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DURATION AND COST OF FEDERAL COMPENSATION CASES WITH DISEASE AS A COMPLICATING FACTOR¹

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INTRODUCTION

Of interest particularly to legislators, employers, physicians, and to students of labor, sociology, and public health is the amount of compensation paid by States and the Federal Government to employees for injuries connected with occupational diseases. This interest exists at the present time, primarily, because of the fact that sooner or later many State governments will be confronted by the controversial question of whether they shall adopt a system of "schedule coverage" or "blanket coverage" with respect to occupational diseases. In general, schedule coverage provides for the compensation of certain diseases listed in a schedule, while blanket coverage, as the expression implies, provides compensation for all injuries caused by disease. In connection with coverage, the definition of "injury" as set down in the Workmen's Compensation Act of Wisconsin (1), a blanket coverage State for almost 20 years, is "Injury," the act reads, "is mental or physical harm to pertinent. an employee caused by accident or disease."

Workmen's compensation acts as originally adopted by the various States concerned themselves primarily with accidents and made little or no provision for occupational diseases. At the time of the writing of these acts it was known that, in a number of employments, disabilities and deaths resulted not only from accidents but also from diseases associated with certain occupations. A situation has developed in which the workmen's compensation laws of the different States are not uniform and vary greatly in the provisions which they contain. Thus in a few States all occupational diseases come under workmen's compensation laws, in other States only certain specified diseases, and in the greater number of States no diseases at all.

Eight States now have blanket coverage. These States are California, Connecticut, Illinois, Massachusetts, Missouri, New York, North Dakota, and Wisconsin. Blanket coverage for diseases is also provided by three Federal laws originally passed in 1916, 1927, and 1928, respectively, and administered by the United States Employees'

¹ From the Office of Industrial Hygiene and Sanitation, U. S. Public Health Service.

Compensation Commission. These laws deal with compensation for, first, civil employees of the United States who suffer personal injury while in the performance of official duty; second, disability or death resulting from injury to certain employees in maritime employment upon the navigable waters of the United States; and, third, disability or death resulting from injury to employees in certain employments within the District of Columbia. With respect to the interpretation of *injury*, the United States Employees' Compensation Commission early took the view that the term covers not only accidents as ordinarily defined, but also any bodily injury or disease due to the performance of duties and causing incapacity for work (2). This interpretation was formally accepted in 1924 in an amendment to the act (3).

With the aid of basic data made available by the United States Employees' Compensation Commission, this paper will present analyses, principally, of the duration and cost of cases in which disease is a complicating factor. These cases occurring among civil employees and therefore coming under the Compensation Act of 1916, involve long-continued or permanent disability (both partial and total) and were incomplete on December 31, 1935, that is, compensation was still being paid on that date.

With regard to the population exposed or the number of civil employees within the scope of the Compensation Act of 1916, it was estimated by the Commission that the number for a period of approximately 15 years prior to 1933 did not exceed 700,000. "The number since 1933 has materially increased, and the Commission believes that at the present time it is probably between 900,000 and 1,000,000. It is impracticable to obtain definite information in this respect because of the difficulty of determining the proper classification of the employees in all emergency employments" (4).

ANALYSIS OF DATA

Year in which injury occurred.—A total of 1,337 incomplete cases in which disease is a complicating factor is available for study. These cases of different degrees of severity are classified according to the year of occurrence of injury in table 1. The partially disabled cases include 953, or 71 percent of the total, while those totally disabled include 384, or 29 percent. Considering all cases, regardless of whether the disability is partial or total, the table shows that almost 25 percent were being compensated on December 31, 1935, on account of injuries that occurred 15 or more years ago, almost 50 percent for injuries that occurred 10 or more years ago. If only the partially disabled cases are considered, over 25 percent were being compensated for injuries that occurred 14 or more years ago, almost 50 percent for injuries that occurred 9 or more years ago, and over 75 percent for injuries that occurred 5 or more years ago; for the corresponding percents of the totally disabled group, the years read, 15 or more, 12 or more, and 7 or more, respectively. Approximately one-half of the totally disabled cases and one-third of the partially disabled ones, respectively, were being compensated for injuries that occurred 12 or more years ago."

	Number of		All cases			Partial disability			Total disability		
Year of injury	years elapsing since year of injury	Num- ber	Per- cent	Cumu- lative percent	Num- ber	Per- cent	Cumu- lative percent	Num- ber	Per- cent	Cumu- lative percent	
Total		1, 337	100. 0		9 53	100. 0		384	100. 0		
Before 1916 1916 1917 1918 1919 1920 1922 1922 1923 1924 1925 1925 1928 1928 1929 1929 1930 1931 1932 1933 1934 1935	17	5 29 74 96 89 77 65 55 55 75 75 76 68 80 110 89 91 77 71 89	$\begin{array}{c} 0.34\\ 2.52\\ 5.76\\ 6.89\\ 4.9\\ 6.88\\ 6.88\\ 6.88\\ 6.88\\ 6.88\\ 6.88\\ 2.9\\ 1\end{array}$	0.3 .77 2.98 8.4 16.6 222.0 32.9 37.0 32.9 37.0 53.2 53.2 55.3 55.3 55.3 55.3 55.3 55.3	0 3 18 51 62 54 54 54 54 52 44 52 48 88 84 68 69 67 62 36 2 36 2	0 .33 .53 .65 .54 .54 .50 .51 .50 .51 .50 .51 .50 .53 .50 .53 .50 .53 .50 .53 .50 .53 .50 .53 .50 .53 .50 .53 .53 .53 .53 .53 .53 .53 .53 .53 .53	0 .3 2.2 7.5 14.0 19.7 25.1 29.1 32.5 37.1 42.8 35.4 48.3 48.3 359.4 42.8 37.5 37.5 37.5 37.1 42.8 3 48.3 55 96.0 96.0 96.0	4 2 11 233 35 26 27 23 21 21 21 21 22 26 21 22 26 21 22 26 21 22 26 21 22 26 21 20 22 26 20 22 26 20 20 20 20 20 20 20 20 20 20 20 20 20	1.05 2.90 8.91 9.80 9.80 5.55 5.52 5.57 6.55 5.57 6.55 5.76 2.38 0	1.0 1.5 4.4 10.4 10.8 28.4 41.9 53.2 42.2 48.2 53.7 59.2 53.7 59.2 53.7 59.2 53.7 70.6 76.3 83.1 88.6 94.9 99.9 2 100.0 0	

 TABLE 1.—Distribution of incomplete cases in which disease is a complicating factor according to year of occurrence of injury, as of Dec. 31, 1935

Nature of injury.—The distribution of the incomplete cases according to the nature of the injury is given in table 2. Fractures, sprains and strains, and bruises, accounting, respectively, for 38, 16, and 12 percent of all the cases, are the most important of the injuries in this experience, the same order holding for the partially disabled as well as the totally disabled ones. The magnitudes of the corresponding percentages for sprains and strains and for bruises are similar for the two degrees of disability. The percentage for fractures, on the other hand, is approximately 50 percent greater in the group with partial disability.

