 24 hours, off 24			-]						
hours—off 0.2 day per week	81	3. 4	1		1		80		80		1.4		6.5	
Other 6	. 52	6.0	27	9	11	7	278	199	60	19	4.8	5.1	4.9	2.8
	1	ł	ì	1		l	l	1	Į.	I	į	1	I	ļ

Perquisites Supplied to Firemen

All the 39 cities supplied sleeping quarters, and 15 of them supplied the necessary beds, bedding, linen, and laundry. Twenty-two cities supplied full uniforms and 3 supplied the cloth and trimmings for Some cities supplied other items such as rubber boots, helmets, and rubber coats. The small cities, as a rule, supplied more items than the large cities.

¹ Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000; and Group III, cities having a population of 25,000 and under 50,000. based on United States census of population for 1930.
² Includes only regular full-time employees.
³ The average number of hours on duty per week for employees in each variation of the single-platoon system is arrived at by dividing the total number of hours on duty per year for each variation by 52.143.
The average number of days on duty per week for each variation is arrived at by dividing the total numbers of days on duty per year by 52.143.
¹ Under each variation of the regular 2-platoon system the employees work in 2 groups, 1 group is on duty while the other is off duty. Over a period of days, therefore, each group is on duty as many hours as the other, or an average of 12 hours a day and 84 hours a week. Each variation of the 2-platoon system, however, spreads these 84 hours into different numbers of days on duty per week. The average number of days on duty per week for each variation is arrived at by dividing the number of days on duty per year by 52.143.
³ Under the 2-platoon system with additional time off duty the employees are on duty less than an average of 84 hours per week. The average number of hours on duty per week under this system is arrived at by deducting the number of additional weekly hours off duty from 84. The average number of days on duty per week is arrived at by dividing the number of additional tumber of employees under "other."

¹ The average number of working hours and days per week is arrived at by dividing the number of employees under "other."

Table 5.—Perquisites	supplied	to	firemen	in	39	South	Atlantic	Division	cities,
_		,	July 1, 1	1938	3				•

	_	Number of cities supplying—											
City group 1	Num- ber of cities		Beds, bed- ding, linen, laundry	Hel- mets	Rubber coats	Rubber boots	Uni- forms	Minor items					
All cities	39	39	15	15	14	16	2 25	20					
Group I. Group II. Group III.	9 14 16	9 14 16	1 5 9	3 3 9	4 5 5	2 7 7	5 8 12	6 5 9					

¹ Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000; and Group III, cities having a population of 25,000 and under 50,000, based on United States census of population for 1930.

² 1 Group I city and 2 Group III cities supplied only the cloth and trimmings for uniforms.

Vacations With Pay

Almost all the employees, 5,803 out of 5,818, in the fire departments of the 39 cities received vacations with pay. For those receiving paid vacations, the average vacation period was little over 16 days (16.4) a year. Vacation periods of 14, 15, and 26 days predominated and included 31, 29, and 15 percent of the employees, respectively.

In spite of the fact that the large cities paid higher salaries than the small cities, the paid vacation periods were longer in the large than in the small cities. Group I cities gave paid vacations of an average of 18 days a year compared with 14 and 13 days for Group II and Group III cities, respectively. Vacation periods in Group II and Group III cities ranged between 10 and 15 days while the vacation periods in Group I cities ranged between 10 and 26 days, 23 percent of the employees receiving 26 days.

Table 6.—Number of employees receiving specified vacation with pay in fire departments of 39 South Atlantic Division cities, July 1, 1938

		Total				Nu	mber o	f emp	loyees	havi	ng—				
City group 1	Num- ber of cities		No va- ca- tion	10 days	12 days	14 days	15 days	16 days	18 days	19 days	20 days	21 days	26 days	30 days	31 days
All cities	39	2 5,818	15	488	166	1, 830	1,702	191	27	1	333	172	886	6	1
Group II Group III	9 14 16	3, 903 1, 238 677	1 14	10 280 198	47 119	1, 391 242 197	896 658 148	191	27	ī	329 4	172	886	6	1

¹ Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000; and Group III, cities having a population of 25,000 and under 50,000, based on United States census of population for 1930.

² Includes only regular full-time employees.

Promotions of Lower-Grade Privates

Thirty-two of the thirty-eight fire departments having paid privates automatically promoted their lower-grade firemen after a specified period of service, after 6 months in 6 cities, and after 1 year in 26 cities. In 4 cities promotions were by civil-service examination. Only 2 cities had no promotion system.

Table 7.—Promotion of	f lower-grade	privates in	fire d	epartments	of 38 8	South .	Atlantic
	Division	cities, July	i 1, 19	9 3 8	•		

		Total	Number m	of cities w otion after	vith pro-	No pro-
City group ^t	Number of cities	number of pri- vates	6 months	1 year	Civil- service examina- tion	motion system
All cities	38	3, 721	6	26	4	2
Group I. Group III.	9 14 15	2, 625 690 406	1 2 2 3	6 10 10	1 1 2	1 1

¹ Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000; and Group II, cities having a population of 25,000 and under 50,000, based on United States census of population for 1930.

² Newport News, Va., up to third grade, 6 months; third to second grade, 2 years; second to first grade,

Percentage Distribution of Employees and Salaries

All Employees

Ninety-five percent of all employees in the fire departments of the 39 South Atlantic cities were in the fire-fighting divisions 7 and the rest were in the fire-prevention, apparatus, fire-alarm, and clerical divisions. Of the 95 percent in the fire-fighting division, 75 percent were privates, drivers, engineers 8; 16 percent were captains and lieutenants; 3 percent were battalion chiefs, chiefs, and their assistants; and 1 percent miscellaneous.

The higher-ranking occupations constituted a smaller percentage of the employees in the large than in the small cities. In Group I cities, chiefs formed 0.2 percent of all employees compared with 1.1 and 2.2 percent in Group II and Group III cities, respectively. Captains and lieutenants constituted 15, 19, and 18 percent of the employees in Group I, II, and III cities, respectively. On the other hand, a greater proportion of the employees were privates, drivers, and engineers in

⁷ All fire departments assign men from the fire-fighting division to the other divisions and carry these assigned men on the fire-fighting division list. This is done to provide the fire department with a reserve for cases of emergency. As a result of this method of assignment, the fire-fighting division is always shown to be larger than it actually is on a routine day. Some other factors are also responsible for the small size of the non-fire-fighting divisions. In some cities, the maintenance work is let to private contractors; part of the fire-prevention work is done by the building inspector's office; and the fire-alarm work is sometimes done by the local telephone company or by a separate city bureau.

⁸ These 3 occupations (privates, drivers, and engineers) are combined because some of the cities classify all 3 as privates.

the large than in the small cities, 76 percent in Group I cities and 72 percent in Group II and III cities.

