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INCIDENCE OF ILLNESS AMONG MALE INDUSTRIAL EMPLOYEES IN 1933 AS COMPARED WITH EARLIER YEARS

By DEAN K. BRUNDAGE, Statistician, Office of Industrial Hygiene and Sanitation, United States Public Health Service

The frequency of cases of sickness causing absence from work for more than 1 week among a group of 152,203 male industrial employees was lower in 1933 than in any other year since 1921, when the record was started. Compared with 1932, the decrease in sickness incidence was substantial. This result is somewhat surprising, since the 1932 rates were below the average for the 5 preceding years.

The group under consideration is composed of male employees of 38 industrial firms, most of which are located in the North Central, North Atlantic, and New England States; but a number of employees of these companies are scattered in almost all parts of the country. The records on which the present report is based are those of sickbenefit organizations maintained either by the company or by its employees, or cooperatively by both.

It is possible, of course, that the sickness rates might be higher if unemployed persons were included, but this consideration does not invalidate the year-to-year comparisons of sickness frequency among men working on a full-time or part-time basis. To some extent the decrease may be due to selection; i.e., workmen on the pay rolls now may be somewhat healthier as a group than those employed in 1928 and 1929, when the demand for labor was greater. Selection, however, does not appear to be the all-important factor in the decreasing incidence of illness in our sample of the industrial population on account of the fact that the rates for certain important diseases which will be mentioned later were as high in 1932 and 1933 as in 1928 and 1929.

The first month of 1933 was characterized by an outbreak of influenza, but the epidemic was so short-lived that the rate for the year as a whole was below the average frequency of this disease during the 10 preceding years. The influenza mortality rate in 1933 was

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616

also less than the average for the 10 preceding years.¹ Because influenza is of such numerical importance, the incidence rate of respiratory diseases, as a whole, fell well below the average, both for the 5 and for the 10 years preceding 1933. As an index of health conditions aside from influenza, the rate for all illnesses except influenza is shown in table 1. In 1933 this rate was the lowest of any year of record.

TABLE 1.—Frequency of specified causes of disability lasting 8 consecutive calendar days or longer per 1,000 male industrial workers representing various industries, by years, from 1928 to 1933, inclusive ¹

	Sickness and non- industrial injuries ³		Sich	Sickness		iratory asès ³	Sick exclu of inf	iness usive luenza	N respi dise	on- ratory bases	Aver- age num- ber of
Year in which disability began	•	B	A	в	A	в	A	в	A	в	men, all re- porting estab- lish- ments
1928 1929 1930 1931 1931 1932 1933 5 preceding years ⁴	113. 4 112. 4 94. 1 94. 6 97. 5 82. 3 102. 4	111. 2 110. 6 93. 8 93. 2 94. 7 76. 8 100. 7	102. 5 99. 9 81. 8 82. 2 84. 9 71. 0 90. 3	100. 2 98. 1 81. 6 81. 1 82. 3 66. 2 88. 7	50. 6 47. 8 32. 0 34. 9 37. 6 28. 6 40. 6	48.8 46.8 32.3 34.8 87.0 25.6 40.0	73. 4 73. 9 68. 5 63. 3 62. 9 55. 7 68. 4	72.8 71.9 68.2 62.1 60.4 53.0 67.1	51.9 52.1 49.8 47.3 47.3 47.3 42.4 49.7	51. 4 51. 3 49. 8 46. 8 45. 3 40. 6 48. 7	163, 557 194, 451 188, 714 171, 694 163, 979 152, 203 176, 480

For the record 1921 to 1927, inclusive, see Public Health Reports, vol. 47, no. 18, Apr. 29, 1932, pp. 997-1001.
 Industrial accidents and venereal diseases are not reported.
 Title nos. 11, 23, 104-115a, in the International List of Causes of Death, fourth revision, Paris, 1920.
 1928 to 1932, inclusive.

A = all reporting establishments; B = establishments which reported throughout the 6 years ending Dec. 31, 1933.

The rates for bronchitis and for diseases of the pharynx and tonsils in 1933 fell to about 63 percent of the average for the 5 preceding So precipitous is this decline in incidence that one might well vears. view the figures with skepticism were it not for the fact that the more serious respiratory diseases such as pneumonia and tuberculosis show decreases that are proportionately almost as large. One searches in vain for a pneumonia case rate that was lower than the one recorded Mortality from pneumonia also appears to have reached for 1933. The Metropolitan Life Insurance Co. states that a new minimum. a year (1933) which began with an influenza epidemic closed with the lowest pneumonia death rate in the history of insured wage earners.²

The frequency of new cases of respiratory tuberculosis in the industrial group under consideration was about 30 percent below the average for the 10 years preceding 1933. This result is not as spectacular as the reduction in tuberculosis mortality, amounting to 20 percent since 1930 in the industrial population of the country.³

¹ Cf. Statistical Bulletin, Metropolitan Life Insurance Co., vol. XV, no. 1, January 1934, p. 5.

¹ Idem. ¹ Ibid., p. 4.

TABLE 2.—Frequency of specified respiratory diseases which caused disability for 8 consecutive calendar days or longer per 1,000 industrial workers representing various industries, by years, from 1928 to 1933, inclusive ¹

Year in which disability began	Influ and (uenza grippe 11)	Bron acut chr (1	chitis, e and onic 03)	Dise the pl and (1)	ases of harynx tonsils 15a)	Pneu all i (107	monia, orms –109)	Tube sis o respin syste	erculo- of the ratory m (23)	Other diseases of the respira- tory system (104-105, 110-114)		
	A	в	A	в	A	в	A	в	A	в	A	В	
1928	29. 1 26. 0 13. 3 18. 9 22. 0 15. 3 21. 9	27. 4 26. 2 13. 4 19. 0 21. 9 13. 2 21. 6	5.7 5.3 4.6 3.6 3.6 2.9 4.6	5.7 5.2 4.8 3.6 3.5 • 2.8 4.6	5.9 7.2 6.0 5.2 4.5 3.9 5.7	5.7 6.3 5.8 5.0 4.4 3.4 5.4	3.4 3.1 2.5 2.1 2.0 1.8 2.6	3.4 3.2 2.7 2.2 2.0 1.7 2.7	1.1 1.2 1.1 1.0 1.0 .8 1.1	1.2 1.1 1.1 1.0 1.0 .8 1.1	5.4 5.0 4.5 4.1 4.5 3.9 4.7	5.4 4.8 4.5 4.0 4.2 3.7 4.6	

¹ For the record 1921 to 1927, inclusive, see Public Health Reports, vol. 47, no. 18, Apr. 29, 1932, pp. 997-1001.

A=all reporting establishments; B = establishments which reported throughout the 6 years ending Dec. 31, 1933. Numbers shown in parentheses are disease title numbers from the International List of Causes of Death, fourth revision, Paris, 1929.

In 1933 the rate for digestive diseases as a whole was approximately 18 percent below the average for the 5 preceding years. The important disease categories within this group, such as diseases of the stomach, diarrhea and enteritis, appendicitis, and hernia, show decreases of similar magnitude from the 5-year average.