Nature of injury	All	Cases	Partial d	lisability	Total disability		
	Number	Percent	Number	Percent	Number	Percent	
Total Fracture. Sprain, strain. Bruise, contusion, abrasion, blister Cut, laceration. Puncture. Burn, scald. Concussion. Amputation. Dislocation. Miscellaneous ¹	1, 337 507 207 162 74 56 28 28 28 28 17 14 244	100.0 37.9 15.6 12.1 5.5 4.2 2.1 2.1 2.1 1.3 1.0 18.8	953 398 155 113 70 42 17 12 16 13 117	100. 0 41. 7 16. 2 11. 9 7. 3 4. 4 1. 8 1. 3 1. 7 1. 4 12. 3	384 109 52 49 4 11 11 16 1 1 127	100. 0 28. 4 13. 5 12. 8 1. 0 3. 6 2. 9 4. 2 . 3 . 3 33. 0	

 TABLE 2.—Distribution of incomplete cases in which disease is a complicating factor according to nature of injury, as of Dec. 31, 1935

1 Includes 100 cases associated with tuberculosis (all forms), 23 with the eye, and 22 with general infections.

Anatomical location of injury.—In table 3 the cases are classified according to the anatomical location of the injury. Considering all cases, the percents confined to the trunk, lower extremities, head, and upper extremities are, respectively, 30, 28, 18, and 11. The percentages for the trunk and head are considerably greater for the totally disabled cases than the corresponding ones for the partially disabled; in the first instance the percentage is 50 percent greater, while in the second instance the figure is more than doubled. The percentages for both extremities are greater for the partially disabled, the lower extremities yielding a figure more than twice as large and the upper extremities yielding one three times as large. However, it is of interest to note that the trunk and lower extremities taken together represent more than one-half of the cases in each class of disability.

A motomical motom offected	All	C8.965	Partial d	lisability	Total disability		
Anatomical region affected	Number	Percent	Number	Percent	Number	Percent	
Total	1, 337	100. 0	953	100. 0	384	100. 0	
Trunk Lower extremities Head Upper extremities Hand Multiple regions Face and neck Miscellaneous	399 377 238 153 111 37 4 18	29.9 28.2 17.8 11.4 8.3 2.8 .8 1.3	249 819 128 135 103 10 2 7	26. 1 33. 5 13. 4 14. 2 10. 8 1. 1 . 2 . 7	150 58 110 18 8 27 2 11	39.1 15.1 28.6 4.7 2.1 7.0 .5 2.9	

 TABLE 3.—Distribution of incomplete cases in which disease is a complicating factor according to anatomical region affected, as of Dec. 31, 1935

Duration of cases and compensation paid according to complicating agent.—The Federal compensation law dealing with civil employees, unlike many other laws relating to the compensation of workmen, does not limit the payment of compensation for permanent partial disability to a scheduled period of weeks or the aggregate amount of compensation payable for either partial or total disability. In general, compensation for total disability is payable monthly during the period of disability and is equal to two-thirds of the employee's monthly pay. Compensation for partial disability is payable so long as the disability causes a loss in wage-earning capacity, the payable monthly compensation being equal to two-thirds of the difference between the employee's monthly pay and his monthly wage-earning capacity after the beginning of partial disability (5). The employee, then, is compensated in part for economic loss and not for physical impairment. A case, however, may be reopened if it later involves loss in earning capacity (6).²

Each of the 1,337 cases was designated by the Commission as being in one of 7 principal categories. The number of the cases and the corresponding percent associated with each category have been calculated with results as shown in the following tabulation:

	Number	Percent
Total	1, 337	100. 0
Diseases resulting from accidental injuries	825	61. 8
Diseases activated or aggravated by accidental injuries	293	21. 9
Infectious diseases	75	5.6
Hernias	68	5.1
Fatigue, strain, posture, lighting	30	2. 2
Temperature, moisture, air pressure	30	2. 2
Dusts, gases, chemicals	16	1. 2

The tabulation shows that a relatively low percentage of the total number of cases of the present experience involves what may be designated occupational diseases. This particular percent is 11.2^{3} and includes infectious diseases and cases associated with fatigue, strain, posture, and lighting; temperature, moisture, and air pressure; and dusts, gases, and chemicals. Cases resulting from accidental injuries and activated or aggravated by accidental injuries include 83.7 percent of the total. Following the suggestion of various industrial hygienists (7) the hernias are kept separate and the tabulation shows that they accounted for 5.1 percent of all cases.⁴ Many of the diseases, for example, tuberculosis, arthritis, and psychosis, were necessarily included by the Commission in more than one of the seven categories. These diseases have been, respectively, combined for present purposes.

Table 4 shows the duration of the cases and the compensation paid, classified according to the complicating disease, symptom, or other

³ In connection with this paragraph see a comprehensive table, "Minimum and maximum benefits under workmen's compensation laws by extent of disability and by States", Handbook of Labor Statistics, Government Printing Office, Washington, D. C., 1936 (Bulletin No. 616 of the Bureau of Labor Statistics, pp. 1126-27.)

³ This percentage, obviously, would be appreciably smaller if the present experience had included the incomplete cases not associated with disease.

[•] The classification of cases into those involving accidental injuries, occupational diseases, and hernias is of particular interest at the present time. Comparative analyses based on this classification will appear in some detail in a subsequent paper.

agent. The total duration of all cases amounts to nearly 2.7 million days and is approximately equally divided between the two groups of severity. The total compensation paid is over 7 million dollars, with 54 percent representing the cases with partial disability. Regardless of the degree of disability, arthritis as a complicating factor easily ranks first with respect to the number of cases, duration, and compensation paid. This disease was associated with 24 percent of all the cases, with 22 percent of the total duration of all cases, and with 21 percent of the total compensation paid for all cases. General infections and tuberculosis rank next in importance. In the group of partially disabled cases, bone infections supplant tuberculosis with percents for cases, duration, and compensation reading, respectively, 9, 11, and 10. In the group of totally disabled cases, tuberculosis assumes the place previously occupied by general infections, and neuroses appear in the third position with respect to duration and compensation, the percents being 9 in each instance.

 TABLE 4.—Duration of incomplete cases and compensation paid, classified according to the complicating disease, symptom, or other agent, as of Dec. 31, 1935

	Cases		Duration in days to Dec. 31, 1935		Compensation to Dec. 31, 1935				
Complicating disease, symptom, or other agent	Num- ber	Per- cent	Number	Per- cent	Amount	Per- cent	Average per case	Average per case divided by average for all cases	
	All cases								
Total	1, 337	100. 0	2, 685, 584	100. 0	\$7, 143, 884	100. 0	\$5, 343	1.0	
Arthritis. General infection Tuberculosis, all forms Eye. Bone infection Neurosis. Hernia. Venereal disease. Gangrene, cellulitis. Previous injury Hemiplegia. Psychosis. Bursitis, synovits Varicose veins. Spondylitis. Heart disease. General paralysis Neoplasm. Lead. Miscellaneous ¹ . Diseases, n. o. c	$\begin{array}{c} 318\\ 154\\ 128\\ 105\\ 98\\ 88\\ 68\\ 59\\ 40\\ 37\\ 27\\ 25\\ 19\\ 9\\ 8\\ 7\\ 5\\ 5\\ 35\\ 89\\ \end{array}$	23.8 11.5 9.6 7.3 6.6 5.1 4.3 0 2.0 1.9 1.4 2.0 1.9 1.4 9 .5 .4 .26 6.6	585, 755 269, 629 311, 048, 829 170, 729 199, 895 218, 223 147, 185 95, 848 95, 848 64, 716 73, 664, 716 73, 664 73, 520 74, 375 30, 670 40, 517 13, 634 16, 935 16, 945 16, 945 17, 946 170, 661	21.8 10.0 11.6 4 7.5 8.1 5.5 8.1 5.5 8.1 2.4 2.8 2.7 2.8 1.1 1.5 .6 6 .28 6.4	1, 507, 236 707, 681 875, 585 442, 325 521, 586 602, 337 385, 528 241, 464 155, 905 205, 802 191, 178 202, 825 82, 381 102, 172 39, 016 55, 736 47, 633 46, 931 41, 856 208, 563 482, 222	21. 1 9. 9 12. 3 6. 2 7. 3 8. 4 5. 4 5. 4 2. 9 2. 7 2. 8 1. 2 4 . 5 . 6 7 . 6 8 4 5. 4 2. 9 2. 7 2. 8 1. 2 4 5. 4 5. 4 5. 4 5. 4 5. 4 5. 4 5. 4 5.	4, 740 4, 595 6, 840 4, 213 5, 322 6, 845 5, 670 4, 003 3, 896 5, 662 7, 081 8, 113 4, 336 4, 335 7, 859 4, 335 7, 842 6, 805 9, 886 9, 886 5, 418	.99 .99 .83 .81 .00 .83 .81 .11 .83 .77 .00 .03 .13 .55 .85 .14 .15 .14 .13 .14 .13 .14 .13 .14 .13 .14 .13 .14 .14 .14 .15 .14 .14 .15 .14 .15 .14 .15 .15 .15 .15 .15 .15 .15 .15 .15 .15	

See footnotes at end of table.

