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HEIGHTS AND WEIGHTS OF SCHOOL CHILDREN.

A Study of the Heights and Weights of 14,335 Native White School Children in Maryland, Virginia, and North and South Carolina.[1]

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INTRODUCTORY.

A number of so-called standards of the physical development of children are in more or less general use in this country, largely for determining the state of nutrition. For the most part these standards represent averages of measurements made by different observers in widely separated communities, without reference to racial stock or geographical distribution. For purposes of comparison and in order to present anthropometrical observations for groups that are fairly homogeneous with respect to race stock and geographic location in the United States, selections of records were made from a considerably larger amount of material collected in a series of field investigations in child hygiene by Public Health Service officers during the last six years.

The present study deals with 14,335 white children of native parentage in representative localities in Maryland, Virginia, and North and South Carolina. The observations are confined to children actually attending school, ranging in age from 6 to 16 years, inclusive. While in every case a somewhat intensive physical examination (and for a considerable proportion, mental examination) was made, all children regardless of their physical or mental status, were included. The observations, therefore, may be said to be of a typical school population within the racial and geographical limits mentioned; they include the handicapped individuals, as far as handicapped individuals were found attending school, as well as the probable normal.

A considerable variety of anthropometrical records was collected for each individual in addition to records of physical defects and mental status. The present study, however, is confined to observations

[1] From Field Investigations in Child Hygiene, United States Public Health Service, in cooperation with the Statistical Office, United States Public Health Service.

on standing height and weight. The presentation of the other data is reserved for later publications.

SCOPE OF THE STUDY.

A statistical study of the height and weight records of the 14,335 children was made along the following lines:

1. A series of comparisons of the mean heights and weights at different ages for the two sexes for the purposes (*a*) of discovering such differences as might exist at various ages between boys and girls with respect to height, weight, and the relation of weight to height; and (*b*) of observing the rates of growth in these respects during the period of 6–16 years.

2. The degree of variation in heights and weights at each age for either sex in terms of the standard deviation and the coefficient of variability.

3. The degree of correlation between the heights and weights of individuals of either sex at each age, using the correlation coefficient and ratio and regression coefficient as expressions of the relation.

4. The construction of a table of heights and weights according to single years of age for boys and for girls of the particular racial group and geographical section selected.

The detailed data and certain statistical constants derived therefrom are presented for reference in appended tables.

GENERAL CONSIDERATIONS.

Residential distribution.—The school children here considered were from various rural districts, small towns, and cities of moderate size in the four States mentioned. Their distribution according to locality is shown in Table I.

TABLE I.—*Distribution of 14,335 children observed for height and weight according to locality of residence.*

Name of locality.	Nature of locality with approximate population of urban localities.	Number of children observed.
Frederick County, Md.	Rural, village, and Frederick, town (10,000).	4,348
Petersburg, Va.	City (30,000)	1,748
Hampton, Va.	Town (6,000)	1,153
Charlotte, N. C.	City (45,000)	3,822
Spartanburg, S. C.	City (20,000) and near-by mill villages	2,562
Greenville, S. C.	City (20,000)	702

It is believed that these localities are fairly representative of the section included within the four States. As mentioned above, in order to exclude differences in race stock as far as possible, except in so far as native-born persons in this section are affected by them, the 14,335 individuals selected are of native-born white parentage.

Sex and age distribution.—The sex and age distribution of the children are shown in Table II.

TABLE II.—*Distribution according to sex and age of 14,335 native white children observed for weight and height in certain localities in Maryland, Virginia, North and South Carolina.*

Age at nearest birthday (years).	Number.		Per cent.	
	Boys.	Girls.	Boys.	Girls.
All ages	7,132	7,203	100.0	100.0
6	380	353	5.3	4.9
7	745	735	10.4	10.2
8	904	854	12.7	11.9
9	889	900	12.5	12.5
10	973	936	13.6	13.0
11	871	847	12.2	11.8
12	781	805	11.0	11.2
13	679	695	9.5	9.6
14	471	528	6.6	7.3
15	278	331	3.9	4.6
16	161	219	2.3	3.0

The age at nearest birthday is employed in this study.

The distribution according to age is quite similar for the two sexes, although, as was expected, a slight preponderance of girls is to be noted at the ages 14 to 16, inclusive, because of the greater tendency on the part of older boys to quit school.

For both sexes the numbers observed at the ages of 6 to 14, inclusive, are sufficiently large to constitute reasonably fair samples of the population of this section. Less dependence can be placed on the representativeness of the data for the ages 15 and 16 because of the relatively small numbers of children comprising these age groups. This should be borne in mind when certain irregularities appear in the analysis which seem to be peculiar to the ages named.[2]

I. Mean Heights and Weights.

The measurements of children considered in this study were all made by medical officers of the United States Public Health Service in the schools of the various localities included. The children were measured as they were dressed, and in shoes except when the child was attending school barefooted. Weights were taken with wraps and heavy coats removed, leaving only the ordinary indoor clothing.

The measurements are so classified that the mid-points of unit classes fall on the even inch and the even pound.

MEAN HEIGHTS AND WEIGHTS OF BOYS AND GIRLS AT DIFFERENT AGES.

The basis for the first series of comparisons is given in the table of mean (arithmetic average) heights and weights[3] (Table III).

[2] The probable errors of the mean heights and weights at each age are given in appendix, Table XXI.

[3] The mean rather than the median or modal heights and weights have been used for the reason that the means appear to be satisfactory expressions. The modes are difficult to define in some instances because of somewhat irregular distributions due to small numbers. The medians are in all instances somewhat lower than the means, but their variations are similar in all essential respects to those of the means. (See appendix, Table XXI.) Furthermore, the means are more useful in comparing our results with those of other studies, and are more desirable in expressing degrees of dispersion and correlation.

TABLE III.—*Mean heights and weights of 14,335 native white children in Maryland, Virginia, North and South Carolina, at each age, compared for boys and girls.*[1]

Age at nearest birthday (years).	Height (inches).		Weight (pounds).	
	Boys.	Girls.	Boys.	Girls.
6	45.4	44.8	47.5	45.5
7	46.8	46.6	50.4	48.3
8	48.8	48.5	54.5	52.4
9	50.7	50.5	59.6	58.0
10	52.6	52.5	65.2	64.0
11	54.3	54.5	71.1	70.3
12	56.2	57.0	78.0	79.7
13	58.0	59.3	85.1	89.7
14	60.3	61.1	95.4	99.4
15	62.9	62.5	108.4	107.6
16	64.6	63.3	116.7	113.6

[1] Probable errors of the means are shown in appendix, Table XXI.

The differences between the means for boys and girls at a given age period are not great, but they are significant. Table IV, showing the differences, will assist in making the comparison from this point of view:

TABLE IV.—*Comparison of the mean heights and weights (as given in Table III), showing the excess in favor of either sex at different ages.*

Age at nearest birthday (years).	Excess in the mean—			
	Height of—		Weight of—	
	Boys over girls (inches).	Girls over boys (inches).	Boys over girls (pounds).	Girls over boys (pounds).
6	0.6	.....	2.0	.....
7	.2	.....	2.1	.....
8	.3	.....	2.1	.....
9	.2	.....	1.6	.....
10	.1	.....	1.2	.....
11	.....	0.2	.8	.....
12	.....	.8	.....	1.7
13	.....	1.3	.....	4.6
14	.....	.8	.....	4.0
15	.4	.....	.8	.....
16	1.3	.....	3.1	.....

It will be noted in the group studied that on the average at the ages of 11 to 14, school girls are taller than school boys, and that at the ages of 12 to 14 the girls are also heavier. This observation merely corroborates for the particular racial and geographic group under consideration what has been found by other observers to be uniformly true during the period of puberty.

WEIGHT-HEIGHT INDEX.

The relation of weight to height, commonly expressed in the form of the ratio of weight to height at each age and called the weight-height index, is shown in Table V.

TABLE V.—*Weight-height indices, or the ratios of mean weight to mean height, at each age for 14,335 native white children in Maryland, Virginia, North and South Carolina, compared for boys and girls.*

Age at nearest birthday (years).	Mean weight in pounds / Mean height in inches	
	Boys.	Girls.
6	1.05	1.02
7	1.08	1.04
8	1.12	1.08
9	1.18	1.15
10	1.24	1.22
11	1.31	1.29
12	1.39	1.40
13	1.47	1.51
14	1.58	1.63
15	1.72	1.72
16	1.81	1.79

The differences in the indices for the sexes, it will be noted, occur at the same ages, approximately, as the differences in weights and heights considered separately. Computed from Table V, they are given for convenience in Table VI.

TABLE VI.—*Comparison of the mean weight-height index (as given in Table V) showing the excess in favor of either sex at different ages.*

Age at nearest birthday (years.)	Excess in the mean weight-height index (pounds per inch of height).	
	Boys over girls.	Girls over boys.
6	0.03	.....
7	.04	.....
8	.04	.....
9	.03	.....
10	.02	.....
11	.02	.....
12	.....	0.01
13	.....	.04
14	.....	.05
15	.....	.....
16	.02	.....

Here, again, it is found that the results correspond in a general way to those of similar studies of other groups of children. The boys are heavier than the girls for each inch of height at the ages of 6 to 11, both inclusive, and at 16. At the ages 12 to 14 the girls weigh more than the boys, and at 15 no difference appears for this group of children.

RATE OF INCREASE IN HEIGHT AND WEIGHT.

The series of means given in Tables III and V suggest an interpretation from the point of view of development; and considered in this light, although constituting observations of different individuals

at each age, they approximate the records of growth of the same individuals.

The rate of increase in height and weight or in the weight-height index is not easily seen from the tables of means and ratios. Per-

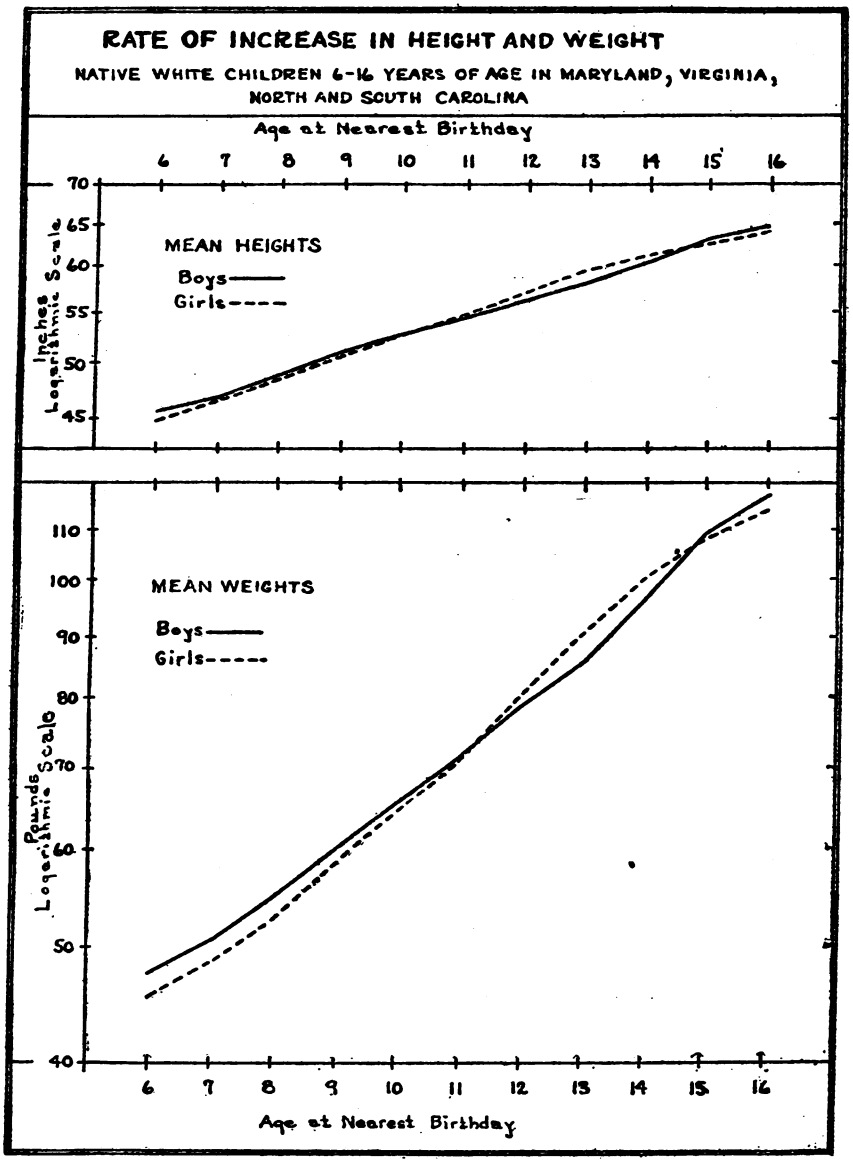


FIG. 1.

haps the quickest and simplest way to show it is to plot them on a logarithmic vertical scale. The means in Table III have been plotted in Figure 1.[4]

[4] In constructing the vertical scales for height and weight the spacing has been so arranged as to allow approximately the same space for an inch of height as for a pound in weight. The horizontal scales correspond exactly. The *slope* of the four lines, therefore, is comparable.

The curves also illustrate graphically the comparison of the actual mean heights and weights of boys and girls at different ages.

If the mean heights or weights fall in an absolutely straight line on a logarithmic scale (the scale being so constructed as to give the same results had the logarithms of the means been plotted on ordinary cross-section paper), obviously the rate of increase is unchanging. There are, however, quite definite curves in the lines connecting the points, indicating as other investigators have pointed out, that the rate of increase in either height or weight varies at different ages for both boys and girls. The rate of increase in the height of boys shows a tendency to slacken between the ages of 11 and 13; and the same slackening is seen for girls, but not until the age of 13. The mean weights of boys show an accelerating rate of increase until the age of 15, with a marked impetus at the age of 13. For girls the weight curve rises more rapidly than for boys up to the age of 13, where the slackened rate of increase begins and continues through the last year of age (16) for which data are available.

These variations in the rate of increase are expressed numerically in Table VII.

TABLE VII.—*Percentages of annual increase in mean height and mean weight of 14,335 native white children in Maryland, Virginia, North and South Carolina, compared for boys and girls.*

Age period.	Percentage increase in—			
	Height.		Weight.	
	Boys.	Girls.	Boys.	Girls.
6 to 7 [1]	4.0	4.1	6.1	6.2
7 to 8	3.9	3.9	8.1	8.5
8 to 9	3.9	4.4	9.4	10.7
9 to 10	3.8	3.8	9.4	10.3
10 to 11	3.1	3.9	9.0	9.8
11 to 12	3.4	5.2	9.7	13.4
12 to 13	3.4	4.2	9.1	12.5
13 to 14	4.0	2.9	12.1	10.8
14 to 15	4.7	2.0	13.6	8.2
15 to 16	3.0	1.5	7.7	5.6

[1] All ages are those at nearest birthday.

The relatively faster increase in weight than in height suggests, of course, that the weight-height index increases as children grow older. The curves constructed by plotting the weight-height indices in Table V on a logarithmic scale are shown in Figure 2.

Beginning at about 8 years of age the rate of increase in the weight-height index is markedly slower for boys than for girls up to the age of 13 or 14. Thereafter the opposite is true.

The means given in Table V may be used in still another way in considering the question of growth in weight in relation to height.