Ninety-five percent of the total salaries went to the fire-fighting division and the remaining 5 percent, to the other divisions in almost the same proportion as the distribution of the employees in those divisions. Although the percentage of all employees in the firefighting division and the percentage of total salaries received by them were almost identical, the percentages varied for the different occupations within the division, the higher-ranking occupations receiving a percentage of salaries higher than their percentage of numbers. constituted 0.7 percent of the employees and received 1.1 percent of total salaries. Captains and lieutenants formed 16 percent of employees and received 18 percent of total salaries. Privates, on the other hand, constituted 64 percent of all employees and received 61 percent of the total salaries. These characteristic differences were more pronounced in the large than in the small cities. cities the chiefs received a smaller proportion of the total salaries and privates received a greater proportion of total salaries than in the small cities.

Table 8.—Percentage distributions of employees and salaries in specified divisions in fire departments of 39 South Atlantic region cities, July 1, 1938

	Per	rcent of	employ	rees	P	ercent o	of salari	es
Division 1 and occupation	All	Ci	ty grou	p 2	All	Ci	ty grou	p ²
	cities	I	п	Ш	cities	I	п	Ш
All divisions	3 100. 0	100.0	100.0	100.0	³ 100. 0	100.0	100.0	100.0
Fire fighting Chiefs Assistant or deputy chiefs Assistant deputy chiefs Battalion chiefs Captains Lieutenants Sergeants Pilots First mates Engineers, fire-engine Engineers, marine Drivers Privates Miscellaneous	.7 .7 .2 1.1 8.7 6.7 .8 .1 .2 7.3 .4 3.1 64.0	94. 8 .2 .3 .2 1. 4 7. 6 6. 2 1. 3 7. 0 .6 1. 4 67. 3	94. 2 1. 1 1. 5 . 2 . 5 11. 4 7. 4 	95. 4 2. 2 1. 9 . 3 . 6 10. 0 8. 3 9. 9 60. 0 . 3	94. 6 1. 1 1. 0 . 2 1. 8 9. 5 7. 0 1. 1 . 1 . 2 7. 1 . 5 2. 9 61. 3	94. 6 . 5 . 2 2.3 8. 6 6. 7 1. 3 6. 9 . 6 1. 4 63. 9	94. 0 2. 0 1. 9 2 6 12. 3 7. 5 	95. 5 3. 4 2. 2 . 3 . 7 11. 0 8. 5 9. 3 58. 0 . 3
Fire prevention Apparatus Fire alarm Clerical	1.3 2.6	1.0 1.2 2.6	1.0 1.4 2.7 .7	.7 1.5 1.9	1.0 1.4 2.5 .5	1. 1 1. 4 2. 5	1.6 2.8 .7	.8 1.6 1.7

¹ All fire departments assign men from the fire-fighting division to the other divisions and carry these assigned men on the fire-fighting division list. This is done to provide the fire department with a reserve for cases of emergency. As a result of this method of assignment, the fire-fighting division is always shown to be larger than it actually is on a routine day. Some other factors are also responsible for the small size of the non-fire-fighting divisions. In some cities, for example, the maintenance work is let to private contractors; part of the fire-prevention work is done by the building inspector's office; and the fire-alarm work is done by the local telephone company or by a separate city bureau.

¹ Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000; and Group III, cities having a population of 25,000 and under 50,000, based on United States census of population for 1930.

³ Includes only regular full-time employees.

Supervisory Employees

The comparative ratio of the total number and salary of supervisory employees is worthy of note. Supervisory employees constituted 20 percent of all employees and received only 23 percent of the total salaries.

The differences were less in the small than in the large cities as shown in table 10.

Table 9.—Number and salaries of supervisory employees ¹ as percent of total firedepartment employees and total salaries, in 39 South Atlantic Division cities, July 1, 1938

TA	All cities	(City group	2
Item	An entres	I	II	III
Supervisory employees as percent of all employees. Supervisory salaries as percent of total salaries. Ratio of salaries to employees.	20. 0 23. 1 1. 16	18. 2 21. 7 1. 19	23. 4 26. 2 1. 12	24. 5 27. 4 1. 12

¹ Supervisory employees are those employees who have others working under them. The group includes the chiefs, assistant chiefs, assistant deputy chiefs, battalion chiefs, captains, lieutenants, sergeants, marshals or wardens, superintendents, chief fire-alarm operators, assistants to these officers and others who direct other employees.

² Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000, and Group III, cities having a population of 25,000 and under 50,000 based on United States census of population for 1930.

Per Capita Salary Cost of Fire Protection and Distribution of Employees

In proportion to their population the large cities had more firemen than the small cities. Group I cities had a fire-department employee for every 595 inhabitants; Group II cities, for every 722 inhabitants; and Group III cities, for every 860 inhabitants.

Similarly, the per capita salary costs of fire protection were higher in the large than in the small cities. The per capita salary cost was \$3.43 in Group I cities, \$2.29 in Group II cities, and \$2.06 in Group III cities. This was due to two factors—the proportionately greater number of firemen employed by the large cities, and the relatively higher salaries paid by the fire departments of the large cities.

Appendix

The listing of the 1930 populations of the cities covered by this report, along with the ratios of employees to population and per capita costs, is shown in table A. The South Atlantic Division includes the States of Delaware, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia, and the District of Columbia.

Table A.—Fire department employees and salary costs in relation to population in cities with a population of 25,000 \(^1\) or more in South Atlantic States, July 1, 1938