 TABLE 4.—Duration of incomplete cases and compensation paid, classified according to the complicating disease, symptom, or other agent, as of Dec. 31, 1935—Contd.

	Ca	ses	Duration in to Dec. 31		Comp	ensatio	n to Dec. 3	1, 1935
Complicating disease, symptom, or other agent	Num- ber	Per- cent	Number	Per- cent	Amount	Per- cent	Average per case	Average per case divided by average for all cases
				Part	ial disability			
Total	953	100. 0	1, 383, 623	100. 0	\$3, 822, 5 58	100. 0	\$4, 011	0.8
Arthritis		26.0 15.0 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8	334, 740 233, 623 106, 836 62, 006 149, 866 62, 136 65, 639 83, 233 14, 709 6, 449 24, 714 16, 003 10, 129 4, 312 0 3, 601 8, 901 8, 907 23, 778 78, 072	24.2 16.9 7.4.5 10.8 7.50 4.5 4.5 4.5 4.5 4.5 1.1 1.8 1.1 1.5 8 1.1 5.6	912, 302 620, 163 302, 532 178, 601 392, 914 296, 847 161, 958 155, 630 132, 531 98, 044 50, 633 24, 956 71, 354 44, 209 81, 147 11, 404 0 10, 171 16, 068 667, 726 243, 368	23.9 16.2 7.9 4.7 10.3 7.7 4.2 4.1 3.6 1.3 .6 1.3 .6 1.1 .8 .0 .3 4.5 6.4	8, 679 4, 633 5, 208 3, 521 3, 542 3, 552 4, 603 5, 6, 239 8, 964 4, 450 3, 801 4, 450 3, 801 4, 450 3, 801 4, 450 3, 801 4, 450 3, 804 4, 270	.7 .8 .9 1.0 .7 .7 .8 .7 .7 .8 .7 .7 .8 .7 .7 .8 .7 .7 .8 .7 .7 .8 .7 .7 .8 .9 .7 .7 .8 .9 .7 .7 .8 .9 .1 .7 .7 .8 .9 .1 .7 .7 .7 .8 .9 .1 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7 .7
				.1.of	al disability			
Total	384	100. 0	1, 801, 961	100. 0	\$3, 321, 326	100. 0	\$8, 649	1.6
Arthritis	70 11 63 83 14 12 22 11 8 18 16 21 1 6 2 5 7 8 2 18 2 18 2	18.294 16.861 17.9842526538857 1.1.888577 1.1.888577 1.1.888577 1.1.88777 1.1.887777 1.1.887777777777	251, 015 36, 006 204, 212 108, 723 50, 029 114, 644 91, 989 83, 712 8, 077 40, 431 5, 956 17, 926 5, 956 17, 236 17, 345 18, 852 10, 731 51, 212 92, 589	19.387 15.4 8.88 8.88 8.1 2.6 6 1.98 1.38 1.80 1.88 1.88 1.88 1.88 1.88 1.88 1.8	594, 934 87, 518 572, 973 263, 724 128, 654 205, 490 223, 570 85, 834 107, 758 140, 545 177, 869 11, 027 57, 963 7, 869 86, 760 25, 788 135, 837 238, 854	17.96 17.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99 17.99 17.96 17.99 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.96 17.98 17.99 17.98 17.99 17.98 17.99 17.89 17.99 17.89	8, 499 7, 956 9, 005 7, 992 9, 855 10, 162 7, 803 7, 701 8, 280 8, 770 11, 027 9, 660 3, 3, 934 9, 466 6, 805 3, 12, 253 3, 12, 2834 2, 264 7, 546 7, 464	165 157 157 165 195 166 166 166 166 166 166 166 166 166 16

¹ Includes fewer than 5 cases associated with each of the following: Poisons, n. o. c.; dusts, gases, chemicals, n. o. c.; dermatitis, n. o. c.; pneumonia; sunstroke, heat exhaustion; frostbite, freezing; caisson disease; neuritis; fatigue, n. o. c.; laboratory infection; diseases following prophylactic treatment; diabetes; endarter-itis gangrene; nephritis; ganglion; neurasthenia; orchitis, epididymitis; and peritonitis. N. o. c.=not otherwise classified. ⁸ Based on fewer than 5 cases.

Table 4 also gives the average compensation paid per case for each disease or other associated agent, and the ratio of this average to the average compensation paid for all 1.337 cases. The average compensation per case, considering all cases, was \$5,343. The average paid for partial disability cases was \$4,011 while the average paid for cases with total disability was more than twice this amount, namely. \$8.649. In the partial disability group the highest average, \$6,316, was paid for cases associated with varicose veins; this average, when averages based on fewer than 5 cases are disregarded, was followed by \$5,208 for neuroses. The lowest average, \$2,481. was paid for eye cases. Again disregarding averages based on fewer than 5 cases. hernias led in the total disability group with an average of \$10,162, followed by neuroses with \$9,855. In this group the lowest average, \$6,805, was for cases with general paralysis. It will be seen that the highest average yielded by the cases with partial disability is lower than the lowest average yielded by the cases with total disability, and that the neuroses ranked second in either group of disability.

With regard to the ratio of the average compensation paid per case to the average for all cases (table 4), it is sufficient to say that the ratios for the partially disabled cases are generally less than 1 while the ratios for the totally disabled ones are well over 1. In other words, the average compensation paid per case with partial disability and specific for agent was generally less than the average for all cases regardless of degree of disability and agent; further, the average compensation per case with total disability and specific for agent was from 0.3 to 0.9 greater than the average compensation paid for all cases regardless of disability and agent.

Duration of cases, compensation paid, and estimated future cost, by year of occurrence of injury.—The duration of cases and compensation paid have been reclassified and are shown in table 5 according to year of occurrence of injury. In addition to data concerning these items, the future cost of each case as estimated by the Commission was made available. These data have been reduced and the results have been made a part of table 5.

 TABLE 5.—Duration of incomplete cases, compensation paid, and estimated future cost according to year of occurrence of injury, as of Dec. 31, 1935

