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INFLUENZA PREVALENCE IN THE UNITED STATES

Reports from the health officers of 43 States for the week ended February 9, 1929, again showed a decrease, giving a total of 19,700 cases of influenza (see p. 410), as compared with 25,100 cases reported by the same States for the preceding week.

The general death rate in large cities for the week ended February 9 was 15.9 per thousand population (annual basis). (See p. 408.) For the week ended February 2, 1929, this rate was 16.7 per thousand.

SICKNESS AMONG INDUSTRIAL EMPLOYEES

FREQUENCY OF DISABILITY LASTING LONGER THAN ONE WEEK FROM IMPORTANT CAUSES AMONG 165,000 PERSONS IN INDUSTRY IN 1927, AND A SUMMARY OF THE MORBIDITY EXPERIENCE FROM 1920 TO 1927¹

By DEAN K. BRUNDAGE, Assistant Statistician, United States Public Health Service

There has now been accumulated through periodic reports to the United States Public Health Service from a group of about 35 industrial sick-benefit associations and company relief departments an 8-year record of the disabilities lasting longer than one week on account of sickness and nonindustrial injuries for which sick benefits were paid to members of the reporting associations.² From 1921 to 1927 the average annual frequency of such cases among male employees was 101 cases per 1,000 persons. This rate is undoubtedly an understatement of the frequency of cases of sickness and nonindustrial accidents which render employees unable to work for eight consecutive calendar days or longer, because nearly all of the reporting sick-benefit associations refuse payments for disability on account of the venereal diseases, for illness resulting from the violation of any

¹ From the Office of Industrial Hygiene and Sanitation in cooperation with the Office of Statistical Investigations, U. S. Public Health Service.

² Several articles on the frequency of disabling illness as shown by these data have been presented in the Public Health Reports. A summary of the results up to Jan. 1, 1925, is given in Reprint No. 1060 from the Public Health Reports of Jan. 22, 1926.

civil law, for the results of willful or gross negligence, and for certain other causes. Moreover, a number of the associations do not pay for chronic diseases contracted prior to the date of joining the organization, nor for disabilities caused by or growing out of specific physical defects. Investigation has revealed, also, that occasionally a disability is not reported through the ignorance of the patient that any cash benefits are due, and sometimes because the employee is too sick to arrange for the reporting of his case within the time limit set by the organization. These conditions, of course, preclude knowledge of the real magnitude of the incidence rate of the more serious illnesses, but, with all due allowance for their limitations, the data possess considerable value, especially in the absence of any other morbidity material covering as large a sample of the industrially employed population.

With but few exceptions, the reporting establishments are located east of the Mississippi and north of the Ohio and Potomac Rivers. None of the reports include industrial accidents. In calculating the sickness and nonindustrial accident frequency rates the number of persons used as the divisor is the number of employees reported as holding membership in the association, or, in the case of relief or industrial medical department reports, the number on the pay roll at the end of each month.

Relative Importance of Different Groups of Diseases from the Standpoint of the Frequency of Their Occurrence

The relative importance of each of 10 groups of disabilities for which sick benefits were paid, 1921 to 1927, is graphically portrayed in Figure 1. Claims for sickness benefits on account of respiratory diseases constituted 41.8 per cent of total claims; for digestive diseases, 13.7 per cent; and for external causes (nonindustrial injuries), 10 per cent. These three groups added together, therefore, accounted for $65\frac{1}{2}$ per cent of the cases for which sick benefits were paid by associations reporting to the Public Health Service.

The sickness frequency rates from which were computed the percentages shown in Figure 1 appear in Tables 1 to 3. In the respiratory group of diseases the importance of influenza and grippe is indicated in Table 2, nearly 50 per cent of the respiratory cases, 1921 to 1927, being reported as influenza or grippe.

The digestive diseases were the second most important group from the standpoint of the frequency of their occurrence. Within this group, in the order named, the most important numerically were: (1) Diseases of the stomach (not including cancer), (2) appendicitis, (3) diarrhea and enteritis, and (4) hernia.

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External causes made up the third largest group, and the fourth was the circulatory-urinary group, followed by rheumatism (acute and chronic). Other groups of importance numerically were diseases of the nervous system, diseases of the skin, diseases of the organs of locomotion, and the epidemic and endemic diseases. The illnesses

RELATIVE PREQUENCY OF CLAIMS FOR SICK-BENEFITS ON ACCOUNT OF SPECIFIED GROUPS OF DISEASES AMONG MALE INDUSTRIAL EMPLOYEES, 1921-1927.

10.0%	External Causes (165-203)*
41.8%	Respiratory Diseases (11, 31, 97-107, 109)
15.7%	Digestive Diseases (108, 110-127)
6.7%	Circulatory and Genito-Urinary Diseases (87-96, 128-142)
5.8%	Rheumatism (51, 52)
4.5%	Diseases of Nervous System (70-84)
3.8%	Diseases of the Skin (151-154)
3.3%	Diseases of Organs of Locomotion (158)
2.7%	Bpidemic and Endemic Diseases (1-10,12-25)
7.9%	All Other Diseases
Fig. 1	

* Numbers in parentheses are disease title numbers in the International List of Causes of death, 3d revision, Faris, 1920.

not included in the groups mentioned above comprised only 7.9 per cent of total cases.

Any sick-benefit organization with regulations similar to those mentioned above can compare its morbidity experience with the yearly rates presented, by classifying in accordance with the International List of the Causes of Death (1920 revision) the disabilities lasting eight consecutive days or longer among its male members and then dividing the number of cases of each disease and disease group by the average male membership for the year.

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TABLE 1.—Frequency of specified disease groups which caused disability for eight consecutive calendar days or longer in a group of male industrial workers employed in different industries, by years, from 1981 to 1927

- 	A verage male	verage male		Nonine inju	dustrial ries ¹	Sick	iless	Respi dises	ratory ases ³	Nonres dise	pirator y ases
Year	member- ship of the reporting com- panies	Num- ber of cases per 1,000 men	Num- ber of cases	Num- ber of cases per 1,000 men	Num- ber of cases	Num- ber of cases per 1,000 men	Num- ber of cases	Num- ber of cases per 1,000 men	Num- ber of cases	Num- ber of cases per 1,000 men	Num- ber of cases
1921-1927 1921 1922 1923 1923 1924 1925 1926 1926 1927	4 735, 507 66, 084 66, 466 89, 910 114, 065 114, 631 118, 886 165, 465	101.3 90.9 96.4 95.1 96.0 105.9 111.9 103.7	74, 516 6, 004 6, 407 8, 548 10, 948 12, 140 13, 307 17, 162	10. 1 8. 1 7. 8 9. 0 9. 6 10. 9 11. 2 11. 4	7, 427 539 518 808 1, 093 1, 248 1, 325 1, 896	91. 2 82. 8 88. 6 86. 1 86. 4 95. 0 100. 7 92. 3	67, 089 5, 465 5, 889 7, 740 9, 855 10, 892 11, 982 15, 266	42. 4 34. 1 44. 0 44. 3 38. 2 44. 1 50. 4 40. 2	31, 201 2, 251 2, 918 3, 978 4, 349 5, 062 5, 991 6, 652	48. 8 48. 7 44. 6 41. 8 48. 2 50. 9 50. 3 52. 1	35, 888 3, 214 2, 971 3, 762 5, 506 5, 830 5, 991 8, 614

¹ Industrial accidents and certain diseases are not reported, as explained in the text. ² External causes—title Nos. 165–203 in the International List of the Causes of Death, third revision, 1920. ³ Title Nos. 11, 31, 97–107, and 109 in the International List of the Causes of Death, 1920.

4 Number of years of life under observation.

TABLE 2.—Frequency of specified respiratory diseases which caused disability for eight consecutive calendar days or longer in a group of male industrial workers employed in different industries, by years, from 1921 to 1927

Year	Respir- atory diseases	Influ- enza and grippe (11)	Tuber- culosis of the respir- atory system (31)	Bron- chitis (99)	Pneu- monia, all forms (100, 101)	Diseases of pharynx and tonsils (109)	Other diseases of respir- atory system (97, 98, 102-107)
			Number o	of cases per	1,000 men		
Average 1921-1927	42. 4	20.1	1.5	5.7	3. 3	6.4	5, 4
1921 1922 1923 1924 1924 1925 1926 1926 1927	34. 1 44. 0 44. 3 38. 2 44. 1 50. 4 40. 2	12.9 20.9 22.7 16.9 21.3 27.1 17.7	1.9 1.9 1.2 1.3 1.2 1.6 1.6	5.8 5.4 5.3 5.0 5.7 6.6 6.0	2.6 3.8 3.8 3.1 3.5 3.1 3.3	5.9 5.3 5.7 6.4 7.0 7.1 6.4	5.0 6.7 5.6 5.5 5.4 4.9 5.2

TABLE 3.—Frequency of specified nonrespiratory disease groups which caused disability for eight consecutive calendar days or longer in a group of male industrial workers employed in different industries, by years, from 1921 to 1927

T

,	Number of 8-day or longer disabilities per 1,000 men								
			Digestiv	7e disease	s		Diseas and syste	es of ci genito ems	rculatory - urinary
Year	Diges- tive disease total	Dis- eases of the stom- ach ¹ (111, 112)	Diar- rhea and enter- itis (114)	Appen- dicitis (117)	Hernia (118a)	Other diges- tive diseases (108, 110, 115, 116, 118- 127)	Circu- latory and genito- urinary total	Dis- eases of the heart (87-90)	Dis- eases of the veins (93)
Average 1921-1927	13.9	4.7	1.7	3.6	1.6	2.3	6.8	1.7	1.5
1921	13.9 12.2 11.4 13.3 14.8 14.5 15.1	4.2 4.1 3.9 4.6 5.2 5.2 5.0	2.2 1.8 1.9 1.8 1.5 1.4	3.3 2.9 2.9 3.3 3.9 3.6 4.5	2.1 1.5 1.2 1.3 1.4 1.6 1.6	2.1 1.9 1.6 2.2 2.5 2.6 2.6	6.6 6.4 5.4 6.3 7.1 7.2 7.7	1.6 1.3 1.2 1.5 1.7 1.9 2.1	1.7 1.8 1.3 1.3 1.7 1.5 1.5
	Diseas and ge ten	es of circ nito-urin ns—conti	culatory ary sys- nued	Diseas	es of the	nervous	system		Lum-
Year	Other diseases of the circu- latory system (91, 92, 94-96)	Ne- phri- tis, acute and chronic (128, 129)	Other diseases of geni- to-uri- nary system (130- 142)	Nerv- ous system (70-84), total	Neu- ralgia, neu- ritis, sci- atica (82)	Neu- rasthe- nia and the like (part of 84)	Other diseases of the nerv- ous system (70- 81, 83, part of 84)	Rheu- ma- tism, acute and chronic (51, 52)	bago and other diseases of or- gans of loco- motion (158)
Average 1921-1927	0.9	0.7	2.0	4.4	2.1	1.5	0.8	5.9	3.3
1921 1922 1923 1924 1924 1925 1926 1926 1927	.8 .7 .6 .8 1.1 .9 1.1	.7 .8 .8 .7 .7 .8 .8	1.8 1.8 1.5 2.0 1.9 2.1 2.2	4.1 4.6 3.5 4.6 4.6 4.5 4.7	1.6 2.3 1.6 2.3 2.0 2.1 2.3	2.5 1.5 1.2 1.6 1.8 1.6 1.4	0.0 .8 .7 .7 .8 .8 1.0	5.6 4.6 4.7 6.5 6.4 5.8 6.3	3.0 3.4 2.7 3.2 3.3 3.8 3.5
				All o	ther dise	ases		·.	
Year	Dis- eases of the skin (151- 154)	Epi- demic and endem- ic dis- eases ² (1-10, 12-25)	All other dis- eases, total	Dis- eases of the eye (85)	Dis- eases of the ear and mas- toid proc- ess (86)	Cancer (all forms) (43-49)	Gen- eral dis- eases not shown sepa- rately (26-30, 32-37, 41, 42, 50, 53- 69)	Dis- eases of the bones and joints (155, 156)	Ill-de- fined and un known causes of disa- bility (205)
Average 1921-1927	3.8	2.7	8.0	1.1	0.6	0.6	2.5	1.0	2.2
1921 1922 1923 1924 1924 1925 1926 1926 1927	3.6 3.6 3.3 3.5 3.5 3.8 4.7	2.6 2.1 2.4 3.4 3.4 2.5 2.4	9.3 7.7 8.4 7.4 7.8 8.2 7.7	.8 .9 .9 1.2 1.0 1.3 1.4	.6 .5 .4 .5 .8 .7 .5	.6 .5 .6 .8 .7	3.5 2.2 2.0 2.3 2.5 2.5 2.5 2.6	2.0 1.5 1.5 .6 .6 1.0	1.8 2.0 3.1 2.2 2.3 2.3 1.5

¹ Cancer excepted.

² Except influenza and grippe.

Is the Frequency of Sickness Increasing?

The incidence rates, by years, shown in Tables 1 to 3 have been plotted in Figures 2 to 4. Both the respiratory and the nonrespiratory groups appear to have increased in frequency during the period under review. As Figure 2 illustrates, the size of the respiratory rate was largely determined by the frequency of influenza and



FIG. 2.-Frequency of the principal causes of disability, 1921-1927

grippe, which exhibits no evidence of a waning tendency. The curve for external causes, which is probably largely affected by the number of automobile accidents, shows a steady, relentless advance year by year.

Respiratory diseases other than influenza and grippe appear not to have increased appreciably in frequency, 1921 to 1927, with the possible exception of diseases of the pharynx and tonsils. (See fig. 3.) Among the nonrespiratory groups of diseases digestive diseases and the circulatory-genito-urinary group show a rising rate of claims for sickness benefits.