If the annual increment in weight be divided by the annual increment in height for the corresponding year of age, we will obtain a series of figures showing the annual increase in weight per each inch of increase in height. Table VIII presents the annual increments computed from the means given in Table III and the ratios found in the manner suggested.

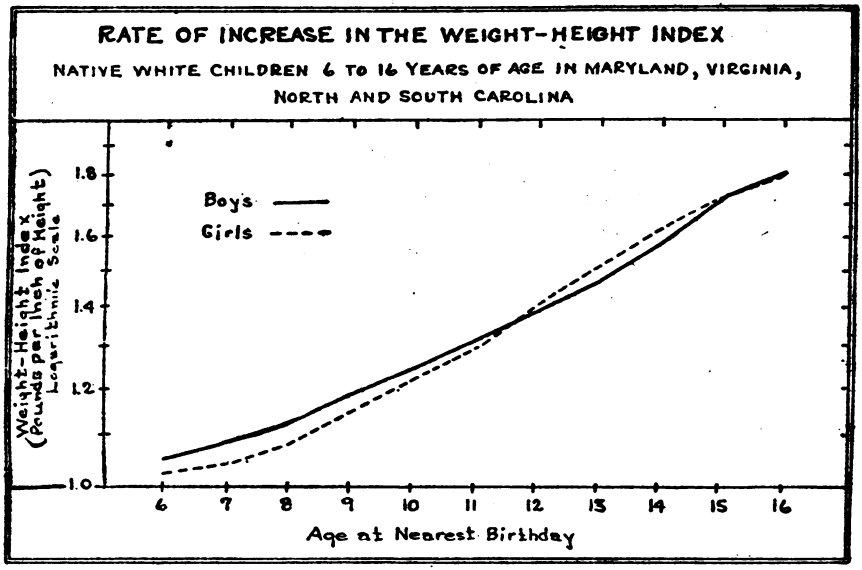


Fig. 2.

TABLE VIII.—*Annual increments in pounds of weight for each inch of increment in height computed from mean weights and heights of 14,335 native white children in Maryland, Virginia, North Carolina, and South Carolina, compared for boys and girls.*

Age period.	Annual increment.				Annual increment in weight (pounds) for each inch of increment in height.	
	For boys.		For girls.			
	In height (inches).	In weight (pounds).	In height (inches).	In weight (pounds).	Boys.	Girls.
6 to 7 [1]	1.4	2.9	1.8	2.8	2.1	1.6
7 to 8	2.0	4.1	1.9	4.1	2.1	2.2
8 to 9	1.9	5.1	2.0	5.6	2.7	2.8
9 to 10	1.9	5.6	2.0	6.0	2.9	3.0
10 to 11	1.7	5.9	2.0	6.3	3.5	3.2
11 to 12	1.9	6.9	2.5	9.4	3.6	3.8
12 to 13	1.8	7.1	2.3	10.0	3.9	4.3
13 to 14	2.3	10.3	1.8	9.7	4.5	5.4
14 to 15	2.6	13.0	1.4	8.2	5.0	5.9
15 to 16	1.7	8.3	.8	6.0	4.9	7.5

[1] All ages are those at nearest birthday.

The ratios in the two last columns, when considered as two series, merely indicate in another way the differences in the direction of growth of boys and girls. They have been plotted on a logarithmic scale in Figure 3.

The gain in weight by girls for each inch of gain in height increases at an almost constant rate from 7 to 16 years. Allowing for certain irregularities in the data, the gain in weight by boys for each inch of gain in height is practically the same as that by girls up to the age of 11, and thereafter is at a considerably slower rate.

COMPARISON OF MEASUREMENTS OF INDIVIDUALS OF DIFFERENT AGES WITH PERIODIC MEASUREMENTS OF A SINGLE GROUP OF INDIVIDUALS.

A number of observers have objected to height and weight standards based on measurements of children taken in cross section, at

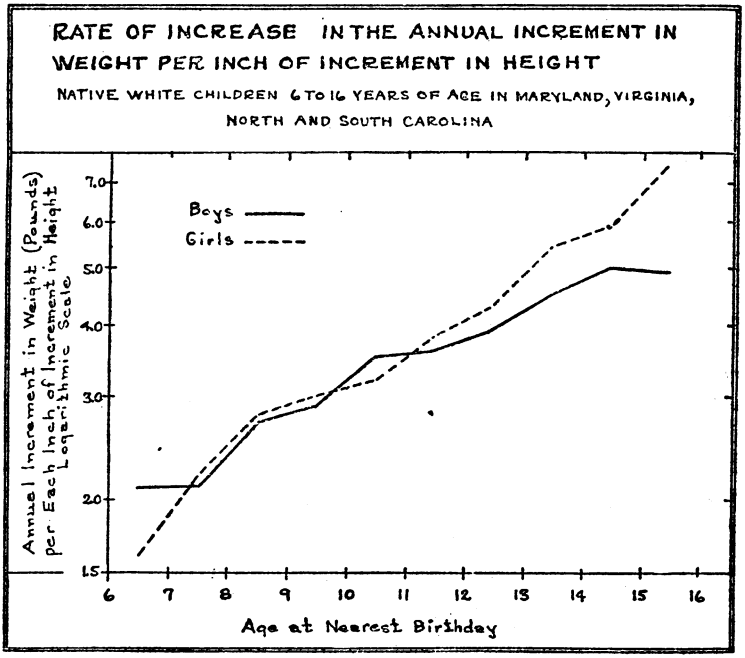


Fig. 3.

different age periods, on the ground that such measurements do not furnish an accurate index of the rate of growth. It has been suggested that such an index can be determined with appreciable accuracy only by making periodic measurements of the same children over a number of years. On the other hand, an index determined by periodic measurements requires time, while the need for fairly reliable standards by which to gauge the state of nutrition is pressingly present. Furthermore, such a group of children, of necessity, will be a selected group which finally, through process of elimination, is likely to be composed of a relatively small number of the surviving fittest who are benefited by special contact with health educational methods. There is the danger, therefore, that the end results will not be applicable for comparison with children not subjected to special influences, and with children of other sections of the country.

Although the measurements made by the United States Public Health Service constitute observations of different groups of individuals at each age, they may be compared with successive observations of a single group of individuals. Using the records recently published by Prof. B. T. Baldwin, the following comparison is afforded.[5]

TABLE VIII-A.—*Mean heights, mean weights, and mean weight-height indices of children of different ages measured by the United States Public Health Service, compared with corresponding measurements made periodically on a single group of children by Dr. B. T. Baldwin.*

Age at nearest birthday.	Height (inches).				Weight (pounds).				Weight-height index (pounds).			
	Boys.		Girls.		Boys.		Girls.		Boys.		Girls.	
	U. S. P. H. S.	Baldwin.	U. S. P. H. S.	Baldwin.	U. S. P. H. S.	Baldwin.	U. S. P. H. S.	Baldwin.	U. S. P. H. S.	Baldwin.	U. S. P. H. S.	Baldwin.
6	45.4	45.4	44.8	44.3	47.5	45.2	45.5	42.0	1.05	0.99	1.02	0.96
7	46.8	47.8	46.6	46.8	50.4	50.6	48.3	48.0	1.08	1.05	1.04	1.02
8	48.3	49.8	48.5	49.1	54.5	55.3	52.4	53.8	1.12	1.11	1.08	1.09
9	50.7	51.5	50.5	51.1	59.6	60.7	58.0	59.7	1.18	1.17	1.15	1.16
10	52.6	53.5	52.5	53.1	65.2	67.2	64.0	67.2	1.24	1.25	1.22	1.26
11	54.3	55.3	54.5	55.3	71.1	73.1	70.3	74.1	1.31	1.32	1.29	1.33
12	56.2	56.9	57.0	57.6	78.0	77.7	79.7	83.9	1.39	1.36	1.40	1.45
13	58.0	59.3	59.3	60.1	85.1	83.4	89.7	96.2	1.47	1.49	1.51	1.60
14	60.3	61.8	61.1	61.8	95.4	98.3	99.4	107.2	1.58	1.59	1.63	1.73
15	62.9	64.1	62.5	62.7	108.4	109.4	107.6	115.5	1.72	1.70	1.72	1.84
16	64.6	66.7	63.3	63.6	116.7	120.6	113.6	120.6	1.81	1.80	1.79	1.89

In the case of the boys, the height and weight curves follow the same general trend, with Baldwin's group slightly above that of the Public Health Service at practically every age. The weight-height indices for the two groups of boys are practically the same at each age except 6 years. In the case of the girls, the heights of the two groups follow much the same course, with a slight convergence of the curves at the older ages. The weight and the weight-height index curves for the girls show a tendency to diverge after 7 years of age, and the divergence is considerable by the age of 16. Some factor evidently influenced the growth of the girls measured periodically which failed to influence the girls measured by the United States Public Health Service. Otherwise the curves appear to be as similar as could be expected.

II. Difference in Heights and Weights of Children of the Same Sex and Age.

Thus far comparisons in this study have been made of average (mean) heights and weights, but at each age children differ considerably in these respects and the differences are greater at some ages than at others. The averages which have been studied do not take into account these differences because the average (arithmetic

[5] Physical Growth of Children from Birth to Maturity. By Bird T. Baldwin, University of Iowa Studies in Child Welfare, 1921. Baldwin's figures are based on semiannual measurements of an average of 125 boys and 125 girls from the Horace Mann School, Teachers' College, Columbia University, New York, for periods of 8 years or more. (P. 411.)

mean) does not show for any group of children the range of weights or heights, or the "dispersion" of weights or heights above and below the average.

The nature of these differences is shown by plotting the number of children at each height or weight. As in all biometrical distributions of this character, the distribution will be found to form a

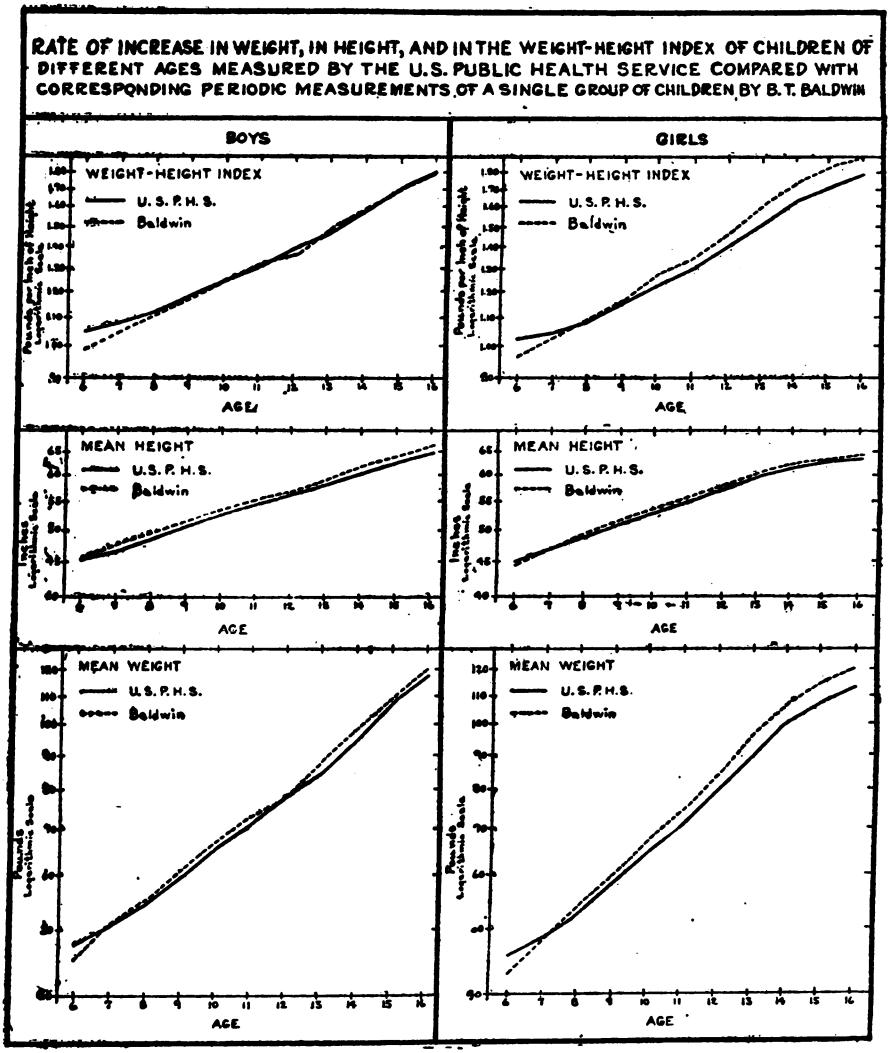


Fig. 3a.

more or less symmetrical frequency curve, which means that most of the children will tend to fall within rather narrow height or weight limits and fewer and fewer will fall in the classes toward either extreme. In plotting Figure 4, the percentages at each height or weight interval are used so as to reduce the data for the different ages to the same basis vertically.

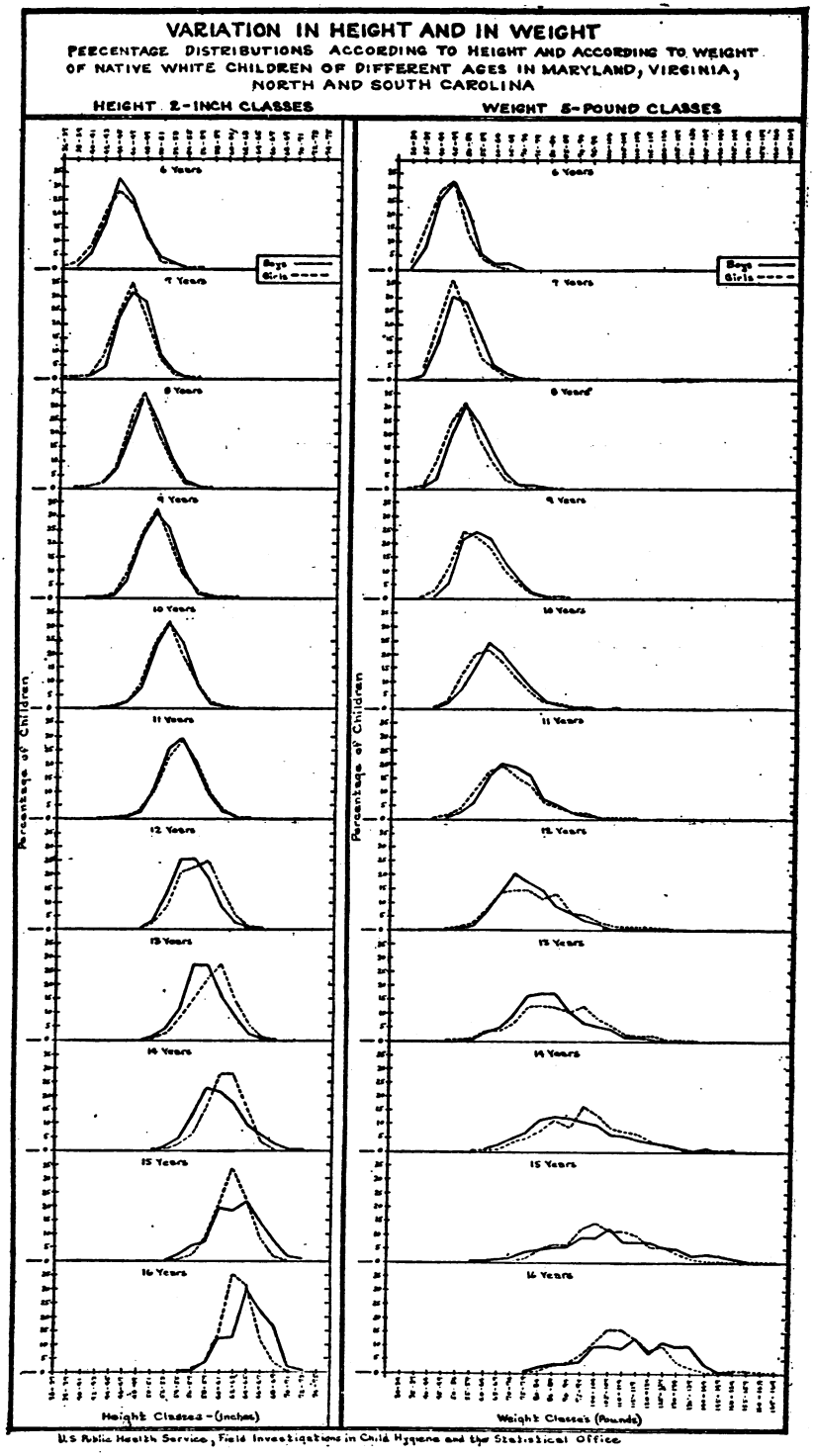

VARIATION IN HEIGHT AND IN WEIGHT
PERCENTAGE DISTRIBUTIONS ACCORDING TO HEIGHT AND ACCORDING TO WEIGHT OF NATIVE WHITE CHILDREN OF DIFFERENT AGES IN MARYLAND, VIRGINIA, NORTH AND SOUTH CAROLINA
HEIGHT 2-INCH CLASSES
WEIGHT 5-POUND CLASSES
6 Years
7 Years
8 Years
9 Years
10 Years
11 Years
12 Years
13 Years
14 Years
15 Years
16 Years
Boys
Girls
Percentage of Children
Height Classes - (Inches)
Weight Classes (Pounds)
U.S Public Health Service, Field Investigations in Child Hygiene and the Statistical Office

Fig. 4.