Asheville, N. C. 50, 198 13 2, 25 Newport News, Va. 34, 417 12 2, 25 Orlando, Fla. 27, 330 14 2, 16 Charleston, S. C. 62, 265 15 2, 21 Parkersburg, W. Va. 29, 623 9 1, 45 Charleston, W. Va. 60, 408 12 1, 99 Petersburg, Va. 28, 564 14 2, 06 Charlette, N. C. 82, 675 19 3, 37 Portsmouth, Va. 45, 704 8 1, 46 Columbia, S. C. 51, 581 12 1, 99 Raleigh, N. C. 37, 379 14 2, 21 Durham, N. C. 52, 637 12 2, 03 St. Petersburg, Fla. 40, 425 12 1, 94 Greensboro, N. C. 53, 569 9 1, 58 Spartanburg, S. C. 28, 723 16 2, 58	City	Popula- tion ³	Em- ploy- ees per 10, 000	Per capita salary cost	City	Popula- tion ²	Em- ploy- ees per 10, 000	Per capita salary cost
Macon, Ga. 53,829 14 \$2,41	All cities	3, 767, 926	3 16	3\$2.97				
and over					and under 100,000—Con.			
Atlanta, Ga				0 40	Macon, Ga	53, 829		
Baltimore, Md. 804, 874 18 3. 42 Winston-Salem, N. C. 75, 274 11 1.85 Jacksonville, Fla. 129, 549 15 3. 48 Miami, Fla. 110, 637 15 2. 98 Norfolk, Va. 129, 710 19 3. 50 and under 50,000 551, 600 \$13 \$2.06 Tampa, Fla. 101, 161 9 1. 67 Clarksburg, W. Va. 28, 866 9 1. 43 Wishington, D. C. 486, 869 18 4. 46 Columbus, Ga. 43, 131 14 2. 36 Wilmington, Del. 106, 597 15 2. 86 Cumberland, Md. 37, 747 9 1. 56 Greenville, S. C. 29, 154 14 2. 16 High Point, N. C. 30, 745 10 1. 61 Charleston, S. C. 62, 265 15 2. 21 Parkersburg, W. Va. 28, 664 17 2. 94 Charleston, W. Va. 60, 408 12 1. 99 Raleigh, N. C. 37, 379 14 2. 16 Columbia, S. C. 51, 581 12 1. 99 Raleigh, N. C. 37, 379 14 2. 16 Greensboro, N. C. 53, 569 9 1. 58 Sprataburg, S. C. 37, 379 14 2. 20 Durham, N. C. 52, 637 12 2. 03 St. Petersburg, Fla. 40, 425 12 1. 99 Greensboro, N. C. 53, 569 9 1. 58 Sprataburg, S. C. 27, 27, 27, 27, 27, 27, 27, 27, 27, 27,	and over	2, 322, 692	17	3.43	Roanoke, Va			
Baltimore, Md. 804, 874 18 3. 42 Winston-Salem, N. C. 75, 274 11 1.85 Jacksonville, Fla. 129, 549 15 3. 48 Miami, Fla. 110, 637 15 2. 98 Norfolk, Va. 129, 710 19 3. 50 and under 50,000 551, 600 \$13 \$2.06 Tampa, Fla. 101, 161 9 1. 67 Clarksburg, W. Va. 28, 866 9 1. 43 Wishington, D. C. 486, 869 18 4. 46 Columbus, Ga. 43, 131 14 2. 36 Wilmington, Del. 106, 597 15 2. 86 Cumberland, Md. 37, 747 9 1. 56 Greenville, S. C. 29, 154 14 2. 16 High Point, N. C. 30, 745 10 1. 61 Charleston, S. C. 62, 265 15 2. 21 Parkersburg, W. Va. 28, 664 17 2. 94 Charleston, W. Va. 60, 408 12 1. 99 Raleigh, N. C. 37, 379 14 2. 16 Columbia, S. C. 51, 581 12 1. 99 Raleigh, N. C. 37, 379 14 2. 16 Greensboro, N. C. 53, 569 9 1. 58 Sprataburg, S. C. 37, 379 14 2. 20 Durham, N. C. 52, 637 12 2. 03 St. Petersburg, Fla. 40, 425 12 1. 99 Greensboro, N. C. 53, 569 9 1. 58 Sprataburg, S. C. 27, 27, 27, 27, 27, 27, 27, 27, 27, 27,	1411- G-	000 000		0.00	Savannan, Ga			
Jacksonville, Fla. 129,549 15 3,48 Miamii, Fla. 110,637 15 2,98 Miamii, Fla. 110,637 16 2,36 Miamii, Fla. 101,161 9 1,67 Clarksburg, W. Va 28,866 9 1,43 Washington, D. C 486,869 18 4,46 Columbus, Ga. 43,131 14 2,36 Miamii, Miamii	Atlanta, Ga	270, 366		2.06	w neeling, w. va			
Miami, Fla.	Baitimore, Md	804, 874			winston-salem, N. C.	75, 274	11	1.85
Norfolk, Va. 129, 710 19 3, 50 and under 50,000. 551,600 \$13 \$2, 20 Richmond, Va. 182, 929 20 3, 34 Tampa, Fla. 101, 161 9 1, 67 Clarksburg, W. Va. 28, 866 9 1, 43 Wilmington, D. C. 486, 869 18 4, 46 Columbus, Ga. 43, 131 14 2, 30 Clarksburg, W. Va. 28, 866 9 1, 43 Wilmington, Del. 106, 597 15 2, 86 Cumberland, Md. 37, 747 9 1, 56 Cumberland, Md. 37, 747 9 1, 56 Clarksburg, W. Va. 29, 154 14 2, 16 Clarksburg, W. Va. 29, 154 14 2, 16 Clarksburg, W. Va. 36, 745 10 1, 61 Clarksburg, W. Va. 36, 745 10 1, 61 Clarksburg, Va. 40, 661 17 2, 94 Clarksburg, Va. 40, 661 17 2, 94 Clarksburg, W. Va. 28, 675 15 2, 21 Parkersburg, W. Va. 29, 623 9 1, 44 Clarksburg, W. Va. 29, 623 9 1, 44	Jacksonvine, Fla	129, 549			Character at the of 00 000			Į.
Richmond, Va. 182, 929 20 3, 34 Tampa, Fla 101, 161 9 1, 67 Clarksburg, W. Va. 28, 866 9 1, 42 Washington, D. C. 486, 869 18 4, 48 Columbus, Ga. 43, 131 14 2, 36 Cumberland, Md. 37, 747 9 1, 56 Greenville, S. C. 29, 154 14 2, 16 Charleston, W. C. 50, 193 13 2, 25 Newport News, Va. 34, 417 12 2, 26 Charleston, W. C. 60, 408 12 1, 99 Parkersburg, W. Va. 28, 866 9 1, 42 14 2, 16 Charleston, W. Va. 60, 408 12 1, 99 Parkersburg, W. Va. 20, 622 9 1, 47 20, 47	Morfolir Vo	110, 037			ord under 50 000	EET 600	2 19	20.00