Year of injury	Num- ber of	Duration i Dec. 31		Compens Dec. 31		Estimated	
	cases	Number	Percent	Amount	Percent	Amount	Percent
				All cases			
Total	1, 337	2, 685, 584	100. 0	\$7, 143, 884	100.0	\$8, 221, 841	100.0
Before 1916	4 5	9, 604 10, 948	.4	19, 748 24, 002	.8	37, 209 20, 366	• 1
1916 1917	29	81, 355	3.0	180, 783	2.5	111, 341	1.4
1918 1919	74 96	236, 919 318, 317	8.8 11.8	599, 237 808, 454	8.4 11.3	473, 069 572, 713	5.7 7.0
1920	89	290, 519	10.8	762, 304	10.7	572, 713 547, 106	6.7
1921 1922	77 65	218, 069 185, 194	8.1 6.9	570, 775 459, 029	8.0 6.4	440, 906 438, 326	5.4 5.8
1923	55	153, 348	5.7	402, 434	5.6	428, 992	5.8 5.2
1924 1925	65 75	147, 129 155, 241	5.5 5.8	398, 649 422, 766	5.6 5.9	390, 586 465, 804	4.7
1926	76	149, 404	5.6	445, 749	6.2	508, 812	6.2
1927 1928	68 80	117, 602 145, 154	4.4 5.4	335, 205 404, 811	4.7 5.7	457, 203 559, 370	5.6 6.8
1929	110	142, 870	5.3	420, 079	5.9	656, 826	8.0
1930 1931	89 91	107, 482 91, 087	4.0 3.4	308, 221 245, 143	4.3 8.4	570, 629 549, 445	6.9 6.7
1932	77	63, 236	2.4	174, 067	2.5	359, 517	4.4
1933 1934	71 39	42, 678 18, 891	1.6 .7	111, 414 48, 981	1.6	400, 072 225, 149	4.9
1935	2	537	(1)	2, 033	(1)	8, 400	.i
			Part	ial disabilit y			
Total	953	1, 383, 623	100. 0	\$3, 822, 558	100. 0	\$3, 030, 865	100.0
Before 1916	0 8	0 5, 896	0	0 12, 581	0 .3	0 4,689	8
1916	18	31, 130	.4 2.2	70, 692	1.8	36, 601	1.2
1918	51 62	111, 201 159, 077	8.0 11.5	283, 795 419, 446	7.4	203, 195 191, 302	6.7 6.8
1919 1920	54	121, 848	8.8	339, 262	11. 0 8. 9	166, 991	5.5
1921	51 38	105, 052 69, 400	7.6 5.0	307, 329 179, 956	8.0 4.7	173, 260 116, 655	5.7 8.9
1922 1923	82	66, 478	4.8	186, 221	4.9	115, 561	3.8
1924	44 54	70, 527 92, 537	5.1 6.7	211, 232 252, 590	5.5 6.6	166, 546 185, 313	3.8 5.5 6.1
1925	52	80, 466	5.8	243, 651	6.4	152, 720	5.0
1927	48 58	67, 120 89, 909	4.9	187, 087 247, 564	4.9	164, 663 188, 839	5.4 6.2
1929	84	88, 195	6.5 6.4	264, 193	6.5 6.9	240, 078	7.9 6.3
1930. 1931.	68 69	66, 112 56, 035	4.8	196, 529 145, 493	5.1 3.8	189, 920 186, 203	6.3 6.2
1932	67	50, 648	8.7	189, 548	8.7	183, 497	6. 2 6. 1
1933 1934	62 36	84, 382 17, 073	2.5 1.2	88, 877 44, 479	2.8 1.2	194, 840 161, 592	6. 4 5. 3
1935	2	537	() `	2, 033	.1	8, 400	. 8
			Т	otal disabilit;	7		
Total	384	1, 301, 961	100. 0	\$3, 321, 326	100. 0	\$5, 190, 976	100. 0
Before 1916	4	9,604	.7	19,748	.6 .4	37, 209 15, 677	.7 .3
1916 1917	2 11	5, 052 50, 225	.4 8.9	11, 421 110, 091	3.3	74, 740	1.4
1918	23	125, 718	9.7 12.2	315, 442	9.5 11.7	269,874	5.2
1919 1920	34 85	159, 240 168, 671	12.9	389, 008 423, 042	12.7	381, 411 380, 115	7.8
1921	28	113,017	8.7 8.9	263, 446 279, 073	7.9 8.4	267, 646 321, 671	5.2 7.4 7.8 5.2 6.2 6.0
1922 1923	27 23	115, 794 86, 870	6.7	216, 213	6.5	313, 431	6.0
1924	21	76, 602	5.9	187, 417	5.7	224,040	4.3
1925	21 24	62, 704 68, 938	4.8 5.3 3.9	170, 176 202, 098	5.1 6.1	280, 491 356, 092	5.4 6.9
1927	20	50, 482	3.9	202, 098 148, 118 157, 247		292, 540 370, 531	6.9 5.6 7.2 8.0 7.3 7.0 8.4 1.2 0
1928 1929	20 22 26 21 22 10 9 8 0	55, 245 54, 675	4.2 4.2 8.2 2.7 1.0	155, 880	4.7 4.7 3.4 3.0 1.0	416, 748 880, 709	8.0
1930	21	41, 370	8.2	111, 692	3.4	880, 709 363 242	7.8
1931. 1932.	10	85, 052 12, 588	1.0	99, 650 84, 519	1.0	363, 242 176, 020	8.4
1938	2	8, 296 1, 818	.6	22, 537 4, 502	.7	205, 232	4.0
1984	8	1, 818	.1	4, 502	.1	63, 557 0	- 8
				1			

1 Less than 0.1 of 1 percent.

A number of interesting facts are disclosed by the table. While the partial disability cases are almost two and one-half times as many as those with total disability, their total durations and total paid compensation, respectively, are similar in magnitude. The estimated future cost of the total disability cases, however, is almost 75 percent greater than the future cost estimated for the cases with partial disability. With respect to the cases with partial disability almost one-half of the total duration and one-half of the total compensation paid, respectively, are accounted for by injuries that occurred 12 or more years ago; the corresponding time for the cases with total disability is 14 or more years.

		Number			Percent	;
Class interval in dollars	All cases	Partial dis- ability	Total dis- ability	All cases	Partial dis- ability	Total dis- ability
Total	1, 337	953	884	100. 0	100. 0	100.
0.35-0.59 0.60-0.84 0.85-1.09 1.10-1.34 1.35-1.69 1.35-1.69 2.34 2.35-2.59 2.36-2.59 2.36-2.59 2.60-2.84 2.85-3.09 8.35-3.59 8.36-3.59 8.85-4.09 4.10-4.34 1.35-4.09 1.05-3.44	1 7 5 14 18 54 147 250 149 167 118 107 72 94 51 29 44 3 3 2 4	1 5 4 12 11 12 12 107 179 98 121 81 81 81 81 81 44 4 4 4	0 2 1 2 7 5 2 40 71 81 88 19 9 33 7 2 88 9 0 9 0 0 0 0 0	.1 .54 .1.1 1.4 11.0 11.0 11.1 12.5 8.80 4.5 .0 8.82 2.8 2.8 2.8 2.1 1	$\begin{array}{c} .1\\5\\4\\13\\ 1.2\\12$	1. 1. 10. 18. 13. 12. 9. 9. 8. 8. 8. 1. 1.
1.85-7.09 Mean	\$2.759 土.015 \$0.787 土.010	\$2.802 ±.018 \$0.825 ±.013	\$2.651 ±.023 \$0.671 ±.016			

TABLE 6.—Compensation paid for each case per day of duration, as of Dec. 31, 1935

Average compensation per day of duration for each case.—The compensation for each case per day of duration has been calculated and the results are shown in the form of frequency distributions in table 6. The average daily compensations for all cases, cases with partial disability, and cases with total disability range, respectively, from 0.40 to 5.33, with one case at 7.09; from 0.40 to 5.33, with one case at 7.09; and from 0.78 to 4.46. The means are, respectively, 2.76, 2.80, and 2.65, and the standard deviations 0.79, 0.83, and 0.67. When the frequency distributions are plotted on ordinary cross-section paper ⁵ they show a rapid rise over six or seven class intervals to the interval 2.10-2.35; thereafter there is a slow decline.

⁵ The graphs are omitted.

The distributions for all cases and the partially disabled ones show the decline over 12 class intervals; the distribution for the totally disabled cases shows the decline over 9 class intervals. The distributions are, therefore, skew and the mode in each instance is to the left of the mean. The shapes of the distributions for the partial and total disability cases appear in general to be similar, and calculations show that the two distributions together with the distribution for all cases may be represented probably by the same type of Pearsonian frequency curve.⁶ A probability test, however, shows what was expected to be disclosed by an inspection of the graphs of the distributions, namely, that partial and total disability select differently with respect to compensation per day of duration for each case.⁷

In the preceding discussion average daily rates were computed for calendar days of duration. In connection with rates computed for compensated days, Secretary McCauley of the Commission states in a personal communication that "The maximum compensation rate in the case of a person employed 6 days per week is a per-diem wage of \$4.47 and in the case of a 5-day week \$5.36. The minimum perdiem rates are, respectively, \$2.24 and \$2.68."