The differences in the *shape* of the curves for heights as well as for weights are quite marked when ages are compared. In general, the older the age, the flatter is the curve and hence the greater the dispersion. This means that children of a given age differ more widely in height or weight as they grow older. This statement should be qualified, however, for a closer study of the graphs affords the suggestion that the greatest dispersion or difference occurs at the age of puberty. Differences of this character are exhibited by both boys and girls.

STANDARD DEVIATION IN HEIGHTS AND WEIGHTS.

A more nearly exact expression of these differences than that afforded by the graphic method is necessary. The usual statistical term used to express the degree of differences in distribution is the standard deviation (σ), which, in turn, is expressed by (V) the coefficient of variability as a percentage of the mean. As the σ or the V is large or small, so the differences in the individual heights or weights are large or small.

In Table IX are given the standard deviations in heights and weights at each age for boys and girls and the corresponding coefficients of variability.

TABLE IX.—*Variation in heights and weights of boys and girls of the same age.*

As expressed in standard deviations in standing heights and weights at each age of 14,335 native white children in Maryland, Virginia, North and South Carolina, and the corresponding coefficients of variability.

Age at nearest birthday.	Standard deviation.		Coefficient of variability.	
	Boys.	Girls.	Boys.	Girls.
	STANDING HEIGHTS.			
6	2.77±0.068	3.21±0.081	6.10	7.17
7	2.58± .045	2.53± .044	5.51	5.43
8	2.54± .040	2.47± .040	5.20	5.09
9	2.66± .043	2.69± .043	5.25	5.33
10	2.64± .040	2.83± .044	5.02	5.39
11	2.82± .046	3.00± .049	5.19	5.50
12	3.03± .052	3.02± .051	5.39	5.30
13	2.93± .051	3.16± .057	5.05	5.33
14	3.83± .084	2.99± .062	6.35	4.89
15	3.85± .110	2.62± .039	6.12	4.19
16	2.99± .112	2.50± .031	4.63	3.95
	WEIGHTS.			
6	7.76±0.190	7.27±0.185	16.34	15.98
7	6.56± .115	6.26± .110	13.02	12.95
8	7.13± .113	7.39± .121	13.08	14.10
9	7.98± .128	9.24± .147	13.39	15.93
10	9.09± .139	10.79± .168	13.94	16.86
11	10.30± .166	12.87± .211	14.49	18.31
12	12.43± .212	14.85± .250	15.94	18.63
13	12.84± .235	16.41± .297	15.09	18.29
14	17.52± .385	14.75± .303	18.35	14.84
15	20.46± .585	16.38± .429	18.87	15.22
16	17.12± .644	16.24± .523	14.67	14.26

The coefficient of variability is, of course, the best expression of the degree of variation, since it takes into account the size of the mean from which the deviations are measured. As the table and the graph (Fig. 6) clearly show, there are marked differences in this coefficient for weight at different ages for the same sex and, when the sexes are compared, for the same age. After the age of 7 the variation of weight increases with age up to 13 years for girls and 15 years for boys, and then decreases, the decrease thus beginning at an earlier age for girls than for boys.

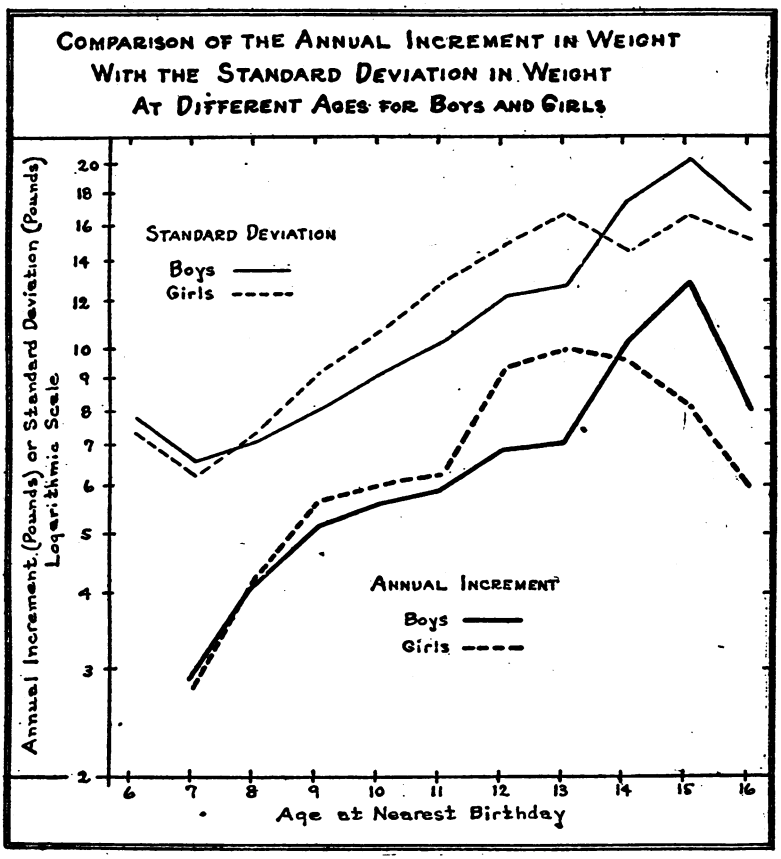


Fig. 5.

RATE OF GROWTH AND VARIATION IN WEIGHT.

It is of interest to inquire the reasons for the greater variation in weight at certain ages. While it might be due in part to a greater percentage of abnormal children at certain ages who may vary more from the mean than the normal children, the rapidity of growth as expressed by the mean annual increment in weight is definitely associated with variation in weight, as shown in Figure 5.

A comparison of the mean annual increment (see Table VIII) with the standard deviation (see Table IX) for the same sex shows this correlation in a more striking manner. The variation in weight seems to increase or decrease with the mean annual increment. That is to say, children vary most in weight at the periods of the most rapid increase in weight.

These differences from the point of view of sex are also striking. The degree of variation in weight for boys and girls of the same age

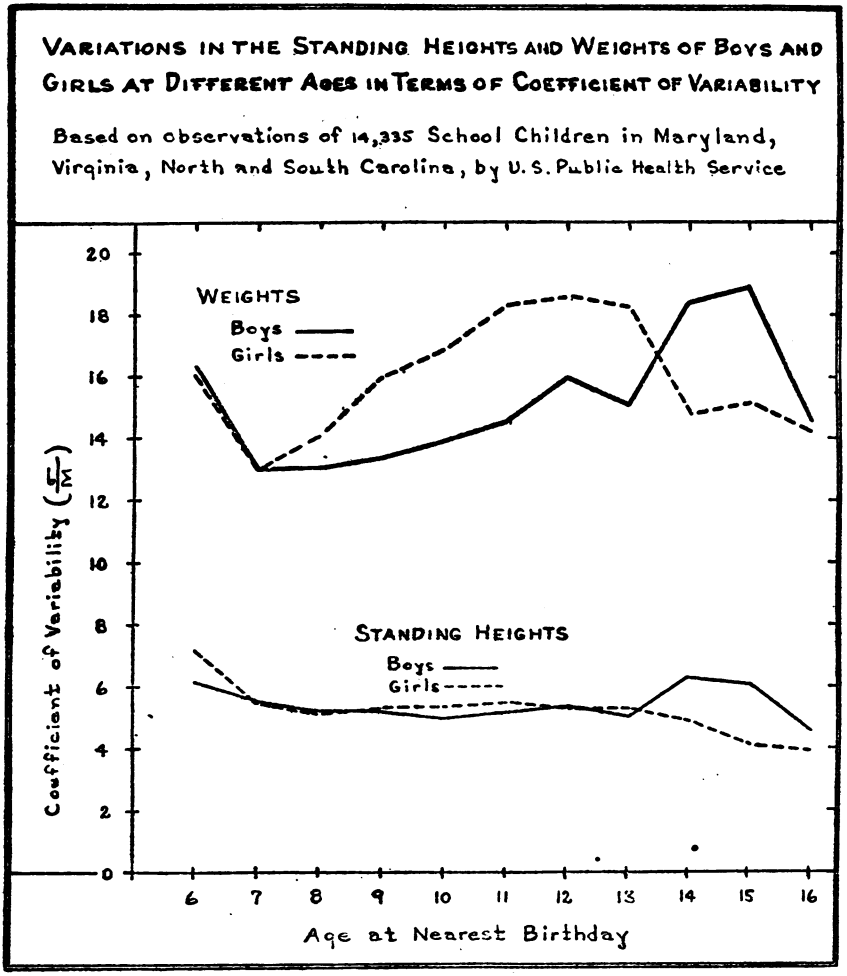


Fig. 6.

is by no means the same as the standard deviations (see Table IX and Figure 5, upper curves) clearly indicate. The same sort of differences between the sexes is shown when the annual increment in pounds is compared. (See Table VIII and Figure 5, lower curves.)

RELATION OF HEIGHT TO VARIATIONS IN WEIGHT.

In comparing the degree of variation in weights for boys and girls the factor of height must also be considered The degree of variation

as expressed by the coefficient of variability is plotted for weights and heights for either sex in Figure 6.

Since the two sets of curves are quite different in some respects, an attempt has been made to see what the coefficients of variability in weight would be if no variation in heights had existed. This has been done by a method of averaging the coefficients of variability in weight for children of a given age at each inch of height, a method which is admittedly somewhat crude but accurate enough for the purpose in view.[6]

TABLE X.—*Variation in weights of boys and girls of the same age, after eliminating (roughly) the effect of variation in height.*

As expressed by the weighted averages of the coefficients of variability for weight at each inch of height.

Age at nearest birthday.	Averages of the coefficients of variability.	
	Boys.	Girls.
6	8.48	8.55
7	9.08	8.39
8	8.99	8.73
9	8.65	10.74
10	9.49	11.25
11	9.95	12.01
12	10.28	12.15
13	10.40	12.60
14	10.51	13.30
15	9.66	12.68
16	9.04	11.50

The results given in Table X are shown graphically in Figure 7.

It appears that girls over 8 years of age vary with respect to weight in a considerably greater degree than boys of the same age and of the same approximate height. The degree of variation is somewhat more pronounced after the age of 13.

III. Correlation of Height and Weight.

Thus far the children of given age and sex have been considered from two standpoints: First, as constituting groups, using the average (mean) heights and weights of different sex-age groups for making comparisons; and, second, as individuals, using the standard deviation and coefficient of variability as measures of variation for determining the degree individual children differ in respect of height and weight. It now remains to consider the differences occurring in individual children in each group from the point of view of the relation of variation in height to variation in weight. That is, how closely do variations in height correspond to variations in weight among children of different ages and sexes? Obviously, if there is a very close relationship, there must be a marked uniformity in the

[6] See appendix, Tables XV and XVI, for the coefficients of variability at each height. The coefficients of variability in weight of children of a given age increase little, if any, with increase in height. It therefore seemed feasible to average these coefficients for a given age group in order to get an expression of the average relative variation in weight of children of any given height for that age.

weight of children, taking height into account; if there is not a very marked relationship, children of a given height, age, and sex will differ widely in weight. The importance of this phase of the discussion does not lie so much in demonstrating the fact that a relationship of this kind exists, since in the very nature of things it must exist, as in discovering the differences in degree of correlation for the various sex and age groups.

COEFFICIENT OF CORRELATION.

A comparison of this kind would be a very detailed and difficult task if no single measure of the relationship between the degree of

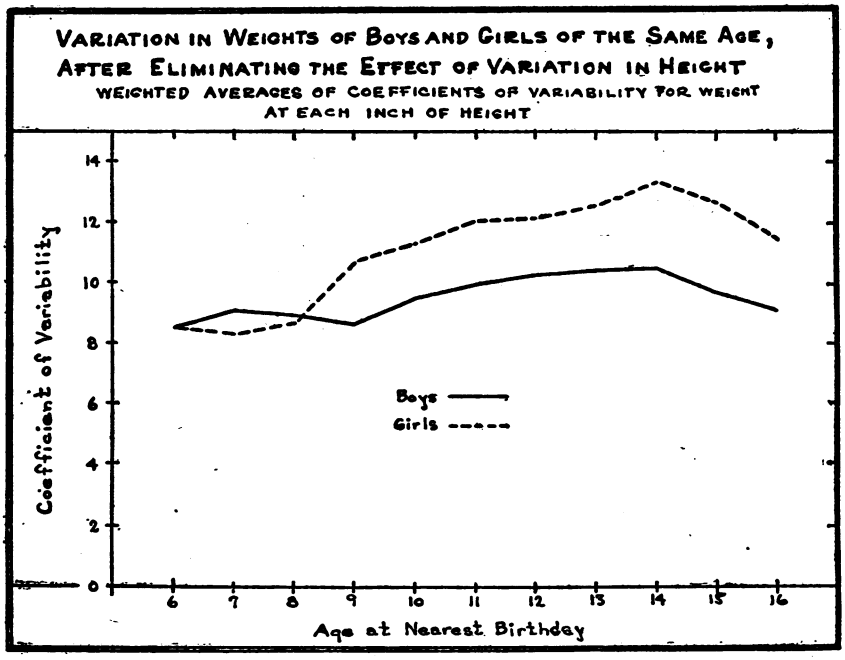


Fig. 7.

the two variations could be used. Such a statistical measure exists in the coefficient of correlation and the correlation ratio. When this coefficient or ratio is zero there is no relationship whatsoever. When it is 1, or unity, the relationship is perfect; that is, the variation in one (e. g., height) is accompanied by exactly the same variation, relatively, in the other (e. g., weight). The nearer unity, the closer the relationship between the two variables.[7]

[7] The coefficient of correlation (r) is the generally used statistical measure of linear or straight line correlation between two variables. If the items (individuals) are plotted with heights as ordinates and weights as abscissæ, and the points (or the means of the weights at the different heights) tend to fall along a straight line, the correlation is said to be linear. But if the points tend to fall along a curved line, the correlation is said to be nonlinear and, under certain conditions, the correlation ratio (η) is a better measure of the correlation between the two variables. If the ratio (η) is significantly larger than the coefficient (r), it is an indication of nonlinearity.