Washington, D. C. 480, 809 18 (4.46) Columbus, Ga. 43, 181 14 2.30 (Greenville, S. C. 29, 154 14 2.16 (Greenville, S. C. 36, 745 10 1.61 (Greenville, S. C.	Dichmond Vo	129, 710			and under 50,000	351, 600	. 19	° 2.00
Washington, D. C. 480, 809 18 (4.46) Columbus, Ga. 43, 181 14 2.30 (Greenville, S. C. 29, 154 14 2.16 (Greenville, S. C. 36, 745 10 1.61 (Greenville, S. C.	Tomno Flo	102, 929			Clerksburg W Vo	90 066	0	1 42
Wilmington, Del 106, 597 15 2. 86 Cumberland, Md 37, 747 9 1. 56 Group II—cities of 50,000 and under 100,000 893, 634 14 2. 29 Hagerstown, Md. 4 30, 861 14 2. 16 Hagerstown, Md. 4 30, 861 17 2. 94 14 2. 16 Hagerstown, Md. 4 30, 861 17 2. 94 14 18 18 18 18 18 18 18 18 18 18 18 18 18	Washington D C	486 860						
Greenville, S. C. 29, 154 14 2.16			15		Cumberland Md			
Hagerstown, Md. 4 30, 861	William Book, Dolland	100,007	10	1 2,00)				
and under 100,000. 893,634 14 2.29 High Point, N. C. 36,745 10 1.61 Asheville, N. C. 50,193 13 2.25 Newport News, Va. 34,417 12 2.26 Augusta, Ga. 60,342 16 2.36 Orlando, Fla. 27,330 14 2.16 Charleston, S. C. 62,265 15 2.21 Parkersburg, W. Va. 29,623 9 1.44 Charleston, W. Va. 60,408 12 1.99 Petersburg, Va. 28,564 14 2.00 Charlotte, N. C. 82,675 19 3.37 Portsmouth, Va. 45,704 8 1.46 Columbia. S. C. 51,581 12 1.99 Raleigh, N. C. 37,379 14 2.21 Durham, N. C. 52,637 12 2.03 St. Petersburg, Fla. 40,425 12 1.94 Greensboro, N. C. 53,569 9 1.58 Spartanburg, S. C. 87,723 16 2.58	Group II—cities of 50,000			l i	Hagerstown, Md 4	30, 861	11	2.10
Asheville, N. C. 50, 198 13 2, 25 Newport News, Va. 34, 417 12 2, 29 Augusta, Ga. 60, 342 16 2, 36 Orlando, Fla. 27, 330 14 2, 16 Charleston, S. C. 62, 265 15 2, 21 Parkersburg, W. Va. 29, 623 9 1, 47 Charleston, W. Va. 60, 408 12 1, 99 Petersburg, Va. 28, 564 14 2, 06 Charlotte, N. C. 82, 675 19 3, 37 Portsmouth, Va. 45, 704 8 1, 46 Columbia, S. C. 51, 581 12 1, 99 Raleigh, N. C. 37, 379 14 2, 21 Durham, N. C. 52, 637 12 2, 63 St. Petersburg, Fla. 40, 425 12 1, 94 Greensboro, N. C. 53, 569 9 1, 58 Spartanburg, S. C. 28, 723 16 2, 58		893, 634	14	2.29	High Point, N. C	36, 745	10	1 61
Asheville, N. C. 50, 193 13 2, 25 Newport News, Va. 34, 417 12 2, 25 Orlando, Fla. 27, 330 14 2, 16 2, 36 Orlando, Fla. 27, 330 14 2, 16 2, 36 Orlando, Fla. 27, 330 14 2, 16 2, 36 Orlando, Fla. 29, 623 9 1, 47 Orlando, Fla. 29, 623 19 1, 47 Orlando, F								2, 94
Augusta, Ga. 60, 342 16 2. 36 Orlando, Fla. 27, 330 14 2. 16 Charleston, S. C. 62, 265 15 2. 21 Parkersburg, W. Va. 29, 623 9 1. 44 Charleston, W. Va. 60, 408 12 1. 99 Petersburg, Va. 28, 564 14 2. 06 Charlotte, N. C. 82, 675 19 3. 37 Portsmouth, Va. 45, 704 8 1. 46 Columbia. S. C. 51, 581 12 1. 99 Raleigh, N. C. 37, 379 14 2. 21 Durham, N. C. 52, 637 12 2. 03 St. Petersburg, Fla. 40, 425 12 1. 94 Greensboro, N. C. 53, 569 9 1. 58 Spartanburg, S. C. 28, 723 16 2. 58	Asheville, N. C	50, 193			Newport News, Va	34, 417	12	2 29
Charleston W Va. 60, 408 12 1.99 Petersburg Va. 28, 564 14 2.06 Charlotte, N. C. 82, 675 19 3.37 Portsmouth, Va. 45, 704 8 1, 46 Columbia, S. C. 51, 581 12 1.99 Raleigh, N. C. 37, 379 14 2.21 Durham, N. C. 52, 637 12 2.03 8t. Petersburg, Fla. 40, 425 12 1.94 Greensboro, N. C. 53, 569 9 1.58 Spartanburg, S. C. 28, 723 16 2.58	Augusta, Ga	60, 342			Orlando, Fla	27, 330	14	2. 16
Charlotte, N. C. 82,675 19 3.37 Portsmouth, Va. 45,704 8 1,46 Columbia. S. C. 51,581 12 1.99 Raleigh, N. C. 37,379 14 2.21 Durham, N. C. 52,037 12 2.03 St. Petersburg, Fla. 40,425 12 1.94 Greensboro, N. C. 53,569 9 1.58 Spartanburg, S. C. 28,723 16 2.57	Charleston, S. C	62, 265			Parkersburg, W. Va	29, 623	9	1.45
Columbia S. C. 51,581 12 1,99 Raleigh, N. C. 37,379 14 2,21 Durham, N. C. 52,037 12 2.03 St. Petersburg, Fla. 40,425 12 1,99 Greensboro, N. C. 53,569 9 1.58 Spartanburg, S. C. 28,723 16 2.54	Charleston, W. Va.	60, 408						2.00
Durham, N. C. 52,037 12 2.03 St. Petersburg, Fla. 40,425 12 1.94 Greensboro, N. C. 53,569 9 1.58 Spartanburg, S. C. 28,723 16 2.54	Charlotte, N. C	82.675			Portsmouth, Va	45. 704		1.46
Greensboro, N. C	Columbia, S. C	51, 581			Raleigh, N. C	37, 379		
Greensboro, N. C	Durham, N. C.	52, 037			St. Petersburg, Fla	40, 425		
	Greensboro, N. C.	53, 569			spartanourg, S. C.	28.723		
Huntington, w. va 75,572 12 2.00 Wilmington, N. C 32, 270 19 2.87	Huntington, W. Va	75, 572	12	2.00	Wilmington, N. C	32, 270	19	2.87