TABLE 3.—Frequency of specified diseases of the digestive system which caused disability for 8 consecutive calendar days or longer per 1,000 male industrial workers representing various industries, by years, from 1928 to 1933, inclusive ¹

Year in which disability began	Dige dise to (115)	estive ases, otal 5-129)	Dise the ach, cance	ases of stom- except ir (117– 18)	Dia and itis	rrhea enter- (120)	App citis	endi- (121)	He (1:	rnia 22a)	Other di- gestive diseases (115b, 116, 122b-129)		
	A	в	A	в	•.	в	A	В	A	в	A	в	
1928 1929 1930 1931 1932 1933 5 preceding years	14. 6 15. 6 14. 8 13. 4 13. 3 12. 1 14. 3	14.5 15.6 14.5 12.9 12.6 11.1 14.0	4.7 4.7 4.7 4.0 4.0 3.3 4.4	4.8 4.7 4.7 3.6 3.7 3.3 4.3	1.3 1.5 1.5 1.2 1.0 1.0 1.3	1.2 1.4 1.5 1.2 1.0 1.0 1.3	4.2 4.5 4.0 3.7 3.4 3.3 4.0	4. 2 4. 5 3. 7 3. 5 3. 3 3. 0 3. 8	1.8 1.8 1.7 1.8 1.9 1.3 1.8	1.7 1.9 1.8 1.9 1.9 1.3 1.8	2.6 3.1 2.9 2.7 3.0 3.2 2.8	2.6 3.1 2.8 2.7 2.7 2.5 2.8	

¹ For the record 1921 to 1927, inclusive, see Public Health Reports, vol. 47, no. 18, Apr. 29, 1932, pp. 997-1001.

A=all reporting establishments; B=establishments which reported throughout the 6 years ending Dec 31, 1933. Numbers in parentheses are disease title numbers from the International List of Causes of Death, fourth revision, Faris, 1929.

For nonrespiratory, nondigestive diseases as a whole, a decrease in frequency amounting to about 15 percent below the average for the 5 preceding years is indicated. Within this broad disease category however, not all subgroups participated in the decreased incidence of illness. The rate for diseases of the circulatory system in 1933 was practically the same as during the period 1928-32. A further subgroup, diseases of the heart, shows a lower rate than in 1932, but virtually the same incidence as the average for the 5 years preceding 1933, and a greater frequency than in any year of record prior to 1927. No change occurred in the frequency of diseases of the genitourinary system except nephritis for which the rate was somewhat lower than during immediately preceding years. No improvement is indicated in the cancer situation. The frequency of neurasthenia and kindred conditions decreased in 1933 as compared with 1932 and earlier years, but the rate for other diseases of the nervous system, which include such serious ailments as mental disease and cerebral hemorrhage, was slightly higher during the past year. On the favorable side may be mentioned decreases in the incidence of rheumatism (acute and chronic), diseases of the organs of locomotion, diseases of the veins, diseases of the skin, and the infectious and parasitic group of diseases.

Mortality records, insofar as they can be used for the purpose, indicate that the vitality of the American people has to date remained unimpaired in spite of the hardships which severe economic depression entails. The sickness records presented herewith indicate greater freedom from attacks of disease among men on the pay rolls of 38 large companies during the past 3 or 4 years than in the years immediately preceding the depression.

Year in which dis ability began	Nonresp nondig disease	iratory, estive 3, total	Disease circulat tem, o disease veins 101-	es of the ory sys- except s of the (90-99, -103)	Disease veins	s of the (100)	Disease heart (s of the (90–95)	Nephritis, acute and chronic (130-132)		
	A	B	A	В	A	В	A	B	A	в	
1928	37. 3 36. 5 35. 0 33. 9 34. 0 30. 3 35. 4	36. 9 35. 7 34. 8 33. 4 32. 7 29. 5 34. 7	3.4 3.4 3.2 3.7 3.4 3.4 3.4 3.4	3.5 3.5 3.4 3.2 3.6 3.2 3.4	1.7 1.7 1.6 1.8 1.8 1.8 1.4 1.7	1.7 1.7 1.6 1.5 1.7 1.4 1.6	2 1 2 2 2 1 2 0 2 5 2 1 2 2	21 23 21 21 24 21 22	0.8 .8 .7 .7 .8 .5 .8	0.8 .8 .7 .8 .6 .7	

 TABLE 4.—Frequency of specified nonrespiratory, nondigestive diseases which caused disability for 8 consecutive calendar days or longer per 1,000 male industrial workers representing various industries, by years, from 1928 to 1933, inclusive ¹

¹ For the record 1921-1927, inclusive, see Public Health Reports, vol. 47, no. 18, Apr. 29, 1932, pp. 997-1001. A=all reporting establishments; B=establishments which reported throughout the 6 years ending Dec. 31, 1933. Numbers shown in parentheses are disease title numbers from the International List of Causes of Death, fourth revision, Paris, 1929.

TABLE 4.—Frequency of specified nonrespiratory, nondigestive diseases which caused disability for 8 consecutive calendar days or longer per 1,000 male industrial workers representing various industries, by years, from 1928 to 1933, inclusive—Continued

Year in which dis- ability began	Other of the urina tem a nexa (i	diseases genito- ry sys- nd an- 133-138)	Neural ritis, : (8	gia, neu- sciatica 7a)	Neura and t (8	sthenia he like 7b)	Other of the system	diseases nervous 1 (78–85)	Diseases of the organs of vision (88)		
	A	В	A	В	A	В	A	В	A	В	
1928 1929 1930 1931 1931 1932 1933 5 preceding years	3		2 2 2 5 2 3 2 1 2 3 2 1 2 3 2 1 2 3	2.2 2.5 2.2 2.1 2.3 1.9 2.3	1.4 1.3 1.2 1.5 1.3 .8 1.3	1.4 1.2 1.2 1.4 1.1 .8 1.3	1.0 1.1 1.0 1.1 1.2 1.4 1.1	1.0 1.0 1.1 1.3 1.2 1.3 1.1	1. 1 1. 0 1. 1 1. 0 . 9 . 8 1. 0	1. 1 1. 0 1. 1 1. 0 . 8 . 8 1. 0	
Year in which dis- ability began	Disease ears an mas proces	es of the d of the stoid ss (89)	Rheur acut chronic	natism, e and : (56, 57)	Disease organs motion disease joints	es of the of loco- a except s of the (156b)	Disease skin (1	es of the 51–153)	Infection parasit eases ² 12–22, 36–	us and tic dis- (1-10, 24-33, 44)	
	A	В	A	В	A	В	A	В	A	В	
1928	0.7 .7 .5 .7 .7 .6 .7	0.7 .6 .5 .6 .7 .6 .6	6. 4 5. 6 5. 6 5. 4 5. 3 4. 9 5. 7	6.3 5.6 5.6 5.4 5.5 4.9 5.7	4.0 3.9 3.5 3.3 3.3 2.8 3.6	3. 9 3. 9 3. 5 3. 5 3. 6 3. 0 3. 7	4. 4 4. 2 3. 8 3. 2 2. 7 2. 7 3. 7	4.4 4.2 3.8 3.3 2.7 2.6 3.7	4.0 3.9 3.8 3.3 2.7 2.0 3.5	3.9 3.5 3.5 2.9 2.1 1.8 3.2	
Year in which dis- ability began	Cancer, all forms (45–53)		Other disease 55, 5	general s ³ (54,)–77)	Disease bones joints 156	s of the s and (15 1 - ia)	Ill-de and un causes bility	fined known of disa- (200)	Nonind inju (163-	ustrial ries 198)	
	A	В	A	В	A	В	A	В	A	в.	
1928 1929 1930 1931 1932 1932 5 preceding years	0.4 .4 .5 .6 .6 .5 .5	0.3 .4 .5 .6 .6 .5 .5	1.2 1.2 1.2 1.2 1.7 1.7 1.7	1.1 1.2 1.2 1.2 1.7 1.6 1.3	0.7 .8 .7 .6 .4 .5 .6	0.7 .7 .8 .6 .5 .6 .7	1.7 1.8 1.7 1.9 2.3 2.0 1.9	1.7 1.8 1.7 1.9 1.7 1.8 1.7	10. 9 12. 5 12. 3 12. 4 12. 6 11. 3 12. 1	11. 0 12. 5 12. 2 12. 1 12. 4 10. 6 12. 0	

Except influenza, respiratory tuberculosis, and the venereal diseases.
 Includes nutritional diseases, diseases of the endocrine glands, diseases of the blood and blood-making organs, chronic poisonings and intoxications.