A few associations discontinued their morbidity reports from time to time, while others were added to the reporting group. These changes in sampling may have affected to some extent the year-byyear results for the group as a whole, and hence it appeared desirable to establish what changes, if any, occurred in the sickness rates of



FIG. 3.—Frequency of the principal respiratory disease groups, except influenza and grippe, 1921-1927

the 15 funds which reported continuously throughout the period 1922-1927. For these associations the frequency of cases according to their duration in weeks was ascertained during the three years ending December 31, 1924, compared with the next three years. In the latter period, the results showed, there were fewer cases lasting from 8 to 20 days than in the preceding three years, but more cases lasting 8 weeks or longer. One may say, therefore, that no measurable progress appears to have been made in diminishing the extent of serious sickness among the membership of 15 large sick-benefit associations in 1925, 1926, and 1927 compared with the three years which preceded 1925.

TABLE 4.—Frequency of cases of sickness (including nonindustrial injuries) of specified duration in 1925–1927 compared with 1922–1924

	Annual r cases per	number of 1,000 men	Number of cases		
Duration of disability in calendar days	1925-1927, inclusive	1922–1924, inclusive	1925–1927, inclusive	1922–1924, inclusive	
All durations	96. 5	98.4	17, 496	15, 569	
8 to 13 calendar days 14 to 20 calendar days 21 to 27 calendar days 28 to 34 calendar days 35 to 41 calendar days 42 to 48 calendar days 49 to 55 calendar days 56 and over	29.0 20.7 11.6 7.2 5.4 4.1 3.7 14.8	32.0 21.3 11.3 7.4 5.4 4.3 3.1 13.6	5, 259 3, 755 2, 103 1, 312 973 751 670 2, 673	5, 061 3, 374 1, 785 1, 173 855 681 497 2, 147	
Number of years of life under observation		· · · · · · · · · · · · · · · · · · ·	181, 238	158, 279	

[Experience of male members of 15 sick-benefit associations which reported their cases to the United States Public Health Service throughout both periods]

Effect of Age Upon the Frequency of Disability

Only a few of the reporting associations have made available the age distribution of their members. We find, however, that the age distribution of the personnel of industrial establishments tends to change rather slowly, largely on account of the turnover of labor, and that the incidence rate of disabilities lasting longer than one week does not vary markedly according to age. The number of days lost per person per year tends to increase much more rapidly with age than does the frequency of cases. The duration of disability is extended considerably as age advances, especially after age 50. Thus the age distribution of the population at risk does not require such careful consideration in discussing sickness frequency as is necessary in presenting sickness severity rates.

TABLE 5.—Frequency of cases of sickness, including nonindustrial accidents which caused disability for more than one week, and number of days lost from work on account of such cases, by age, among male members of the employees' benefit association of a farm-implement company

Age groups	Number of years of life under observa- tion	Number of cases	Number of days lost from work on account of these cases	Annual number of cases per 1,000 males	Annual number of days lost per person on account of these cases
All ages	38, 672	6, 949	208, 081	. 179.7	5. 381
Under 25	5, 578 14, 144 9, 945 5, 115 2, 906 984	1, 059 2, 463 1, 760 957 710 0	22, 946 59, 218 48, 119 33, 253 44, 545 0	189. 9 174. 1 177. 0 187. 1 244. 3	4. 114 4. 187 4. 839 6. 501 15. 329

[Experience of employees at 3 plants of the company, 1916 to 1920, inclusive]

Sickness Frequency According to Sex

The female members of reporting sick-benefit associations were disabled oftener than the male members to the extent of 50 per cent in the period 1921–1927. The higher rate among the women is not



FIG. 4.-Frequency of the principal nonrespiratory disease groups, 1921-1927

attributable primarily to conditions of the puerperal state nor to diseases of the female genital organs, because most of the reporting associations pay benefits only for ailments common to both sexes. Moreover, the age factor is favorable to women in industry, since a much larger proportion of men than of women is usually found in the older age groups. Only a small percentage of female industrial employees is above age 45.

Comparing the nature of illnesses according to sex, one finds that the frequency of 8-day or longer cases among the women was more than twice that of the male rate for diseases of the nervous system, diseases of the pharynx and tonsils, appendicitis, the genito-urinary group exclusive of nephritis, the general disease group, and for illdefined and unknown causes. The women, however, experienced a



much lower rate of hernia than the men, pneumonia at less than half the male frequency, less rheumatism, fewer cases of lumbago and other diseases of the organs of locomotion, and a frequency considerably below that prevailing among the men for diseases of the veins and diseases of the bones and joints. For most disease groups, however, the female rate was higher than the male rate. The annual number of nonindustrial injuries per 1,000 persons was about the same for either sex.

Diseases and conditions causing disability (with corresponding title numbers in parentheses from the International List of the Causes of Death, 1920 revision)		nual ber of er 1,000	Per cent of	Num ça	Number of cases	
of Death, 1920 revision)	Males	Fe- males	male rate	Males	Fe- males	
Sickness and nonindustrial injuries Sickness (1–164, 205) External causes (nonindustrial injuries) (165–203)	101. 3 91. 2 10. 1	151.9 141.4 10.5	150 155 104	74, 516 67, 089 7, 427	12, 232 11, 382 850	
Respiratory diseases. Influenza and grippe (11). Tuberculosis of respiratory system (31). Bronchitis—acute and chronic (99). Pneumonia—all forms (100, 101). Diseases of the pharynx and tonsils (109). Other respiratory diseases (97, 98, 102-107). Digestive diseases. Diseases of the stomach (111, 112). Diarrhea and enteritis (114). Appendicitis (117). Hernia (118a). Other digestive diseases (108, 110, 115, 116, 118b-127). Circulatory and genito-urinary diseases. Diseases of the heart (87-90). Diseases of the heart (87-90). Diseases of the heart (87-90). Other diseases of the circulatory system (91, 92, 94-96). Nephritis—acute and chronic (128, 129). Other diseases of genito-urinary system and annexa (130-142) Diseases of the nervous system (70-84). Neuralsthenia and the like (part of 84). Other diseases of nervous system (70-81, 83, 84). Rheumatism—acute and chronic (15, 2). Lumbago and other diseases (1-10, 12-25). All other diseases of the eye (85). Diseases of the eye (85).	$\begin{array}{c} \textbf{42.4} \\ \textbf{420.15.73} \\ \textbf{5.3.64} \\ \textbf{5.4497.76} \\ \textbf{663.81.1.97704} \\ \textbf{42.158938701} \\ \textbf{665} \\ \textbf{32.81.533281} \\ \textbf{665} \\ \textbf{5.333281} \\ \textbf{665} \\ \textbf{5.333281} \\ \textbf{665} \\ \textbf{5.333281} \\ \textbf{665} \\ \textbf{5.333281} \\ \textbf{5.333281} \\ \textbf{665} \\ \textbf{5.333281} \\ \textbf$	$\begin{array}{c} \textbf{65.4}\\ \textbf{25.9}\\ \textbf{1.8}\\ \textbf{1.74}\\ \textbf{1.65}\\ \textbf{1.75}\\ \textbf{1.0.65}\\ \textbf{1.75}\\ \textbf{1.66}\\ \textbf{1.75}\\ \textbf{1.68}\\ \textbf{.666}\\ \textbf{0.175}\\ \textbf{1.228}\\ \textbf{.666}\\ \textbf{0.18}\\ $	154 120 113 154 455 272 187 96 90 200 264 94 94 7 122 187 100 205 275 273 124 48 103 275 275 61 48 2255 2134 163 1232 214 164 165 165 165 165 165 165 165 165 165 165	$\begin{array}{c} 31, 201\\ 14, 799\\ 1, 097\\ 4, 230\\ 2, 433\\ 4, 680\\ 3, 962\\ 10, 200\\ 3, 463\\ 1, 264\\ 2, 640\\ 2, 640\\ 1, 118\\ 1, 695\\ 5, 017\\ 1, 235\\ 1, 128\\ 1, 235\\ 1, 128\\ 1, 235\\ 1, 129\\ 1, 235\\ 1, 129\\ 1, 235\\ 1, 2424\\ 2, 8067\\ 1, 129\\ 617\\ 4, 320\\ 2, 424\\ 4, 832\\ 844\\ 414\\ 4, 832\\ \end{array}$	5, 269 2, 069 139 707 122 1401 1, 401 133 7688 801 133 7688 801 129 92 58 801 129 92 58 801 129 92 58 801 129 92 58 801 129 708 51 2866 968 902 909 708 51 2866 126 92 803 801 129 707 707 707 707 707 707 707 707 707 70	
Diseases of the bones and joints (155, 156) Ill-defined and unknown causes (205)	1.0 2.2	.8 10.1	80 459	755 1, 573	65 818	

TABLE 6.—Frequency of specified causes of disability according to sex, 1921-1927 1

¹ Only those disabilities from sickness and nonindustrial accidents which lasted 8 days or longer are included. Industrial accidents and certain diseases are not reported, as explained in the text. Number of years of life under observation: Males, 735,507; females, 80,523.

Nature of the Illnesses in Certain Industries

In Table 7 the frequency of different diseases and groups of diseases is shown for men in iron and steel manufacturing, in public utilities, and in a group of miscellaneous industries which include the manufacture of chemicals, abrasives, plumbing fixtures, electrical equipment, paper, paper novelties, timepieces, hats, underwear, flour, soap, and certain other products.

The disability frequency rates among the men in the iron and steel industry were generally lower than for the other two industrial groups. The rates for neurasthenia, the digestive diseases, bronchitis, influenza, and grippe were especially low in the steel industry. Other studies indicate that the heavy nature of the work in various occupations of the steel industry causes a selective recruitment of persons of above average physical endowment, and probably also a selective discharge from the industry of those who find themselves physically unfit for heavy work.

There were four disease groups, however, which showed a higher rate in steel than in the other industries. These were pneumonia, the epidemic and endemic diseases, diseases of the heart, and "other" diseases of the nervous system. With the exception of pneumonia,



FIG. 6

these disease groups may not occur at *significantly* higher rates in steel than in the other industries represented.

The abnormal frequency of pneumonia, a special detailed study shows, is confined to a relatively small number of occupations in the steel industry. Records and observations are being made by the Public Health Service, in cooperation with a large steel company, of the nature of the exposures involved in these occupations. Tentative results indicate clearly the existence of a pneumonia problem in this industry.

Diseases and conditions causing disability (with corre-	Annu case mer	al num es per	ber of 1,000	Number of cases		
sponding title numbers in parentheses from the Interna- tional List of the Causes of Death, 1920 revision)	Iron and steel	Public utili- ties	Other indus- tries 1	Iron and steel	Public utili- ties	Other indus- tries 1
Sickness and nonindustrial injuries ¹	87.3 778.2 9.1 17.6 17.6 1.7 4.1 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1	$113.4 \\ 104.4 \\ 9.0 \\ 51.1 \\ 23.7 \\ 1.8 \\ 7.6 \\ 2.5 \\ 7.0 \\ 1.6 \\ 2.5 \\ 7.0 \\ 1.6 \\ 2.0 \\ 4.6 \\ 2.0 \\ 4.6 \\ 2.3 \\ 1.6 \\ 2.0 \\ .9 \\ 2.1 \\ 1.6 \\ 3.5 \\ 3.5 \\ 3.5 \\ 9.1 \\ 1.7 \\ .9 \\ 2.8 \\ 1.1 \\ 2.6 \\ 1.2 \\ 1.6 \\ 1.2 \\ $	$\begin{array}{c} 110.1\\ 97.8\\ 122.3\\ 122.7\\ 22.1\\ 1.5\\ 22.9\\ 5.8\\ 14.4\\ 8\\ 1.6\\ 2.6\\ 9\\ 1.5\\ 1.6\\ 2.6\\ 9\\ 1.5\\ 1.0\\ 7\\ 2.3\\ 2.7\\ 6.9\\ 1.5\\ 2.4\\ 2.7\\ 9.1\\ 1.6\\ 5\\ 2.4\\ 1.6\\ 5\\ 2.4\\ 1.6\\ 5\\ 2.4\\ 1.6\\ 3.2\\ \end{array}$	22,020 19,723 2,297 8,982 4,442 388 987 1,135 1,036 1,024 2,923 2,295 8266 268 268 268 268 266 268 266 268 266 269 191 191 456 209 191 191 55 1,460 241 269 1,460 269 1,460 269 1,460 269 1,55 548 200 255 1,55 548 200 255 1,55 548 200 255 1,55 548 200 255 1,55 548 200 255 1,55 1	18, 855 17, 359 1, 496 8, 503 3, 950 297 1, 264 411 1, 423 1, 158 2, 756 342 760 318 411 1, 232 261 1337 351 351 351 351 351 407 1, 510 173 145 407 1, 510 173 145 407 1, 510 173 145 407 1, 510 173 145 407 1, 510 173 145 407 1, 510 1,	27, 637 24, 642 3, 095 11, 445 5, 553 288 1, 627 715 1, 834 1, 627 715 1, 834 1, 448 3, 600 3, 600 419 371 250 182 250 182 250 182 250 182 250 182 250 182 250 182 250 182 250 182 250 182 250 182 250 182 250 182 250 182 250 182 250 250 250 250 250 250 250 250 250 25

TABLE 7.—Frequency of specified disabilities lasting eight calendar days or longer among male wage earners, 1922–1927, classified according to industry

¹ Including employees of industries producing chemicals, abrasives, plumbing fixtures, electrical equipment, paper, paper novelties, timepieces, hats, underwear, flour, soap, and certain other products. ³ Industrial accidents and certain diseases are not reported, as explained in the text.