SUMMARY

This paper deals with the duration and cost of incomplete cases in which disease is a complicating factor occurring among civil employees of the United States Government. The cases are incomplete in the sense that they were still being compensated on December 31, 1935.

The Federal act providing for this compensation was established in 1916 and has been administered by the United States Employees' Compensation Commission. The estimated number of employees within the scope of the act for a period approximately 15 years prior to 1933 did not exceed 700,000. Since 1933 the number has increased to between 900,000 and 1,000,000.

The paper may be conveniently summarized as follows:

(1) Of the 1,337 incomplete cases, 84 percent resulted from accidental injuries or were activated or aggravated by them. About 11 percent of the total cases involved what may be designated occupational diseases. About 5 percent of the total cases were accounted for by hernias.

(2) Of the 1,337 incomplete cases, 71 percent were partially disabled; the remainder were totally disabled.

(3) Almost 50 percent of all cases were compensated for injuries that occurred 10 or more years ago.

• Distribution:	p 1	β1
All cases	0. 2938±0. 0460	8. 1024±0. 1242
Partial disability	0. 3060±0. 0673	3. 3619±0 . 2106
Total disability	0, 0596±0, 0279	2. 6923±0. 1201
' The chi square yields a P of less than 0.0003.		

(4) Fractures. sprains and strains, and bruises accounted, respectively, for 38, 16, and 12 percent of all cases.

(5) The percents of all cases confined to the trunk, lower extremities, head, and upper extremities were, respectively, 30, 28, 18, and 11.

(6) The total duration of all cases amounted to nearly 2.7 million days and was approximately equally divided between the partially and totally disabled groups.

(7) The total compensation paid was over 7 million dollars, with 54 percent representing the cases with partial disability. The average compensation paid per case was \$5,343. The estimated future cost of the 1,337 cases is over 8 million dollars.

(8) Regardless of the degree of disability, arthritis as a complicating factor easily ranked first with respect to the number of cases, total duration, and total compensation paid. This disease was associated with 24 percent of all the cases, with 22 percent of the total duration of all cases, and with 21 percent of the total compensation paid for all cases. General infections and tuberculosis ranked next in importance as complicating factors.

(9) Regardless of the complicating disease, symptom, or other agent and the degree of disability, the average compensation per calendar day of duration per case was \$2.76. With respect to rates computed for compensated days, the maximum compensation rate in the case of a person employed 6 days per week is a per-diem wage of \$4.47 and in the case of a 5-day week \$5.36. The minimum perdiem rates are, respectively, \$2.24 and \$2.68.

ACKNOWLEDGMENTS

The author is indebted to Chairman Jewell W. Swofford, of the United States Employees' Compensation Commission, for making possible the preparation of this paper; to Dr. F. M. Phillips for providing the basic data; and to Secretary William McCauley for helpful interpretations.

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- P. 3.
- (5) Idem: (1917) First Annual Report, September 7, 1916, to June 30, 1917. P. 39.
- (6) Idem: (1932) Sixteenth Annual Report, July 1, 1931, to June 30, 1932. Pp. 12, 15.
- (7) Committee on Research and Standards, American Public Health Association; [1931] Report of Committee on Standard Practices in the Problem of Compensation of Occupational Diseases. (Short title: Occupational Disease Legislation.) Published for the American Public Health Association by the Chemical Foundation. N. p. P. 92.

ORNITHODOROS TURICATA: THE POSSIBLE VECTOR OF RELAPSING FEVER IN SOUTHWESTERN KANSAS

Preliminary Report¹

By GORDON E. DAVIS, Bacteriologist, United States Public Health Service

Dr. Harold O. Closson has reported 11 cases of relapsing fever as having occurred in Clarke County, Kans., 1931-34 (1). Other cases have been reported subsequently from this and nearby counties. There has been no information as to the possible vector.

In late August and early September 1936 the writer and two assistants were detailed from the Rocky Mountain Laboratory for local studies as to the transmitting agent. Approximately 2,000 specimens of Ornithodoros turicata, hitherto not known to occur in Kansas, were recovered in Clarke County. The various stages of this tick were found in rodent burrows, in holes in sand, and attached to cottontail rabbits, one immature jack rabbit, spermophiles, prairie dogs, prairie-dog owls, and terrapins. Eleven hundred and ninetyseven ticks were removed from a single sand hole which contained 11 terrapins (Terrapene ornata). These ticks were later tested for spirochetes at the Rocky Mountain Laboratory by permitting them to engorge on white rats. Three strains of spirochetes were recovered from three localities, viz, from ticks collected from a prairie-dog burrow in the south central part of Clarke County, from a sand hole (no host present) in the extreme eastern part, and from a cottontail rabbit burrow in the face of a limestone outcropping in the extreme western part. The prairie-dog burrow was located on a ranch where a case of relapsing fever had occurred.

From the above data it seems reasonable to believe that O. turicata may be implicated in relapsing fever transmission in this area.

REFERENCE

(1) 1934. The Journal of the Kansas Medical Society, vol. 35, no. 2.

WHAT IS HAPPENING IN COUNTY HEALTH DEPARTMENTS?

The question as to what is happening in county health departments has been answered by the United States Public Health Service in an analysis of the annual reports on budget and personnel of every county health department that was in operation at any time during the years 1908-34, inclusive.² These data were used to define the period of operation and to depict the growth or retrogression that occurred.

¹ Contribution from the Rocky Mountain Laboratory, United States Public Health Service, Hamilton' Mont. Manuscript submitted for publication Nov. 14, 1936.

^{*} Experience of the health department in 811 counties, 1908-34. By Joseph W. Mountin, Elliott H. Pennell, and E. Evelyn Flook. Public Health Bulletin No. 230, Government Printing Office, Washington, D. C., 1936.

Kentucky was the first State to report the existence of a county health department which satisfied the definition used in this bulletin; namely, a county-wide public health service under the direction of a full-time professional health officer. This development occurred during 1908 in Jefferson County, a suburban county surrounding Louisville. Three years later, two services of this general type for rural areas began almost simultaneously in Yakima County, Wash., and in Guilford County, N. C. From these three foci the movement spread to practically all parts of the United States. In all, 811 counties maintained health department service for some period during the years from 1908 through 1934.

The county health department movement did not progress evenly when considered from the standpoint of either chronology or location. Comparatively few counties elected this type of service until after the close of the World War. From that time on to 1932 there was a continuous increase in the number, with distinct acceleration in the rate of growth during 1920-21, 1927-28, and 1931. In 1932 more counties terminated than established services. This reversal in trend continued through 1933, but growth was resumed in 1934.

About 68 percent of the counties which operated health department service are located in the Southern States. The lowest percentages of counties with service so organized are to be found in the West, North Central, and Middle Atlantic States. At the close of the study period Delaware and Maryland were in the honor roll with all counties maintaining full-time health service. In several States the percentage was well over 50. All county health departments did not survive; 270 ceased to operate before the close of 1934. Of this number, 40 reestablished the service, which was in operation at the close of the period.

By comparing the size of staff during the last year of operation with the size during the first year, it was found that one-half of the staffs increased in size and the others remained static or receded. The showing was somewhat better, though not strikingly so, when the size of staff on the year of maximum budget was compared with that on the first and the last year of health department service.

For several years following the establishment of the first county health department, the service was supported with funds derived from local sources. Later the States became important contributors, in some places taking over all or a major part of the burden. Generally speaking, the States in granting aid have favored the counties least able to support the service. The Federal Government and several nonofficial agencies have made important financial contributions, but the amount given in different years fluctuated over a wide range. Presumably funds were granted for the purpose of initiating the work, but with the expectation that in following years responsibility for financial support would be transferred to State and local official agencies.

Certain combinations of circumstances seem to favor the establishment and growth of county health departments. Under other conditions, this form of organization has not prospered. The many factors which seem to influence the behavior of counties in this regard are considered in the report.

This bulletin should be of interest and value to all health workers, but especially to those who are charged with responsibility for providing modern public health service in those areas where the county may be utilized as an administrative unit.