THE PRODUCTION OF DIBENZANTHRACENE TUMORS IN PURE STRAIN MICE

By H. B. ANDERVONT, Biologist, Office of Field Investigations of Cancer, United States Public Health Service

Burrows, Hieger, and Kennaway (1) have shown that the compound 1:2:5:6-dibenzanthracene, when injected subcutaneously in lard solution, is capable of producing sarcomas in mice. In their experiments the compound induced tumors in 31 out of 93 mice. Seven primary growths were used for serial transmission experiments, of which two were carried at least as far as the twelfth and sixteenth generation.

Because of the inconsistent results obtained in their transmission experiments and the fact that no mention was made of any particular strain of mice, it is assumed that Burrows, Hieger, and Kennaway did not use pure strain animals. Therefore, it was considered of interest to ascertain the results attending the injection of 1:2:5:6dibenzanthracene into pure strain mice. The purpose of such an experiment would be twofold: First, to determine whether the compound is capable of inducing tumors in pure strain animals which exhibit a low incidence of spontaneous tumors, as well as in other strains showing a high incidence of spontaneous tumors; second, to determine whether these induced tumors in pure stocks would follow the rule of the genetic theory of transplantation, namely, that a spontaneous tumor arising within an individual of a strain can be transplanted to members of the same strain, but not to members of another strain. This report deals briefly with the results of a single experiment conducted along these lines.

EXPERIMENTAL ANIMALS

All pure strain mice were obtained from the Roscoe B. Jackson Memorial Laboratory, Bar Harbor, Maine. The mice used in the experiment are described below.

Strain A.—Inbred since 1918. Albino mice with a high incidence of spontaneous tumors in breeding females.

Strain M "Leaden."—Inbred since 1921. Color the same as strain D to be described below. These mice show a low incidence of spontaneous tumors.

Strain C_3H .—Inbred since 1921. Color of wild house mice. The breeding females have a high incidence of mammary carcinomas.

Strain CBA.—Inbred since 1921. Color of wild house mice. No tumor has been observed in the mice of this strain for the past 10 generations.

Strain D.—Inbred since 1909. Dilute brown color. Breeding females exhibit an extraordinarily high incidence of spontaneous tumors. Stock mice.—Mice purchased from a local dealer. Albino mice were used to compare the reaction of "market mice" to pure strain mice when subjected to injections of dibenzanthracene-lard solution.

Only adult mice weighing at least 20 g were used. All female mice were virgins.

TECHNIQUE

A solution of 1:2:5:6-dibenzanthracene in lard was prepared as follows: The lard was filtered at 38° C., and dibenzanthracene was then added in the proportion of 4 mg to each cubic centimeter of lard. The lard was heated to 140° C., at which temperature the compound was completely dissolved. The control lard was also heated to 140° C. Both the dibenzanthracene-lard solution and the control lard were cooled to room temperature and then kept at $+4^{\circ}$ C. until used. Before using, both were heated to 40° C.

The injections were made by means of an 18-gage needle and a 1-cc syringe. All injections were made subcutaneously in the right axillary region.

EXPERIMENTAL OBSERVATIONS

The experimental animals consisted of 558 mice, distributed among the various strains as follows:

Strain	Number of experimen- tal animals	Number of controls
Strain A	125	63
Strain M	102	50
Strain C.H	19	10
Strain CBA	58	31
Strain D	23	13
Stock	41	23

The time of injections and amounts given were as follows:

Cubic centimeter

Aug.	3, 1933		0.25
Aug.	18, 1933	·	0.25
Nov.	1, 1933		0.50

The first two injections produced subcutaneous lumps which persisted without showing any evidence of being absorbed. Therefore, on October 24, 1933, these masses were broken by pressure. What bearing this procedure had on the final outcome of the experiment is unknown.

The first tumor was noted on November 16, 1933, only 15 days after the last injection. Hence the necessity for the final injection was not established.

Following the appearance of the first tumor, the mice were examined each week, with the exception of the 17th, 21st, and 24th weeks following the first injection. As a routine procedure, any mouse dying was autopsied and examined macroscopically for the presence of tumor. Pieces from every tumor were fixed in Tellycsniczky's fluid.

The experiment was discontinued on February 8, 1934, just 27 weeks after the initial injection. The results of the experiment are shown in table 1. The lard-control mice are omitted from the table, since none developed tumors during the entire period of observation.

Strain	Sex	Number of mice injected	Died from other causes	Number of mice develop- ing tu- mor	Percent	Living on Feb. 8, 1934
A A M CaH CaH CBA CBA CBA Stock Stock D	Male Female	60 65 30 72 9 10 22 36 12 29 23	21 16 4 18 4 4 12 8 10 11 3	27 31 20 18 5 6 8 23 2 7 6	45 48 67 255 55 60 36 64 16 24 24 26	12 18 6 36 36 0 2 5 0 11 11
Total		368	111	153	41	104

TABLE 1.—Results of injection of dibenzanthracene in lard

It is seen that the dibenzanthracene-lard solution induced tumors in all five pure strain stocks as well as in the "market mice".

The time of appearance of tumors is shown in table 2. It is seen that the greatest number were observed from the nineteenth to the twenty-sixth week.

 TABLE 2.—Time in weeks of the appearance of dibenzanthracene-lard tumors in mice

Time in weeks		15 16 17 18 19 20 21 22 23 24 25 26 2							27	Total					
Strain	Sex		Numbers of tumors observed										ber of tumors		
A	Female Male Female Male Female Male Female Male Female Male Male Male	2 2 1 1 1 1 			3 2 1 1 1 	8 1 2 1 	2 3 1 1 3 		5 5 1 4 6 2 1 3	5 3 1 4 2 1 5 		6 7 4 4 6 1 1	3 5 2 1 5 2 1	1	31 27 6 8 23 8 18 20 7 2 6
Total		9	4		8	12	13		33	22		29	19	4	153

LUNG TUMORS

As stated previously, the mice dying or killed were examined for macroscopic evidence of tumor in sites other than that where the dibenzanthracene-lard solution was injected. A number of tumors were found in the lungs, most of which were verified by histological examination. The number of lung tumors in the various strains is listed below:

Strain A female	18
Strain A male	11
Strain CBA female	1
Strain M male	1
Stock female	3

It is not clear whether these tumors were metastases or primary lung tumors. One lung tumor was observed in a mouse free of tumor at the site of the dibenzanthracene-lard injections. This problem is receiving further consideration.