Seasonal Variation in the Incidence Rate of Sickness

It is apparent from Table 7 and Figure 7 that the height of the peaks of sickness incidence was largely determined by the frequency of influenza and grippe. The rate for this disease was higher in March, 1926, than at any time since February, 1920, although the influenza epidemic of 1923, which reached its climax in February of that year, was a close second to the influenza experience of 1926. Even in so-called nonepidemic years the influenza wave is of no inconsiderable magnitude. More gradual is the rise and fall of respiratory diseases, exclusive of influenza and grippe, the curve exhibiting little of that explosive tendency so characteristic of the incidence of influenza. The seasonal variation of the nonrespiratory diseases as a group is much less pronounced than that of the respiratory diseases, but even they show a tendency to occur oftener in the winter and spring months than in the summer and fall. February 22, 1929



400



F1G. 7

	Number	of cases p ye	er 1,000 pe ar	rsons per
Month of onset of disability	All diseases ¹	Influenza and grippe	Respira- tory, except influenza and grippe ²	All, except respira- tory
1920				
January	275.0	142.9	67.4	64.7
March	126.0	37.1	34.1	54.8
April	103.9	13.2	27.4	63. 3
<u>May</u>	76.7	4.6	23.2	48.9
June	67.3	2.3	15.6	49.4
August	60.1	1.2	15.2	43.7
September	56.2	2.0	14.0	40.2
October	76.4	7.4	21.8	47.2
November	85.7	9.3	24.9	51.5
December	100.1	10.1	31.0	00.4
1921 Jenuery	134 0	20.7	37 B	75 7
February	152.5	40.7	40.5	71.3
March	128.5	25.6	30.4	72.5
April	110.6	16.7	28.3	65.6
May	76 6	3.3	10.5	58 7
July	70.6	3.1	12.7	54.8
August	87.9	4.7	18.0	65.2
September	86.7	5.2	14.7	66. 8 50 8
November	94.3	15.4	26.0	52.9
December	105. 2	19.0	26.7	59.5
1922		1		
January	138.4	36.5	36.4	65.5
February	189.6	82.2	43.2	64.2 51.2
A pril	94.7	13.1	21.3	60.3
May	80.8	6.4	17.7	56.7
June	72.2	3.8	18.2	50.2
July	72.7	3.3	14.8	04.0 55.6
September	75.5	4.3	17.6	53.6
October	75.1	9.6	19.7	45.8
November	83.0	11.4	25.0	46.6
December	120.0	20. 5	30.1	36.0
1923 Tonuow	160.0	70.0	37 4	59 B
February	205.1	109.4	39.5	56.2
March	126.6	42.5	30.7	53.4
April	99.7	18.0	25.4	56. 3 54 9
June	72.5	3.5	13.3	55.7
July	65. 5	2.7	14.8	48.0
August	75.3	4.2	15.2	55.9
October	77 4	78	22.6	49.0
November	85.0	9.5	21.3	54.2
December	74.6	11.3	18.6	44. 7
1924				
January	125.9	24. 8 32 A	32.9	68.2 71 1
March	124.6	32.2	29.3	63. 1
April	116.7	23.8	27.1	65.8
May	94.3	11.2	19.3	63.8
June Inly	80.2 77.1	3.8	10.0	58.7
August	76.9	4.1	13. 5	59.3
September	84.9	8.4	18.8	57.7
UCTODET	91.1 104 9	20.9	20.7	57.5 50.9
December.	105.0	23.4	26.8	54.8

TABLE 8.—Frequency of specified disease groups, by month of onset, 1920–1927, among a group of wage earners 1

¹ Annual number of cases per 1,000 persons employed in establishments sending morbidity reports to the Public Health Service. Only those disabilities from sickness and nonindustrial accidents which lasted 8 days or longer are included, except in 1920, when a few 7-day cases were included. Certain diseases are not reported, as explained in the text. ¹ Tuberculosis of the lungs and diseases of the pharynx and tonsils are included in the respiratory group.

	Number of cases per 1,000 persons per year						
Month of onset of disability	All diseases	Influenza and grippe	Respira- tory, except influenza and grippe	All, except respira- tory			
1925							
January	145.9	34.9	36.7	74 3			
February	150.3	41.4	35.8	73 1			
March	162.4	56.7	35.3	70.4			
April	130.9	32.2	29.0	69.7			
Mav	102.5	15.8	20.2	66.5			
June	90.8	5.1	16.5	69.2			
July	87.8	5.2	15.1	67.5			
August	94.6	8.5	19.1	67.0			
September	. 84.1	8.5	16.4	59.2			
October	95.2	17.4	19.9	57.9			
November	96.1	17.8	23.3	55.0			
December	103. 7	18.2	29. 3	56. 2			
1926							
January	145.3	31.0	37.4	76.9			
February	168.9	62.7	37.7	68.5			
March	223.3	115.6	40.9	66.8			
April	149.5	55.1	26.1	68.3			
May	104.3	16.7	25.5	62.1			
June	91. 2	7.2	21. 2	62.8			
July	87.0	3.5	16.7	66.8			
August	92.8	5.5	16.5	70.8			
September.	94.2	8.5	20.6	65.1			
October	98.4	13.1	20.8	64.5			
November	104.2	17.5	26.1	60.6			
December	121.5	28.6	28.7	64.2			
1927							
January	147.4	42.1	34.2	71, 1			
repruary	137.7	35.9	26.8	75.0			
	130.0	29.4	33. 5	67.1			
April	115.0	23.2	20.0	65.2			
IVIBY	101.6	13.7	24.2	03.7			
J UII0	80.3	0.7	10.9	02.7			
July	92.1	0.1	10.4	09.0			
August	00.2	9.0 11 E	10.0	00.7 64 F			
October	50.8	11.0	20.0	09.0			
VCWDer	99.5	10.1	22.8	01.0			
December	101.3	10.2	24.0	00.0			
	100.1	19.1	24.0	30. 3			

TABLE 8.—Frequency of specified disease groups, by month of onset, 1920-1927, among a group of wage earners—Continued

Summary

1. Although statistics of sickness frequency based upon the claims for sickness benefits of members of industrial mutual associations do not for various reasons actually measure the incidence of disability which lasts more than one week, they do afford some knowledge of the sickness experience of a sample of the industrial population.

2. Respiratory diseases were reported as the cause of 41.8 per cent of the claims for illness benefits; digestive diseases, 13.7 per cent; and external causes (nonindustrial accidents), 10 per cent. These three groups, accordingly, accounted for virtually two-thirds of the cases for which sick benefits were paid by associations reporting to the United States Public Health Service. 3. In the respiratory group influenza and grippe were of outstanding importance, accounting for nearly one-half of all the respiratory cases recorded during the seven years ending December 31, 1927.

4. In the digestive group diseases of the stomach (not including cancer), appendicitis, diarrhea and enteritis, and hernia were the most important numerically, in the order named, 1921-1927.

5. Next to the digestive diseases the circulatory-urinary group showed the largest number of cases, followed by rheumatism (acute and chronic). Diseases of the nervous system, diseases of the skin, diseases of the organs of locomotion, and the epidemic and endemic diseases constituted the remaining groups of importance numerically.

6. The incidence rates by years, 1921-1927, showed an upward trend both for the respiratory and the nonrespiratory group of diseases. Each year since 1922 the frequency of external causes (nonindustrial accidents) has been larger than in the preceding year. Influenza and grippe principally accounted for the upward trend in the respiratory incidence rates. Among the nonrespiratory diseases digestive diseases and the circulatory-urinary group showed the most perceptible increases.

7. The frequency of cases according to their duration in weeks was ascertained for 1922-1924 and for 1925-1927 in the 15 associations which reported continuously throughout both periods. In 1925-1927 there was a lower rate of cases lasting 8 to 20 days than during the preceding three years, but a higher rate of cases lasting 8 weeks or longer.

8. The frequency of 8-day or longer disabilities was 50 per cent higher among female than among male industrial employees, 1921-1927, although the comparison excluded nearly all diseases which were not common to both sexes.

9. A low sickness rate was found among employees of the iron and steel industry. The rates were especially low for neurasthenia, the digestive diseases, bronchitis, influenza, and grippe among steel workers. The incidence rate of pneumonia, however, was found to be considerably higher in steel than in the other industries represented, and a special study is in progress to determine the causes of predisposition to pneumonia in this industry.

10. The seasonal peaks of sickness incidence were determined largely by the frequency of respiratory diseases, and especially by influenza and grippe. The nonrespiratory diseases as a group also showed a tendency toward greater prevalence in winter and early spring than in the summer and autumn months.

31033°—29——2

RELATION OF ILLUMINATION TO OCULAR EFFICIENCY AND OCULAR FATIGUE

Report on Studies Made in the Chicago Post Office

Continuing the studies in illumination described in Public Health Bulletin No. 140 and in the PUBLIC HEALTH REPORTS for November 14, 1924 (Reprint No. 973), by the Office of Industrial Hygiene and Sanitation of the United States Public Health Service, a study of the relationship of illumination to ocular efficiency and ocular fatigue among the letter separators in the Chicago post office will shortly be issued as Public Health Bulletin No. 181.

This study was made in the main post office in Chicago from 1924 to 1926 in one of the sections of the mailing division. The purposes of the study were (1) to determine the degree of illumination under which the distribution of mail might be made with the greatest ease and efficiency; (2) to demonstrate ocular fatigue, if possible, and to determine its relation to different degrees of illumination; (3) to obtain any information that might add to the present knowledge of the relation of illumination to the conservation of vision.

Seventy-eight men were employed in the Wisconsin section in sorting mail, some working as day clerks and some as night clerks. General lighting was installed in the section, the intensity of the illumination under which the men worked was varied by steps from 2.74 to 10.72 foot candles, and an investigation was made on the effect of the degree of illumination upon the speed of sorting mail. This was facilitated by the record kept by the post office of the amount of mail sorted daily by each man. Early in the investigation, however, it was found that not only the intensity of illumination but also the amount of mail to be sorted and the mental attitude of the worker affected the speed of sorting. Probably, as a result of the influence of these other factors, it was found that only for the sorting of small letter mail by the night shift, where there was a continuous and heavy supply of mail, could a marked relation be detected between degree of illumination and rate of sorting. In this case, in going from an illumination of 2.7 to 10.7 foot candles there was found to be an increase of about 8 per cent in the speed of sorting.

On account of the difficulty in obtaining definite results for the routine sorting of mail, it was decided early in the investigation to parallel the routine sorting of mail with tests on the sorting of 1,000 specially prepared cards under varying degrees of illumination, from 2.41 to 17.67 foot candles. These tests showed a marked relation of speed of sorting to degree of illumination, the "looking time," or the approximate time required to read the addresses on the cards, decreasing about 8 per cent when the illumination was increased from 2.5 to 10 foot candles.

In an attempt to find the effect of the degree of illumination upon ocular fatigue, a special piece of apparatus was designed in which a broken circle was exposed as a test object for 0.011 of a second, and the subject being examined was required to tell the direction of the break in the circle. This is believed to involve a special form of visual acuity, which might by analogy be called "snap acuity," since the time of exposure is so short that accommodation and fixation in this case are negligible. The subject was tested shortly after beginning work in the morning and again shortly before stopping work in the afternoon. Snap acuity was found to be slightly lower at the close of the day's work than at the beginning, but no relation was observed between snap acuity and the degree of illumination under which the subject had been working. It was found, however, that snap acuity improved after the subjects had worked under high illumination for a sufficient length of time, and correspondingly decreased after working under low illumination. This phenomenon has never been observed before and is very important if it can be confirmed.

Periodical examinations were made of the eyes of the men. They showed that the percentage of refractive errors among the clerks examined was rather large. Fifty per cent of them wore glasses. The percentages of other ocular defects found during the examinations seem to agree with those previously found by the United States Public Health Service and other investigators.

CENSUS OF LEPERS IN MEXICO 1

The first census of leprosy in Mexico was published in the Official Bulletin of the Department of Public Health, No. 3, 1927. Of the 2,272 municipalities in the country, only 435 could complete the statistical study, since 1,333 lack doctors, and the doctors of 81 towns did not answer, nor did the municipal presidents of the towns lacking doctors. Of the 285 hospitals, sanitariums, and health resorts, only 186 answered. The census registered 1,450 lepers: 734 of tubercular form, 262 nervous, 253 mixed, and 201 not stated. If the 15,151,695 inhabitants which the Republic had in 1910 are considered, there is 1 leper for each 10,449 persons; but if only the number which the census covered is considered, which is 6,956,657, there is then 1 leper for each 4,797. As to distribution per unit area, there is 1 leper per 1,370 square kilometers [1 to 528 square miles]. The greatest incidence is in the Territory of Quintana Roo, in which there is 1 leper for each 836 inhabitants; Sinaloa follows with 1 per 1,377; Jalisco with 1 per 2,152; Lower California with 1 per 2,395; Yucatan with 1 per 2,413; Morelas with 1 per 2,562; the Federal District with 1 per 2.970: Queretaro with 1 per 3.262: Guerrero with 1 per 3.370: Micho-

¹ From the Boletín de la Oficina Sanitaria Panamericana, for February, 1929, p. 109.

acán with 1 per 3,376; Colima with 1 per 3,398, these jurisdictions being the ones most affected by the scourge. On the other hand, the State of Tlaxcala is free; Hidalgo has 1 per 62,912; Tabasco, 1 per 59.805; Mexico, 1 per 42.816; Puebla, 1 per 18,532; San Luis Potosi, 1 per 17,706; and Vera Cruz, 1 per 12,353. As to place of origin, 202 are from Jalisco, 176 from Guanajuato, 156 from Michoacán, and 140 from Sinaloa; 22 are foreign lepers, 15 of them Asiatic-Chinese and Japanese; in 244 cases the place of origin is unknown. Nineteen persons are known to have contracted the disease in a foreign country; 9 in the United States; 4 in China; 3 in Spain; and 3 in Central America, Habana, and Korea. The age distribution is as follows: Up to 9 years, 18; from 10 to 19, 65; from 20 to 29, 352; from 30 to 39, 214; from 40 to 49, 312; over 50, 118; and 251 of unknown age. Of these victims, 795 are males, 456 females, and 199 whose sex was not given. As regards their marital status, 407 are single, 428 married, 116 widowed, and 499 whose condition is not known. The statistics show that 158 lepers are rural dwellers, 87 of domestic occupation, 77 day laborers, and 63 farmers. The data referring to the age at which the disease appeared show that in only 24 cases did it occur under the age of 9 years, compared with the largest number, 216 occurring in the age group 20 to 29 years. Above 50 years it is even more rare than under 9, since only 23 individuals contracted it after that age. In the 652 cases in which it was possible to ascertain the form of transmission of the disease, it is shown that in 359 cases it was acquired by contact, not so acquired in 197 cases, and attributed to heredity in 96. Of the 1,450 lepers, 503 have open lesions, 484 do not have them, and this information concerning 463 is unknown. In the Republic there are 571 lepers living in crowded, filthy, and miserable conditions, a constant menace to society; only 344 have good hygienic conditions; and the living conditions of the others are not known.