DEATHS DURING WEEK ENDED NOVEMBER 21, 1936

[From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce]

	Week ended Nov. 21, 1936	Correspond- ing week, 1935
Data from 86 large cities of the United States: Total deaths. Deaths per 1,000 population, annual basis. Deaths under 1 year of age. Deaths per 1,000 population, annual basis, first 47 weeks of year. Deaths under 1 year of age per 1,000 estimated live births. Deaths per 1,000 population, annual basis, first 47 weeks of year. Data from industrial insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, first 47 weeks of year, annual rate.	8, 208 11.5 490 44 12.0 68, 670, 288 13, 263 10.1 9.8	8,022 11.2 519 48 11.3 67,760,086 13,071 10.1 9.5

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended November 28, 1936, and November 30, 1935

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Nov. 28, 1936, and Nov. 30, 1935

	Diphtheria		Infl	Influenza		Measles		Meningococcus meningitis	
Division and State	Week ended Nov. 28, 1936	Week ended Nov. 80, 1935	Week ended Nov. 28, 1936	Week ended Nov. 80, 1935	Week ended Nov. 28, 1936	Week ended Nov. 80, 1935	Week ended Nov. 28, 1936	Week ended Nov. 80, 1935	
New England States: Maine New Hampshire Vermont	28	1	9		11 1 1	74 2 35	0	1 0 0	
Massachusetts Rhode Island Connecticut	5 8 1	12	1		158 94 43	60 14 29	0 8 0 0	1 0 2	
Middle Atlantic States: New York New Jersey Pennsylvania	27 18 36	42 21 35	1 11- 14	1 14 7	120 81 87	897 12 48	12 2 8	60	
East North Central States: Ohio Indiana	41 19	89 47	28 8	70 85	12 7	65 12	26 1	04	
Illinois Michigan Wisconsin West North Central States:	86 86 8	61 80 4	9 2 12	16 2 34	13 81 20	12 16 57	542	9 2 2	
Minnesota Iowa Missouri	12 28	7 18 75	1 1 90	1 7 95	7 5 6	49 5 26	2 0 7	1 8 0 0	
North Dakota South Dakota Nebraska Kansas	1 1 4 11	7 15	50 	 1 16	 8 1 5	12 8 9 8	2070002	0 0 2 1	
South Atlantic States: Delaware	2 16	1 13	9	8	2 75	82 15	0	0	
Virginia West Virginia	14 55 20	22 49 49	1 20	25	2 34	1 11 9	0 8 5	8 0 0	
North Carolina ³ South Carolina ³ Georgia ³ Florida.	100 21 39 9	60 4 22 10	12 213 	6 162 19 6	41 17 	9 1 	4	1 0 2	

See footnotes at end of table.

Cases of certain communicable	diseases reported by te	legraph by State health officers for 0, 1935—Continued
weeks ended Nov.	28, 1936, and Nov. 30	0, 1935—Continued

				•				
	Dipl	theria	Infl	uenza	Me	asles	Menin men	gococcus ingitis
Division and State	Week ended Nov. 28, 1936	Week ended Nov. 30, 1935	Week ended Nov. 28, 1936	Week ended Nov. 30, 1935	Week ended Nov. 28, 1936	Week ended Nov. 30, 1935	Week ended Nov. 28, 1936	Week ended Nov. 30, 1935
East South Central States: Kentucky Tennessee ³ Alabama ³ Missisippi ³ West South Central States:	11 43 44 12	36 57 34 9	17 63 104	9 34 53	4 7 1	31 2 6	8 2 2 0	1 6 2 0
Arkansas. Louisiana ³	4 12 15 62	17 34 20 155	18 16 66 109	51 11 99 218	3 7 25	11 5	0 1 3 1	1 0 3
Montana Idaho	1 5 10 3 8	1 1 3 11 2 6 2	3 4 	6 1 	4 63 1 6 31 	16 6 2 10 1 1 1	1 3 0 0 0 0 0	1 0 1 0 0 0
Washington Oregon California	59	4 52	30 65	24 23	11 11 26	125 230 127	2 2 6	6 2 2
Total 8 weeks of year	852 25, 748	1, 142 34, 173	1, 050 149, 838	1, 123 112, 880	985 277, 990	1, 647 711, 070	124 6, 987	80 5, 155
	Polion	nyelitis	Scarle	t fever	Sma	llpox	Typho	id fever
Division and State	Week ended Nov. 28, 1936	Week ended Nov. 30, 1935	Week ended Nov. 28, 1936	Week ended Nov. 30, 1935	Week ended Nov. 28, 1936	Week ended Nov. 30, 1935	Week ended Nov. 28, 1936	Week ended Nov. 30, 1935
New England States: Maine	1	1	18	18	0	0	0	2
New Hampshire Vermont Massachusetts Rhode Island Connecticut	000000000000000000000000000000000000000	1 0 5 8 5	14 9 144 25 32	16 9 167 18 32	000000000000000000000000000000000000000	0000000	0 0 1 2 2	2 0 2 2 0 0
Middle Atlantic States: New York New Jersey Pennsylvania East North Central States:	3 0 7	17 6 2	310 74 296	479 97 233	0 0 0	0 0 0	9 4 16	9 4 8
Ohio Indiana Iliinois Michigan Wisconsin	9 3 8 2 0	0 0 6 1 0	343 80 342 191 232	444 160 464 201 427	2 1 0 0 5	1 5 2 0 9	15 0 14 4 2	8 4 8 2
West North Central States: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	1 4 2 0 0 0 2	1 0 2 0 0 0 1	176 71 94 85 45 51 164	266 107 141 37 57 133 96	1 5 6 16 1 4 12	1 3 1 0 6 52 5	0 1 19 1 1 0 3	0 28 2 1 0 2 3

See footnotes at end of table.

	Polion	yelitis	Scarle	t fever	Smallpox		Typhoid fever	
Division and State	Week ended Nov. 28, 1936	Week ended Nov. 30, 1935						
South Atlantic States:								
Delaware	0	1	8	11	0	0	0	1
Maryland 2	0	6	59	104	0	0	6	13
District of Columbia	0	0	12	13	0	0	0	2
Virginia	4	2	54	47	0	0	8	4
West Virginia.	1	· 1	52	91	0	0	9	4
North Carolina 3	1	2	82	58	0	0	13	5
South Carolina 3	0	2	10	7	0	0	0	2
Georgia 3	7	0	44	28	0	0	6	5 2 8 0
Florida	2	0	10	7	0	0	1	0
East South Central States:								
Kentucky	2	2	34	79	0	0	8	15
Tennessee 3	5	1	67	61	0	1	4	4
Alabama 3	0	2	27	18	0	0	18	5
Mississippi ²	•	3	24	19	0	0	14	7
west South Central States:				1 10				_
Arkansas.	15	4	7	16	1	0	. 4	2
Louisiana 3			9	14	0	0	14	10
Oklahoma 4	11	0	14	43	2	4	8	14
Texas 3 Mountain States:	- 1	v	80	10	1 1	1	9	27
Montana	0	1	56	107	30	41		
Idaho	1	1	23	36		1	1	0
Wyoming	0	Ó	8	90 90	1	4	4	3
Colorado	ŏ	ŏ	34	189	2	4 6	Ő	0
New Mexico	ŏ	1	16	109	ő	Ö	2	7
Arizons	ŏ	2	37	25	ŏ	ŏ	3	(
Utah ¹	ŏ	ő	20	100	ŏ	ŏ	ን ው	0
Pacific States:		v	20	100		v	5	U
Washington	2	2	50	93	0	37	1	
Oregon.	2	7	41	60	40	0 0	4	42
California	ดี	4	217	240	5	10	15	10
						10	15	10
Total	103	95	3, 896	5, 259	135	190	246	238
48 weeks of year	4, 292	10, 500	216, 314	227, 148	6, 823	6, 685	13, 857	16, 739

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Nov. 28, 1936, and Nov. 30, 1935-Continued

New York City only.
 Week ended earlier than Saturday.
 Typhus fever, week ended Nov. 23, 1936, 27 cases, as follows: North Carolina, 1; South Carolina, 1; Georgia, 15; Tennessee, 1; Alabama, 7; Louisiana, 1; Texas, 1.
 Exclusive of Oklahoma City and Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week.