In the case of the heights and weights of children in this study, the differences between the correlation ratio and the coefficient are not marked except at a few ages, but in practically every instance they are found to be significant if Blakeman's criterion of nonlinearity is applied. That is, the correlation ratio is a more nearly accurate expression of correlation than the coefficient for the material used in this study.

The correlation ratios as well as the coefficients of correlation for heights and weights of boys and girls at each age are given in Table XI, together with their probable errors. (Editor's note: The correlation tables are not given here, but will be published with the reprint of this article.)

TABLE XI.—*Correlation of standing heights and weights of native white children in Maryland, Virginia, North and South Carolina.*

Age at nearest birthday.	Correlation ratio of weight on height (η).	Coefficient of correlation (r).
	BOYS.	
6	0.830±0.0108	0.782±0.0134
7	.704± .0125	.603± .0157
8	.718± .0109	.682± .0120
9	.744± .0101	.643± .0133
10	.720± .0104	.693± .0113
11	.726± .0108	.657± .0130
12	.736± .0111	.706± .0121
13	.720± .0125	.687± .0137
14	.816± .0104	.795± .0114
15	.853± .0110	.842± .0118
16	.784± .0225	.736± .0244
	GIRLS.	
6	0.788±0.0136	0.675±0.0195
7	.725± .0118	.679± .0134
8	.751± .0101	.719± .0111
9	.724± .0107	.661± .0127
10	.709± .0110	.660± .0125
11	.695± .0120	.647± .0135
12	.719± .0115	.703± .0120
13	.707± .0128	.669± .0141
14	.692± .0153	.643± .0172
15	.543± .0262	.427± .0303
16	.592± .0296	.565± .0310

As may be expected, in all instances the correlation is high and, from the point of view of the probable error, significant. The degree of correlation, however, varies considerably in the different ages and as between boys and girls. These differences are not merely accidental, but indicate definite trends. In order to visualize the differences the correlation ratios have been plotted in Figure 8.

The correlation of height and weight is quite high at 6 years of age for both boys and girls in this particular group of children. From 7 to 13 years of age the correlation for both sexes is lower and similar, although that for the girls is slightly lower after 8 years than for boys. After the age of 13 there is a marked divergence, the correlation for boys being quite high and that for girls relatively low.

Stated in other words, the weights of both boys and girls vary in pretty much the same way as do the heights in the ages under the age of 14, the taller the children the more they weigh according to a fairly constant ratio; but in the ages 14 to 16, height or weight appear to be affected to a markedly greater extent by some other factor or factors.

VARIATION IN WEIGHT PER INCH OF VARIATION IN HEIGHT.

This may be expressed more exactly by stating the variation in weight (pounds) per inch of variation in height at each age, as shown in Table XII, and graphically in Figure 9.[8]

TABLE XII.—*Variation in weight (pounds) per inch of variation in height compared for boys and girls at different ages.*

Coefficient of regression of weight on height of native white children of Maryland, Virginia, North and South Carolina by sex and age.

Age at nearest birthday.	Coefficient of regression of weight on height (pounds).	
	Boys.	Girls.
6	2.19	1.52
7	1.53	1.68
8	1.91	2.15
9	1.92	2.27
10	2.38	2.52
11	2.41	2.79
12	2.91	3.44
13	3.02	3.48
14	3.66	3.16
15	4.46	2.69
16	4.24	3.70

From 7 to 13 years, inclusive, the variation in weight per inch of variation in height was less among boys than girls; at 6, 14, 15, and 16 years of age the opposite was true.

IV. Summary.

1. The basis of this study consists of height and weight measurements of 14,335 native white school children from 6 to 16 years of age made by officers of the United States Public Health Service in representative localities of Maryland, Virginia, and North and South Carolina.

2. The mean heights of the girls 11 to 14 years of age, inclusive, and the mean weights of the girls 12 to 14 years, inclusive, are greater than those of the boys of the same ages. At the other ages studied the boys are taller and heavier than the girls. The weight-height index (weight per inch of height) of the girls exceeds that of the boys from 12 to 14 years and is equal at 15 years; at the other ages studied, it is greater for boys than for girls.

3. The annual increment in weight of the girls exceeds that of the boys from 8 to 13 years, inclusive. At the other ages studied it is greater for boys. However, when the annual increment in weight

[8] The coefficient of regression of weight on height (computed from the coefficient of correlation (r) for a given age indicates the *average* difference in weight (pounds) per inch of difference in height.

per inch of increment in height is considered, it is found greater for girls than boys at every age after 6, except 10 years.

4. Variations in height and in weight differ markedly for different sex-age groups and are closely associated with the rate of increase in weight. When variation in weight is considered independently of variation in height, the boys 14 to 16 years of age vary considerably more in weight than the girls of the same age. But when the effect of variation in height is eliminated, the girls vary more in weight than the boys of the same age at all ages above 8 years. In other

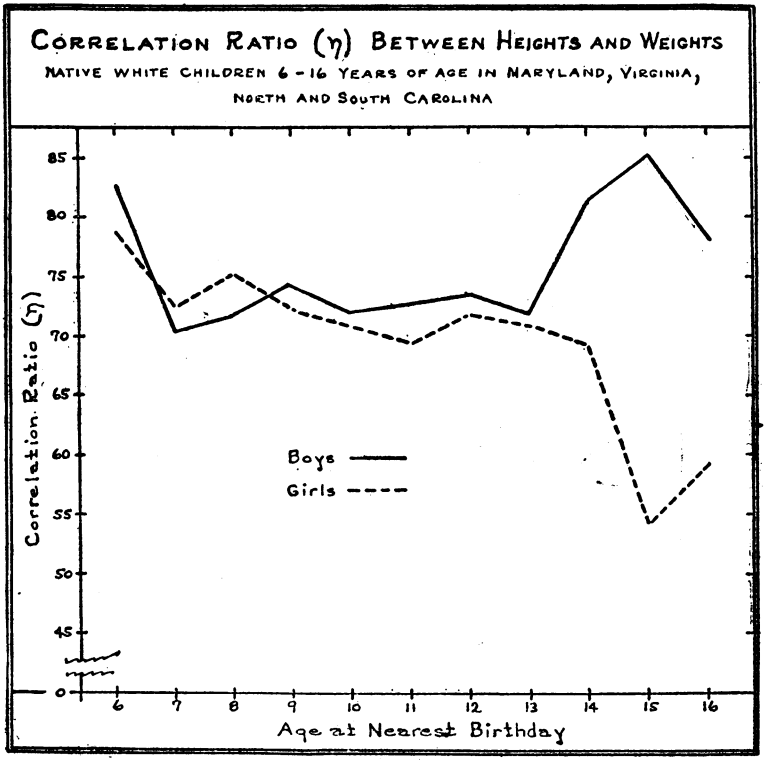


Fig. 8.

words, girls after 8 years of age vary more in weight than boys of the same age and height.

5. Correlation between heights and weights was found to be lower for the girls than for the boys at all ages above 8 years and markedly lower after 13 years of age.

V. Height-Weight Tables.

Since it appears that variability in weight differs with sex, age, and height, it seems that averages which best represent a group of children are those which take all of these factors into account. It there-

fore seemed best to present the final results of the study as average weights of boys and girls of each age, by height groups. A series of mean weights was therefore computed independently for children at each year of age and at each inch of height. In order to approximate the true average weights which would be the result of measuring an infinite number of children, it was necessary to smooth the weights computed independently. Smoothed averages were derived from data shown in the tables[9] in the appendix by a formula from the

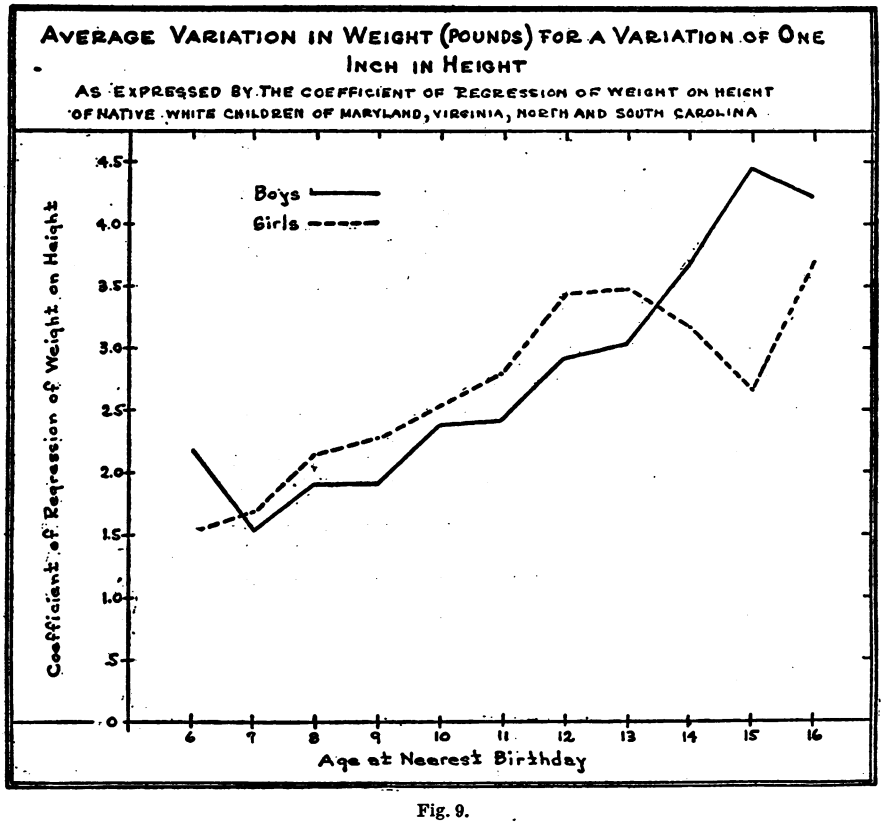


Fig. 9.

method of least squares, which give a series of weights representing the most probable smooth curve which could be constructed from the data.[10] The smoothed averages are shown in Tables XIII and XIV.

[9] The actual average weights, the standard deviations, and the coefficients of variability are given by single-year age groups and single inch-height classes in appendix Tables XV and XVI. The number of children whose measurements were considered in making up each average is also shown.

[10] Let Y=weight and X=height; then it was assumed that at any given height, X, $Y=a+bx+cx^2+dx^3$. The coefficients a, b, c, and d were evaluated by the method of least squares for each sex and age, and the smoothed weights were computed by substituting in the original equation.

TABLE XIII.—*Smoothed average weights for each inch of height of native white schoolboys in Maryland, Virginia, and North and South Carolina, ages 6 to 16 years, inclusive, for each year of age.*

Height, nearest inch.	Weight, nearest pound at each age, nearest birthday.										
	6 years.	7 years.	8 years.	9 years.	10 years.	11 years.	12 years.	13 years.	14 years.	15 years.	16 years.
41	39										
42	41										
43	43	43									
44	44	44	47								
45	46	46	48								
46	48	48	49	50	50						
47	50	50	50	51	52						
48	52	52	52	53	54	55					
49	54	54	54	55	56	57					
50	.....	56	56	57	58	59					
51	.....	59	59	60	61	61	65				
52	.....	.....	61	62	64	64	67	67			
53	.....	.....	64	65	66	67	69	69			
54	.....	.....	67	68	69	70	71	72	75		
55	.....	.....	.....	72	72	73	74	75	77		
56	.....	.....	.....	74	74	76	76	78	80		
57	.....	.....	.....	.....	77	79	80	81	83		
58	.....	.....	.....	.....	80	82	83	85	86		
59	.....	.....	.....	.....	.....	84	86	88	90	90	
60	.....	.....	.....	.....	.....	86	89	91	93	95	
61	.....	.....	.....	.....	.....	.....	92	95	97	100	
62	.....	.....	.....	.....	.....	.....	.....	99	102	104	104
63	.....	.....	.....	.....	.....	.....	.....	103	106	109	109
64	.....	.....	.....	.....	.....	.....	.....	107	111	113	114
65	.....	.....	.....	.....	.....	.....	.....	.....	116	118	118
66	.....	.....	.....	.....	.....	.....	.....	.....	121	124	124
67	.....	.....	.....	.....	.....	.....	.....	.....	.....	130	130
68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	136

TABLE XIV.—*Smoothed average weights for each inch of height of native white schoolgirls in Maryland, Virginia, and North and South Carolina, ages 6 to 16 years, inclusive, for each year of age.*

Height, nearest inch.	Weight, nearest pound at each age, nearest birthday.										
	6 years.	7 years.	8 years.	9 years.	10 years.	11 years.	12 years.	13 years.	14 years.	15 years.	16 years.
39	38										
40	39										
41	40										
42	41	42									
43	42	42	42								
44	43	43	43								
45	45	45	45								
46	47	47	47	47	47						
47	49	49	49	49	49						
48	51	51	51	52	52	52					
49	53	53	54	54	55	55					
50	.....	55	56	56	57	58					
51	.....	57	58	59	60	60	62				
52	.....	58	60	61	62	63	64				
53	.....	.....	61	64	65	65	66	69			
54	.....	.....	.....	67	68	68	69	70			
55	.....	.....	.....	71	71	71	72	73			
56	.....	.....	.....	73	73	74	75	76	81		
57	.....	.....	.....	.....	76	77	79	79	84	89	
58	.....	.....	.....	.....	79	81	83	83	87	92	
59	.....	.....	.....	.....	.....	86	87	88	91	95	
60	.....	.....	.....	.....	.....	90	90	92	95	99	103
61	.....	.....	.....	.....	.....	.....	94	96	99	102	106
62	.....	.....	.....	.....	.....	.....	98	100	103	105	109
63	.....	.....	.....	.....	.....	.....	101	104	107	108	112
64	.....	.....	.....	.....	.....	.....	.....	108	110	112	115
65	.....	.....	.....	.....	.....	.....	.....	110	114	115	119
66	.....	.....	.....	.....	.....	.....	.....	.....	116	119	125
67	.....	.....	.....	.....	.....	.....	.....	.....	.....	122	

No attempt was made to carry the smoothed mean weight series to the extreme limits of heights. In the first place reliable averages could not be computed because of the relatively small number of children observed. In the second place averages would probably not be good criteria of the correct weights of extremely short or extremely tall children, inasmuch as those who vary so widely in height from the mean could not be assumed to conform to any computed or assumed mean weights. It is not claimed, however, that this table reaches the limits of normality, especially in the older ages; but it appeared better to keep within safe limits where the data could be relied upon than to try to make a complete table if it were necessary to use unreliable figures for the extremes.