COURT DECISIONS RELATING TO PUBLIC HEALTH

State narcotic law upheld.—(Kansas Supreme Court; State v. Lovell, 272 p. 666; decided December 8, 1928.) The defendant, convicted of the possession and sale of morphine in violation of chapter 241 of the laws of 1927, on appeal asserted that the said statute was unconstitutional. The basis for this claim and the supreme court's rejection thereof are shown by the following paragraphs from the opinion:

It is argued that the narcotic law (Laws 1927, c. 241) is unconstitutional, because it discriminates against physicians and others, in that it does not protect them, as does the Federal law, and that it discriminates against and fails to protect common carriers and others who are exempted by the Federal law; that under its provisions any of those mentioned are subject to arrest and prosecution; also, that the punishment thereunder is cruel because it is unscientific; that practically all possessors of narcotics are users, and that the legislature should provide for treatment and cure, instead of punishment.

The contention of the defendant can not be sustained. The State is not forbidden to enact such a law as that under consideration, nor is it limited by the fact that the provisions of the Federal act differ in some respects from our statute. Then, too, it is a matter of general knowledge that penal institutions of this State are equipped with hospital wards for the cure of those afflicted with such ailments. Moreover, the contention of the defendant that most of the possessors of narcotics are users carries no weight, so far as he is concerned, because he testified that he was not a user of narcotics.

Statutory provision relative to suspension of physician's or pharmacist's license when convicted of violation of Federal narcotic statutes held void.—(Iowa Supreme Court; In re Breen, 222 N. W. 426; decided December 14, 1928.) A physician's license was suspended upon his conviction in the Federal court for violation of the Federal statutes and regulations relating to narcotics. Such suspension was provided for by section 2110, Code 1927, which reads as follows:

When a physician or pharmacist, licensed under the laws of this State, is convicted in any Federal court of this State of a violation of the Federal statutes or regulations relating to intoxicating liquors, or to narcotics, and said judgment has become final, the county attorney of the county where said physician or pharmacist resides shall forthwith file in the office of the clerk of the district court of said county a duly certified copy of said judgment and thereupon said district court, or a judge thereof, shall, on such notice to the defendant in said judgment as the court or judge may prescribe, enter an order suspending for a period of not less than one year nor more than five years the license of such physician or pharmacist to practice his profession in this State. * *

The act (senate file 283, 40th general assembly, extra session), in which section 2110 originated and was contained, was entitled "An act to amend, revise, and codify sections 920 to 951, inclusive, of the compiled code of Iowa, relating to the sale and transportation of intoxicating liquors under permits." Section 2110 was not in the bill as introduced, but was inserted by committee amendment without change of title.

On appeal by the physician, the supreme court reversed the suspension on the ground that the statutory provision concerning suspension was void because in violation of the constitutional provision requiring that an act shall embrace but one subject and that the subject shall be expressed in the title. In concluding its opinion, the court said:

* * * Whether read in connection with antecedent and contemporaneous legislation, State and Federal, or whether interpreted by popular understanding of the language used, the title to senate file 283, 40th Ex. G. A., was after the amendment in question as to the matter thereof misleading and deceptive. Moreover, the subject of physician's liability to revocation of his professional license because of conviction in the Federal court of violation of the Federal statutes or regulations relating to narcotics is so alien to the subject matter, purpose, and scope of that act as indicated or suggested by its title that the provision therefor as contained in section 25a7 (2110; Code 1927), enacted under that title, must be held to be in violation of section 29, art. 3, of the constitution and void.

DEATHS DURING WEEK ENDED FEBRUARY 9, 1929

Summary of information received by telegraph from industrial insurance companies for the week ended February 9, 1929, and corresponding week of 1928. (From the Weekly Health Index, February 13, 1929, issued by the Bureau of the Census, Department of Commerce)

	Week ended Feb. 9, 1929	Corresponding week, 1928
Policies in force	72, 857, 493	70, 240, 787
Number of death claims	19, 472	13, 626
Death claims per 1,000 policies in force, annual rate	13. 9	10. 1

Deaths from all causes in certain large cities of the United States during the week ended February 9, 1929, infant mortaliy, annual death rate, and comparison with corresponding week of 1928. (From the Weekly Health Index, February 13, 1929, issued by the Bureau of the Census, Department of Commerce)

	Week en 9, 1	ded Feb. 1929	Annual death	Deaths ye	under 1 ar	Infant
City	Total deaths	Death rate ¹	1,000 corre- spondin g week, 1928	Week ended Feb. 9, 1929	Corre- sponding week, 1928	rate, week ended Feb. 9, 1929 ³
Total (63 cities)	8, 969	15.9	13.6	902	808	\$ 77
Akron	45			6	5	62
Albany ⁴	60	26.1	17.8	6	8	119
Atlanta	116	23.8	17.0	10	9	104
White	68			5	6	
Colored	48	(5)	(*)	5	3	
Baltimore 4	305	19.2	15.0	28	28	90
White	230			14	17	56
Colored	75	(9)	()	14	11	222
Birmingham	66	15.5	17.4	10	. 17	91
	33			6	8	90
Colored	33	(%)	(?)	4		92
Boston.	340	22.2	15.8	28	22	101
Dridgeport		19.0	10 7 1			121
Combridge	180	10.2	10. (10	/3
Camdon	37	10. 1	17.1	1 2	3	18
Centon	30	11.0	11.0	3	0	52
Chicago 4	763	12.6	11 4	85	6	90 59
Cincinneti	159	12.0	11.0	15	11	97
Cleveland	204	11 6	0.0	30	18	92
Columbus	85	14.9	12.2	14	3	131
Dallas	57	13.7	10.3	18	7	101
White	48	-011		5	5	
Colored	9	(5)	(5)	3	ž	
Davton	48	`í3.6	`í1.9	3		48
Denver.	113	20.1	15.8		9	87
Des Moines	30	10.3	10.3	1	1	18
Detroit	291	11.0	11.3	38	50	61
Duluth	29	13.0	5.8	1	1	24
El Paso	52	23.1	17.3	14	7	
Erie	36			1	1	20
Fall River 4	. 64	24.9	9.0	8	3	150
Fint	26	9.1	7.7	5	3	61
Fort Worth	34	10.4	8.6	3	3	
W Dite	20	(1)		2		
Orand Dapida		9.1	94.0	1	20	
Houston	50	11.1	11.0		11	
White	30			3	10	
Colored	12	(5)	6	11	3	
Indiananolis	03	12.7	14.8	11	11	. 88
White	ลั			ii l	-4	102
Colored	12	(5)	(5)	-ô l	71	- 0
				• •	•	

¹ Annual rate per 1,000 population. ² Deaths under 1 year per 1,000 hirths. Cities left blank are not in the registration area for births.

³ Data for 70 cities. Deaths for week ended Friday.

⁴ In the cities for which deaths are shown by color the colored population in 1920 constituted the follow-ing percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 38; Nash-ville, 30; New Orleans, 26; Richmond, 32; and Washington, D. C., 25.

D	eaths	from	all	causes	in	certain	large	cities	of	the	United	States	durin	g the	week
	endea	l Feb	rua	ry 9, .	19 2 9), infan	t mor	rtality,	aı	ınua	d death	rate,	and c	ompa	rison
	with a	corre	spon	ding u	eek	of 1928	-Co	ntinue	d					•	

	Week er 9,	nded Feb. 1929	Annual death rate per	Deaths y	Infant mortality	
City	Total deaths	Death rate	1,000 corre- sponding week, 1928	Week ended Feb. 9, 1929	Corre- sponding week, 1928	rate, week ended Feb. 9, 1929
Jersey City Kansas City, Kans	102 43	16. 4 19. 0	16.3 13.3	92	17	70 44
White Colored	. 39	(5)	(3)			25
Kansas City, Mo	136	18.2	14.6	16	12	135
White	29	14.4	17.9	3	4	73
Colored	5	(*)	(5)	0	2	0
Los Angeles	108	17.1	10.6	19	3	41
White	94			3	2	28
Lowell	56	(9)	()	5	i	113
Lynn	32	15.9	11.9	3	3	82
White	49	22.0	20.4	2	10	38
Colored	31	(³)	(5)	4	11	125
Minneapolis	93	10.7	13. 1 11. 2	11	8	68
Nashville	62	23.2	16.9	7	5	113
Colored	30 26	(5)	(5)	2	32	109
New Bedford	46			4	8	86
New Haven	148	19.8 18.0	17.5	8	10	40
White	83			3	6	21
Colored New York	65 2.042	(?) 17.7	(°) 14.4	213	183	84
Bronx borough	251	13.8	10.7	19	17	56
Brooklyn borough	709 798	16.1 23.8	11.6 21.5	89 86	70 70	90
Queens borough	211	12.9	11.1	15	21	61
Richmond borough	73	25.3	16.3	4	5	72
Newark, N. J.	121	13.4	13.4	17	15	. 90
Oklahoma City	57 37	10. 9	12.6	4	2	41
Omaha	66	15.5	14.1	6	9	70
Paterson Philadelphia	45 611	16.2 15.5	15.9 13.5	61	43	18
Pittsburgh	255	19.8	16.3	33	28	113
Portland, Oreg	79 121	22.1	13.7	3	8	. 34
Richmond	60	16.1	14.0	5	5	70
Colored	36 24	(5)	(3)	3	1	64 82
Rochester	110	17.5	13.1	. 8	9	68
St. Louis	283 63	17.4	13.9	20	20	67 62
Salt Lake City 4	37	14.0	14.0	3	8	46
San Antonio	79 61	18.9	14.9	20	1	77
San Francisco	178	15.9	13.9	15	7	96
Senattle	22 82	12.3	15.7 9.4	2	3	04 53
Somerville	32	16.3	17.8	3	2	108
Sporane	32 40	15.3 14.0	13.4 12.2	4	4	104
Syracuse	54	14.2	13.1	2	3	24
Trenton	75 43	12.5 16.2	13.5 14.3	8	5	65 145
Washington, D. C.	190	18.0	13. 5	10	14	59
Colored	128 62	(5)	()	1 1 1	10	- 51 76
Waterbury	25			5	3	127
Worcester	32 51	13.0	14.6	4	3	104 25
Yonkers	31	13.4	11.6	6	Ĩ	140
		ļ				

Footnotes on page 408.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control diesease 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 February 9, 1929, and February 11, 1928

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended February 9, 1929, and February 11, 1928

	Diphtheria		Influ	lenza	Me	asles	Meningococcus meningitis	
Division and State	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928
New England States: Maine New Hampshire Vermont	1	5 2 1	621 123 111	4 20	282 95 11	44 73 4	0 0 0	00000
Massachusetts Rhode Island Connecticut	91 10 27	117 13 43	593 84 656	14 3	442 54 374	1, 598 5 280	5 0 2	2 0 1
Middle Atlantic States: New York New Jersey Pennsylvania	257 125 156	401 145 238	¹ 413 148	1 40 31	984 254 1, 378	1, 461 423 1, 129	32 14 9	11 1 2
Last North Central States: Ohio Indiana Illinois Mistigan	40 39 130	193 49 191	150 149 215	32 30 40	346 266 597	352 162 101	2 0 17	2 0 7
Wisconsin. West North Central States: Minnesota	70 22 24	78 38 20	146 270 9	4 75	189 461 386	191 95 2	18 6 3	23
Iowa Missouri North Dakota South Dakota Nebraska	15 53 3 23	29 24 51 3 9 21	199 13 4 10	 8 10	411 39 29 24	65 97 17 14 3	3 1 18 6 0 4	1 0 4 0 2 1
Kansas South Atlantic States: Delaware	9	45	48 5	39 4	58 11	22 8	0 0	0
Maryland ² Dist-ict of Columbia Virginia	32 8	23 31	1, 136 36	· 35 1	96 3	563 36	1 0 1	1 0
West Virginia North Carolina South Carolina Georgia Florida	18 36 27 4 23	13 46 19 12 19	1, 321 2, 107 723 105	24 1, 246 220 15	65 27 58 5	85 4, 734 1, 428 196 24	2 1 0 1 0	0 1 0 0 0

New York City only.

2 Wee': ended Frida ...

(410)

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended February 9, 1929, and February 11, 1928—Continued

	Diphtheria		Infi	Influen7a		asles	Meningococcus meningitis	
Division and State	Week ended Feb. 9 1929	Week ended Feb. 11 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928
East South Central States: Kentucky Tennessee Alabama Mississippi West South Contral States.	15 10 27 11	5 14 33 27	229 845 1, 108	11 115 287	15 43	296 329 192	0 2 4 1	020
Arkansas. Louisiana. Oklahoma ³ Texas.	11 24 16 77	13 23 23 48	771 739 885 5, 319	189 71 221 146	7 30 5 47	491 197 134 195	1 2 13 4	0 0 2 1
Mountain States: Montana. Idaho Wyoming. Colorado	2 15	11 2 41	55 26 28		214 5 3 4	3 23 82	6 2 1 5	7 0 1 16
New Mexico Arizona Utah ³ Pacific States: Washington	10 11 2	3 24 	10 24 4	47 1 3	12 2	151 27 3	1 12 8	0 6 1
V asingcon Oregon California	18 63	16 113	110 56 112	29 56	127 49	46 149	2 15	0 10
	Poliomyelitis		Scarle	t fever	Smal	lpox	Typhoi	d fever
Division and State	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928
New England States: Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	0 0 1 0 1	0 0 2 0 0	10 35 0 278 21 43	27 40 12 356 44 114	9 0 4 0 0	0 0 0 0 0 6	1 0 1 1 0 0	2 0 0 6 1 2
Middle Atlantic States: New York New Jersey Pennsylvania	4 1 0	3 0 4	440 166 444	828 306 605	0 0 0	16 1 0	9 1 12	14 6 16
Bast North Central States: Ohio Indiana Illinois. Michigan Wisconsin	0 0 0 1 0	3 0 2 3 4	210 248 417 349 141	415 143 366 363 196	37 109 103 35 17	27 101 42 32 14	15 1 2 1 1	7 5 19 7 2
West North Central States: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Konsee	0 0 1 0 1	0 0 0 2 1	185 118 92 42 38 101 127	159 102 109 47 90 101 128	2 85 25 0 12 69 33	1 66 62 3 9 53	5 1 0 0 0 1	3 2 0 4 0 3 0
South Atlantic States: Delaware Maryland ³ District of Columbia	0 1 0	0	2 77 22	2 62 42	0 0 0	0	0 1 0	050
Virginia. West Virginia. North Carolina. South Carolina. Georgia. Florida.	0 0 0 0 0	1 0 1 0 0	34 47 20 15 10	56 46 6 11 18	6 17 0 0 0	41 142 15 0 10	5 0 1 2 13	14 2 4 4 2

² Week ended Friday.
 ³ Figures for 1929 are exclusive of Oklahoma City and Tulsa and for 1928 are exclusive of Tulsa.