HISTOLOGICAL FINDINGS

In all, 50 of the 153 tumors arising at the site of injection were examined microscopically. Practically all were spindle-cell sarcomas. While most of the tumors were composed entirely of spindle cells, a few were of the mixed type, containing, in addition to the common spindle cells, considerable numbers of round or of giant cells. One was apparently a mixture of carcinoma and sarcoma. All sections showed active invasion of voluntary muscle. Further evidence of malignancy was obtained from transmission experiments described below.

TRANSPLANTATION EXPERIMENTS

In conformity with the purpose of the experiment, attempts were made to transplant the induced tumors into normal mice. In all, 11 tumors were transplanted by grafts into mice of the same strain as the animal bearing the tumor, as well as into other pure strains or into stock mice. The usual trocar technique was employed in all these experiments. The results are summarized in table 3.

			_		Stra	ins i	nţo	whic	h ori	gina	l tun	lor v	vas t	ransı	olant	ted			
		s	train	A	Str	ain	C3H	Str	ain C	BA	St	rain	м	St	rain	D	s	toc	k
Experiment no.	Strain in which tumor arose	Number of mice inoculated	Positive	Negative	Number of mice inoculated	Positive	Negative	Number of mice inoculated	Positive	Negative	Number of mice inoculated	Positive	Negative	Number of mice inoculated	Positive	Negative	Number of mice inoculated	Positive	Negative
1 2 4 6 7 8 9 10	AA ACBACBACBA CBA MM MD C ₃ H	8 3 3 3 	8 3 3 3 	0 0 0 	8 6 3 5 7 7 4 18	0 0 0 0 0 0 0 0 18	8 6 3 5 5 7 7 4 0	 5 5 8	2 3 	3 2 8	 7 12 8	 7 12 0	 0 0 	8 6 5 6 7 6 14 15 6	0 0 0 0 0 14 15 0	8 6 5 6 7 6 0 6	8 6 	0000	8 6

TABLE 3.—Results of transplantation experiments of dibenzanthracene-lard tumors

The results show clearly that the induced tumors are similar to spontaneous tumors arising within a pure stock, since they grew only in mice of the strain in which the tumor had its origin. No difficulty has been encountered in subsequent serial transmission of two of these tumors into animals of the same strain in which they originated.

SUMMARY

The results of the experiment confirm the findings of Burrows, Hieger, and Kennaway in showing that the subcutaneous injection of dibenzanthracene-lard solution induces sarcomas in mice. In addition, it has been shown that this solution induces tumors in pure-strain mice which, under normal conditions, do not develop spontaneous tumors. Thus, it is shown that the genetic constitution of a pure strain of mice does not prevent the cells from becoming malignant when exposed to this carcinogenic agent.

Transmission experiments demonstrate that the induced tumors grow only in mice of the same strain in which they originated. In this respect they are similar to spontaneous tumors arising in purestrain mice.

REFERENCE

(1) Burrows, H., Hieger, I., and Kennaway, E. L.: Am. Jour. Cancer, 16 (1932), p. 57.

COURT DECISION ON PUBLIC HEALTH

Measure of damages recoverable because of injury to real property by construction and operation of sewer and sewage disposal tank.—(Kansas City, Mo., Court of Appeals; Carpenter et al. v. City of Versailles, 65 S.W.(2d) 957; decided Dec. 4, 1933.) An action was brought against the city of Versailles to recover damages for injury to real property alleged to have been caused by the construction and operation of a sewer and sewage disposal tank. In the trial court there was a verdict and judgment for the plaintiffs, and the city appealed.

The first of the plaintiffs' instructions was as follows:

The court instructs the jury that, under the law and the evidence in this case, your verdict and finding must be for the plaintiffs on the claim for permanent damages and you will assess plaintiffs' damages in accordance with the further instructions in this case.

The court of appeals declared that this instruction was clearly erroneous, saying:

* * * In it the court assumed that there were permanent damages, and upon so assuming told the jury to ascertain the amount thereof. Under the evidence the question as to whether or not there were permanent damages was for the jury. It was one of fact and not of law. The plaintiffs made the contention that the said instruction was not erroneous for the reason that the discharge of sewage upon the land was wrongful and that, therefore, they were entitled to recover at least nominal damages. In answer the appellate court said:

* * Nominal damages may be recovered for the invasion of a right, though actual damages were not sustained. Permanent damages, however, may not be recovered without showing actual damages. The court did not merely direct a verdict for plaintiffs as it could rightfully have done, but it told the jury that plaintiffs were entitled to recover for permanent damages. Such damages were not recoverable, unless the jury found as a fact that plaintiffs had sustained actual damages.

The court declared the measure of damages to be the difference in the reasonable market value of the land immediately before and immediately after the appropriation. "The sewer system is a permanent structure, and the plaintiffs may not recover loss of rents."

The judgment was reversed and the cause remanded.

DEATHS DURING WEEK ENDED MAY 5, 1934

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

	Week ended May 5, 1934	Correspond- ing week, 1933
Data from 86 large cities of the United States: Total deaths. Deaths per 1,000 population, annual basis. Deaths under 1 year of age Deaths noder 1 year of age per 1,000 estimated live births. Deaths per 1,000 population, annual basis, first 18 weeks of year. Deaths per 1,000 population, annual basis, first 18 weeks of year. Deaths per 1,000 population, annual basis, first 18 weeks of year. Deaths force Policies in force Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, first 18 weeks of year, annual rate.	8, 606 12. 0 626 58 12. 5 67, 748, 069 13, 221 10. 2 11. 0	8,003 11.2 608 152 12.0 68,357,913 12,654 9.7 10.9

¹ Data for 81 cities.

PREVALENCE OF DISEASE

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

UNITED STATES

CURRENT WEEKLY STATE REPORTS

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

Reports for Weeks Ended May 12, 1934, and May 13, 1933

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended May 12, 1934, and May 13, 1933

	Diph	theria	Infl	lenza	Me	asles	Meningococcus meningitis	
Division and State	Week ended May 12, 1934	Week ended May 13, 1933						
New England States: Maine New Hampshire	3		1	2	39 122	3 40	0	0
Massachusetts Rhode Island	14	1 20 2		1	58 1, 566 56	623	0 2 0	0 0 1
Connecticut Middle Atlantic States:	2			4	90 1.205	305	Ö	ō
New Jersey Pennsylvania	18 39	33 56	12	• 12 4	1, 205 689 3, 880	3, 205 1, 575 1, 635	3 0 3	5 1 6
East North Central States: Ohio Indiana	29 15	41 12	67 12	122 14	1, 944 1, 296	610 292	3	0
Illinois Michigan Wisconsin	29 14 3	20 19 2	19 3 43	15 16 20	2,700 367 2,558	791 822 458	8 1	15 2
West North Central States: Minnesota	17	- 4 12		1	326	676	0	2
Missouri North Dakota	48 2	24 6	41	8	883 213	202 115	6 0	2 3 0
South Dakota Nebraska Kansas	3 12 7	3 6 7	3	2	256 423 836	17 184 301	0 2 0	0 1 2
South Atlantic States: Delaware	1	2		1	173	18	o	0
District of Columbia	11 11 12	7 6 11	8 		2,504 94 1 407	21 30 340	1 0 2	010
West Virginia North Carolina	2 18	6 12	20 90	72	141 1, 861	51 635	2	0 1
Georgia ³ Florida	2 8	4 1 11	246	165 37 2	411 498 578	283 121 32	0	0
East South Central States: Kentucky Tennessee	11	7	13	12	418	17	1	1
Alabama ³ Mississippi ³	9 5	7 7	21 36	30 11	487 645	40 157	30	3

See footnotes at end of table.