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Mala- ria	Mea- sles	Pellag- ra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
October 1936 Alabama Colorado	6 5 4 3 6 2 1 8 3 19 8 8	208 34 51 86 4 63 12 2 324 205 259 6	83 9 52 72 241 101 7 146 402 475 18	2, 948 146 109 18 226 1, 973 122	3 9 6 7 8 16 24 3 8 35 25 30	11 1 17 14 12 6 	30 3 31 2 4 34 11 1 84 13 8 9	117 97 332 42 244 59 102 143 246 134 149 156	1 6 6 67 10 1 12 2 2 1 0 8	63 8 11 49 19 73 16 9 86 107 86 24

¹ Exclusive of Oklahoma City and Tulsa.

Summary of monthly reports from States-Continued

October 1936		October 1956—Continued		October 1936—Continued	l
Ohickenpox:	Cases		99990		Cases
Alabama	23	Impetigo contagiosa-Con. C	4000		
Colorado	76	Tennessee	4	Louisiana.	7
Kansas	98	Washington	5	Oklahoma ¹	1
Louisiana	7	Mumps:		Tennessee	
Montana	227	Alabama	45	Virginia	1
Oklahoma 1	36	Colorado	29	Washington	1
Oregon	80	Kansas	89	Trachoma:	1
South Dakota	28	Louisiana	6	Louisiana	40
Tennessee	58	Montana	128	Montana	
Texas	24	Oklahoma 1	5	Oklahoma ¹	7
Virginia	- 44	Oregon	- 54	Oregon	1
Washington	471	Tennessee	8	South Dakota	48
Dengue:		Texas	48	Tennessee	48
Alabama	5	Virginia	102	Trichinosis:	1
Dysentery:		Washington	115	South Dakota	1
Alabama (amoebic)	3	Ophthalmia neonaturom:		Tularaemia:	•
Kansas (amoebic)	1	Tennessee	1	Oklahoma 1	2
Kansas (bacillary)	1	Virginia	2	Virginia	1
Louisiana (amoebic)	13	Paratyphoid fever:	-	Typhus fever:	
Louisiana (bacillary)	3	Louisiana	1	Alabama	51
Montana (bacillary)	25	Oregon	4	Louisiana	3
Oklahoma 1	54	Tennessee	2	Texas	43
South Dakota	3	Texas	3	Virginia	2
Tennessee (amoebic)	8	Virginia	6	Undulant fever:	-
Tennessee (bacillary)	33	Puerperal septicemia:	_	Alabama	5
Texas (amoebic)	2	Washington Rabies in animals:	1	Colorado	1
Texas (bacillary)	9	Rabies in animals:		Kansas	ő
Virginia (diarrhea in-		Louisiana	18	Louisiana	7
cluded)	706	Texas.	3	Oklahoma 1	ő
Washington (bacillary)_	1	Washington	10	South Dakota	1
Encephalitis, epidemic or		Rocky Mountain spotted		Tennessee	<u>4</u>
lethargic:		fever:	-	Texas	4
Colorado	1	Oregon	1	Washington	2
Kansas	2	Tennessee	1	Vincent's infection:	~
Louisiana	1	Scabies:	_	Kansas	.8
Montana	1	Colorado	7	Oregon	11
Oklahoma 1	3	Kansas	3	Tennessee	12
Tennessee	3	Oregon	82	Whooping cough:	E 1
Washington	5	Tennessee	2	Alabama	51 162
German measles:		Septic sore throat:		Colorado	
Alabama	1	Kansas	3	Kansas	36
Kansas	5	Louisiana	5	Louisiana	19 48
Montana	6	Montana	8	Montana	
Tennessee	3	Oklahoma ¹	13	Oklahoma 1	19 85
Washington	21	Oregon	6	Oregon South Dakota	80
Hookworm disease:		South Dakota	.1	South Dakota	
Louisiana	12	Tennessee	11	Tennessee	54 94
Impetigo contagiosa:		Virginia	4	Texas	138
Colorado	19	Tetanus:		Virginia	138
Oklahoma 1	2	Alabama	8	Washington	04
Oregon	111	Kansas	11		
		d Thulan			

¹ Exclusive of Oklahoma City and Tulsa.

WEEKLY REPORTS FROM CITIES

City reports for week ended Nov. 21, 1936

This table summarizes the reports received weekly from a selected list of 140 cities for the purpose of showing a cross section of the current urban incidence of the communicable diseases listed in the table. Weekly reports are received from about 700 cities, from which the data are tabulated and filed for reference.

State and site	Diph-		luenza	Mea-	Pneu-	Scar- let	Small-	Tuber- culosis	Ty- phoid	Whoop- ing	Deaths,
State and city	theria cases		Deaths	5183 C8.365	monia deaths	fever cases	pox cases	deaths	fever cases	cough cases	all causes
Maine:											
Portland	1		0	1	1	1	0	3	0	1	26
New Hampshire:									•		_
Concord Manchester	0		- 0	0	0	1	0		0	1	7
Nashua	ŏ			ŏ	· · · · ·	ō	ŏ	, v	ŏ	ŏ	
Vermont:										-	
Barre	0		0	0	0	0	0	0	0	0	2
Burlington	1			2 0	0	0	0	0	0	0 0	10
Rutland Massachusetts:	v			v	-	U	v	U U	v	v	7
Boston	1		1	2	17	38	0	8	0	198	207
Fall River	1		0	0	0	1	0	2	0	2	25
Springfield	0		0	0 14	1	3 5	0	0	0	9	28
Worcester Rhode Island:	U		0	14	5	٥	U	3	0	42	56
Pawtucket	0		0	0	0	1	0	0	0	0	26
Providence	ŏ		ŏ	Ŏ	2	12	ŏ	2	ŏ	18	70
Connecticut:											
Bridgeport	0		0	9	2	4	0	0	0	13	24
New Haven	0		0	2	0	1	0	0	·····	2	38
New Haven	v		Ň	-	Ů	•		v	•	4	-00
New York:											
Buffalo	0		1	9	7	24	0	5	0	6	106
New York	25 0	13	3 0	42 0	97 4	95 3	0	75 1	4	86 1	1, 344
Rochester	ŏ		ŏ	ŏ	2	11	ŏ	2	ŏ	27	63 43
New Jersey:	v		Ň	Ň	~			~	Ň	~ 1	70
Camden	2		2	0	0	2	0	0	0	2	25
Newark	Ō		1	3	6	11	0	7	0	30	115
Trenton	0		1	0	2	1	0	1	1	1	30
Pennsylvania: Philadelphia	8	5	3	1	29	55	0	21	3	143	504
Pittsburgh	4	3	2	1	27	57	Ó	5	3	14	170
Reading	0		0	1	2	7	0	1	0	47	38
Scranton	0			0		2	0		0	2	
Ohio:											
Cincinnati	3		0	1	13	6	0	8	0	5	145
Cleveland	3 0	10	0	1	10	39	0	13	2	33	190
Columbus	3	1	1	0	7	10	0	1	1	8	79
Toledo	2	2	1	1	7	4	0	2	0	18	72
Indiana: Anderson	0		0	0	0	11	0	1	0	2	9
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City reports	for	week	ended	Nov.	21,	1936—Continued
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State and city	Diph- theria		luenza	Mea- sles	Pneu- monia	Scar- let fever	Small- pox	Tuber- culosis	1 Duoid	Whoop- ing cough	Deaths, all
_	Cases	Cases	Deaths	C8.985	deaths	cases	Cases	deaths	Cases	cases	causes
Oklahoma: Muskogee Oklahoma City. Tulsa	2 2 0			0	17	1 2 0	0 0 0	1	0 0 0	0 0 0	
Teras: Dallas Fort Worth Galveston Houston San Antonio	1 8 1 12 0	1	1 0 1 1 2	1 12 0 0 0	11 6 4 . 10 8	16 7 0 5 8	0 0 0 0	8 0 2 8 10	2 2 0 0 0	14 0 0 0 0	88 39 22 83 67
Montana; Billings Great Falls Helena Missoula Idabo:	0 0 0 0		1 0 0 0	0 0 0	1 1 0 1	2 1 0 5	1 0 0 0	000000000000000000000000000000000000000	0 0 0 0	0 2 0 0	6 8 2 8
Boise Colorado: Colorado rado	0		0	0	1	1	0	0	0	0	11
Springs Denver Pueblo New Mexico:	0 1 2		0 0 0	0 3 0	5 9 2	5 11 4	0 0 1	2 5 1	0 0 0	0 34 4	15 73 12
Albuquerque Utah: Salt Lake City. Nevada:	0 0		0 1	0 2	0 4	1 7	0	3 1	0	0 5	11 37
Reno Washington: Seattle Spokane Tacoma	1 0 0	 	 0 0	 4 0 0	 3 2 0	3 6 4	 0 0	2 0 0	 0 0	3 4 0	 94 27 26
Oregon: Portland Salem	0		0	1 1	8	3 0	0	2	3 0	40	95
California: Los Angeles Sacramento San Francisco	18 4 0	20 	1 0 2	3 3 1	33 1 12	32 22 20	0 0 0	26 1 16	0 0 0	53 5 23	324 27 203
State and city			eningococcus meningitis mye- litis State and city				gococcus ngitis	Polio- mye- litis			
		Cases	Deaths	C.1565					Cases	Deaths	Cases
Massachusetts: Boston New York:		1	0	0	Mar	Nebraska: Omaha Maryland:				0	1
New York Rochester New Jersey:		1 0	1 2	0	Wes	Baltimore West Virginia: Charleston				1	1
Newark Pennsylvania: Philadelphia Ohio:		1	0	1		Kentucky: Covington Lexington Tennessee:				0	0
Cincinnati Cleveland Columbus		2 0 1	1 0 0	8 1 0	Okla	Tennessee: Memphis Nashville Oklahoma: Oklahoma City				0	21
Toledo Illinois: Chicago		Ū 8	0	2	Texa	rulsa s:		1 0 1	0	2 12	
Michigan: Detroit		3	8	1	Colo	Houston Colorado: Denver				0 1	0
Des Moines St. Louis		1 1	0	1 2	11 1					0 1	2 1