February 22, 1929

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	Polion	nyelitis	Scarle	t fever	Sma	llpox	Typho	id fever
Division and State	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Feb. 11, 1928	Week ended Feb. 9, 1929	Week ended Fen. 11, 1928
East South Central States:								
Kentucky	0	0	75	38	14	13	3	3
Tennessee	Ō	i i	41	26	1 1	10	Å Å	5
Alabama	Ŏ	1 Ō	31	14	1 Ā	10	Ĭ	i š
Mississippi	Ō	Ŏ	15	20	2	ii.	1	ĬĂ
West South Central States:	-	-			-		-	-
Arkansas	0	0	36	66	5	10	3	7
Louisiana	Ŏ	Ŏ	36	17	7	· 23	Ř	i nò
Oklahoma i	· ŏ	i	27	46	29	135	Š	18
Texas	ŏ	Ō	76	110	82	120	3	6
Mountain States:							v	v
Montana	0	0	16	20	12	27	6	0
Idaho	ŏ	ŏ	15	- 3	29	2	ŏ	ŏ
Wyoming	ŏ	ŏ	19	24	Ĩ	2	ň	ň
Colorado	ň	ň	21	137	14	14	2	, š
New Mexico	ĭ	- Â	10	31	1	10	ĩ	จี้
Arizona	Ô	ŏ	3	13	3	16	1	9
Titeh 1	ň	ĭ	10	10	2	10	â	1
Pacific States	v	-	10			-	v	1
Washington	0	1	41	48	45	70		
Oregon	Ň	2	35	20	49		á	ž
California	2	12	303	199	24			Ŷ
Camor ma	-	14	300	100	~~	20	0	ð

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended February 9, 1929, and February 11, 1928—Continued

¹ Figures for 1929 are exclusive of Oklahoma City and Tulsa and for 1928 are exclusive of Tulsa.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- my o- litis	Scarlet fever	Small- pox	Ty- phoid fever
				· · ·					
1	14	4		6		7	78	75	8
			· · ·						
9.	106	4, 572	389	135	31	0	134	9	31
1	57	884		16		1	50	42	4
ō	336	34. 501	1.026	37	366	11	101	14	186
4	7	710		131		2	96	58	7
5					· •				
45	34	493		18		Q	31	32	0
8	144	9,741	12	1,545	3	1	242 164	0	0 15
	Menin- gococ- cus menin- gitis 1 9 	Menin- cus menin- gitis 1 14 9 106 355 1 57 0 336 4 7 45 34 8 144 7 103	Menin- gococ- cus gitis Diph- theria Influ- enza 1 14 4 9 106 4, 572	Menin- gococ- cus gitis Diph- theria Influ- enza Ma- laria 1 14 4 9 106 4, 572 389 0 356 6, 516 4 7 710 45 34 493 7 103 48, 565 12	Menin- gococ- cus gitis Diph- theria Influ- enza Ma- laria Mea- sles 1 14 4 6 9 106 4, 572 389 135 57 356 6, 516 28 0 336 34, 501 1,026 31 45 34 493 18 8 144 9, 741 13 45 344 505 12 117	Menin- cus menin- gitis Diph- theria Influ- enza Ma- laria Mea- sles Pel- lagra 1 14 4 6 9 106 4, 572 389 135 31 1 35 6, 516 28 1 336 34, 501 1, 026 37 366 4 7 710 131 45 34 493 1, 545 45 34 9, 741 1, 545 7 103 48, 565 137 38	Menin- gococ- cus gitis Diph- theria Influ- enza Ma- laria Mea- sles Pel- lagra Polio- mye- litis 1 14 4 6 7 9 106 4,572 389 135 31 0 1 35 6,516 28 0 0 336 34,601 1,026 37 366 11 45 34 493 18 2 45 34 9,741 12 117 3 0	Menin- gococ- cus gitis Diph- theria Influ- enza Ma- laria Mea- sles Pel- lagra Polio- mye- litis Scarlet fever 1 14 4 6 7 78 9 106 4, 572 389 135 31 0 134 1 35 6, 516 28 0 91 1 336 4, 501 1,026 377 366 11 101 4 7 710 131 2 96 45 34 493 1,545 0 31 7 103 48,555 12 117 3 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Cases 1

104

16

26

142

14

73

567

249

1

179

2

4

-- 446 -- 30

-- 4

-- 13

1 27 1

58

November, 1928	Cases	Undulant fever:
South Dakota:		South Carolina
Chicken pox	54	Vincent's angina:
Mumps	28	Colorado
Whooping cough	30	Whooping cough:
		Arkansas
December, 1928		Colorado
Chicken pox:		Florida
Arkansas	178	South Carolina
Colorado	298	South Dakota
Florida	62	
South Carolina	226	January, 1929
South Dakota	62	Chicken pox:
Dengue:		Arizona
South Carolina	41	Connecticut
Dysentery		Tennessee
Floride	1	Conjunctivitis:
German measles:	•	Connecticut
Colorado	13	German meesles.
Hockworm disease	10	Connecticut
South Carolina	105	Lothergia encenhalitie:
South Catolina	100	Tennessee
Colorado	9	Mumpe
	o	Arizono
Arbanaa	E 1	Connectiont
Arkansas	102	Тарразие
	103	Tennessee
Fiorida	10	Rables in animals:
South Carolina	21	
South Dakota	y	Septic sore throat:
Ophthalmia neonatorum:		Connecticut
South Carolina	11	Tetanus:
Paratyphoid fever:	-	Connecticut
Florida	1	Trachoma:
South Carolina	3	Arizona
Rabies in animals:		Connecticut
South Carolina	20	Tennessee
Rabies in man:		Trichinosis:
Florida	1	Connecticut
Scabies:		Tularaemia:
Colorado	3	Tennessee
Septic sore throat:		Undulant fever:
South Carolina	10	Arizona
Fularaemia:	- 1	Whooping cough:
South Carolina	2	Arizona
Гурhus fever:		Connecticut
Florido	1	Tennessee

ADMISSIONS TO HOSPITALS FOR THE INSANE, JULY, 1928

Reports for the month of July, 1928, showing new admissions to hospitals for the care and treatment of the insane, have been received by the Public Health Service from 104 institutions located in 35 States, the District of Columbia, and the Territory of Hawaii. These hospitals reported a total of 157,374 patients on July 31, 1928, including those on parole. The following table shows the number of new admissions for the month of July, 1928, by psychoses:

Denhau	Numbe	r of first a	dmissions
rsycnoses	Male	Female	Total
1. Traumatic psychoses. 2. Senile psychoses. 3. Psychoses with cerebral arteriosclerosis. 4. General paralysis. 5. Psychoses with cerebral syphilis. 6. Psychoses with Huntington's chorea. 7. Psychoses with brain tumor. 8. Psychoses with other brain or nervous disease. 9. Alcoholic psychoses. 10. Psychoses with other brain or nervous disease. 12. Psychoses with other somatic diseases. 13. Manic-depressive psychoses. 14. Involution melancholia 15. Psychoses with other somatic diseases. 16. Paranoia and paranoid conditions. 17. Epileptic psychoses. 18. Psychoses with mental deficiency. 19. Psychoses with mental deficiency. 20. Psychoses with mental deficiency. 21. Undiagnosed psychoses. 22. Without psychosis.	10 158 145 217 30 29 134 26 25 164 15 35 164 19 345 57 21 17 7 47 47 126	$\begin{array}{c} 1\\ 120\\ 94\\ 500\\ 23\\ 2\\ 1\\ 222\\ 23\\ 33\\ 278\\ 449\\ 211\\ 277\\ 6\\ 35\\ 93\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33$	$\begin{array}{c} 111\\278\\239\\267\\53\\4\\1\\51\\157\\33\\40\\452\\623\\83\\82\\28\\28\\28\\219\\159\end{array}$
Total	1, 757	1, 221	2, 978

The 104 institutions, on July 31, had 83,862 male patients and 73,512 female patients, giving a ratio of 114 males per 100 females.

At the end of the month 8.7 per cent of the total patients were on parole—9 per cent of the male patients, and 8.4 per cent of the female patients.

Fifty-nine per cent of the new admissions were males and 41 per cent were females, giving a ratio of 144 males per 100 females.

Cases of dementia praecox constituted 20.9 per cent of the first admissions; manic-depressive psychoses, 13.6 per cent; senile psychoses, 9.3 per cent; general paralysis, 9 per cent; psychoses with cerebral arteriosclerosis, 8 per cent; undiagnosed psychoses, 7.4 per cent; and 5.3 per cent were recorded as without psychosis.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 96 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,285,000. The estimated population of the 89 cities reporting deaths is more than 29,710,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

	1929	1928	Estimated expectancy
Cases reported			
Diphtheria:	1 1 100	0.974	
46 States	· 1, 390 657	1 147	1 084
90 Cities	007	1, 147	1,001
Michaeles.	6, 965	14,660	
96 cities	1,663	4,094	
Poliomvelitis:	-,		1
46 States	14	61	
Scarlet fever:			1
46 States	4, 693	5, 635	
96 cities	1, 402	1, 603	1,607
Smallpox:	1 001	1 407	
46 States	1,061	1,437	
96 cities	40	120	01
Typhoid fever:	105	947	
46 States	140	41	39
96 cities		14	
Deaths reported			
Influenza and pneumonia:	0.000	070	
89 cities	2,033	810	
Smallpox:		1	
89 cities	4	1	
Raleigh, N. C.		0	
Terra Haute, Ind	٧J	1	<u> </u> -

Weeks ended February 2, 1929, and February 4, 1928

City reports for week ended February 2, 1929

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1920 is included. In obtaining the estimated expectancy the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Chick-	Diph	theria	Influ	lenza	Mea-	N	Pneu-
Division, State, and city	Population, July 1, 1928, estimated	en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	sles, cases re- ported	cases re- ported	monia, deaths re ported
NEW ENGLAND									
Maine: Portland	78, 600	2	2	0	29	4	35	0	9
New Hampshire: Concord Manchester Neshua	(1) 85, 700 (1)	0 0 0	0 1 0	0 0 0		4 7 2	0 0 0	0 0 0	3 5 1
Vermont: Barre Burlington	(1) (1)	0 3	0 1	0 0		1 0	0 0	5 12	0 3
Massachusetts: Boston Fall River Springfield	799, 200 134, 300 149, 800 197, 600	36 4 6 5	50 4 3 5	20 2 6 2	164 6 2 12	16 7 1	8 11 117 11	16 0 0 0	111 13 10 5
Rhode Island: Pawtucket Providence	73, 100 286, 300	3	1 11	02	61	0 9	4 25	0 2	10 28
Connecticut: Bridgeport Hartford New Haven	(1) 172, 300 187, 900	2 4 22	8 9 2	4 7 5	78 12 22	10 7 3	10 3 5	0 3 0	10 18 9
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse	555, 800 6, 017, 500 328, 200 199, 300	17 191 13 8	18 234 14 5	15 189 1 1	8 778 60	3 124 3 0	3 67 21 2	5 81 13 4	50 492 20 7

1 No estimate of population made.

••••••••••••••••••••••••••••••••••••••	1		Diph	theria	Influ	lenza			
Division, State, and city	Population, July 1, 1928, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
MIDDLE ATLANTIC-con.									
New Jersey: Camden Newark Trenton Pennsylvania:	135, 400 473, 600 139, 000	6 19 1	8 19 5	4 31 1	1 63 3	2 3 3	1 6 0	0 45 0	5 30 7
Philadelphia Pittsburgh Reading Scranton	2, 064, 200 673, 800 115, 400 144, 700	90 29 2 1	79 29 3 5	25 5 3 0	45	16 13 4 0	32 13 48 8	4 6 0	94 38 4 0
EAST NORTH CENTRAL									
Cincinnati Cleveland Columbus Toledo Indiana:	413, 700 1, 010, 300 299, 000 313, 200	11 65 0 28	11 39 5 8	4 18 1 2	35 45 8	6 16 7 7	0 159 8 3	0 5 0 8	24 32 8 8
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	105, 300 382, 100 86, 100 73, 500	2 44 0 3	4 9 1 1	3 2 1 2		0 3 0 1	0 33 4 10	0 7 0 1	0 19 .4 6
Chicago Springfield	3, 157, 400 67, 200	91 5	89 1	84 0	26 9	11 5	127 1	8 0	90 1
Michigan: Detroit Flint Grand Rapids Wisconsin:	1, 378, 900 148, 900 164, 200	64 8 5	59 6 3	38 2 2	37 1	20 1 1	13 0 23	19 1 3	50 3 5
Kenosha Milwaukee Racine Superior	56, 509 544, 200 74, 400 (1)	7 69 24 0	1 22 2 0	0 8 1 0	1 6 1 0	0 5 0 0	8 159 110 0	0 19 0 1	1 19 2 2
WEST NORTH CENTRAL Minnesota: Duluth Minneapolis St. Paul	116, 800 455, 900 (¹)	2 85 19	1 21 12	1 5 0	29	3 4 1	1 142 33	33 26 20	0 9 8
Davenport Des Moines Slour City Waterloo Missouri:	(1) 151, 900 80, 000 37, 100	1 0 11 0	1 3 1 1	0 2 0 0			0 0 2 1	0 0 1 31	
Kansas City St. Joseph St. Louis North Dakota:	391, 000 78, 500 848, 100	16 8 22	8 2 51	6 0 27	14	2 1 4	157 11 6	0 0 4	21 4
Grand Forks South Dakota:	(1) (4)	1	0	0		0	1 1	1	3
Aberdeen Sioux Falls	(1) (1)	1 0	0	0			4 244	0	
Omaha	222, 800	3	4	6		o	0	0	11
Topeka Wichita	62, 800 99, 300	21 8	2 4	1	6	3 1	46 0	0 1	5 2
SOUTH ATLANTIC Delaware: Wilmington	128, 500	1	3	1		0	19	0	10
Baltimore Cumberland Frederick	830, 400 (1) (1)	80 0 0	34 0 0	19 0 0	419 4 6	19 1 0	4 6 0	92 1 0	49 0 0
Washington	552, 000	32	22	9	87	12	3	0	36
Lynchburg Norfolk Richmond Roanoke	38, 600 184, 200 194, 400 64, 600	3 4 0 2	2 1 5 1	3 0 8 2	2 7	1 1 5 1	0 0 0 2	11 23 2 1	4 10 7 0
Wheeling	55, 200 (¹)	2 1	0	0 1	5 44	1	5 14	0 26	3 1