627

	Diph	theria	Influ	ienza	Me	asles	Meningococcus meningitis	
Division and State	Week ended May 12, 1934	Week ended May 13, 1933	Week ended May 12, 1934	Week ended May 13, 1933	Week ended May 12, 1934	Week ended May 13, 1933	Week ended May 12, 1934	Week ended May 13, 1933
West South Central States: Arkansas. Louisiana. Oklahoma 4. Texas 4.	4 24 14 72	2 11 6 54	3 20 23 171	11 11 11 108	16 216 245 774	181 24 204 1, 569	2 3 0 1	0 0 1 4
Mointain States: Montana ⁴	5 11 3	3 5 3	25	2 3 27	89 34 39 1, 082 98 62	24 29 30 10 8	0 1 0 0 0	0 0 0 0
Utah Pacific States: Washington Oregon [§] California	1 1 1 39	3 30	1 1 	2 1 28 37	02 107 197 43 731	17 65 97 1, 388	0 0 1 2	0 1 2
Total	578	554	920	733	32, 768	17, 410	52	63
	Polion	yelitis	Scarle	t fever	Smallpox		Typhoi	id fever
Division and State	Week ended May 12, 1934	Week ended May 13, 1933	Week ended May 12, 1934	Week ended May 13, 1933	Week ended May 12, 1934	Week ended May 13, 1933	Week ended May 12, 1934	Week ended May 13, 1933
New England States: Maine New Hampshire Vermont Massachusetts Rhode Island Connectiont	0 0 1 0	0 0 1 0	22 21 5 198 14 70	33 8 8 305 24 113	000000000000000000000000000000000000000	000000000000000000000000000000000000000	13 0 4 2 0	3 0 2 1 1
Niddle Atlantic States: New York New Jersey Pennsylvania. Deet Meth Control States:	2 0 1	0 1 1	835 194 638	770 252 873	0 0	0 0 0	9 1 13	14 5 13
Dais North Central States. Ohio Indiana Illinois Michigan Wisconsin	1 0 1 1 0	0 1 3 1 0	909 113 513 629 335	1, 029 127 432 508 114	1 1 5 0 32	7 2 10 0 5	6 3 2 7 1	6 2 28 5 2
West North Central States: Minnesota Iowa ² Missouri North Dakota South Dakota Nebraska Kansas	0 2 0 0 0 0	0 0 0 0 0 1	90 41 79 41 6 25 31	93 22 58 5 13 10 51	6 4 7 0 1 12 8	0 8 11 0 0 1 2	1 1 7 2 0 5 4	0 1 0 2 0 2
South Atlantic States: Delaware Maryland ³ District of Columbia Virginia West Virginia North Carolina South Carolina	0 1 0 0 0 0 0 0	0 0 0 0 0 0 0 0	11 38 10 24 57 18 2 4 2	15 81 17 34 24 37 4 10 2	0 0 0 0 1 0 1 0	0 0 0 0 2 0 0 0	3 14 1 10 7 2 7 3 4	0 6 5 7 17 8 2
r 107103. East South Central States: Kentucky. Tennessee. Alabama ³ . Missistopi ² .	00000	0 0 0 0	44 13 6 13	32 33 8 5	0 2 0 0	0 4 23 0	9 2 0 2	4 13 7 2

See footnotes at end of table.

	Polion	nyelitis	Scarle	t fever	Sma	lipox	Typhoid fever	
Division and State	Week ended May 12, 1934	Week ended May 13, 1933						
West South Control States:								
Arbanese	1 1	<u>م</u> ا	- e		1			
Louisiana	ĥ	Ň	27		, i	1	14	18
Oklahoma 4	Ň	i	16	7	Ă	37	1	10
Teras 3	2	2	45	52	37	31	15	13
Mountain States:	- 1	-						
Montana 5	1	0	15	6	1	0	1	6
Idaho 5	Ī	Ō	3	3	14	ă	ī	Ĭ
W voming 3	Ō	·Ŏ	2	11	12	ŏ	ō	ō
Colorado	Ó	Ó	15	28	5	4	ŏ	Ŏ
New Mexico	Ō	Ō	13	5	ŏ	ō	ŏ	i
Arizona	10	Ó	5	5	Ō	Ŏ	i	Ō
Utah	Ó	Ō	8	4	4	ŏ	ō	ŏ
Pacific States:			-			-		
Washington	0	2	40	50	2	7	8	8
Oregon š	0.	0	36	37	6	11	3	1
California	20	1	172	150	1	42	11	7
Total	46	16	5, 456	5, 520	174	214	205	221

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended May 12, 1934, and May 13, 1933.-Continued

New York City only.
 Week ended earlier than Saturday.
 Typhus fever, week ended May 12, 1934, 9 cases, as follows: Georgia, 4; Alabama, 3; Texas, 2.
 Exclusive of Oklahoma City and Tulsa.
 Rocky Mountain spotted fever, week ended May 12, 1934, 20 cases, as follows: Montana, 9; Idaho, 2; Wyoming, 5; Oregon 4.

SUMMARY OF MONTHLY REPORTS FROM STATES

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

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
April 1934										
Arizona Indiana Massachusetts Missouri New Jersey New York North Carolina North Dakota Wyoming	2 6 9 17 5 5 4	9 68 59 171 57 256 69 12 4	64 73 420 77 185 26	 56 1 11	329 3, 953 9, 138 3, 993 2, 885 4, 608 10, 321 782 358	1 1 66	- 5 1 1 1 1 4 2 0	106 721 1, 001 415 850 3, 505 110 154 37	0 2 0 22 0 7 0 8	3 29 8 21 14 83 4 83 1

April 1984

April 1984-Continued

1

April 1934-Continued

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Chicken pox: Arizona. Indiana. Massachusetts Missouri. New Jersey New York.	Cases 84 395 1,000 368 1,608 2,543	Dysentery-Continued. New Jersey. New York (amoebic). New York (bacillary). North Dakota (amoe- bic). German measles:	Cases 3 9 8 1	Lethargic encephalitis: Massachusetts Missouri New Jersey New York	Cases 7 6 3 7
North Carolina North Dakota Wyoming Dysentery: Arizona Massachusetts (amo bic) Missouri	673 61 40 11 we- 2 9	Arizona. Massachusetts New Jersey. New York. North Carolina Wyoming Lead poisoning: Massachusetts	93 70 623 214 215 2 1	Mumps: Arizona. Indiana Massachusetts Missouri New Jersey North Dakota Wyoming	22 50 549 608 444 4 8

April 1934-Contd.		April 1934-Contd.		April 1934-Contd.	
Ophthalmia neonatorum: Massachusetts New Jersey New York Paratyphoid fever: Massachusetts New York Rabies in animals: Indiana Massachusetts New Jersey Rocky Mountain spotted fever: Wyoming Septic sore throat: Massachusetts Missouri	Cases 96 2 7 1 1 7 47 25 28 20 20 20 18	Septic sore throat—Con. New York. North Carolina. Tetanns: Massachusetts. Tick paralysis: Wyoming. Trachoma: Arizona. Massachusetts. Trichinosis: Massachusetts. New Jersey. New York. Tularaemia: Missouri. Wyoming. Typhus lever: New York.	Cases 74 5 23 2 1 54 2 1 6 9 2 1 1	Undulant fever: Missouri New Jersey New York North Carolina. Vincent's infection: New York North Dakota Wyoming. Whooping cough: Arizona. Indiana. Massachusetts. Missouri New York North Carolina. North Carolina. North Dakota. Wyoming.	Cases - 3 - 41 - 178 - 41 - 227 - 413 - 1,634 - 1,098 - 946 - 1,710 - 1,477 - 65 - 8
· LICIUSIVE OF NEW YORK C	ity.				