Includes all South Atlantic cities of 25.000 or more except Pensacola, Fla. (31,579), and West Palm Beach, Fla. (26,610), for which data were not available.
 Based on United States census of population for 1930.
 Data for Hagerstown not included in calculation.
 Small full-time staff, supplemented by volunteers. Full-time staff included in this study.

Table B.—Distribution of salaries and employees in fire departments of each of 39

July 1,

		,	Grot	ıp I citi	es (po	pulation	of 10	0,000 or	over)	
		Total	Del	aware		rict of umbia		Flo	rida	
	Division and occupation	num- ber of em- ploy-		ming- on		shing- on		kson- ille	М	iami
		ees	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate
1	All occupations	² 3, 903	157		886		195		167	
2 3 4	Fire fighting: Chiefs Assistant or deputy chiefs Assistant deputy chiefs	9 12 6	1 2	\$3, 600 2, 725	1 2 1	\$8,000 5,000 4,500	$\left\{ egin{array}{c} 1 \\ 1 \\ 1 \\ 2 \end{array} \right.$	\$5, 040 3, 875 2, 992 3, 087	<u></u>	\$4, 000
5	Battalion or district chiefs	56			14	4, 500			6	2, 520
6 7	CaptainsLieutenants	297 243	14 11	2, 400 2, 165	47	3, 000 2, 840	18 18			2, 280 2, 100
8 9 10	Sergeants Pilots First mates	49 3 11			49 2	2, 600 2, 600	<u>i</u> 1	2, 961 2, 677	- -	
11 12	Engineers, fire-engine Engineers, assistant fire-engine	213 60	10 	1, 825		2, 460	24 1	2, 299 2, 647	1	1, 980
13 14	Engineers, marine Drivers	24 55	4	1, 815	$\left\{egin{array}{c} 2 \\ 2 \end{array}\right.$	2, 600	1 18	2, 709 2, 299	}	
15 16 17	Privates— 1st grade 2d grade	2, 216 163	105		539 16 17	2, 400 2, 300 2, 200	21 33	2, 268 2, 172 2, 079	11	1,620
18 19	3d grade 4th grade 5th grade	107 53 60			27 48	2, 100 2, 000	26 10			
20 21	6th grade 7th grade Miscellaneous:	26			26 	1, 900				
22 23	Deckhands Drillmasters	4					$\left\{\begin{array}{c}1\\3\\1\end{array}\right.$	2, 173 2, 268 2, 520	}	
24 25	Pipemen Stokers	2 18			2	2, 100	2	2, 551		
26 27 28	Tillermen Physicians Helpers		3 1	1, 815	<u>-</u>		3 1	2, 205 600		
29 30	Fire prevention: Marshals or wardens Assistant marshals	6 3	1 1	2, 725 2, 165	1	5, 000 3, 000	1	2, 615		
31 32 33	Chief inspectors Inspectors Fire investigators	3 24	5	1, 815	7	2, 460	$\left\{egin{array}{c} 1 \ 1 \ 1 \end{array} ight.$	2, 520 2, 173 2, 268	'	

South Atlantic Division cities with population of 25,000 or over, 1 by occupations, 1938

	9 Gro	up I c	eities (1	oopula	ation of	f 100,0	00 or o	ver)		14	Grou 50,0	ip II c 000 and	ties und	(populer 100,0	ation 000)	of	
	ida on.	Geo	orgia	M: la	ary- nd		Virg	inia					Ge	orgia			
Tar	тра	Atl	anta	Balt	imore	No	rfolk		ich- ond	Total num- ber of em-	Au	gusta	М	acon	Sava	annah	
No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	ploy- ees	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	
93		329		1, 468		248		360		1, 238	96		77		134		1
1 1 1	\$4, 200 3, 000 2, 580	1	1 1	4	\$5, 600 4, 000	1	\$3, 600	1 1	\$3, 500 2, 800	14 18	$\frac{1}{2}$	\$2, 460 1, 860	1 1	\$2,500 2,280	1	\$3, 300	3
	2,000	4	2, 688	İ	3, 000	4	2, 436	4	2, 424	6					$\left\{\begin{array}{c}1\\1\\1\\1\end{array}\right.$	1, 890 1, 998 2, 100),
12 8		42 18	2, 373 2, 352	96 95	2, 100 1, 975	34	2,056	25 25	1, 920 1, 860	141 91	12 8 	1, 530 1, 480	8	1, 800 1, 680	10	1,620	1
		64	2, 226	10 56 60 f 14	2,050 1,900	22	1, 860	36	1, 800	60 26					9		16
25	1, 764	8	2, 352	1 4						114			22	1, 680			1:
7 21 5 8 1	1,620 1,524	9 10 6	2,000 1,900 1,800	53 34		4	1,616	16 10		36	5 1	1,380		1,620	34 13 11 11 11 2 4	1, 404 1, 350 1, 296 1, 242	16 17 18 19 20
		1	2, 352	1						1			1	1, 800			25 25 24
		8	2, 226	\ 15	1, 600 1, 800	}											20 20 20
1	2, 100	1 1	2, 352 2, 352 2, 352	1	3, 000					1				1 000			2: 3: 3: 3:
}] 1	1 '	4	2, 100	1	2, 056	4	1, 620			1, 440) 1		1	1, 458	1 .

Table **B.**—Distribution of salaries and employees in fire departments of each of 39 July 1,

			9 Gro	ıp I citi	ies (po	pulatio	n of 10	00,000 or	over)
			Del	aware		riet of ımbia		Flo	rida	
	Division and occupation	Total num- ber of em- ploy-		ming-		shing- on		kson- ille	М	iami
ĺ		ees	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate
	Apparatus:	6			1	# 000	1	0.700		
34	Superintendents of machinery Assistant superintendents of machin-	l°			1	5,000	1	2,709		
35	ery	5			. 1	3,000	1	2, 520		
36	Machinists	16			{ 3	2,371	}	·		
~			_		1	2, 454 1, 664	K			
37	Auto mechanics	9	2	1,815	$\left\{egin{array}{c} 1 \ 2 \end{array}\right.$	2, 371	}			
38	General mechanics: Blacksmiths	3	l			·			1	1, 980
i		3							ı	1, 980
39 40	Carpenters	Ι i							i	1,980
41	Molders	l ī			ĩ	2,080			<u>-</u>	1,000
42	Painters	1			1	2,080				
43	Plumbers									-
44	Engineers, high-pressure	2		}		}	{ 1	2, 646 2, 709	}	
4 5	Hydrant inspectors	1						2, 109		
46	Superintendents	7	1	2,500	1	3, 200	h		f	\
47	Assistant superintendents	6		ļ .	1	2,600	ll .	}		
	Chief fire-alarm operators				1	1, 920		1		
48	Oniei ine-alarm operators	1 1			l *	1, 440	li .			
49	Operators, fire-alarm]			611	to 1,860			6	1,980
50	Operators, telephone	3			_ī	2,000	II .	1		
51 52	Electricians	3			l ¹	2,000	II .	l	₁	1. 980
53	Linemen	20					(4)	·	K	1, 300
54	Linemen's helpers Miscellaneous:	10								
55	Battery testers				1	1,320	H			
56	Box testers	1			1	1, 440	[]	1		
57 58	Repairmen		l		7 3	1,440 to				
	_]	1 -	1,860				
59	Assistant repairmenClerical:	1	1		1	1, 320	[\	-
60	Secretaries	3			li i	1,620	1	2, 929		
61	Clerks	9			Ki		}		$\left\{\begin{array}{c} 1\\1\end{array}\right.$	1, 200 1, 500
62	Stenographers	l 4	1	1	l` î		ľ		, ·	1,000

South Atlantic Division cities with population of 25,000 or over, 1 by occupations, 1938—Continued