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City reports for week ended February 2, 1929-Continued

1 No estimate of population made.

			Diph	theria	Influ	lenza			Pneu
Division, State, and city	Population, July 1, 1928, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	monia, deaths re- ported
SOUTH ATLANTIC-con.									
North Carolina: Raleigh Wilmington Winston-Salem South Coroline:	(1) 39, 100 80, 000	4 7 6	0 1 0	0 1 4		0 1 0	0 0 0	0 0 1	0 1 2
Charleston	75, 900	0	1	1	61	6	0	0	4
Greenville	50, 600 (1)	0	Ŭ	1		0	0	2	ō
Georgia: Atlanta Brunswick Savannah Florida:	255, 100 (1) 99, 900	2 1 0	3 0 1	2 0 2	75 38	4 0 3	2 0 0	2 0 0	12 1 5
Miami Tampa	156, 700 113, 400	5 2	3 1	2 2	6 5	03	0	2 0	13
EAST SOUTH CENTRAL	,	_							
Kentucky: Covington Louisville Tennessee:	59, 000 329, 400	0 2	0 5	0 3		1 2	0 1	0 0	5 28
Memphis Nashville Alabama:	190, 200 139, 600	7 1	4	3 0	315	11 9	0 0	0 0	6 7
Birmingham Mobile Montgomery	222, 400 69, 600 63, 100	2 1	3 0 1	0 3	7 5	2 0	0 1	0 0	0 0
WEST SOUTH CENTRAL									
Arkabsas: Fort Smith Little Rock	(1) 79, 200	0 2	0 1	1 0	0 13	0	0 2	1 2	2
Louisiana: New Orleans Shreveport	429, 400 81, 300	6 3	13 2	6 1	13	14 2	6 0	0 0	17 3
Oklahoma City Tulsa	(1) 170, 500	0 6	1 3	0 2	20	5	0 0	0 4	5
Dallas Fort Worth Galveston Houston San Antonio	217, 800 170, 600 50, 600 (¹) 218, 100	6 6 1 2 0	7 3 1 6 2	2 15 2 10 3	9	10 3 1 1 15	0 3 0 0 1	0 2 0 0 0	11 7 3 9 4
MOUNTAIN									
Montana: Billings Great Falls Helena	(1) (1) (1)	5 4 0	0 1 1	0 0 0		0	1 61 0	0	0 0 0
Missoula Idaho: Boise	(¹) (¹)	0 2	0	0		0	13	0	0
Colorado: Denver Pueblo	294, 200 44, 200	21 6	12 2	4 0	12	1 0	4 0	17 1	12 1
Albuquerque	(1)	0	0	1	2	1	0	0	2
Salt Lake City Nevada:	138, 000	31	3	4		3	1	68	···· 4
Reno.	()	0	0	U		U I	U U	° I	
Washington: Seattle Spokane Tacoma	383, 200 109, 100 110, 500	25 3 4	5 3 3	3 0 0		0	0 20 1	3 0 16	2
Portland Salem	(1) (1)	$\begin{array}{c} 15\\2\end{array}$	0	10 0	11 10	2 0	33 5	6 1	10 1
Los Angeles Sacramento San Francisco	(1) 75, 700 585, 300	55 11 40	46 3 23	10 1 13	72 20	7 1 5	14 1 5	22 11 2	26 5 3

¹ No estimate of population made.

<u></u>	Scarlet fever			Smallpo	x	Typhoid fever				Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland	4	2	0	0	· 0	1	1	1	1	0	30
New Hampshire: Concord	0	0	0	· 0	0	3	0	0	0	0	22
Manchester	3	3	Ŏ	Ŏ	Ŏ	Ŏ	Ŏ	Ŏ	Ŏ	Ŏ	24
Vermont:		U	Ŷ			0	0	0	0	0	
Barre Burlington		1 0	0	0	0	10	0	0	0	2	49
Massachusetts: Boston	87	75	0	0	0	25	1	0	0	28	410
Fall River	4	3	Ŏ	Ŏ	Ŏ	5	Ó	Ŏ	Ŏ	2	64
Worcester	10	10	ŏ	ŏ	ŏ	3	1	ŏ	ŏ	15	46
Rhode Island: Pawtucket	2	6	0	0	0	0	0	0	0	0	29
Providence	12	21	0	0	0	0	1	0	0	3	116
Bridgeport	13	3	0	0	0	0	0	0	0	0	54
New Haven	10	3 1	ŏ	ŏ	0	2	Ő	Ŭ	ŏ	3 6	67
MIDDLE ATLANTIC											
New York:		40				10					100
New York	30 319	40 215	0	0	0	19 129	8	7	ŏ	34 55	188 2, 189
Rochester	14 17	5	0	0	0	3	1	1	0	27 34	116
New Jersey:		10	ů	ů			ů				
Newark	35	10	Ő	Ő	ŏ	10	1	Ő	ŏ	13	135
Pennsylvania:	6	3	0	0	0	4	0	0	0	0	52
Philadelphia Pittsburgh	106	69 25	0	0	0	43	2	1	0	78	613 213
Reading	4	5	ŏ	ŏ	ŏ	3	ŏ	ŏ	Ō	2	; 45
Scranton	5	Ů	0	0	0	0	U	0	0	1	
EAST NORTH CENTRAL								1			
Ohio:			.								14-
Cleveland	49	11	5	Ő	, Ö	11	ő	U 0	ő	34 73	165 229
Columbus Toledo	14 14	6 17	1	0	0	7	0	0	0	13	108 85
Indiana:						,					19
Indianapolis	13	26	12	ō	ŏ	5	ŏ	ŏ	ŏ	15	132
Terre Haute	3	0	1		0	0	0	0	8	0	21 31
Illinois: Chicago	151	112	3	3	-	58	3	2		53	761
Springfield	3	25	ŏ	ŏ	ŏ	ĩ	ŏ	ő	ŏ	4	25
Detroit	103	143	3	3	0	26	1	o	o	84	352
Flint Grand Rapids	11 13	16 7	1	1	0	03	0	0	0	3	23 40
Wisconsin:											
Milwaukee	39	54	ŏ	ŏ	ŏ	3	ŏ	ŏ	ŏ	81	155
Superior	4	3 0	03	0	0	2 1	0	0	0	4	15 17

•	Scarlet fever			Smallp) X		Т	phoid i	The second		
Division, State, and city	Cases, esti- meted expect- ancy	Cases re- ported	Cases, esti- mated expect- aucy	Cases re- ported	Deaths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	v noop- ing cough, cnacs re- ported	Deaths, all causes
WEST NORTH CENTRAL											
Minnesota: Duluth Minnespolis St. Paul	10 62 37	7 28 23	1 3 1	0 0 0	0 0 0	2 1 4	0 0 0	0 0 0	0 0 0	6 16 16	32 97 51
Davenport Des Moines Sioux City Waterloo	1 7 2 2	2 20 0 35	2 2 1 0	0 0 0			000000000000000000000000000000000000000	0 0 0		2 0 2 26	
Missouri: Kansas City St. Joseph St. Louis	14 3 50	17 2 20	3 0 2	1 0 0	0 0 0	6 0 11	0 0 0	0 1 0	0 0 0	10 5 44	136 29 305
Fargo Grand Forks South Dakota:	2 2 1	1 2	0 1	00	0	0	00	0	1	40	8
Sioux Falls Nebraska: Omaha	3 7	0 10	0 4	0 0	0	4	0 0 1	0		0 0 2	13 66
Topeka Wichita	2 5	5 11	0 1	0 3	0 0	1 1	0 0	0 1	0 0	6 14	28 38
Delaware: Wilmington	6	o	0	. 0	0	1	0	0	0	3	33
Maryland: Baltimore Cumberland Frederick	40 1 1	26 0 0	0 0 0	0 0 0	0 0 0	16 1 0	2 0 0	0 0 0	0 0 0	64 0 0	267 11 4
District of Colum- bia: Washington Virginia:	26	21	1	0	0	12	1	1	0	20	204
Lynchburg Norfolk Richmond Roanoke	1 3 4 1	1 0 3 6	0 1 0 0	0 0 0 0	0 0 0 0	0 0 6 2	0 0 0 0	0 0 1 0	0 0 0	2 1 1 0	14 86 11
West Virginia: Charleston Wheeling North Carolina:	2 2	0 2	0	0 0	0	3 1	1 0	0	01	46	17 24
Wilmington Winston-Salem South Carolina:	1 0 1	1 0 1	0	0 3 0	1 0 0	04	0	000	0	0 16	12 16 18
Columbia Greenville	0.	0	0	0	0	2	0	0	0	9	 9
Atlanta Brunswick Savannah Florida:	5 0 1	- 8 0 0	3 0 1	2 0 0	0 0 0	6 0 5	0 0 0	0 0 1	0 0 0	0 1 3	101 7 45
Miami Tampa	2 1	2 0	1 0	0	0 0	3 0	0 1	0 1	0	6 6	27 28
Kentucky:											
Covington Louisville Tennessee; Memphis	2 6 7	4 34 0	000	10	000	0 6 9	0	0	0	0 2 1	26 101 78
Nashville Alabama: Birmingham	3	8 1 	0 5	ŏ	Ŭ	1	0	Ŏ	Ŏ	Ō	52
Mobile	0	1	0	0	0	2	0	0	0	3	16

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							_							
	Scarle	t fever		Sma	llpo	X		Tube	BC-	T	yphoid	whoop-		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Ca re port	ses ted	Deat re- porte	hs x1	culo sis, deati re- porte	ha adle	Cases esti- mated expect ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST SOUTH CENTRAL														
Arkansas: Fort Smith Little Rock	0	1 4	0		0 1		0		ō	0	0	0	05	
New Orleans Shreveport	7 1	21 0	1 0		0 0		00	2	6	2 0	1 1	0	20	162 25
Oklahoma City Tulsa	22	4 5	3 1		1		0		0	0	1	0	03	20
Texas: Dallas. Fort Worth Galveston Houston San Antonio	4 1 0 3 2	5 13 1 2 4	2 1 0 3 0		6 26 0 0		00000		6 0 2 8 4	0 0 0 0	0 0 0 0	0 0 1 0 0	1 0 0 0	67 42 19 71 89
MOUNTAIN Montana: Billings Great Falls Helena Missoula	1 3 1 1	0 0 0 1	0 1 0 0		00000		0000		0100	0 0 0 0	000000000000000000000000000000000000000	0 0 0 0	0 1 0 0	6 13 5 0
Idano: Boise Colorado:	1	0	0		1		0		0	0	0	0	0	14
Denver Pueblo New Mexico:	14 2	3 0	2 0		0		0	1	1	0 0	0	0	90	115 2
Albuquerque Utah:	2	0	0		0		0	•	5	0	1	0	38	16
Salt Lake City_ Nevada: Reno	3 0	3 0	0		8	-	0		3 0	0	0	0	0	. 4 3 5
Washington: Seattle Spokane Tacoma	12 7 3	3 4 7	3 7 3	}	0.02		 0			0 0 0	000000000000000000000000000000000000000		10 0 1	
Oregon: Portland Salem California:	6 0	5 0	10 1	:	22 0		0 0		2	1 0	0	0 0	0 0	85
Los Angeles Sacramento San Francisco.	34 2 19	74 14 43	6 1 3		1 0 0	1	0000	20 1	0	1 0 1	2 0 1	0 0 0	20 3 35	279 31 181
	-	Mer	ningococ eningiti	cus s	'	Letha nceph	rgi ali	ic tis		Pells	Igra	Poliom	yelitis (i paralysis	nfantile)
Division, State, a	nd city	Cas	es De	aths	Ca	Ises	De	aths	C	ases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAS	ND													
Wassachusetts: Boston Worcester Connecticut:		-	0	0		0		0 1		1 0	0	1 0	0	0
MIDDLE ATLAN	NTIC		1	U		"		U	-	U	Ŭ	U	ų	U
New York: New York Rochester			40 1	17 0		5 0		1 0		0	0	1	1	0
New Jersey: Newark Trenton			1	0 0		1 0		0	. •	0	0	0	0	0
Philadelphia Pittsburgh		-	8	4		1		0		8	0	0	1	0

	Menin men	gococcus ingitis	Leth encer	hargic Shalitis	Pel	lagra	Poliomyelitis (infantile paralysis)			
• Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	
EAST NORTH CENTRAL										
Ohio:										
Cleveland	3	1	0	0	0	0	0	1	0	
Indiana:					•		Ŭ	Ū		
Indianapolis Illinois:	0	1	0	0	0	0	0	0	0	
Chicago	5	5	1	0	0	0	0	0	0	
Detroit	14	7	1	2	0	0	0	1	0	
Wisconsin: Milwaukee	4	5	1	1	0		•	0		
WEST NORTH CENTRAL	-	"	•	•	v	Ů	v	v	Ů	
Minnesota:										
Duluth.	<i>,</i> 0	1	0	0	0	0	0	0	0	
St. Paul	1	1	ŏ	ö	ŏ	Ŭ	ŏ	ŏ	0	
Missouri: Kansas City	3	2		ما	,	1	,	0		
St. Louis	2	ĩ	ŏ	ŏ	Ô	ô	ô	ŏ	ŏ	
North Dakota: Fargo	1	0	0	o	0	0	0	0	0	
SOUTH ATLANTIC	_		-	-			-		Ū	
Maryland:										
Baltimore	1	1	0	0	0	0	1	0	0	
Charleston	0	0	0	0	1	0	0	0	0	
Greenvine	v	U	۷I	U	U	1	0	U	U	
Atlanta 1	0	1	0	0	0	0	0	0	0	
Florida:	, i		1		, i	v	Ů		v	
Miami Tampa	0	0	0	0			0 0	8	0	
EAST SOUTH CENTRAL	-		-		-				•	
Kentucky:						- 1				
Louisville Tennessee:	0	1	0	0	0	1	0	0	0	
Memphis	0	2	0	0	0	0	0	0	0	
WEST SOUTH CENTRAL					1					
Louisiana: New Orleans	0	0		0	3	6			0	
Shreveport	ŏ	ŏ	ŏ	ĭ	ŏ	ŏ	ŏ	ŏ	ŏ	
San Antonio	0	0	0	. 0	ام	0	ó	1	0	
MOUNTAIN			- [-		-	_			
Montana:								. 1	-	
Colorado:	1	1	0	. 0	0	0	0	0	0	
Denver	3	0	0	1	0	0	0	0	0	
Salt Lake City	5	2	0	0	0	· 0	o	0	0	
Nevada: Reno	1	1	0	0	0	0		0	0	
PACIFIC	-1	-	•	Ĩ	Ĩ	-		Ĩ		
Washington:									ć	
Seattle	1	0	0	0	0	0	0	0	0	

¹ Typhus fever: 2 cases; 1 case at Atlanta, Ga., and 1 case at Savannah, Ga.