PLAGUE-INFECTED GROUND SQUIRRELS IN TULARE COUNTY, CALIF.

The Director of Public Health of the State of California has reported that on May 9, 1934, 3 lots of ground squirrels, including 7 animals, were found to be plague infected. They were from Tulare County, near Fountain Springs, in the interior of California.

CASES OF VENEREAL DISEASES REPORTED FOR MARCH 1934

This statement is published monthly for the information of health officers in order to furnish current data as to the prevalence of the venereal diseases. The figures are taken from reports received from State health officers. They are preliminary and are, therefore, subject to correction. It is hoped that the publication of these reports will stimulate more complete reporting of these diseases.

	Syr	ohilis	Gone	orrhea
State	Cases reported during month	Monthly case rates per 10,000 population	Cases reported during month	Monthly case rates per 10,000 population
Alabama 1				
Arizona	42	0.93	134	2.96
Arkansas	357	1.91	199	1.06
California 2	1,005	1.66	787	1.30
Colorado 1	-,			
Connecticut ³	205	1.25	118	72
Delaware	96	3.98	34	1 41
District of Columbia	151	3.05	109	2 20
Florida	306	1.97	51	33
Georgia	431	1 48	502	1 72
Idaho			ō	1
Illinois	1 618	2 07	1 396	1 79
Indiana	160	49	122	37
Iowa 2	131	53	160	 R4
Kansas	iii	. 59	52	27
Kentucky	232	.88	359	1 36
Louisiana	122	57	111	
Maine	57	71	47	. 59
Maryland	597	3 59	190	1 14
Massachusetts 2	376	87	487	1 13
Michigan 3	0.0			1. 10
Minnesota	393	1 52	308	1 10
Mississippi	983	4,80	1.580	7 72
Missouri	527	1.44	394	1 07
Montana 2	22	41	29	
Nebraska	43	31	72	52
Nevada 1	20		••	. 04
New Hampshire ³				
New Jersev ³				
New Mexico 2	42	97	25	.58
New York	5, 519	4.26	1.326	1.02
North Carolina	1, 116	3.41	384	1.17

See footnotes at end of table.

CASES OF VENEREAL DISEASES REPORTED FOR MARCH 1934-Contd.

	Syı	ohilis	Gond	orrhea
State	Cases reported during month	Monthly case rates per 10,000 population	Cases reported during month	Monthly case rates per 10,000 population
North Dakota Ohio Oklahoma ³ Oregon. Pennsylvania. Rhode Island. South Carolina ³ South Dakota ³ Tennessee.	34 473 157 108 337 78 599 1, 162	. 49 . 68 . 64 1. 10 . 34 1. 11 3. 43 	54 207 118 72 219 39 647 530	. 79 . 30 . 48 . 73 . 22 . 56 3. 70 1. 99
Texas ²	54 17 840 88 44	.09 	7 18 360 185 95	. 01 . 50 1. 47 1. 16 . 32
Total	18, 633	1. 71	11, 531	1.96

¹ Not reporting. ³ Incomplete.

Have been reporting regularly but no report received for current month.
 Only cases of syphilis in the infectious stage are reported.

NOTE.—Surveys in which all medical sources have been contacted in representative communities throughout the United States have revealed that the monthly rate per 10,000 population is 6.6 for syphilis and 10.2 for gonorrhea.

WEEKLY REPORTS FROM CITIES

City reports for week ended May 5, 1934

[This table summarizes the reports received regularly from a selected list of 121 cities for the purpose of showing a cross section of the current urban incidence of the communicable diseases listed in the table. Weekly reports are received from about 700 cities, from which the data are tabulated and filed for reference]

State and city		h- Influenza		Mea-	Pneu-	Scar- let	Small-	Tuber-	Ty-	Whoop-	Deaths,
State and city	cases	Cases	Deaths	Cases	deaths	fever cases	cases	deaths	fever cases	cough cases	all causes
Maine:		-									
Portland New Hampshire:	0	1	0	1	7	3	0	0	0	11	18
Concord	0		0	5	1	0	0	0	0	2	8
Manchester	0			3		4	Ó		Ŏ	ō	Š
Nashua Vermont:	0			17		2	0		0	0	
Barre	0		0	0	0	0	0	1	0	0	5
Massachusetts:	0			0		1	0		0	8	6
Boston	1		0	186	29	51	0	17	0	60	226
Fall River	0		0	Q	1	2	0	0	0	3	25
Springneid	0		0	3	0	2	0	1	0	11	35
Rhode Island:	1		U	2	D	10	U	2	1	11	54
Pawtucket	0		0	0	0	0	0	0	0	0	20
Connecticut:	16		U	0	3	14	0	4	1	6	50
Bridgeport	0		0	0	0	22	0	0	0	0	29
Hartiord	Ň		0	0	1	7	0	1	1	0	52
New Haven	U		1	0	2	2	0	1	0	8	23
New York:											
Bullaio	4		<u>o</u>	64	29	15	0	13	0	. 7	168
Dopporton	34	12		229	175	329	0	85	3	117	1, 579
Superinge	0			50	3	22	, N	1	0	7	73
b jiacu36			01	001	- 41	3	01	2	01	66	52