	9 Gro	up I c	ities (p	opula	tion of	100,0	00 or o	ver)		14	Grot 50,0	ip II c 00 and	ities und	(popul er 100,	ation 000)	of	
Flor	ida— on.	Geo	orgia	Ma la	ary- nd		Virg	inia		(T) = 4 o)			Ge	orgia			
Ta	mpa	Atl	anta	Balr	imore	No	rfolk		ich- ond	Total num- ber of em-	Qu	gusta	М	acon	Sav	annah	
No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	ploy- ees	No.	Sala- ry rate	No.	Sala- ry rate	No.	Sala- ry rate	
		1	2, 625 2, 226	1	3,000 2,600	1	2, 436 2, 056	1	2, 280	5	1	2, 160			1	1,890 1,782	34 35
1	2, 100	2		$\left\{ egin{array}{c} 1 \ 5 \ 6 \end{array} ight.$	1, 900 2, 050	n		1	1, 950 1, 680	3	1	1, 740					36 37
				$\begin{cases} 1\\ 1 \end{cases}$	1, 900 2, 050	}							(5)		\\\		38
		2	2, 220							1	1	1, 480 1, 480					39 40 41 42 43
			2, 100														44 45
1	2, 100	i	2, 625	1		h.	1 '	1	1 '	1							46 47 48
		6	2, 352	{ 7	1,800 2,400	} 3	1, 444	$\left\{\begin{array}{c} 3\\3\end{array}\right.$	1, 680 1, 920	13		1, 440					49 50
		1	2, 373	11 10		2		5		.1 8			(5)		(5)		51 52 53 54
				i	2, 008											!	55 56 57
																	58 59
(4)		\ 	1,500) {	3, 300 1, 800 2, 100 1, 800		1, 224 1, 518	} 1	2,000		ł	1,860	(4)			1,500	60 61 62

Table B.—Distribution of salaries and employees in fire departments of each of July 1,

į							14 gr	oup :	II cities	(pop	ulatio
					N	orth	Carolin	1a	<u>-</u>		
	Division and occupation	As	hville	Ch	arlotte	Dτ	ırham		reens- ooro		inston- alem
		No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate
1	All occupations	65		156		65		47		80	
- 1	Fire fighting:		- 			_				==	
2 3	Chiefs Assistant or deputy chiefs Assistant deputy chiefs	1	2,400			1		1 2			\$3, 00 2, 40
5	Battalion or district chiefs										
6	Assistant deputy chiefs Battalion or district chiefs Captains	8	1, 920			3	1, 800		1, 980	6	1, 98
7	Lieutenants Engineers, fire engine	8	1, 800	10 24		6	1, 680	8	-,		1,8
2	Engineers, assistant fire engine.			24	1,740			~			
4	Drivers			4	1, 740	$\begin{cases} 7\\7 \end{cases}$	1, 665 1, 680	}			
_	Privates—			- 00							١
5	Ist grade Ist grade 2nd grade 3rd grade 4th grade 5th grade 6th grade 7th grade 8th grade 8th grade	35	1,680	90	1,740	23	1,620	27	1, 680	61	1,6
7	3rd grade	٠ ا	1, 312	3	1,000	1 2	1, 500				
8	4th grade					10	1, 242				
9	5th grade									1 2	1, 2
0	oth grade										
2	8th grade										
	Miscellaneous:					1					
8	Drillmasters										
۱°	Helpers Fire prevention:		1								
9	Marshals or wardens	(i		(1	1,920	1		1		h l	1
1	Marshals or wardens Chief inspectors Inspectors	(+)		 {		(4)		K		(4)	
2	Apparatus:	ľ		(J		l		יין	
4 5	Superintendents of machinery Assistant superintendents of ma-	ı		1		(1	1, 980		
	chinery			11	1						
6	Machinists	2	1, 920)- _i	1. 680				
7	Auto mechanics			(4)		(i	1, 680 1, 800	}		1	1, 9
	General mechanics:)	11		11 -					1
2	Painters Plumbers]]							-
3 4	Assistant mechanics		- -	IJ		[
*				ľ							
6	Fire alarm: Superintendents Aissistant superintendents Operators, fire alarm	1	1, 920	1	1, 920				1, 980		
7 9	Assistant superintendents				1 740	<u>î</u>	1 600			tl I	
0	Operators, fire alarm Operators, telephone				1, 740		1,000				
•				l .						ן ליין ן	
2	Electricians										
3	Linemen	1	1, 680	3	1, 740	1	1, 665			<i> </i>	
-	Clerical:	l	,				_,				
0 [Secretaries	1	900	}(4)	l	(4)		[1]	1, 980	} ₍₄₎	

39 South Atlantic Division cities with population of 25,000 or over, $^{\rm 1}$ by occupations, 1938—Continued

	outh C	orolin		Vir	ginia		w	Toet '	Virgini					Flo	rida	
				- VII.						<u></u> -		Total num-			 I	
Char	leston	Colu	mbia	Roa	noke	Chai	rleston	Hu	nting- ion	Wh	eeling	ber of em-	Or	lando 		Peters- ourg
No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal ary rate	No.	Sal- ary rate	ploy- ees	No.	Sal- ary rate	No.	Sal- ary rate
93		63		119		73		87		83		² 677	38		50	
1 1 1	2, 340	1 1 1 1 5	\$2, 760 2, 040 1, 980	1 2	\$3, 392 2, 479	1	\$3, 000 1, 900	1	\$2, 400 1, 980	1 2	\$2,600 1,914	15 13 2 4		\$2, 400 1, 800	1	\$2, 700 2, 040
1 2 9 9	1,790 1,592 1,501	1 5 10	1,920 1,740	11 9	1, 800 1, 740 1, 740	13	1, 770	16 5			1, 782	4 68 56 67	6	1, 620	6 4	
8 8 3 3	1, 429 1, 408 1, 429	} 2	1, 620	9	1, 680	18	1, 575	22	1, 680	26	1, 716	13				
43	1, 376	27 5			1, 620	37	1, 575	30 2			1, 650	327 32 10	29	1, 500	27 4 1	1,380
									 			8 15 3				
												2				
								8	1,740							
1 2	1, 592 1, 376	}(*)		(4)		{		i	1, 800	î	1, 782	5	····· (1)		}(4)	-
1	1,900			1	1,980							,2				
																1, 716
	·}	1	1,980			1	1,800	1	1,920	1	1,888	7	1	1,740		
								8 1	600							
		$\begin{pmatrix} 1\\ 1\\ 3 \end{pmatrix}$		1	1, 620		1, 800]		Ш		5			1	
(9)			1, 200 1, 500 1, 560	l}	1, 680					(*)		1	(9)		 	
		(<u>)</u>		1	1, 620	1	1,950			1		1) (1)		۱	1, 200

Table B.—Distribution of salaries and employees in fire departments of each by occupations,