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Oregon: Portland. California:

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The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended February 2, 1929, compared with those for a like period ended February 4, 1928. The population figures used in computing the rates are approximate estimates, authoritative figures for many of the cities not being available. The 98 cities reporting cases had estimated aggregate populations of more than 31,000,000. The 91 cities reporting deaths had nearly 30,000,000 estimated population. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, December 30, 1928, to February 2, 1929-Annual rates per 100,000 population compared with rates for the corresponding period of 1928¹

		Week ended									
	Jan. 5, 1929	Jan. 7, 1928	Jan. 12, 1929	Jan. 14, 1928	Jan. 19, 1929	Jan, 21, 1928	Jan. 26, 1929	Jan. 28, 1928	Feb. 2, 1929	Feb. 4, 1928	
	148	3 170	139	204	\$ 132	193	4 125	194	¢ 109	194	
New England	. 163	149	183	200	179	168	201	172	109	193	
Middle Atlantic	178	202	157	254	158	253	136	252	133	279	
East North Central	153	176	124	220	\$ 107	192	122	186	106	145	
West North Central	161	96	158	111	146	139	115	131	90	113	
South Atlantic	111	3 160	118	155	99	155	4 77	149	• 105	180	
East South Central	88	105	190	56	170	105	136	84	7 58	77	
West South Central	111	243	119	207	79	·154	119	166	99	154	
Mountain	70	71	87	115	61	168	52	124	70	106	
Pacific	60	123	67	143	107	125	95	161	67	156	

DIPHTHERIA CASE RATES

MEASLES CASE RATES	ţ.
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98 cities	196	\$ 510	235	551	\$ 218	611	4 262	571	• 277	718
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain	964 80 230 198 114 14 24 383 40	917 468 265 135 21,403 2,118 203 62 384	873 94 315 394 66 7 43 427 115	$1,021 \\ 501 \\ 300 \\ 110 \\ 1,366 \\ 2,020 \\ 272 \\ 106 \\ 527$	706 70 3 302 423 84 34 12 853 57	1, 249 480 325 260 1, 624 1, 845 567 97 532	672 86 380 627 471 27 36 871 77	1, 078 484 368 139 1, 409 1, 564 1, 564 507 89 435	518 93 417 769 • 105 7 10 36 697 102	1, 508 620 358 223 1, 823 1, 823 1, 459 928 115 709
•									1	

SCARLET FEVER CASE RATES

98 cities	195	2 206	221	260	3 225	268	4 231	278	¢ 234	270
New England	296	340	317	398	296	508	319	372	305	359
Middle Atlantic	148	196	190	266	183	269	217	289	190	296
East North Central	239	233	251	285	\$ 258	286	262	301	280	289
West North Central	258	203	283	262	248	225	296	274	306	248
South Atlantic	154	2 158	124	182	122	210	4 116	191	4 132	201
East South Central	197	63	156	63	231	91	231	112	7 165	70
West South Central	142	101	182	126	190	89	103	130	150	134
Mountain	113	195	157	301	183	266	104	301	61	381
Pacific	185	· 184	282	220	389	241	267	297	362	217
							1		1	

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1929 and 1928, respectively.
 ² Atlanta, Ga., not included.
 ⁴ Wilmington, Del., not included.
 ⁴ Columbia, S. C., and Birmingham, Ala., not included.
 ⁵ Columbia, S. C., not included.
 ⁵ Birmingham, Ala., not included.

Summary of weekly reports from cities, December 30, 1928, to February 2, 1929— Annual rates per 100,000 population compared with rates for the corresponding period of 1928—Continued

SMALLPOX	CASE	RATES	
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		Week ended									
	Jan. 5, 1929	Jan. 7, 1928	Jan. 12, 1929	Jan. 14, 1928	Jan. 19, 1929	Jan. 21, 1928	Jan. 26, 1929	Jan. 28, 1928	Feb. 2, 1929	Feb. 4, 1928	
98 cities	3	¥ 17	5	23	37	22	48	23	\$ 7	21	
New England Middle Atlantic	0	0	2	0	0	0	0	0	0	0	
East North Central	6	9	3	7	10	9 101	8	12	10	9 117	
South Atlantic	ő	\$ 13	2	29	6	15	18	121	¢ 11	19	
East South Central	7	7	41	7	7	70	14	28	7 10	28	
West South Central	4	16	16	28	47	4	47	20	28	12	
Mountain	35	106	78	142	17	106	61	133	78	115	
Pacific	5	26	1	31	17	04	20	59		59	

TYPHOID FEVER CASE RATES

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
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INFLUENZA DEATH RATES

91 cities New England Middle Atlantic East North Central South Atlantic East South Central West South Central Wountain	234 48 165 238 240 343 970 596 218	2 20 16 13 10 6 2 23 130 83 53	241 100 161 236 165 395 1,592 467 165	25 7 21 13 21 40 115 67 62	3 183 143 152 148 123 289 940 333 157	26 18 19 17 28 29 153 67 71	* 131 * 206 134 70 69 4 189 615 207 70	- 20 7 16 12 15 11 100 79 80	5 83 143 82 48 57 6 116 7 253 174 35	20 9 14 13 15 25 100 46 53
Mountain	218	53	165	62	157	71	70	80	35	53
Pacific	134	24	79	37	79	17	46	20	43	34

PNEUMONIA DEATH RATES

				A 44 1441 A 14						
	383	2 175	408	196	3 366	182	^{\$} 329	164	5 274	155
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	201 395 466 216 360 533 670 174 148	103 186 140 187 238 268 241 195 175	323 443 414 285 485 659 528 200 134	179 214 158 168 243 253 291 168 142	446 446 3 280 240 474 452 398 200 125	156 193 137 205 230 207 312 186 142	9 502 454 184 189 4 385 355 308 157 128	126 183 121 147 214 169 271 177 145	511 360 170 189 6 263 7 198 199 148 118	126 178 129 73 207 146 212 204 128
					1		1		1	

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Atlanta, Ga., not included.
South Bend, Ind., not included.
Wilmington, Del., not included.
Columbia, S. C., and Birmingham, Ala., not included.
Columbia, S. C., not included.
Birmingham, Ala., not included.
Hartford, Conn., and Wilmington, Del., not included.
Hartford, Conn., not included.

February 22, 1929

Number of cities included in summary of ucekly reports, and aggregate population of cities of each group, approximated as of July 1, 1939 and 1938, respectively

Group of cities	Number of citles	Number of cities	Aggregate of cities cases	population reporting	Aggregate of cities deaths	population reporting
	C8.585	deaths	1929	1928	1929	1928
Total	98	91	31, 568, 400	31, 052, 700	29, 995, 100	29, 498, 600
New England Middle Atlantic	12	12	10, 809, 700	10, 702, 200	2,300,100	2, 273, 900
East North Central	16	16	8, 181, 900	8,001,300	8, 181, 900	8, 001, 300
West North Central	12	9	2, 712, 100	2, 673, 300	1, 736, 900	1, 708, 100
South Atlantic	19	19	2, 783, 200	2, 732, 900	2, 783, 200	2, 732, 900
East South Central	6	5	767, 900	745,500	704,200	682,400
West South Central		6	1, 319, 100	1, 209, 900	1, 200, 000	4, 400, 900
Pacific	• 6	4	2, 090, 600	2, 043, 500	1, 590, 300	1, 551, 200

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FOREIGN AND INSULAR

CANADA

Provinces—Communicable diseases—Week ended January 26, 1929.— The Department of Pensions and National Health reports cases of certain communicable diseases from seven Provinces of Canada for the week ended January 26, 1929, as follows:

Disease	Nova Scotia	New Bruns- wick	Quebec	Ontario	Mani- toba	Sas- katch- ewan	Alberta	Total
Cerebrospinal fever Influenza	2 135			5 224	1 2	1		8 360 2
Polionyelitis Smallpox		1	5 7	1 4 4		2		1 11 12

Ontario Province—Communicable diseases—Comparative—December 30, 1928–January 26, 1929.—The following table shows the number of cases of communicable diseases, with deaths, reported in the Province of Ontario for the four weeks ended January 26, 1929, as compared with the corresponding period of 1928.

	19	929	1	928.
Disease	Cases	Deaths	Cases	Deaths
Cerebrospinal meningitis	5	4	2	3
Chancroid Chicken pox	7 773	1	2 1,141	
Conjunctivitis Diphtheria	300	23	1 325	14
German measles	19		33	2
Gonorrhea Influenza	99 7, 495	323	142	11
Measues	369	400	3, 596	100
Poliomyelitis.	2		2	100
Scarlet fever	391		533	1
Smallpox	38		288 124	i
Tetanus			1	58
Typhoid fever	21 274	1	50 342	6

The following municipalities reported cases of smallpox for the period: South Dumfries, 16; Tudor and Cashel, 6; Port Arthur, 3; St. Catherines, 2; Strathroy, 2; Trout Creek, 2; Essex Border, 1; Field, 1; London, 1; Madoc Township, 1; Oshawa, 1; Shuniah, 1; Turnbury, 1.

CUBA

Habana—Communicable diseases—January, 1929.—During the month of January, 1929, communicable diseases were reported from Habana, Cuba, as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Cerebrospinal meningitis Chicken poz Diphtheria Malaria ¹	1 5 11 24	1 2	Measles. Scarlet fever. Typhoid fever ¹	291 7 14	6

¹ Many of these cases from the interior.

PERSIA

Teheran—Deaths during year ended November 21, 1928.—The following table shows the numbers of deaths reported from certain diseases in Teheran, Persia, during the year ended November 21, 1928:

Cause	Deaths	Cause	Deaths
All causes	3, 716	Scarlet fever	4
Cerebrospinal meningitis	5	Smallpox	291
Diphtheris	15	Tuberculosis	375
Measles	131	Typhoid fever	77
Poliomyelitis	29	Typhus fever	4

Estimated population-250,000.

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

From medical officers of the Public Health Service, American consuls, health section of the League of Nations, and other sources. The reports contained in the following table must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given:

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[C indicates cases: D. deaths: P. present]

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	Aug.	Sept.						м	/eek en	led						
Place	ßer 3	ซ่อัล 	Oet	4	Tovemb	er, 19 2 8			Decei	mber, 1	328		ſ	anuary	1820	
	1928	1928	27, 1928	ŝ	01	11	2		80	15	ន	8	5	12	19	8
Ceylon												0	0			
D Colombo Ingtriya Province												67	~		-	
China. Canton	-		1		/						7			-		
D Kwantung-Dairen																
Shanghai	- 01															
D D D D	32, 287 17. 731	3 17,028 10,187	4,976	5, 771 3, 096	4, 714	5, 476	5, 581 3, 369	6, 932	5, 661 3, 706							
Bassein Bombay	9	12		1											-	•
Calcutta	 48645	-486	328	-484	844	884	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	80 39 30	-88:	42%	28 15	12	33	87	13	8
D Madras Presidency	88	8	3	33	ត	31	12	16	0-	0		8		3		
Moulmein												8	-	8	80	•
Rangoon. Tuticorin							49	-0-			33		21	19	5	33
D Vizagapatam					-						19	8	15	6	15	31

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

CHOLERA-Continued

[C indicates cases; D, deaths; P, present]

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	7, 1020	19		\$ 7	565	; -	•	•	9	88-			·==	g	- 6	101	22		9	0 10	0	
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Place				Au- gust.	Sep- tember		ctober, 1	878	No	rember,	1928	Ă.	cember,	1928	Jan. 1-10.
				1928	1928	1-10	11-20	21-31	1-10	11-20	21-30	1-10	11-20	21-31	1920
Indo-China (French) (see also table above): Annan Dembodia Contin-China Tronkin			00000	≓888°-	4,8188	400	8,19°2	8 8	21	4.00	8110		852 2012	4948 464	22
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Place	Aug.	Soci Sapt	Oct.	4	ovembe	r, 1928		Ď	ember, 1	828		Janue	ry, 1020	<u> </u>	bruary, 1020
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Lenza	0												-						1
¹ During the period from Nov. 10 to Dec. 11, 19,	28, 1	3 cases	of plag	ue wer	e repor	ted at 1	El Moll	ar. Tuc	uman]	Provine	e. Arge	ntina.	Durin	g the se	ame pe	riod 1 c	a lo ese	lague v	584
eported at Chipion and 1 at Ucacha, both in Corde	oba	Provine	e, Arg	entina.	•			•							•				
² 18 plague-infected rats were reported at Bueno	S AI	res, Ari	tenting	, from	July 1	to Dec.	31, 1925					•							