It is suggested that this table, which is based on measurements of native white children in four representative Southern States, might serve as a table of correct weights among such children of the South. The usual tables of this sort are based on measurements of children of various racial stocks or distinctly selected groups of children, and it would seem that a table, based on measurements of children of a single race stock from one section of the country, would better represent the white children of that section. It should be borne in mind, however, that the older ages, particularly the 16-year-old boys, probably are not representative, because of the small number considered and selection due to children dropping out of school.

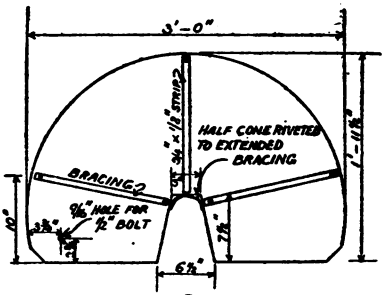
THE PANAMA CANAL RAT GUARD.

By W. C. Rucker, Surgeon, United States Public Health Service; Chief Quarantine Officer, Panama Canal.

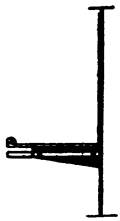
The world diffusion of plague and the ever present danger from rats being carried from port to port by ships constitute a serious health hazard at the Panama Canal. Every possible precaution is therefore taken to prevent the embarkation and disembarkation of rats in Canal Zone ports, and the rat-guarding of ships thus becomes a matter of very considerable importance. To meet a need in this regard, with respect to one route of communication between shore and shipboard, there has been developed an extremely efficient and practical rat guard for ships' lines. Many of its features are not new and are simply improvements and adaptations of the best features of other forms of guards.

SPECIAL FEATURES.

The rigidity of the Panama Canal rat guard is insured by the straps, which are riveted to it. These turn sharply at right angles and hold the guard perpendicular to the line. They are riveted to half-cones, which permit the guard to fit any line accurately. The lashing is a permanent part of the guard. The guard is painted to

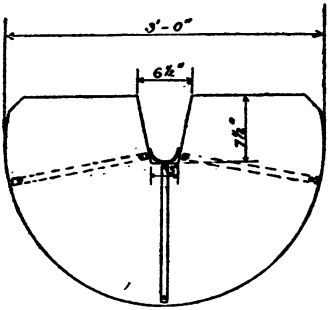


UPPER SECTION
FRONT VIEW

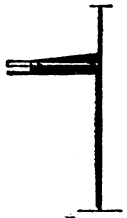


SIDE VIEW

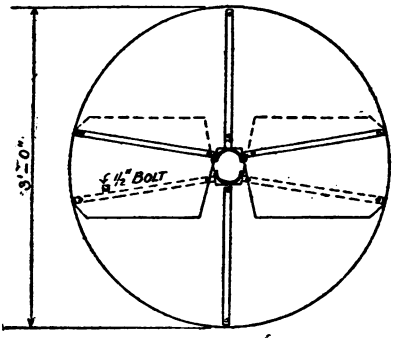
NOTES:-
MATERIAL 1/16" SHEET IRON
BRACING STRIPS 3/4" x 1/2"



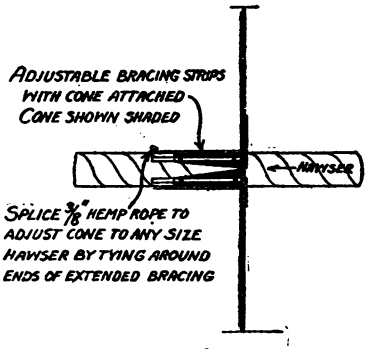
LOWER SECTION
FRONT VIEW
PATTERN SAME AS UPPER SECTION



SIDE VIEW



ASSEMBLED GUARD
FRONT VIEW

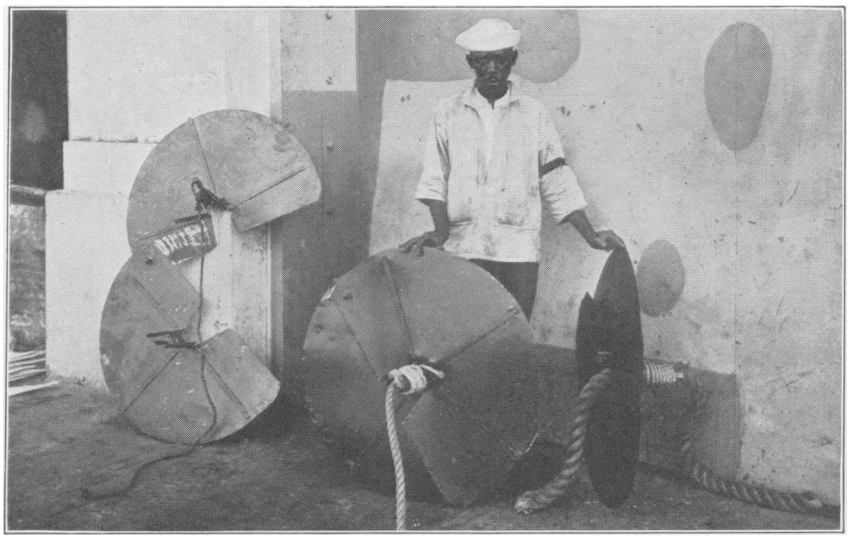


SIDE VIEW

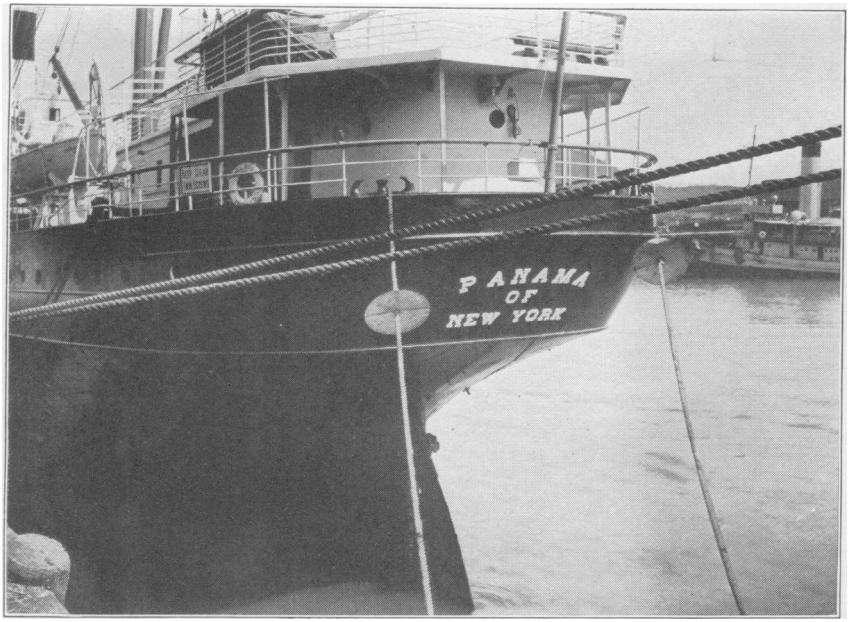
DETAILS OF PANAMA CANAL RAT GUARD

L. H. WILDER.

Fig. 1.



A. The Panama Canal rat guard. The strap-iron reinforcements give it rigidity and hold it perpendicular to the line. The lashing is a permanent part of the guard, and the half-cones make it fit any line accurately. It is easily and quickly applied and light enough to facilitate handling.



B. Panama Canal rat guard at left; ordinary rat guard at right.

protect it from the weather. It is not bent easily. It weighs 30 pounds and is easily handled. The cost is $4.70, as shown by the following list of materials and prices:

Material.

	Cost.
26½ pounds (one-half sheet) iron, galvanized, 36 by 96 inches, 18 gage, at $8.64 per hundredweight	$2.29
4 pounds (12 feet) strap iron, galvanized, ¾ by ⅛ inch, at $11.63 per hundredweight	.47
20 rivets, ½ by ½ inch, galvanized	.05
6 feet rope, ½-inch	.06
	2.87
Labor	1.83
Total	4.70

OHIO LAWS CREATING HEALTH DISTRICTS HELD CONSTITUTIONAL.[1]

The Hughes Health Act and the Griswold Health Act, passed by the Ohio Legislature in 1919, and under the terms of which each city in the State is constituted a city health district and the townships and villages in each county are combined into a general health district, have been declared constitutional by the Supreme Court of Ohio.

PHYSICIAN FINED FOR ISSUING IMPROPER SCHOOL CERTIFICATES.

According to the Weekly Bulletin of the New York City Department of Health, a physician in New York City was recently fined for issuing certificates allowing the return to school of two children, one of whom had been reported to the health department but two days previously as suffering from scarlet fever, and the other a brother who had been exposed to the case. The certificates stated that "they may return to school without any menace to other children."

DEATHS DURING WEEK ENDED MAY 6, 1922.

Summary of information received by telegraph from industrial insurance companies for week ended May 6, 1922, and corresponding week, 1921. (From the Weekly Health Index, May 9, 1922, issued by the Bureau of the Census, Department of Commerce.)

	Week ended May 6, 1922.	Corresponding week, 1921.
Policies in force	49,715,225	46,215,876
Number of death claims	9,418	8,279
Death claims per 1,000 policies in force, annual rate	9.9	9.3

[1] State *ex rel.* Village of Cuyahoga Heights *v.* Zangerle, County Auditor, and State *ex rel.* City of West Park *v.* Same, 134 N. E. 686.

Deaths from all causes in certain large cities of the United States during the week ended May 6, 1922, infant mortality, annual death rate, and comparison with corresponding week of 1921. (From the Weekly Health Index, May 9, 1922, issued by the Bureau of the Census, Department of Commerce).

City.	Estimated population July 1, 1922.	Week ended May 6, 1922.		Annual death rate per 1,000, corresponding week, 1921.	Deaths under 1 year.		Infant mortality rate, week ended May 6, 1922.[2]
		Total deaths.	Death rate.[1]		Week ended May 6, 1922.	Corresponding week, 1921.	
Total	27,855,509	7,126	13.3	11.9	972	903	.....
Akron, Ohio	[3] 203,435	42	10.5	7.3	8	4	85
Albany, N. Y.	116,223	40	17.9	14.5	6	4	135
Atlanta, Ga.	220,047	52	12.3	13.3	7	8	.....
Baltimore, Md.	762,222	209	14.3	13.5	20	32	56
Birmingham, Ala.	191,017	48	13.1	16.2	3	14	.....
Boston, Mass.	764,017	236	16.1	14.4	43	31	115
Bridgeport, Conn.	[3] 143,555	35	12.7	9.7	5	7	62
Buffalo, N. Y.	528,163	133	13.1	13.1	20	10	79
Cambridge, Mass.	110,944	27	12.7	12.3	2	4	37
Camden, N. J.	121,915	33	14.1	12.6	9	5	138
Chicago, Ill.	2,833,288	688	12.7	10.8	118	92	.....
Cincinnati, Ohio.	404,865	116	14.9	13.7	10	11	67
Cleveland, Ohio.	854,003	166	10.1	9.3	40	49	103
Columbus, Ohio.	253,455	76	15.6	11.9	14	6	148
Dallas, Tex.	171,974	37	11.2	10.4	3	6	.....
Dayton, Ohio.	161,824	37	11.9	10.6	5	4	85
Denver, Colo.	267,591	67	13.1	11.3	4	9	.....
Detroit, Mich.	[3] 993,678	245	12.9	10.6	47	56	90
Fall River, Mass.	120,790	43	18.6	13.8	6	9	84
Fort Worth, Tex.	114,717	23	10.5	.....	2	.....	.....
Grand Rapids, Mich.	143,572	34	12.3	7.4	7	.....	117
Houston, Tex.	150,087	28	9.7	8.3	5	3	.....
Indianapolis, Ind.	333,257	109	17.1	14.1	10	12	76
Jersey City, N. J.	305,911	71	12.1	13.8	6	11	38
Kansas City, Kans.	105,688	21	10.4	13.6	3	4	69
Kansas City, Mo.	343,988	113	17.1	13.8	16	11	.....
Los Angeles, Calif.	634,866	193	15.9	12.2	20	11	83
Louisville, Ky.	236,877	67	14.7	11.5	11	4	119
Lowell, Mass.	114,423	35	16.0	13.3	6	5	101
Memphis, Tenn.	167,862	56	17.4	12.3	7	6	.....
Milwaukee, Wis.	476,603	117	12.8	9.0	27	15	132
Minneapolis, Minn.	400,970	85	11.1	11.0	7	6	38
Nashville, Tenn.	122,832	34	14.4	11.5	1	3	.....
New Bedford, Mass.	127,542	38	15.5	10.0	7	6	104
New Haven, Conn.	169,987	39	12.0	14.1	8	8	98
New Orleans, La.	399,616	124	16.2	15.9	18	15	.....
New York, N. Y.	5,839,746	1,508	13.5	11.8	197	200	76
Newark, N. J.	431,792	93	11.2	12.9	10	12	44
Norfolk, Va.	124,915	19	7.9	10.3	5	3	89
Oakland, Calif.	233,279	42	9.4	7.6	6	4	76
Omaha, Nebr.	200,739	57	14.8	15.9	8	8	95
Paterson, N. J.	133,521	27	10.2	10.2	1	2	15
Philadelphia, Pa.	1,894,500	487	13.4	11.7	49	43	58
Pittsburgh, Pa.	607,902	178	15.3	16.2	30	25	96
Portland, Oreg.	269,240	78	15.1	10.0	8	5	79
Providence, R. I.	241,011	63	13.6	11.3	8	7	63
Richmond, Va.	178,335	47	13.7	11.0	4	6	49
Rochester, N. Y.	311,548	75	12.6	14.4	10	16	77
St. Louis, Mo.	795,008	182	11.9	10.9	14	16	.....
St. Paul, Minn.	239,833	55	12.0	11.2	2	4	19
Salt Lake City, Utah	123,918	22	9.3	11.6	3	4	45
San Francisco, Calif.	529,792	148	14.6	13.6	11	11	63
Seattle, Wash.	[3] 315,312	75	12.4	11.8	6	5	51
Spokane, Wash.	104,445	22	11.0	12.5	5	1	107
Springfield, Mass.	140,052	32	11.9	13.0	6	6	89
Syracuse, N. Y.	181,012	56	16.1	12.1	11	9	132
Toledo, Ohio.	260,717	61	12.2	10.7	4	7	39
Trenton, N. J.	125,075	32	13.3	10.6	6	3	92
Washington, D. C.	[3] 437,571	125	14.9	12.5	16	12	92
Wilmington, Del.	115,568	16	7.2	10.1	1	3	19
Worcester, Mass.	188,449	49	13.6	14.1	10	5	108
Yonkers, N. Y.	105,422	28	13.8	7.6	3	2	63
Youngstown, Ohio.	144,970	32	11.5	12.3	7	12	92

[1] Annual rate per 1,000 population.
[2] Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1921. Cities left blank are not in the registration area for births.
[3] Enumerated population Jan. 1, 1920.

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 STATE SUMMARIES.

Telegraphic Reports for Week Ended May 13, 1922.

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

ALABAMA.

	Cases.
Chicken pox	17
Diphtheria	6
Hookworm disease	28
Malaria	18
Measles	4
Pellagra	2
Scarlet fever	2
Smallpox	20
Tuberculosis	10
Typhoid fever	11
Whooping cough	4

ARKANSAS.