											9 000	wp w	
	16 Group III cities (population of 25,000 and under 50,000)												
		Ge	orgia		Mary	land		North Carolina					
ļ	Division and occupation	Colu	ımbus	Cumber- land		Hagers- town		High Point		Raleigh			ming- on
		No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate
1	All ocupations	61		34		10 14		35		53		62	
2 3 4	Fire fighting: Chiefs Assistant or deputy chiefs Assistant deputy chiefs	1	\$3, 300	1 1	\$2, 100 1, 800	l		[1	\$2, 820 1, 920	1	\$2,700 1,860 1,800		\$2, 400
5 6	Battalion or district chiefs Captains		1, 980		1,740				1,740	6	1, 620	11	1, 660 1, 740 1, 600
7	Lieutenants	6	1,740		1,740				1,680	6	1, 560	4	1, 560
11	Engineers, fire engine	lĭ š	1,560 1,620	}				1		1	1, 800		1, 440
14	Privates—	l	1 ′	l	i	1		1				6	1, 440
15 16	1st grade	9	1,548	22	1, 740 1, 200			19	1,620	34	1,500 1,440	20	1, 44
17	1st grade 2d grade 3d grade 4th grade	3	1,500		1, 200				1, 200		1, 410		
18	4th grade	4	1, 476										
19	5th grade 6th grade		1 400										
20 21	6th grade 7th grade 8th grade	1 3	1,428	1									
22	8th grade	2	1, 380										
23	Miscellaneous: Drillmasters	ł	,	ł		1 '							
23					l .	1						- -	
29	Marshals or wardens	100		5				(4)	\				
32	Marshals or wardensInspectors	369		1	1,740			.				1	1, 60
0.4	A DDAFALIS:	1	1			1)	1		1			1
34 35	Superintendents of machinery Assistant superintendents of												
	machinery				.l			.					
37	Auto mechanics	1	1,980	(4)				1	1,920			1	1, 20
46	Superintendents	. 1	1, 920	oh –				1 1	1,740	oh –	1	1 1	1.80
49	Superintendents Operators, fire-alarm	. 8	4 7 46	. I S	1	. (%)	ì	J		.llon	1	J	
52	Electricians Linemen	\ <u>-</u>		110		10		` <u>]</u>	·	160		· }	
53				עוי		1		\		٠μ	1	l	
60	Secretaries	ha	1	1)	1	i			İ	1	1	
61	Clerks	}}(*)			-	-		-		·	-	. (4)	
		ľ	1	1	ı	1	1		1	Į	Į	l	l

Based on United States census of population for 1930.
 Totals include only the regular, full-time employees. Totals do not include part-time employees, call men, or volunteers.
 Call men.

³ Call men.

4 Men from uniformed force assigned to this work.

5 Work performed by a separate city bureau.

5 Includes 5 at \$1,440, 4 at \$1,800, and 2 at \$1,860.

7 Includes 1 at \$1,440, 1 at \$1,880, and 1 at \$1,860.

8 Part-time employee.

Work performed by a separate city bureau or private company.

10 Volunteer fire department, except for 14 paid engineers.

of 39 South Atlantic Division cities with population of 25,000 or over, 1 July 1, 1938—Continued

<u></u>	16 Group III cities (population of 25,000 and under 50,000)—Continued														=	
South Carolina Virginia West Virginia																
South Carolina					Virginia West Virginia						West Virginia					
Gree	nville	Spar b	rtans- urg	Lyne	hburg	Ne N	wport ews	Petersburg Ports-mouth				arks- urg	Parkers- burg			
No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	No.	Sal- ary rate	
41		45		70		43		40		38		27		26		1
1 1 1	\$2, 520 1, 890 1, 770	2	\$2, 280 1, 860	1 1	\$2, 700 2, 100	1 1	\$3,000 2,400	1 1	\$2, 500 1, 800	1	\$2, 2 05	1 2	\$2,000 1,680	1	\$2, 100	2 3 4
}		2 8			1, 980	11	1, 980	2	1, 500	7	1, 809	2	1, 500			5
5	1, 620			7	1,890		-	$\left\{egin{array}{c} 2 \ 3 \ 3 \ 6 \end{array} ight.$	1, 380 1, 440	∑				ı	1,740	ì
8	1,500	2	1, 560		-	ı		$\left\{ \begin{array}{c} 3 \\ 6 \\ 1 \end{array} \right.$	1,440 1,500 1,380	ه زا	1,744					11 14
21 1	1, 440 1, 200		1, 560	14	1,710	23 6	1, 740 1, 680	16 2 1	1, 380 1, 236 1, 080		1, 704	22	1, 500		1, 620	15 16 17
				5 3 15	1,560 1,530	1	1, 560									18 19
				2	1, 170											20 21 22
1	1, 680		 					 		1	1, 809					23
	-	} (4)		(4)		(4)	-	(4)		{	1,809	(4)		2	1, 620	29 32
1	1,770					(4)		}		1	1, 809	(9)		<u> </u>		34 35
					1,830	11		(4)				`		1	1, 620	37
		0		(9)		(9)		{	960	(9)				1	1, 620	46 49 52 53
{1	1, 740			1	1, 200	(4)		} (4)		{ 						60 61

Table C.—Average hours and days on duty per week in fire departments of 39 South Atlantic Division cities, by functional divisions, July 1, 1938

			Numb	er of em	ployees	working	under	specified	lsystem	ıs in —		
System of operation	Aver- age hours on	Aver- age days on		All divisions					Fire-fighting division			
ZJESS CI SPERMING	duty per week	duty per week	All	City group 1			All	City group 1				
			cities	1	II	Ш	cities	I	thting ion y group II 1.166 43 1,031 596 258 208 80	III		
All systems			25, 818	3, 903	1, 238	677	5, 511	3, 699	1, 166	646		
Continuous duty	168	7.0	32	11	9	12	32	3 11	49	⁵ 12		
Single platoon 6. On 2 days, off 1 day. On 3 days, off 1 day. On 4 days, off 1 day. 2-platoon—regular 7. On 24 hours, off 24 hours. Shift third day.	126 134 84 84	4. 7 5. 3 5. 6	175 55 40 80 4,413 1,757 146	2, 853 1, 003 146	46 46 1,043 506	129 55 40 34 517 248	168 54 39 75 4, 383 1, 742 146	2, 844 994 146	43	125 54 39 32 508 242		
Shift fourth day Shift fifth day Shift seventh day Shift each week	84 84 84 84	6. 1 6. 3 6. 5 7. 0	1, 450 63 637 360	306	63 258 216	73 144	1, 450 59 636 350	306	258	52 72 142		
2-platoon—with additional time off duty ⁸ . Shift seventh day, off 1	72	5, 5	920	840 840	80	 	920	840	80			
day per week On 24 hours, off 24 hours— off 0.2 day per week	81	3.4	840 80	840	80		840 80	840	80			
Other 9	52	6, 0	278	199	60	19	8	4	3	1		

Table C.—Average hours and days on duty per week in fire departments of 39 South Atlantic Division cities, by functional divisions, July 1, 1938—Continued.