City reports for week ended Nov. 21, 1936-Continued

Encephalitis, epidemic or lethargic.—Cases: New York, 1; Philadelphia, 1; Wichita, 1. Pellagra.—Cases: Atlanta, 1; Savannah, 1; Birmingham, 1; New Orleans, 1. Typhus fever.—Cases: Savannah, 1; Mobile, 1; Montgomery, 2.

FOREIGN AND INSULAR

CANADA

Provinces—Communicable diseases—2 weeks ended November 14, 1936.—During the 2 weeks ended November 14, 1936, cases of certain communicable diseases were reported by the Department of Pensions and National Health of Canada, as follows:

Disease	Prince Ed- ward Island	Nova Scotia	New Bruns- wick	Que- bec	On- tario	Mani- toba	Sas- katch- ewan	Alberta	British Colum- bia	Total
Cerebrospinal menin- ritis		277 733 16 200 685 21	1 14 2 6 6 6 22 4 	1 522 62 3 8 1 361 12 259 96 46 1 197	3 656 14 	103 7 4 1 71 8 25 152 152 1 9 14 18	229 3 1 3360 29 7 5 46 	48 1 3 	1 203 2 11 13 228 279 16 1 99 99 	6 1, 777 98 36 20 4 4 55 55 3 2 48 58 1, 131 1 320 99 681

CUBA

Habana—Communicable diseases—4 weeks ended November 21, 1936.—During the 4 weeks ended November 21, 1936, certain communicable diseases were reported in Habana, Cuba, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Cerebrospinal meningitis Diphtheria Malaria	1 12 106	1	Tuberculosis Typhoid fever	13 1 32	6

¹ Includes imported cases.

(1729)

Provinces—Notifiable diseases—4 weeks ended November 14, 1936.— During the 4 weeks ended November 14, 1936, certain notifiable diseases were reported in the Provinces of Cuba as follows:

Disease	Pinar del Rio	Habana	Matan- zas	Santa Clara	Cama- guey	Oriente	Total
Cancer. Cerebrospinal meningitis. Chicken pox.	1			8		6 1 1	15 1 1
Diphtheria	2	1	1	1	1	2	8
Leprosy Malaria Measles	854	9 122	2 86	291	8 700	4 518 1	18 2, 071 1
Pollomyelitis Tetanus, infantile Tuberculosis Typhoid fever	6 40	13 33	1 59 18	45 23	17 11	11 81	1 151 151

DENMARK

Communicable diseases—July-September 1936.—During the months of July, August, and September 1936, cases of certain communicable diseases were reported in Denmark as follows:

Disease	July	Au- gust	Septem- ber	Disease	July	Au- gust	Sep- tember
Cerebrospinal meningitis. Chicken pox. Diphtheria and croup. Epidemic encephalitis. Erysipelas. German measles. Genorrhea. Influenza. Malaria. Measles. Mumps. Paradysentery.	4 8 98 1 243 75 942 2,542 9 108 291 76	2 9 130 4 225 9 1,009 2,388 17 73 3 242 51	4 7 103 3 257 1, 062 8, 390 5 84 267 72	Paratyphold fever Poliomyelitis Puerperal fevert Scables Scaplet fevert Tetanus, neonatorum Tetanus, traumatic Typhold fever Undulant fever (Bact. abort. Bang) Whooping cough	26 11 8 435 823 70 9 1 2 48 2,008	22 11 19 849 505 55 6 	11 7 20 1,024 949 87 3 7 7 53 1,818

YUGOSLAVIA

Communicable diseases—October 1936.—During the month of October 1936, certain communicable diseases were reported in Yugoslavia as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Anthrax. Cerebrospinal meningitis Diphtheria. Dyseni.vry Erysipelas. Measles.	83 4 1, 457 100 321 1, 500	13 12	Paratyphoid fever Poliomyelitis Scarlet fever Sepsis Tetanus Typhoid fever	27 11 767 11 48 869	2 8 4 20 99

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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

NOTE.—A table giving current information of the world prevalence of quarantinable diseases appeare 1 in the PUBLIC HEALTH REPORTS for November 27, 1936, pages 1659–1673. A similar cumulative table will appear in the PUBLIC HEALTH REPORTS to be issued December 25, 1936, and thereafter, at least for the time being, in the issue published on the last Friday of each month.

Plague

Argentina—Cordoba Province—Villa Dolores.—During the period November 1-15, 1936, 1 case of plague was reported in Villa Dolores, Cordoba Province, Argentina.

Hawaii Territory—Island of Hawaii—Hamakua District—Paauhau Sector.—One rat found on November 23, another rat found on November 27, and also another rat found on November 30, 1936, in Paauhau Sector, Hamakua District, Island of Hawaii, Hawaii Territory, have been proved plague infected.

Smallpox

Brazil—Recife.—During the week ended October 31, 1936, 3 cases of smallpox (alastrim) were reported in Recife, Brazil.

Yellow Fever

Colombia.—Yellow fever has been reported in Colombia as follows: Restrepo; month of July, 1 death, September 9, 1 death: Santander Department, month of July, 1 death.

Sierra Leone—Freetown.—On November 16, 1936, 1 suspected case of yellow fever was reported in Freetown, Sierra Leone.