Chicken pox	1
Diphtheria	4
Influenza	10
Malaria	73
Measles	5
Pellagra	6
Scarlet fever	1
Smallpox	1
Tuberculosis	7
Typhoid fever	1
Whooping cough	8

CALIFORNIA.

Cerebrospinal meningitis:	
Los Angeles	1
Los Angeles County	1
Riverside	1
Diphtheria	113
Influenza	29
Leprosy—San Francisco	1
Lethargic encephalitis:	
Fresno	1
Los Angeles	2
San Rafael	1
Santa Clara	1
Vallejo	1

CALIFORNIA—continued.

	Cases.
Measles	33
Scarlet fever	126
Smallpox	28
Typhoid fever	9

COLORADO.

(Exclusive of Denver.)

Chicken pox	19
Diphtheria	15
Influenza	1
Measles	2
Mumps	8
Pneumonia	12
Poliomyelitis	1
Scarlet fever	27
Septic sore throat	1
Smallpox	8
Tuberculosis	53
Typhoid fever	2
Typhus fever	1
Whooping cough	35

DELAWARE.

Anthrax—Wilmington	1
Chicken pox	10
Diphtheria	1
Influenza	1
Pneumonia	4
Scarlet fever:	
Wilmington	12
Scattering	3
Tuberculosis	3
Typhoid fever	3

FLORIDA.

Diphtheria	25
Influenza	35
Malaria	22
Pneumonia	49

FLORIDA—continued.

	Cases.
Scarlet fever	1
Smallpox	20
Typhoid fever	17

GEORGIA.

Cerebrospinal meningitis	1
Chicken pox	2
Diphtheria	8
Dysentery (bacillary)	4
German measles	1
Hookworm disease	4
Influenza	8
Malaria	30
Measles	3
Mumps	3
Pellagra	1
Pneumonia	7
Scarlet fever	4
Smallpox	15
Tuberculosis (pulmonary)	3
Typhoid fever	10
Whooping cough	31

ILLINOIS.

Cerebrospinal meningitis—Chicago	1
Diphtheria:	
Chicago	102
Scattering	55
Influenza	15
Pneumonia	313
Scarlet fever:	
Chicago	83
Oak Park	12
Rockford	10
Scattering	65
Smallpox:	
Peoria	14
Scattering	32
Typhoid fever:	
Kewanee	18
Scattering	25
Whooping cough	97

INDIANA.

Diphtheria	30
Rabies in animals:	
Decatur County	1
Putnam County	1
Sullivan County	1
Vigo County	1
Scarlet fever	31
Smallpox	19
Typhoid fever	2

IOWA.

Diphtheria	8
Scarlet fever	34
Smallpox	33

KANSAS.

Cerebrospinal meningitis	2
Chicken pox	73
Diphtheria	33
German measles	2
Influenza	15
Measles	18

KANSAS—continued.

	Cases.
Mumps	24
Pneumonia	17
Scarlet fever	35
Smallpox	26
Tetanus	1
Trachoma	1
Tuberculosis	80
Typhoid fever	8
Whooping cough	18

LOUISIANA.

Diphtheria	6
Influenza	13
Scarlet fever	3
Smallpox	13
Typhoid fever	10

MARYLAND.[1]

Chicken pox	69
Diphtheria	29
Dysentery	1
German measles	6
Influenza	22
Lethargic encephalitis	1
Measles	351
Mumps	119
Pneumonia (all forms)	90
Scarlet fever	50
Septic sore throat	3
Tuberculosis	72
Typhoid fever	10
Whooping cough	21

MASSACHUSETTS.

Cerebrospinal meningitis	3
Chicken pox	100
Conjunctivitis (suppurative)	9
Diphtheria	125
Dysentery	2
German measles	34
Influenza	9
Lethargic encephalitis	12
Malaria	2
Measles	1,025
Mumps	124
Ophthalmia neonatorum	11
Pellagra	2
Pneumonia (lobar)	117
Scarlet fever	153
Septic sore throat	4
Trachoma	1
Tuberculosis (all forms)	137
Typhoid fever	10
Whooping cough	93

MINNESOTA.

Cerebrospinal meningitis	8
Chicken pox	33
Diphtheria	47
Influenza	8
Measles	113
Pneumonia	16
Scarlet fever	116
Smallpox	57
Tuberculosis	125
Typhoid fever	5
Whooping cough	5

[1] Week ended Friday.

MISSOURI.

	Cases.
Cerebrospinal meningitis	2
Chicken pox	31
Diphtheria	31
Epidemic sore throat	7
Influenza	8
Measles	31
Mumps	22
Pneumonia	20
Scarlet fever	31
Smallpox	26
Tetanus	1
Trachoma	3
Tuberculosis	88
Typhoid fever	9
Whooping cough	18

MONTANA.

Diphtheria	6
Rocky Mountain spotted or tick fever:	
Broadview	1
Grassrange	1
Lo Lo	1
Union	1
Scarlet fever	11
Smallpox	11
Typhoid fever	1

NEBRASKA.

Chicken pox	26
Diphtheria	13
Measles:	
Lincoln	68
Omaha	23
Schuyler	11
Scattering	7
Mumps	20
Scarlet fever	29
Smallpox:	
Scottsbluff	9
Scattering	24
Typhoid fever	2
Whooping cough	5

NEW JERSEY.

Anthrax	1
Cerebrospinal meningitis	1
Chicken pox	119
Diphtheria	123
Influenza	11
Malaria	1
Measles	1,153
Pneumonia	129
Scarlet fever	215
Smallpox	1
Typhoid fever	11
Typhus fever	1
Whooping cough	113

NEW MEXICO.

Chicken pox	3
Conjunctivitis	1
Diphtheria:	
Albuquerque	8
Scattering	12
Influenza	8
Mumps	4

NEW MEXICO—continued.

	Cases.
Pneumonia	4
Scarlet fever	5
Smallpox	3
Tuberculosis	28
Whooping cough	1

NEW YORK.

(Exclusive of New York City.)

Cerebrospinal meningitis	1
Diphtheria	107
Influenza	43
Lethargic encephalitis	4
Measles	723
Pneumonia	317
Poliomyelitis	1
Scarlet fever	277
Tetanus	1
Typhoid fever	24
Whooping cough	194

NORTH CAROLINA.

Chicken pox	103
Diphtheria	24
Measles	68
Scarlet fever	14
Smallpox	29
Typhoid fever	12
Whooping cough	182

OREGON.

Chicken pox	14
Diphtheria:	
Portland	11
Scattering	2
Influenza	4
Pneumonia	10
Poliomyelitis	1
Scarlet fever:	
Portland	10
Scattering	3
Septic sore throat	1
Smallpox	3
Tuberculosis	15

SOUTH DAKOTA.

Cerebrospinal meningitis	1
Chicken pox	20
Diphtheria	3
Measles	19
Pneumonia	4
Scarlet fever	11
Smallpox	3
Trachoma	2
Tuberculosis	7
Typhoid fever	1

TEXAS.

Diphtheria	18
Influenza	21
Measles	100
Pellagra	10
Pneumonia	19
Smallpox	75
Typhoid fever	6

[1] Deaths.

VERMONT.

	Cases.
Chicken pox	10
Diphtheria	5
Measles	38
Mumps	6
Pneumonia	1
Scarlet fever	20
Smallpox	1
Whooping cough	9

WASHINGTON.

Cerebrospinal meningitis—Grant County	1
Chicken pox	45
Diphtheria	23
Measles	5
Mumps	32
Scarlet fever	7
Smallpox	18
Tuberculosis	16
Typhoid fever	3
Whooping cough	38

WEST VIRGINIA.

Diphtheria	10
Poliomyelitis—Morgantown	2
Scarlet fever	11
Smallpox	5
Tuberculosis	12

WISCONSIN.

Milwaukee:	
Chicken pox	59
Diphtheria	7
German measles	14
Influenza	1
Measles	5
Pneumonia	13
Scarlet fever	8
Smallpox	5
Tuberculosis	13
Whooping cough	100
Scattering:	
Cerebrospinal meningitis	2
Chicken pox	73
Diphtheria	24
German measles	15
Influenza	115
Measles	14
Pneumonia	9
Poliomyelitis	1
Scarlet fever	68
Smallpox	42
Tuberculosis	30
Typhoid fever	5
Whooping cough	65

WYOMING.

Anthrax—Converse	1
Chicken pox	1
Diphtheria	1
Mumps	4
Pneumonia	5
Rocky Mountain spotted or tick fever—Big Horn	2
Scarlet fever	3
Smallpox	4
Tuberculosis	3
Typhoid fever	2
Whooping cough	5

Delayed Reports for Week Ended May 6, 1922.

ALABAMA.

	Cases.
Cerebrospinal meningitis	1
Chicken pox	29
Diphtheria	8
Hookworm disease	101
Influenza	24
Malaria	21
Measles	5
Ophthalmia neonatorum	1
Pellagra	3
Pneumonia	2
Poliomyelitis	1
Scarlet fever	11
Smallpox	20
Tuberculosis	36
Typhoid fever	8
Whooping cough	6

COLORADO.

(Exclusive of Denver.)

Chicken pox	11
Diphtheria	13
Impetigo contagiosa	4
Measles	2
Mumps	3
Pneumonia	4
Scarlet fever	19
Septic sore throat	1
Smallpox	5
Tuberculosis	36
Typhoid fever	1
Vincent's angina	2

DISTRICT OF COLUMBIA.

Chicken pox	44
Diphtheria	16
Influenza	1
Lethargic encephalitis	1
Measles	14
Scarlet fever	8
Smallpox	1
Tuberculosis	31
Whooping cough	14

KENTUCKY.

Chicken pox	4
Diphtheria	13
Influenza	8
Measles	15
Pneumonia:	
Jefferson County	9
Scattering	4
Scarlet fever	2
Septic sore throat	1
Smallpox	4
Trachoma	1

KENTUCKY—continued.

	Cases.
Tuberculosis:	
Jefferson County	17
Scattering	3
Typhoid fever	4
Whooping cough	2

MAINE.

Chicken pox	4
Diphtheria	7
German measles	1
Measles	2
Mumps	1
Pneumonia	7
Scarlet fever	32
Septic sore throat	1
Tuberculosis	13
Typhoid fever	4
Whooping cough	4

WYOMING.

	Cases.
Cerebrospinal meningitis	1
Chicken pox	2
Influenza	19
Mumps	3
Pneumonia	8
Rocky Mountain spotted or tick fever:	
Big Horn	1
Fremont	2
Hot Springs	1
Scarlet fever	5
Smallpox	4
Tuberculosis	7
Typhoid fever	3
Whooping cough	4

SUMMARY OF CASES REPORTED MONTHLY BY 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:

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
1922.										
Arizona (February)	.....	24	.....	.....	5	.....	.....	15	16	1
Arkansas (April)	.....	14	550	132	58	27	.....	15	21	17
Connecticut (April)	11	209	395	1	905	.....	.....	249	70	12
Delaware (April)	1	4	8	4	8	.....	.....	196	.....	.....
District of Columbia (March)	.....	53	27	.....	23	.....	.....	41	20	4
District of Columbia (April)	.....	39	9	.....	62	.....	.....	29	7	3
Florida (April)	1	56	73	39	18	11	1	7	41	35
Maryland (January)	3	303	247	2	554	.....	1	446	1	43
Massachusetts (April)	15	581	163	.....	3,621	2	3	743	.....	29
Nebraska (April)	1	37	108	.....	374	.....	.....	99	41	.....

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922.

CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Apr. 29, 1922.	
		Cases.	Deaths.
California:			
Los Angeles	0	1	1
Connecticut:			
Waterbury	0	1	.....
Illinois:			
Chicago	3	2	.....
Iowa:			
Mason City	0	1	.....
Kansas:			
Leavenworth	0	1	.....
Kentucky:			
Louisville	0	2	2
Massachusetts:			
Fall River	0	1	.....
Lawrence	0	.....	1
Michigan:			
Ann Arbor	0	3	.....
Detroit	0	1	1
New Jersey:			
Bayonne	0	2	.....
Montclair	0	.....	1
New York:			
New York	5	6	2
Niagara Falls	0	.....	1
Troy	0	1	1
Yonkers	0	1	.....
Ohio:			
Cincinnati	0	1	.....
Martins Ferry	.....	1	1
Pennsylvania:			
Philadelphia	1	2	2
Wilkes-Barre	0	1	.....
South Carolina:			
Columbia	0	1	.....
West Virginia:			
Charleston	0	1	.....
Huntington	0	.....	1

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

DIPHTHERIA.

See p. 1221; also Telegraphic weekly reports from States, p. 1211, and Monthly summaries by States, p. 1215.

INFLUENZA.

City.	Cases.		Deaths, week ended Apr. 29, 1922.
	Week ended Apr. 30, 1921.	Week ended Apr. 29, 1922.	
Alabama:			
Mobile			1
California:			
Berkeley	3		
Long Beach		1	1
Los Angeles	3	10	
Pasadena	2		
San Diego		1	1
San Francisco	8	15	1
Santa Ana		6	
Colorado:			
Denver			1
Connecticut:			
Bridgeport		2	
Manchester		1	
Meriden	2	2	2
Stonington	2		
Waterbury		2	2
District of Columbia:			
Washington	1	3	1
Florida:			
Tampa		1	
Georgia:			
Atlanta	3	2	
Augusta		2	
Brunswick	3		
Illinois:			
Chicago	41	22	10
Cicero		1	
Quincy		2	
Kansas:			
Coffeyville		1	
Kansas City	1		
Topeka	1		
Kentucky:			
Louisville		1	
Louisiana:			
New Orleans		1	2
Maryland:			
Baltimore	6	12	1
Cumberland	1	2	1
Massachusetts:			
Boston	5	6	
Cambridge	1	2	1
Everett	1		
Fall River	1	1	
Haverhill	5		
New Bedford	1		
Newton		1	1
Saugus	3	1	
Somerville	2		
Woburn			1
Michigan:			
Detroit	1	3	5
Minnesota:			
Faribault			1
Missouri:			
Kansas City	4	4	4
St. Joseph	1		
St. Louis	1		
Nebraska:			
Lincln			1
New Jersey:			
Kearny	1	3	
Newark	11	8	
New York:			
Albany		2	
Auburn		1	
Cohoes	3		
Lackawanna		1	
New York	57	29	11
North Tonnawanda	3		
Rochester		22	6
Syracuse		2	
Watertown			1
North Carolina:			
Rocky Mount			1
Ohio:			
Akron		1	
Cincinnati	4		2
Cleveland		2	2
Columbus			1
Toledo			1
Youngstown		2	2
Oregon:			
Portland			2
Pennsylvania:			
Philadelphia	2	2	3
Rhode Island:			
Providence		1	
South Carolina:			
Charleston			1
Texas:			
Dallas	2	1	2
Utah:			
Provo		4	
Salt Lake City			1
Virginia:			
Danville	1		1
Wisconsin:			
La Crosse		3	
Madison		1	
Milwaukee		1	

LETHARGIC ENCEPHALITIS.

City.	Cases.	Deaths.
Massachusetts:		
Danvers	1	1
Nebraska:		
Omaha	1	1
New Jersey:		
Paterson	3	

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

MALARIA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Kentucky:		
Birmingham	1		Owensboro	2	
Arkansas:			New York:		
Little Rock	2		New York	1	
Florida:			Tennessee:		
Tampa	7		Memphis	1	
Georgia:			Texas:		
Rome	1		Dallas	1	

MEASLES.