City reports for week ended May 5, 1934-Continued

State and city	Diph- theria cases	Inf Cases	luenza Deaths	Mea- sles cases	Pneu- monia deaths	Scar- let fever cases	Small pox cases	Tuber- culosis deaths	Ty- phoid fever cases	Whoop- ing cough cases	Deaths all causes
New Jersey: Camden	0	1	1	21	4		0	1	0	0	33
Newark Trenton Pennsylvania	01	2	0	35 98	5 0	14 13	0	5 0	0	26 0	100 33
Philadelphia Pittsburgh Reading Scranton	2 11 2 0	34	2 3 0	502 295 3 3	42 28 1	112 34 4 7	000000000000000000000000000000000000000	36 5 1	0 1 0 0	40 26 4 7	497 212 30
Ohio										1	
Cleveland Columbus Toledo	5 0 2	25 1 2	3 1 1	161 1 110	26 12 6	157 58 39	0 0 0	13 7 7	0 0 0	95 42 118	194 101 83
Fort Wayne Indianapolis	2 0		0	38 416	1 12	8 14	0	2 7	0 1	1 36	32
South Bend Terre Haute	0 1		0	12 0	2 2	4 3	0	0	0	0	22 27
Chicago	7	2	6	563	64 1	270	0	31 0	1	141	721 7
Springfield	2	1	Ő	79	1	1	0	0	0	15	25
Detroit Flint Grand Rapids	· 0 0	2	1 0 0	122 27 4	27 0 3	151 100 16	0	20 1 2	0 0 0	173 15 3	305 17 39
Wisconsin: Kenosha	0			1		9	0		0	2 12	9
Milwaukee Racine Superior	1 0 0	1	1 0 0	54 2 3	10 0 1	111 10 0	0 1 0	4 1 0	000	85 5 0	125 14 13
Minnesota: Duluth Minneapolis	0		· 0 1	0 19	39	0 12	0	02	0	0 21	30 116
St. Paul.	ī		Ō	10	8	8	Ŏ	- 4	Ō	36	70
Davenport	0			19		4	0		0	0	
Des Moines Sioux City Waterloo	2 0 0			0 36		23 1 0	0 0 0		0 64 0	0 0 10	32
Missouri: Kansas City	5		0	5	10	30	0	6	0	10	115
St. Joseph St. Louis North Dakota:	5 15	2	. 0 3	14 39	3 14	1 23	0	11	0	1 55	14 265
Fargo Grand Forks	0		0	33 0	0	0 0	0	0	0	9 2	12
South Dakota: Aberdeen Sioux Falls	0			36 4		2 0	0		0	8 0	6
Nebraska: Omaha	2		0	150	7	17	5	1	0	10	53
Kansas: Topeka Wichita	0		0	15 45	24	02	0	0	0	27 35	4 25
Delaware:			0	32			0	0		2	31
Maryland:				1 700				17		110	000
Cumberland Frederick	1		ŏ	1, 780	1	3	ő	¹ 0	Ő	9	233 11
District of Col.: Washington	3	2	1	97	15	10	0	8	0	35	158
Virginia: Lynchburg	õ		g	19	g	o	õ	1	o	8	14
Richmond	0		1	167 3	53	0	ŏ	4	0	0 7	23 45 20
West Virginia: Charleston	0		0	15	2	1	Q	0	Q	9	18
Huntington Wheeling	ő		i	7	1	8 18	Ŭ	1	ő	9	19
52516°—34-	2										

6 4 - 4 - 8 - 14	Diph	Ini	luenza	Mea-	Pneu-	Scar- let	Small	- Tuber	Ty-	Whoop	Deaths
State and city	Cases	Cases	Deaths	Sies Cases	deaths	fever cases	pox cases	deaths	Je ver cases	cases	all causes
North Carolina: Raleigh Wilmington Winston-Salein South Carolina:	0 0 0		001	7 0 8	1 4 1	0 0 0	0000	1 0 1	0 0 0	28 0 8	
Charleston Columbia Greenville	0 0 0	7	1 0 0	18 0 1	0 1 1	1 0 0	0000	2 0 0	1 0 0	1 0 2	21 20 5
Atlanta Brunswick Savannah	1 0 0	5 7	1 0 1	45 10 50	7 0 1	1 0 0	0 0 0	8 0 1	1 0 0	2 0 4	7
Florida: Miami Tampa	1 0	1] 1	211 166	1 3	1 0	0	42	1 0	4 0	20 25
Kentucky: Ashland Lexington Louisville Tannessee:	0 1 6	<u>i</u>	0 1	50 36 67	 1 4	0 2 15	0 0 0	2 0	0 0 0	0 13 53	20 74
Memphis Nashville	2 0		1 [°] 1	51 4	14 6	2 0	0	8 1	0 0	20 4	· 92 60
Birmingham Mobile Montgomery	1 0 1	3	0 0	71 2 51	4	8 1 0	0 0 C	6 3	1 1 0	1 0 1	61 23
Arkansas: Fort Smith Little Rock Louisiana:	0 0		ō	0 9	<u>1</u>	0 3	0	0	0 0	0 1	2
New Orleans Shreveport Oklahoma: Oklahoma City	18 1	1	0 0 0	45 9 0	11 3 11	7 1 2	0	11 8 2	0	1 2 0	145 87
Texas: Dallas Fort Worth Galveston Ban Antonio	9 1 0 9 0	2	2 0 0 0 0	1 0 5 10	8 4 2 6 2	3 5 0 3 0	0 1 0 3 1	1 1 0 6 2	0 8 0 1 6	21 8 0 0 0	51 14 76 52
Montana: Billings Great Falls Helena Missoula Idaho:	000000000000000000000000000000000000000	 	0 0 0 0	0 10 0 0	0 2 0 0	0 0 0 0	00000	0 0 0 0	0 0 0 0	1 1 0 5	7 6 3 5
Boise Colorado:	0		0	5	1	0	0	1	0	2	9
Pueblo New Mexico:	Ô		Ō	15	Ő	i	ŏ	ŏ	ŏ	12	9
Utah: Salt Lake City	1		0	56 29	0	3	0	0	0	5	7 99
Nevada: Reno	0		0	10	1	0	0	0	0	4	5
Washington: Seattle Spokane Tacoma	1 0 0		0	4 3 6	2 2	23 2 0	1 0 0	0 1	0 0 0	53 20 7	25 23
Portland	1 0		0	20 1	4	20 0	0	0	1	18 0	63
California: Los Angeles Sacramento San Francisco	17 2 1	13 	0 C 1	44 3 216	11 0 8	49 1 13	0 0 0	15 2 4	1 0 0	58 8 17	234 27 137

City reports for week ended May 5, 1934-Continues

State and city	Menin men	gococcus ingitis	Polio- mye-	State and city	Menin meni	gococcus ngitis	Polio- mye-
	Cases	Deaths	litis Cases		Cases	Deaths	Cases
Massachusetts:				Missouri:			
Boston	1	0	0	Kansas City	1	1	0
Springfield	0	1	0	St. Louis	2	1	0
New York:				Virginia:			
New York	4	1	2	Lynchburg	0	1	0
New Jersey:				Richmond	0	1	0
Newark	1	0	0	North Carolina:		.	
Pennsylvania:		.		Winston-Salem	1	1 1	U U
Philadelphia	2		1	Alabama:			
Pittsburgh	3	2	U	Birmingnam	1	ן יי	U
Unio:	•			Oklahoma:		ا م	•
Tolodo	1		4	Oregon:	-		v
Tilinois:	-	· · ·	v	Portland	٥		1
Chicego	10		0	California 1	v	, v	•
Minnesota	10	1 1	v	Los Angeles	1		2
Minneepolis	1		0	200 11200000000000000000000000000000000	•	Ť	-
Towa.	•	I I	, v				
Sioux City	0	1	0				

City reports for week ended May 5, 1934-Continued

Lethargic encephalitis.—Cases: Chicago, 1; Detroit, 1; Washington, 1. Pellagra.—Cases: Boston, 2; Atlanta, 1; Savannah, 1; Nashville, 1; Birmingham, 1; New Orleans, 2; Dallas, 1; Los Angeles, 2.

¹ For the week ended May 12, 1934, 7 cases of poliomyelitis were reported in Los Angeles City, Calif., and 8 cases in the county of Los Angeles outside of the city. For the week ended May 12, 1934, the State of California reported 20 cases of poliomyelitis, and for the week ended May 19, the State reported 36 cases.