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

PLAGUE-Continued

[C indicates cases; D, deaths; P, present]

									Wee	k ende	Ļ							
Place	Sept.	Sect - Sect	Oet.		Novemb	er, 1928			Decem	ber, 19	প্থ		đ	nuary	, 1020		Febru 1921	ġ.
	07AT	978T	1928	3	10	17	34	1	80	15	33	8	\$	13	10	8	8	•
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Mongolia- Mongolia- Chien Chia Tien- Chien Chia Tien- Chien Chia Chien Chia Urga.	484 48	н. 13н	=	©	5													

Dutch East Indies: Celebes—Makassar													-		-		1
Plague-infected rats		11	5							$\frac{1}{1}$		<u> </u>	•	Ť			
Java		0.0	9 11 11		<u> </u>	99	13	0101	01 0	101	88						-
Plague-infected rats									-							$\frac{1}{1}$	
Surabaya Residency			0-1-						-								
Ecuador (see table below). Esypt:					, ,	1									c	-	
Anexaudrus Amrieh District.															•		
Assiout Province	206	9.4															
Beheira Province	AUA	100			<u>.</u>	•											
Beni-Suef	OAC	2						4				4 I 	8	1	~ · ·	Ť	
Girpa		<u> </u>		11			-										
Kena Province.	AU							1								ÌÌ	
Menoufieh Province				100			5	-							Ť		
Greece (see also table below): Athens and Pireus.		61-	2			1											
Patras Patras Hawaii Territory—Hawaii:	00		<u> </u>	<u> </u>			-					<u> </u>					
Hamakua District— Honokaa	A	75															ł
India.	DC:	54 6, 2 73 8, 2 73 8, 2	25 1, 75 25 1, 75	7- 1,95 2 1,95	7 3,036	1,957	1, 930	1,953	1, 816								
Bassein . Bombay	- ADt		4	101,		5							-				
Plague-infected rats. Calcutta		- 8-	13.0				10	2	80	44	7	5 14	6	17	9		
Cochin. Madras Presidency.	- - - - - - - - - - - - - - - - - - -	11	96	201	13	144	211	149	197	129	38	¥ 					
Rangoon	NOA	12	22			3	:	3	-	3-	,			1	1		
rlague-infected rats	-	N	_	_	-					_	-	_					

February 22, 1929

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

PLAGUE—Continued

[C indicates cases; D, deaths; P, present]

	Aug.	Sept.							Wee	k endec								
Place .	р З З З З З З З З З З	ส่อีส์	oet.		Novemb	er, 1928		н	becemb	or, 1928			Jan	uary, 1	826	F 4	ebrua 1929	È
	1928	1928	1928	e	9	11	24	-	80	15	ន	8	2			8		
Indo-China (see also table below): Prompenh Salgon Raq: Baghdad Madegasear (see also table below): Tamatave	64 40 04 888 00		365	2021				00 0H 0000	81 87 19	-100 0000 -100		0 - 00		400 H				
Orange Free State						י₽י 	•		Π	ÌÌ	Ť			$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1}{1}$	



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	Sep- tem- 1928	26011 26013 20013 20000000 20010 200000000
	Au- gust, 1928	6 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10
		000000000000000000000000000000000000000
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		Madagas Tama Peru Senegal Baol Baol Cayo Cayo Fatid Rufa Thie Thie
	Der 4- Der 1928	1 22 720
	No- Vem- ber, 1928	822 888 111 888 87 87 888 888 888 888 888 8
	Octo- ber, 1928	388 000 888 88 8 5 5 5 5 5 5 5 5 5 5 5 5
	Sep- tem- ber, 1928	15 128 138 138 138 15 15 15 15 15 15 15 15 15 15 15 15 15
	Au- rust, 1928	44244 212 22 22 22 22 22 22 22 22 22 22 22 22
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¹ Reports incomplete.

February 22, 1929

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

SMALLPOX

[C indicates cases; D, deaths; P, present]

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Place	a Se Se Se Se Se Se Se Se Se Se Se Se Se	sec. Beck Beck Beck Beck Beck Beck Beck Beck	0et. 27.	Ž	отеть	or, 1926			Decen	lber, 1	88		J	nuary	, 1929		Febru 192	, Ng
	2001	0001	1928	ŝ	9	17	*		80	15	ន	8	. 20	2	. 01	8	64	•
Algeria: Algers: Oran. Arabia: Aden. Brazil (see table below). British East Africa (see also table below), Kenya-	2	214							2									
Brittab South Arries: Northern Rhodesia Southern Rhodesia Tansanviki	382 22 5	195 195 9	1.857	270		6 P2		63		67 88 33	813 °							
Canada: Alberta. Alberta Alberta Alberta Almonton Martinoho. Warinipeg and vicinity. Ontario.	9 9 9	4 16 15	Q2 1	13	4	ო თ ო	* 1365 4	- 4-1009 44	69 08	20 11 - 1 00	* <u>6</u> 3	1007 T	2 1	1 11 4 20			6	
Kington North Bay Ottath Bay Ottatha Sartia Montreal Montreal Sastatchewan Regma.	- 15 32 28 9 1- 2 15 32 28	2 12 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0,0040	- 0-1-	90¢	- 04 04 R	2 I 2 2 2 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2-13	8111	<u>6</u>	- ⁵ 0			<u></u> 	0 0 m m m m		- 6	

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China: Amoy Canton Chefoo Foochow Hong Kong Manchurla- Fushun Kwantung-	Datren. Mukden. Shanghal- Roeignes only. Froeignes only. Theluding natives. Colombia: Cartagena. Colombia: Cartagena. Dutch East Indies: Dutch East Indies:	Borneo Pontianak Samarinda CelebesMakasar	Java- Batavia and West Java. East Java and Madura Sumatra-Medan Ecuador (see table below).	France (see table below). Great Britan: Bitraingham Brandford Brandford Brandford	Castleford Hull Leeds Liverpool

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February 22, 1929

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

SMALLPOX-Continued

[C indicates cases; D, deaths; P, present]

										/eek ei	ded							
Place	Sept 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Oct.	Ž	ovemb	er, 1926			Dece	mber,	1928 -			anuar	y, 1920		Febr 19	UNTY,
	OPAT	0781	1928	3	10	17	34	1	80	15	ន	8	ۍ	51	19	8	61	•
Great Britain-Continued. Manchester	11111111111111111111111111111111111111	30000 00 00 00 00 00 00 00 00 00 00 00 0	921 31 31 32 31 31 32 31 31	322 880 1178751 1	214 214 3 3 3 214 3 3 3 214 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	234 234 200 200 200 200 200 200 200 200 200 20	2888 2888 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HH 0 00400 H 00H	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*		1 80 24404580 n 8	8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -	8 85445856444 8		
Chandernagor		4 111	38	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	121	135	89 99	13	17			19	122	22	នន			

Indo-China (see also table below): Phompenh	 1120			<u>21</u>	60	40		go.	00 079	60 00	0.00				00		
Lraq: Baghdad	 112 2113		0000	0.40.00	1911	4.081	8 [2 2 6 0	7 5 8 7 8 7 8	6 000	က္ပိယ္က	899 F 0	60003	88	5400 m	~~**		61 100 61
Rirkuk Liwa. 00 Mossoul Sinjar				80	11 18	8 3 43	44	2333	8-8-	60 <u>1</u>	12 13	2285823.		0 (1 4 5			
D Italy: Palermo. Ivory Coast (see table below). Jamalca (outside Kingston) (alastrim). Kingston (alastrim). Japan: Nagasaki.	e e e e e e e e e e e e e e e e e e e					-	6 -			-	61	-	• -	a			
Malta: Valetta	1 3 3 I I I				er i	1		1	61 63	- 10	31 - 18		O	0		6	
Baltillo Ban Luis Potosi Tampico Torteon Morocco (see table below).							2										
Portugal (see also table below): Lisbon Visbon Senegal (see table below). Siam Bangkok Straits Settlements: Singapore						64		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		61				69	C91		
Sudan (Anglo-Egyptian) Budan (French) (see table below). Bweden: Stockholm	37.	20 -	22	***	\$	8-	1 22	6 1	13	<u>8</u> 61	2 9		97	87	2 ²	geo	

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

SMALLPOX-Continued

[C indicates cases; D, deaths; P, present]

									Wee	k ende	1						
Place	ġ ^{ĸg} t	දිස් රි සි දි			Novem	ber, 1928		А	ecemb	er, 1928			Januar	y, 1929		ebruar 1920	5
	OPAT	29 19 1	61	8 8	9	11	*	1	7	53	%	20	13	10	8		
Tunisis: Tunis Union of South Africa: Cape Province Natal	н <u>н</u>		<u> </u>	н А	ρ,		P4	1		-		-					
Orange Free State	ዋዋ			2 1 1		<u></u> ее							<u></u>				
A 116715	22 tt	Septen	iber, 1	8	ŏ	ctober, 1	87	4	[OV8III]	er, 192		Å	æmber,	1928	Janu	ary, 19,	8
Z 1806	1		-30	21-30	1-10	11-20	21-31	1-10	=	30	-30	1-10	11-20	21-31	1-10	H	8
Indo-China (see also table above)		29	ន	17	8	61	4	-10	6	57	32	ន	90 1 00	130	2		. 8
Senegal. Sudan (French). C 5 D 3	190	-		Ч	∾പ	32						5		4			
Syria: AleppoCC BeirutCC						1										<u> </u>	

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Per Ho	6 61
Octo- ber, 1928	820 I 108
Per - 28	~~ 4 %a
Au- gust, 1928	600 80 1
Place	France Greece Mexico (see also table above) Portugal (see also table above) D
Der, Der Der, Der	31
ber - No-	37 3 6
Octo- ber, 1928	91 80 1 0 m
Sep- tem- ber, 1928	- 2-
Au- gust, 1928	88 69
Place	asti: Porto Alegre itieb East Africa (see also table above): Catables Banklos uador: Guayaquil

TYPHUS FEVER

[C indicates cases; D, deaths; P, present]

	Aug.	Sept.			-					Veek e	-pepu							
Flace	Sept.	^z z z z z z z z	Oct. 27.	ž	ovemb	ər, 1928			Decen	ıber, 19	*		Ja	nuary,	1929	¥	ebrue 1929	È.
	1928	1928	1928	3	10	17	24	1	80	15	22	8	5	13	19	8	5	•
Algeria: Algera: Algera: Orano	010		-	-	-													
BulgariaÖ		100		63		, ,	-	4					-	-	~			
Sofia. Sofia. Chile: Valparaiso. C	ŝ		•				-											
China: Bone Kone C				1						+								
Manchuria									-				-		-		<u> </u>	
Kwantung Chosen (see table below).	~	2			-			•										
Egypt: AlexandriaC	~~															_		
Assiout Province	-	71																
D Cairo-	-												_					
Daqalhiya Province C		-				ÌÌ				15	4		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
Menoufich Province.		-								-				5				
<u>А</u>		-						-		_		-	-	_	_		-	

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

TYPHUS FEVER-Continued

[C indicates cases; D, deaths; P, present]

	AllA	Sent								Veek e	nded-							
Place	s gent	สรีส	Oet.	Ň	vembe	r, 1928			Decen	ber, 19	8		ĥ	nuary	, 1929		Febru 192	Bry,
	1928	1928	1928	3	10	17	34	-	80	16	ន	8	8	ន	19	8	~	•
Egypt-Continued. Port Said Suez Creece (see table below). Ireland: Ireland:	917			-														
Clars County – Scariff. Dublin – County – Tralee. Kerry County – Tralee. Japan: Miyagi – Clarster – County – Clarster – C Juptania (see table below). Merico (see also table below):	27	64														-		
Agussenances Chihuabua. Mexico City, including municipalities in Federal District.	19-	0-	6-	8	-10		- 00	3 1	01-	•		6 1						
San Luis Potosi Morceo Materine. Poland	865a	311	1 (1)			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	448	4.2		∞ <u>8</u>	5	3	89	4 4	- 8	6		
Portugal: Oporto Rumania 1	*****	1 1	0 10	61	5 1	9 6	2 2	-	16 2	- 8 - 0	21 2	0 0 0	•	•	2			
Tunisia. Menzel. Sia. Turkey (see table below).		-=	-	*			-	64										
Union of South Africa: Cape Province		<u>н</u> - нр	ል ግብፅ	P4 P	<u>е</u> , е,	P. P.P	<u>р</u> р.	P. P.P		<u>е</u> , е,	PP	PH - P						
Yugoslavia (see table below).		4	4	4	4	4	4	• 4		4	4							

Jan- uary, 1920	884	
De- cem- ber, 1928	11 10	
No- vem- ber, 1928	4 17 1	
Octo- ber, 1928	****	
Sep- tem- ber, 1928	1 6 6	
Au- gust, 1928	2 ¹ 2 ¹	
Place	Lithuania	W FEVER
Jan- uary, 1929		ELLOY
De- ber, 1928		•
No- vem- ber, 1928		
Octo- ber, 1928		
Sep- tem- ber, 1928	50 077 80 080	
Au- gust, 1928	40 1	
Place	Chosen Chemulpo Soull Greece: Athens	

IELLOW FEVER

[C indicates cases; D, deaths; P, present]

,									Veek ei	pepi					
Place	July 29-Aug. 25, 1928	Aug.26- Sept. 22, 1928	Sept. 23-Oct. 20, 1928	Oet.	4	lovemb	er, 1928			Dece	mber, 1	828		Isnuary	1020
				1928	es	10	17	*	-	80	15	ន	8	8	2
Brazil: Bahla. C				-											
Para	-	101												-	
Rio de Janeiro 1.	14	6	6		-					61					N .
Dahomey: Ouidah Military Camp	"	•	•	•			-	İ	-					Ī	
Gambia: Bathurst.					5		- 01	6							
Ivory Coast: Ferkes-SedougouD						-		-		-					
On vessel: S. S. Berini, at Santos, BrazilC			4												
S. S. Victoria, at Manaos from Para, Brazil C				Ī								-			-
П												-+			-

¹29 cases of yellow fever with 14 deaths were reported at Rio de Janeiro during January, 1929, mostly suburban.

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