See p. 1221; also Telegraphic weekly reports from States, p. 1211, and Monthly summaries, by States, p. 1215.

PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Georgia:			Tennessee:		
Savannah		1	Memphis		1
Louisiana:			Texas:		
New Orleans	1		Dallas	1	
North Carolina:					
Raleigh		1			
Winston-Salem	1				

PNEUMONIA (ALL FORMS).

Alabama:			Illinois—Continued.		
Birmingham		3	Cicero	2	
Mobile		1	East St. Louis		1
Montgomery		2	Elgin		1
California:			Evanston	1	
Alameda		1	Freeport	2	1
Bakersfield		1	Galesburg	4	
Berkeley	2		Jacksonville		1
Eureka	1		Kewanee		1
Long Beach		3	La Salle		1
Los Angeles	23	13	Oak Park		2
Oakland	5	4	Peoria		4
Pasadena		3	Quincy	1	
Riverside		1	Springfield		3
Sacramento		4	Indiana:		
San Bernardino		1	Fort Wayne		2
San Diego		2	Indianapolis		14
Santa Ana		1	Terre Haute		1
Santa Cruz	1		Iowa:		
Stockton		2	Burlington	3	1
Colorado:			Council Bluffs		1
Denver		4	Kansas:		
Connecticut:			Kansas City	3	
Bristol	8		Lawrence		1
Fairfield		1	Salina	1	
Hartford	8	2	Topeka	4	
Manchester	1		Wichita		2
Meriden		1	Kentucky:		
Milford		1	Covington		2
New London		2	Lexington		1
Norwalk		1	Louisville	15	8
Stonington		1	Owensboro	3	
Waterbury	6	5	Louisiana:		
District of Columbia:			New Orleans	2	1
Washington		7	Maine:		
Florida:			Auburn		2
Tampa	2	1	Bangor	1	
Georgia:			Bath		1
Atlanta		6	Biddeford		1
Augusta		1	Lewiston		2
Illinois:			Portland		1
Alton		3	Maryland:		
Aurora	2	1	Baltimore	32	15
Bloomington		2	Cumberland	1	
Chicago	274	97			

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.
Massachusetts:		
Amesbury		1
Arlington	1	
Attleboro	1	
Boston		23
Brookline	3	
Cambridge	7	4
Chicopee		2
Clinton		1
Fall River	6	5
Framingham		1
Gardner		1
Haverhill	4	2
Lawrence	4	1
Leominster	1	
Lowell	5	1
Malden	1	
Melrose	1	
New Bedford		4
Newburyport		1
Newton	2	
North Adams		1
Peabody	1	
Pittsfield	1	
Quincy		2
Salem	3	1
Somerville	4	1
Springfield	5	2
Taunton		2
Wakefield		1
Woburn		1
Worcester		2
Michigan:		
Ann Arbor		1
Battle Creek	1	
Benton Harbor	1	
Detroit	75	27
Flint		4
Grand Rapids	3	1
Holland	3	
Jackson	2	
Kalamazoo		1
Marquette		1
Pontiac	3	
Port Huron	2	
Sault Ste. Marie		1
Minnesota:		
Duluth	5	4
Faribault		1
Minneapolis		14
St. Paul		5
Missouri:		
Jefferson City		1
Kansas City	18	14
St. Joseph		3
Springfield		1
Montana:		
Anaconda		1
Missoula	3	2
Nebraska:		
Lincoln		4
Omaha		6
Nevada:		
Reno	3	
New Jersey:		
Atlantic City	3	1
Belleville	1	
Bloomfield		2
Clifton		1
Elizabeth		4
Englewood	1	
Hackensack	1	
Hoboken		4
Jersey City	3	
Kearny	2	
Montclair		1
Morristown	1	
Newark	42	11
Orange	5	
Paterson	3	
Perth Amboy		2
New Jersey—Continued.		
Trenton	19	11
West Hoboken	1	
West Orange	1	
New Mexico:		
Albuquerque		2
New York:		
Albany	13	
Buffalo	23	17
Elmira	7	3
Glens Falls	2	
Hornell		1
Hudson		1
Jamestown		1
Lackawanna	6	1
Lockport	4	3
Middletown	1	
Mount Vernon	2	1
New York	372	164
Niagara Falls		5
North Tonawanda		1
Peekskill	1	
Port Chester	3	
Poughkeepsie		1
Rome	1	
Schenectady	6	3
Syracuse	12	7
Troy	3	2
Watertown		2
White Plains	4	2
Yonkers		1
North Carolina:		
Charlotte		2
Greensboro		1
Raleigh		1
Wilmington		1
Winston-Salem		1
Ohio:		
Akron	10	
Barberton		2
Canton		4
Cincinnati		6
Cleveland	32	23
Columbus		1
Dayton	1	
East Cleveland	2	1
East Youngstown		1
Hamilton		1
Lancaster		1
Lima	1	
Mansfield	1	
Newark		1
Niles		1
Norwood		1
Piqua		2
Sandusky	1	
Springfield		1
Toledo		7
Youngstown		6
Oklahoma:		
Oklahoma		1
Oregon:		
Portland		3
Pennsylvania:		
Philadelphia	50	32
Rhode Island:		
Pawtucket		1
Providence		6
South Carolina:		
Charleston		4
Greenville		1
South Dakota:		
Sioux Falls		1
Tennessee:		
Memphis		2
Nashville		3
Texas:		
Dallas		3
El Paso		2
Fort Worth		1

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Texas—Continued.			Virginia—Continued.		
Houston		2	Roanoke		1
Waco		2	West Virginia:		
Utah:			Charleston		1
Provo	3	1	Huntington		2
Salt Lake City		4	Wheeling		1
Vermont:			Wisconsin:		
Burlington		3	Beloit		1
Rutland		2	Janesville		3
Virginia:			Kenosha		1
Alexandria		1	La Crosse	4	
Norfolk		2	Milwaukee	23	
Petersburg		1	Racine		1
Richmond		5			

POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Apr. 29, 1922.		City.	Median for previous years.	Week ended Apr. 29, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
California:				New Jersey:			
Los Angeles	0		1	Newark	0	1	
Connecticut:				New York:			
Manchester	0	1		New York	1	2	1
Maine:				Virginia:			
Waterville	0	1		Roanoke	0	1	
Massachusetts:							
Lynn	0	1					
Pittsfield	0		1				

RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California:		Missouri:	
Pasadena	2	Kansas City	1
Kentucky:			
Louisville	6		

RABIES IN MAN.

City.	Cases.	Deaths.
California:		
Los Angeles		1

SCARLET FEVER.

See p. 1221; also Telegraphic weekly reports from States, p. 1211, and Monthly summaries by States, p. 1215.

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Apr. 29, 1922.	
		Cases.	Deaths.
Alabama:			
Mobile	8	1	1
California:			
Bakersfield	0	1	.....
Berkeley	0	1	.....
Long Beach	0	1	.....
Los Angeles	2	2	.....
Oakland	1	1	.....
Stockton	0	1	.....
Colorado:			
Denver	30	6	4
Pueblo	0	1	1
Connecticut:			
Bridgeport	0	2	.....
Fairfield	.....	1	.....
District of Columbia:			
Washington	0	1	.....
Georgia:			
Atlanta	15	2	.....
Augusta	0	5	.....
Brunswick	0	2	.....
Macon	0	1	.....
Illinois:			
Aurora	0	3	.....
Centralia	0	1	.....
Chicago	2	3	.....
Pekin	1	7	.....
Peoria	1	7	.....
Indiana:			
Indianapolis	14	2	.....
Kokomo	1	2	.....
Iowa:			
Burlington	0	1	.....
Des Moines	5	2	.....
Mason City	4	1	.....
Kansas:			
Hutchinson	1	5	.....
Kansas City	5	1	.....
Wichita	9	1	.....
Kentucky:			
Louisville	0	1	.....
Michigan:			
Ann Arbor	0	2	.....
Detroit	15	1	.....
Pontiac	2	1	.....
Minnesota:			
Faribault	.....	3	.....
Minneapolis	21	8	.....
St. Paul	6	15	.....
Missouri:			
Kansas City	9	2	1
Montana:			
Great Falls	2	5	.....
Nebraska:			
Lincoln	7	3	.....
Nevada:			
Reno	0	1	.....
New York:			
New York	1	1	.....
North Carolina:			
Durham	0	2	.....
Winston-Salem	5	1	.....
North Dakota:			
Grand Forks	1	1	.....
Ohio:			
Akron	1	1	.....
Alliance	1	1	.....
Canton	2	4	.....
Dayton	1	3	.....
Fremont	0	2	.....
Lima	0	3	.....
New Philadelphia	0	2	.....
Sandusky	0	1	.....
Springfield	1	4	.....
Oklahoma:			
Oklahoma	6	2	.....
Oregon:			
Portland	1	6	.....
Pennsylvania:			
Johnstown	0	1	.....
South Dakota:			
Sioux Falls	2	2	.....
Tennessee:			
Nashville	1	1	.....
Texas:			
Fort Worth	3	1	.....
Washington:			
Aberdeen	0	2	.....
Bellingham	1	1	.....
Everett	1	3	.....
Seattle	16	2	.....
Spokane	13	2	.....
West Virginia:			
Bluefield	4	4	.....
Parkersburg	0	1	.....
Wisconsin:			
Milwaukee	3	2	.....
Superior	1	17	.....
Wausau	0	2	.....
Wyoming:			
Cheyenne	1	1	.....

TETANUS.

City.	Cases.	Deaths.
Kentucky:		
Louisville	.....	1
New York:		
New York	2	1
Ohio:		
Hamilton	.....	1
Oklahoma:		
Oklahoma	.....	1
South Carolina:		
Charleston	.....	2

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

TUBERCULOSIS.

See table below; also Telegraphic weekly reports from State, p. 1211.

TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Apr. 29, 1922.		City.	Median for previous years.	Week ended Apr. 29, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Michigan:			
Birmingham	1	1	.....	Detroit	4	2	1
California:				Minnesota:			
Los Angeles	3	4	.....	Minneapolis	2	1	.....
Sacramento	0	1	.....	Missouri:			
Stockton	0	1	.....	Kansas City	2	1	1
Colorado:				St. Louis	5	2	1
Pueblo	0	3	.....	New Jersey:			
Connecticut:				Paterson	0	1	.....
Bridgeport	0	1	.....	Trenton	0	.....	1
Hartford	0	.....	1	New York:			
District of Columbia:				Buffalo	2	1	.....
Washington	4	.....	1	New York	13	8	.....
Florida:				Rochester	0	1	.....
Tampa	.....	7	.....	Ohio:			
Georgia:				Hamilton	0	.....	1
Albany	.....	2	.....	Sandusky	0	1	.....
Brunswick	0	1	.....	Youngstown	0	1	1
Macon	1	2	.....	Oregon:			
Savannah	0	1	1	Portland	0	1	.....
Illinois:				Pennsylvania:			
Chicago	4	3	1	Berwick	0	1	.....
Quincy	0	1	.....	Chester	0	1	.....
Indiana:				New Castle	2	1	.....
Logansport	0	1	.....	Philadelphia	6	4	2
Iowa:				Pittsburgh	2	1	.....
Muscatine	0	1	.....	Sharon	0	1	.....
Kansas:				Tennessee:			
Atchison	0	1	.....	Memphis	1	1	.....
Parsons	0	1	.....	Texas:			
Kentucky:				Dallas	0	1	.....
Covington	0	2	.....	El Paso	0	2	.....
Louisville	1	1	.....	Fort Worth	0	1	.....
Louisiana:				Virginia:			
New Orleans	4	1	2	Lynchburg	0	1	.....
Maine:				Portsmouth	0	1	.....
Bangor	0	1	.....	West Virginia:			
Portland	0	1	.....	Fairmont	0	1	.....
Maryland:				Wheeling	0	2	.....
Baltimore	5	1	1	Wisconsin:			
Massachusetts:				Fond du Lac	0	3	.....
Fall River	1	1	.....	Milwaukee	1	2	.....
Greenfield	0	1	.....				
Malden	0	1	.....				
Newton	0	1	.....				
Springfield	0	1	.....				

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:		m								
Birmingham	178,270	37	.....	.....	1	.....	.....	.....	12	6
Mobile	60,151	26	2	1	.....	.....	.....	.....	.....	3
Montgomery	43,464	11	1	.....	.....	.....	.....	.....	.....	.....
Arkansas:										
Hot Springs	11,695	5	.....	.....	.....	.....	.....	.....	.....	.....
Little Rock	64,997	.....	.....	.....	1	.....	.....	.....	1	.....
North Little Rock	14,048	.....	.....	.....	1	.....	.....	.....	.....	.....

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
California:										
Alameda	28,806	11	3				9			
Bakersfield	18,638	10								1
Berkeley	55,896	12	4		2				1	
Eureka	12,923	4	1		3		1		2	
Long Beach	55,593	15	2				2		2	
Los Angeles	576,673	190	31		6		15		58	22
Oakland	216,361	67	4		3		5		5	3
Pasadena	45,354	19	1				6		3	3
Richmond	16,843	2								
Riverside	19,341	8							7	2
Sacramento	65,857	20	1		2				10	1
San Bernardino	18,721	4			1				1	1
San Diego	74,683	29	1				7		5	4
Santa Ana	15,485	8	1							1
Santa Barbara	19,441	4							1	
Santa Cruz	10,917	6								
Stockton	40,296	12	4				1			3
Colorado:										
Denver	256,369	73	9	2	2		9			10
Greeley	10,883	2								
Pueblo	42,908	18	2				2		1	
Trinidad	10,906		4							
Connecticut:										
Bridgeport	143,538	34	11		17		20	1	6	2
Bristol	20,620	3	2		1		3			2
Danbury (city)	18,943	7								
Derby	11,238	3								
Fairfield (town)	11,475	2	1							1
Greenwich (town)	22,123		2		1		1			
Hartford	138,036	31	7		77		1		3	
Manchester (town)	18,370	3			1					
Meriden (city)	29,842		1				1			
Milford (town)	10,193	2	2							
New London	25,688	9	3		14				1	
Norwalk	27,700	5								
Stonington (town)	10,236	2								1
Waterbury	91,410	29			2		1		1	1
Delaware:										
Wilmington	110,168	32					22			3
District of Columbia:										
Washington	437,571	135	11	1	14		8	1	32	15
Florida:										
Tampa	51,252	20								5
Georgia:										
Albany	11,555								2	
Atlanta	200,616	67	1				2		3	5
Augusta	52,548	15			1					2
Brunswick	14,413	4								
Macon	52,995		1				1			
Savannah	83,252	19					1			3
Valdosta	10,783	1	2						1	
Idaho:										
Boise	21,393	4	1				2			
Illinois:										
Alton	24,682	7	1				1			
Aurora	36,397	10	1		23		2		1	
Bloomington	28,725	4	1				2		5	
Centralia	12,491	3			2					
Chicago	2,701,705	721	93	6	500	7	64	2	185	68
Chicago Heights	19,653	5								1
Cicero	44,995	8	5	2					2	
East St. Louis	66,740	6	2				2			2
Elgin	27,454	10			1					
Evanston	37,215	10			2					
Freeport	19,669	6							3	1
Galesburg	23,834	4								
Jacksonville	15,713	6	1				6			
Kewanee	16,026	1					3		1	
La Salle	13,050	3	1							
Mattoon	13,552	1	1							
Oak Park	39,890	14	2		9		1		1	
Pekin	12,066						1			