	Number of employees working under specified systems in—															
System of operation	Fire-prevention division				Apparatus division				Fire-alarm division				Clerical division			
2,200 <u> </u>	All	City group 1		All		ity group 1		All	City group 1			All	Citygroup		upt	
	cities	I	п	ш	cities	1	II	III	cities	I	II III		cities	I	11	ш
All systems	54	37	12	5	_76	48	18	10	150	103	34	13	27	16	8	3
Continuous duty																
Single platoon 6 On 2 days, off 1 day On 3 days, off 1 day On 4 days, off 1 day					2		1 1	1 1	1 1 2		1 1	3 1 1 1	1 1		1 1	
2-platoon—regular 7	4	3		2 1	13 8	4 4	4	5 4	11 3 2	2 2	8	1 1 	1			1
Shift fifth day Shift seventh day Shift each week	1			1 	3		2	<u>1</u>	6		6-		1			ī
2-platoon—with additional time off duty ⁸ Shift seventh day, off 1 day per week On 24 hours, off 24 hours— off 0.2 day per week.								 								
Other 9	49	34	12	3	61	44	13	4	135	101	25	9	25	16	7	2

¹ Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000; and Group III, cities having a population of 25,000 and under 50,000, based on United States census of population for 1930.
² Includes only regular full-time employees.
³ Includes 6 chiefs and 5 assistant chiefs.
⁴ Includes 8 chiefs and 1 assistant chief.
⁵ The average number of hours on duty per week for employees in each variation of the single-platoon system is arrived at by dividing the total number of hours on duty per year for each variation by 52,143.
¹ Under each variation of the regular 2-platoon system the employees work in 2 groups, 1 group is on duty while the other is off duty. Over a period of days, therefore, each group is on duty as many hours as the other. or 12 hours a day and \$4\$ hours a week. Each variation of the 2-platoon system, however, spreadsthese \$4\$ hours into different numbers of days on duty per week. The average number of days on duty per week for each variation is arrived at by dividing the number of days on duty per week than an average of \$4\$ hours per week. The average number of days on duty per week for each variation is arrived at by dividing the number of days on duty per week under this system is arrived at by deducting the number of adys on duty per week is arrived at by dividing the number of days on duty per week under this system is arrived at by deducting the number of days on duty per week is arrived at by dividing the number of days on duty per year by 52,143.
¹ The average number of working hours and days per week is arrived at by dividing the total number of weekly man-hours, and man-days by the total number of employees under "other."

Table D.—Total saturies and total number of employees of fire departments in 39
South Atlantic cities, July 1, 1938

	Total 1	number	of emp	loyees	Total salaries						
Division and occupation 1	All	Cit	y grou	p 2	All	(Dity group 2				
	cities	I	11	ш	cities	I	Alaries Dity group 2 11 Dollars 2,044,433 1,921,346 41,122 39,846 3,880 154,169	III			
All occupations	³ 5, 818	3, 903	1, 238	677	Dollars 11, 103, 610	Dollars 7, 965, 844		Dollars 1, 093, 333			
Fire fighting	5, 511	3, 699	1, 166	646	10, 507, 284	7, 541, 329	1, 921, 346	1, 044, 609			
Chiefs Assistant or deputy chiefs Assistant deputy chiefs Battalion chiefs Captains Lieutenants Sergeants Pilots First mates Engineers, fire engine 4 Engineers, marine Drivers Privates, all grades 1st grade 2d grade 3d grade 4th grade 5th grade and below	38 43 10 66 506 390 49 3 11 426 24 182 3,721 3,143 231	9 12 6 56 297 243 49 3 11 273 24 55 2, 625 2, 216 163 107	14 18 2 6 141 91 86 114 690 600 36 14	15 13 2 4 68 56 	121, 387 108, 727 26, 384 198, 920 1, 055, 929 782, 429 127, 400 8, 161 21, 677 793, 974 50, 336 6, 807, 532 5, 804, 836 402, 540 228, 194	42, 540 44, 191 18, 934 180, 312 683, 650 535, 590 8, 161 21, 677 552, 390 50, 336 111, 558 5, 090, 621 4, 327, 403 300, 852 194, 234	39, 846 3, 880 11, 488 251, 580 154, 169 140, 044 189, 012 1, 083, 185 963, 185 51, 696 18, 870	37, 725 24, 690 3, 570 7, 120 120, 699 92, 670 101, 540 19, 380 633, 726 514, 248 49, 992 15, 090			
5th grade and below Miscellaneous	82 134 42	53 86 36	21 19 4	8 29 2	141, 550 230, 412 84, 478	102, 640 165, 492 73, 969	22, 758	12, 234 42, 162 3, 489			
Fire prevention	54	37	12	5	112, 186	84, 657	19, 140	8, 389			
Marshals or wardens	7	6	1		19, 712	17, 792	1, 920				
ens. Chief inspectors. Inspectors. Miscellaneous.	3 5 38 1	3 3 24 1	2 9	5	7, 517 10, 616 71, 989 2, 352	7, 517 7, 224 49, 772 2, 352	3, 392 13, 828	8, 389			
Apparatus	76	48	18	10	158, 355	107, 720	33, 220	17, 415			
Superintendents of machinery Assistant superintendents of machinery Machinists Auto mechanics General mechanics Miscellaneous	13 7 19 23 11 3	6 5 16 9 9	5 1 3 7 2	2 1 7	31, 539 15, 900 38, 897 43, 124 21, 450 7, 445	18, 050 12, 402 33, 317 18, 016 18, 490 7, 445	1, 782 5, 580 12, 988	3, 579 1, 716 12, 120			
Fire alarm	149	103	33	13	277, 188	202, 047	56, 361	18, 780			
Superintendents Assistant superintendents Chief fire alarm operators Operators, fire alarm 5 Inspectors Electricians Linemen Helpers, linemen's Miscellaneous	19 8 1 68 3 7 26 10 7	7 6 1 46 3 3 20 10 7	7 2 16 3 5	6 1 1	41, 913 18, 481 1, 920 121, 968 6, 413 11, 580 49, 245 14, 600 11, 068	19, 689 15, 013 1, 920 88, 644 6, 413 5, 700 39, 000 14, 600 11, 068	14, 088 3, 468 25, 980 4, 260 8, 565	8, 136 7, 344 1, 620 1, 680			
Clerical	28	16	9	3	48, 597	30, 091	14, 366	4, 140			
SecretariesClerks and bookkeepers Stenographers and typists	12 12 4	3 9 4	7 2	2 1	22, 279 18, 918 7, 400	7, 729 14, 962 7, 400	2, 756	2, 940 1, 200			

¹ All fire departments assign men from the fire-fighting division to the other divisions and carry these assigned men on the fire-fighting division list. This is done to provide the fire department with a reserve for cases of emergency. As a result of this method of assignment, the fire-fighting division is always shown to be larger than it actually is on a routine day. Some other factors are also responsible for the small size of the non-fire-fighting divisions. In some cities, the maintenance work is let to private contractors; part of the fire-prevention work is done by the building inspector's office; and the fire-alarm work is done by the local telephone company or by a separate city bureau.

2 Group I includes cities having a population of 100,000 or more; Group II, cities having a population of 50,000 and under 100,000; and Group III, cities having a population of 25,000 and under 50,000. Based on United States census of population for 1930.

3 Includes conly regular, full-time employees.

4 Includes 60 assistant engineers in City Group I and 26 in City Group II. The rest are senior engineers.

5 Includes 3 telephone operators in City Group II.