FOREIGN AND INSULAR

CANADA

Quebec Province—Communicable diseases—2 weeks ended May 5, 1934.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the 2 weeks ended May 5, 1934, as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Erysipelas German measles Influenza Lethargic encephalitis Measles	2 141 43 1 10 21 2 2 1 626	Ophthalmia neonatorum Poliomyelitis Puerperal fever Scarlet fever Tuberculosis Typhoid fever Undulant fever Whooping cough	4 2 8 125 110 41 1 211

IRISH FREE STATE

Vital statistics—Fourth quarter 1933.—The following statistics for the Irish Free State for the fourth quarter ended December 31, 1933, are taken from the quarterly return of marriages, births, and deaths, issued by the registrar general, and are provisional:

	Number	Rates per 1,000 popula- tion		Number	Rates per 1,000 popula- tion
Population Marriages Births Total deaths Deaths under 1 year Deaths from: Cancer Diarrhea and enteritis (under 2 years)	2, 992, 000 3, 354 13, 768 9, 730 933 842 158	4.50 18.40 13.00 (¹) 1.13	Deaths from—Continued. Diphtheria Infinenza Measles. Puerperal sepsis Scarlet fever. Tuberculosis (all forms) Typhoid fever Whooping cough	Î 28 164 14 29 25 791 20 66	0. 22 2. 11 1. 06

¹ Deaths under 1 year per 1,000 births, 68.

³ Per 1,000 births.

PANAMA CANAL ZONE

Communicable diseases—January-March 1934.—During the months of January, February, and March 1934, certain communicable diseases, including imported cases, were reported in the Panama Canal Zone and terminal cities, as follows:

	Jan	uary	Feb	ruary	M	arch
Disease	Cases	Deaths	Cases	Deaths	Cases	Deaths
Anthrax					1	
Chicken pox	19		30		47	
Diphtheria	20		14	2	10	1
Dysentery (amoebic)	21	2	23	1	5] 1
Dysentery (bacillary)					1	1
Leprosy			1		1	1
Malaria	183	6	117	2	66	3
Measles	10		3		6	
Mumps	3		1		1	-
Pneumonia		29		20		19
Relapsing fever	1					-
Scarlet fever					1	
Tuberculosis		31		11		22
Typhoid fever	2	1	4		2	
Typhus fever			1		1	
Whooping cough	14		14		24	

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

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tables 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.

CHOLERA

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

		Oet.	Nov.	, Dec						Week e	nded-						
Place	558 88 88 86 86 86 86 86 86 86 86 86 86 86	ซ <mark>ุร</mark> ัซ	^{දු} පිසි	Jan.		Februar	y 1934			Ma	ch 1934				April 1	7g	
		1933	1933	1934	8	01	11	2	8	9	11	2	31	~		7	8
India. Bombay Presidency	8283835454 8211 8228885454 822845454 822845454 822845454 822854 82285555 8228555 8228555 8228555 8228555 8228555 8228555 8228555 82285555 8228555 82285555 82285555 822855555 822855555 822855555555	288 287 287 287 287 287 287 287	8, 101 8, 101 8, 101 8, 101 8, 101 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	252 252 252 252 252 252 252 252 252 252	1, 088 476 478 478 478 478 478 478 478 478 478 478	28 28 28 28 28 28 28 28 28 28 28 28 28 2		1, 317 801 801 801 801 801 801 801 801 801 801	1, 283 851 6 345 851 6 345 853 7 345 855 855 855 855 855 855 855 855 855 8	882 883 111 111 111 111 12 12 12 12 12 12 12 12	2,020 21 11 11 12 13 13 11 11 11 11 11 11 11 11 11 11 11			2007 000 000 000 000 000 000 000 000 000			[*] 3 [°]
2		~	•	-						Ì						+	

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Iloulo Province. D Iloulo		8	100 FB														
Docidental Misamis Province			8	0.000	2883	1 10 13	• • • • • • •	88 19 19		12		6112000001 11	247.03				
Ĩ	õ	tober 19	33	Nov	ember	1933	De	ember	1933	Ja	nuary 1	934	Febi	uary 1	34	Marcl	1934
r.1809	1-10	11-20	21-31	1-10	11-20	21-30	1-10	11-20	21-31	1-10	11-20	21-31	1-10	11-20	21-28	1-10	11-20
Indo-China (French) (see also table above): Cambodia ³	QQ Q	80 CH					80	1			8	~ ~			4100		64.04
¹ No cholera was reported in the Philippine Islan	ods durli	ng the v	veek en	ded Ma	y 12, 19	34.											

³ For the month of October 1933. ⁹ Reports incomplete.

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

•

PLAGUE 1 [O indicates cases; D, deaths; P, present]

				1						W eek	ended	1					
Place	0et. 1-28, 1933	Oct. 29- Nov. 25, 1933	Nov.26- Dec. 30, 1933	Dec. 31, 1933- Jan. 27, 1934	F 4	ebruar	y 1934			Mar	ch 193	-			April	1934	
				1001	~	10	17	*	8	9	17	24	31	-	1	31	*
Angola. ⁴ Argentina (see also table below) Buenos Aires Province O																	
Azores: Ponta Delgada					•								$\overline{ }$		Ī	ÌÌ	
Belgian Congo: Stanleyville Province				•												-	
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France: SaraselliePlague-infected rats. Hawali Territory: Hawali IslandHamakuaPlague-		-				•	İŤ	$\frac{1}{1}$		Ť		İ	Ť				
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May 25, 1984

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At Tutloorin from Colombo				Ť		1	-	-	+	-						
¹ Including plague in the United States and its possess	lons.															

¹ During December 1933 and January 1934, 32 cases of plague with 17 destine were reported in Angola. A report dised Nov: 138, 1933, states that plague was reported in Manchurla, China, as follows: Fengtian Province, 249 cases; Hsingan Province, 200 cases; Jehol Province, 81 case: Kirin Province, 479 cases:

For 2 weeks.

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

-1-

PLAGUE-Continued

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

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1 For 2 wee**ks.** a Imported. a From Jan. 1, 1934, to Feb. 9, 1334, 140 cases of smallpox with 17 deaths were reported in Mukden, Manchuria, Chi**na**.

J

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

SMALLPOX-Continued

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

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1 For 2 weeks. 3 Imported. 4 Includes 1 imported case. 9 De. 18, 1933: 90 cases of smallpor were reported in Juarez, Mexico, with 18 deaths cocurring from Dec. 1 to 16, 1933. • For 4 weeks.

May 25, 1934

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

Continued

May 25, 1934

¹ Imported.

TYPHUS FEVER

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¹ For 2 weeks. ⁹ Incomplete reports from San Pedro, Chile, f	for the m	onth of N	lovembei	: 1933 sł	112 MOL	3 CB866	of typl	Aey snu	ź										

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

TYPHUS FEVER—Continued

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

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May	25.	1984
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March 1934	79 112 17
Feb- ru- sry 1934	17 17 16 30
Jan- uary 1934	882 882 94
Cem- ber 1933	88 4 14 3 3 75 75 137
No- vem- ber 1933	366 89 88 88 88 88 81 341 341
Octo- ber 1983	129 139 1 8 8 22 56
	000000000
Place	ad vakia. Be also table above). (see also table above).
	Place Deter Verme cenne uary ary ary 1934 1934 1934 1934 1934 1934 1934 1934

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

YELLOW FEVER

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

		 ; ;						Mee	k ende	1					
Place	Oct. 1- 28, 1933	Oct. 29- Nov.25, 1933		Decei	nber 19	33		Jan	uary 19	34		Februs	ry 1934		Mar.
			8	6	16	ន	8		8	54	8	10	17	24	1934
ory—Rio Branco					n										-
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i For the week ended Apr. 28, 1934, 1 case of yellow fever with 1 death was reported in Mato Grosso State, Brazil, in a place distant from the coast and not connected by rail. * imported. * imported.