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Illinois—Continued.										
Peoria	76,121	16	.....	.....	.....	.....	2	.....	.....	.....
Quincy	35,978	12	.....	.....	.....	.....	1	.....	.....	.....
Springfield	59,183	16	1	.....	.....	.....	2	.....	1	2
Indiana:										
Bloomington	11,595	2	1	.....	.....	.....	.....	.....	.....	.....
Clinton	10,962	5	.....	.....	.....	.....	1	.....	.....	.....
Crawfordsville	10,139	.....	.....	.....	.....	.....	1	.....	.....	.....
Fort Wayne	36,549	24	2	.....	1	.....	.....	.....	1	1
Frankfort	11,585	3	.....	.....	.....	.....	.....	.....	.....	.....
Gary	55,378	9	.....	.....	2	.....	.....	.....	.....	.....
Hammond	36,004	5	2	1	.....	.....	1	.....	.....	.....
Huntington	14,000	4	.....	.....	.....	.....	1	.....	.....	.....
Indianapolis	314,194	99	3	.....	51	.....	4	.....	4	14
Kokomo	30,067	5	.....	.....	.....	.....	2	.....	1	.....
La Fayette	22,486	8	1	.....	.....	.....	1	.....	1	.....
Logansport	21,626	7	1	.....	.....	.....	.....	.....	.....	.....
Mishawaka	15,195	6	.....	.....	1	.....	.....	.....	.....	.....
Muncie	36,624	15	3	.....	.....	.....	.....	.....	.....	2
Newcastle	14,458	2	.....	.....	.....	.....	.....	.....	.....	.....
South Bend	70,983	9	2	.....	1	.....	.....	.....	.....	.....
Terre Haute	66,083	21	.....	.....	1	.....	1	.....	.....	1
Iowa:										
Burlington	24,057	4	.....	.....	.....	.....	.....	.....	.....	.....
Clinton	24,151	.....	4	.....	.....	.....	3	.....	.....	.....
Council Bluffs	36,162	12	.....	1	4	.....	.....	.....	.....	.....
Davenport	56,727	.....	.....	.....	.....	.....	1	.....	.....	.....
Des Moines	126,468	.....	2	.....	.....	.....	24	.....	.....	.....
Dubuque	39,141	.....	.....	.....	.....	.....	2	.....	.....	.....
Iowa City	11,267	.....	.....	.....	.....	.....	1	.....	.....	.....
Mason City	20,065	7	.....	.....	.....	.....	1	.....	.....	.....
Muscatine	16,068	3	.....	.....	.....	.....	.....	.....	3	.....
Sioux City	71,227	.....	.....	.....	.....	.....	1	.....	.....	.....
Waterloo	36,230	.....	.....	.....	.....	.....	1	.....	.....	.....
Kansas:										
Atchison	12,630	.....	.....	.....	.....	.....	1	.....	.....	.....
Coffeyville	13,452	3	.....	.....	.....	.....	1	.....	.....	.....
Fort Scott	10,693	4	1	.....	.....	.....	.....	.....	.....	.....
Hutchinson	23,298	.....	1	.....	1	.....	1	.....	.....	.....
Kansas City	101,177	.....	.....	.....	.....	.....	.....	.....	2	.....
Lawrence	12,456	3	.....	.....	.....	.....	1	.....	1	.....
Leavenworth	16,912	.....	.....	.....	.....	.....	.....	.....	1	1
Parsons	16,028	5	.....	.....	1	.....	.....	.....	.....	.....
Salina	15,085	3	.....	.....	.....	.....	.....	.....	.....	.....
Topeka	50,022	8	3	.....	.....	.....	2	.....	2	.....
Wichita	72,128	28	.....	.....	1	.....	6	.....	1	2
Kentucky:										
Covington	57,121	14	.....	.....	4	.....	.....	.....	1	2
Lexington	41,534	14	1	.....	35	.....	.....	.....	.....	2
Louisville	234,891	79	2	.....	8	.....	2	.....	36	12
Owensboro	17,424	.....	3	.....	.....	.....	.....	.....	.....	.....
Paducah	24,735	.....	.....	.....	2	.....	1	.....	1	.....
Louisiana:										
New Orleans	387,219	93	5	.....	1	.....	4	.....	13	11
Maine:										
Auburn	16,985	8	1	.....	.....	.....	.....	.....	1	1
Bangor	25,978	.....	.....	.....	.....	.....	1	.....	.....	.....
Bath	14,731	1	.....	.....	.....	.....	.....	.....	.....	.....
Biddeford	18,008	2	1	.....	.....	.....	1	.....	.....	.....
Lewiston	31,791	15	.....	.....	.....	.....	6	.....	.....	.....
Portland	69,272	11	2	.....	.....	.....	14	.....	.....	.....
Maryland:										
Baltimore	733,826	180	17	1	234	2	25	.....	49	28
Cumberland	29,837	9	1	.....	.....	.....	.....	.....	1	1
Massachusetts:										
Adams	12,967	3	.....	.....	.....	.....	.....	.....	.....	.....
Amesbury	10,036	4	.....	.....	.....	.....	.....	.....	.....	.....
Arlington	18,665	4	.....	.....	1	.....	.....	.....	.....	1
Attleboro	19,731	3	.....	.....	.....	.....	.....	.....	.....	1
Belmont	10,749	2	.....	.....	.....	.....	6	.....	.....	.....
Beverly	22,561	5	2	1	.....	.....	1	.....	1	.....
Boston	748,060	240	65	1	227	1	52	1	43	29
Braintree	10,580	1	.....	.....	1	.....	.....	.....	.....	.....
Brookline	37,748	12	1	.....	22	.....	2	.....	3	.....

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Massachusetts—Continued.										
Cambridge	109,694	39	6	.....	82	.....	9	.....	5	6
Chelsea	43,184	10	1	.....	4	.....	1	.....	1	2
Chicopee	36,214	8	.....	.....	3	.....	.....	.....	1	.....
Clinton	12,979	7	.....	.....	2	.....	2	.....	.....	.....
Danvers	11,108	.....	.....	.....	.....	.....	2	.....	.....	.....
Dedham	10,792	2	.....	.....	.....	.....	1	.....	1	.....
Everett	40,120	3	3	.....	16	.....	2	.....	.....	1
Fall River	120,485	36	5	.....	2	.....	4	.....	8	4
Framingham	17,033	3	.....	.....	.....	.....	.....	.....	1	.....
Gardner	16,971	4	2	.....	1	.....	1	.....	.....	.....
Greenfield	15,462	8	.....	.....	2	.....	2	.....	.....	.....
Haverhill	53,884	17	1	.....	1	.....	2	.....	3	1
Lawrence	94,270	32	1	1	50	1	.....	.....	2	1
Leominster	19,744	4	.....	.....	2	.....	.....	.....	1	1
Lowell	112,479	25	5	.....	4	.....	2	.....	3	.....
Lynn	99,148	24	6	.....	4	.....	.....	.....	4	3
Malden	49,103	6	3	.....	17	.....	4	.....	.....	1
Medford	39,038	5	3	.....	3	.....	1	.....	.....	.....
Melrose	18,204	1	.....	.....	.....	.....	2	.....	1	.....
Methuen	15,189	5	2	.....	10	.....	.....	.....	.....	.....
Natick	10,907	.....	.....	.....	1	.....	3	.....	.....	.....
New Bedford	121,217	33	4	.....	1	.....	6	.....	12	4
Newburyport	15,618	3	.....	.....	12	.....	.....	.....	.....	.....
Newton	46,054	9	2	.....	27	.....	5	.....	.....	1
North Adams	22,282	6	.....	.....	.....	.....	.....	.....	2	1
Northampton	21,951	11	2	1	3	.....	1	.....	1	.....
Norwood	12,627	3	.....	.....	.....	.....	.....	.....	.....	.....
Peabody	19,552	6	.....	.....	15	1	.....	.....	.....	.....
Pittsfield	41,751	7	1	.....	.....	.....	2	.....	1	.....
Plymouth	13,045	2	.....	1	.....	.....	.....	.....	.....	.....
Quincy	47,876	6	.....	.....	34	.....	5	.....	2	.....
Salem	42,529	15	4	1	29	.....	3	.....	.....	1
Saugus	10,874	3	.....	.....	.....	.....	.....	.....	2	1
Somerville	93,091	16	3	1	49	.....	13	.....	5	1
Southbridge	14,245	4	.....	.....	.....	.....	.....	.....	.....	.....
Springfield	129,563	32	1	.....	42	1	6	.....	8	2
Taunton	37,137	17	.....	.....	.....	.....	2	.....	1	.....
Wakefield	13,025	3	.....	.....	7	.....	.....	.....	.....	.....
Watertown	21,457	5	.....	.....	10	.....	3	.....	2	1
Webster	13,258	4	.....	.....	.....	.....	.....	.....	.....	.....
West Springfield	13,443	2	.....	.....	.....	.....	.....	.....	.....	.....
Westfield	18,604	3	.....	.....	6	.....	.....	.....	2	1
Weymouth	15,057	8	.....	.....	.....	.....	.....	.....	.....	.....
Winthrop	15,455	3	.....	.....	2	.....	.....	.....	1	.....
Woburn	16,574	4	.....	.....	.....	.....	.....	.....	.....	.....
Worcester	179,754	49	6	2	.....	.....	6	.....	7	3
Michigan:										
Alpena	11,101	.....	.....	.....	.....	.....	1	.....	.....	.....
Ann Arbor	19,516	14	.....	1	2	.....	3	.....	.....	.....
Battle Creek	36,164	.....	1	.....	31	.....	1	.....	.....	.....
Benton Harbor	12,233	6	4	.....	.....	.....	.....	.....	.....	.....
Detroit	993,739	233	34	4	262	13	51	.....	79	15
Flint	91,599	25	2	1	9	.....	5	.....	.....	.....
Grand Rapids	137,634	34	5	.....	3	.....	2	1	2	3
Hamtramck	48,615	.....	3	.....	18	.....	1	.....	.....	.....
Holland	12,166	1	.....	.....	.....	.....	.....	.....	.....	.....
Jackson	48,374	7	2	.....	.....	.....	1	.....	1	.....
Kalamazoo	48,858	13	5	.....	.....	.....	10	1	9	.....
Marquette	12,718	6	1	.....	.....	.....	.....	.....	.....	1
Pontiac	34,273	3	2	.....	46	.....	1	.....	.....	.....
Port Huron	25,944	4	1	.....	2	.....	.....	.....	.....	.....
Sault Ste. Marie	12,096	1	.....	.....	.....	.....	.....	.....	1	.....
Minnesota:										
Duluth	98,917	19	.....	.....	.....	.....	3	.....	2	1
Faribault	11,089	8	.....	.....	1	.....	.....	.....	.....	1
Hibbing	15,089	1	2	.....	.....	.....	1	.....	.....	.....
Mankato	12,469	.....	.....	.....	.....	.....	3	.....	.....	.....
Minneapolis	380,582	94	13	1	49	1	22	.....	33	9
Rochester	13,722	14	.....	.....	1	.....	2	.....	.....	.....
St. Cloud	15,873	.....	1	.....	.....	.....	5	.....	.....	.....
St. Paul	234,595	62	13	1	27	.....	18	.....	10	6
Virginia	14,022	.....	.....	.....	.....	.....	.....	.....	1	.....

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Missouri:										
Cape Girardeau	10,252		1	1						
Jefferson City	14,490	4								1
Joplin	29,855		1							
Kansas City	324,410	92	6		9		4		3	2
St. Joseph	77,939	30	2				1	1		1
St. Louis	772,897	195	31	3	1		15		36	13
Springfield	39,631	12								1
Montana:										
Anaconda	11,668	4								
Billings	15,100	5								
Great Falls	24,121	11					1			
Missoula	12,668	11							1	1
Nebraska:										
Lincoln	54,934	20	1		56				2	
Omaha	191,601	48	5		30		3			3
Nevada:										
Reno	12,016	5								
New Hampshire:										
Berlin	16,104	5					1			1
Concord	22,167	12								1
Dover	13,029	2			3					
Keene	11,210	6					2			
Nashua	23,379	7								
Portsmouth	13,569		1		1		1			
New Jersey:										
Asbury Park	12,400	1					2			
Atlantic City	50,682	16	3		2		6			
Bayonne	76,754		1		24		1		2	
Belleville	15,660				10		2			
Bloomfield	22,019	3			23		3		1	
Clifton	26,470	3	1		2		1			
Elizabeth	95,682		7		2		6		1	1
Englewood	11,527	2			4		1			
Garfield	19,381	3			2		3			
Hackensack	17,667	9	1		38					
Harrison	15,721		1	1						
Hoboken	68,166	24	4		19	1	1		5	4
Jersey City	297,864		15		60		8		15	
Kearny	26,724	8			20		3			
Montclair	28,810	10	2		12		1			1
Morristown	12,548	3					2		2	2
Newark	414,216	112	18	1	112		53	2	26	10
Orange	33,268	5	1		2		3			1
Passaic	63,824	17	2		5		12			2
Paterson	135,866		7		75		3			
Perth Amboy	41,707	13	1		4		2		1	
Phillipsburg	16,923	4								
Plainfield	27,700	5		1	9		1	1		
Summit	10,174	7			1					
Trenton	119,289	53	1	1	49	1	5		4	4
Union	20,651				4		3		2	
West Hoboken	40,068	9	1	1	13		2		5	
West New York	29,926	3	1		45		1		1	
West Orange	15,573						2			
New Mexico:										
Albuquerque	15,157	11	3	2			5		5	1
New York:										
Albany	113,344		7		2		1		9	
Auburn	36,192	7	1		1				4	1
Buffalo	506,775	126	6		3		19	2	34	8
Cohoes	22,987	4								
Elmira	45,305	12			47					
Geneva	14,643	3								1
Glens Falls	16,638	3								
Hornell	15,025	4			37				2	
Hudson	11,745	5			1					
Jamestown	38,917	13	1		21		2		2	
Lackawanna	17,918	3	1				2			1
Little Falls	13,029	2								
Lockport	21,308	7					1			
Middletown	18,420				1				1	
Mount Vernon	42,726	8	5		27		4		1	1

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New York—Continued.										
Newburgh	30,366	16	2	.....	3	.....	.....	.....	.....	1
New York	5,621,151	1,503	289	30	2,128	58	328	5	[1] 211	[1] 102
Niagara Falls	50,760	16	5	2	13	.....	6	.....	.....	1
North Tonawanda	15,452	5	2	.....	1	.....	1	.....	.....	1
Ogdensburg	14,609	11	.....	.....	.....	.....	.....	.....	.....	.....
Olean	20,506	5	2	.....	1	.....	.....	.....	1	2
Peekskill	15,868	5	.....	.....	5	.....	4	.....	.....	.....
Plattsburg	10,909	5	.....	.....	.....	.....	.....	.....	.....	.....
Port Chester	16,573	4	.....	.....	.....	.....	4	.....	.....	.....
Poughkeepsie	35,000	11	.....	.....	19	.....	1	.....	1	1
Rochester	295,750	79	5	2	49	.....	1	.....	9	5
Rome	26,341	7	.....	.....	.....	.....	3	.....	.....	2
Saratoga Springs	13,181	6	1	.....	.....	.....	.....	.....	2	1
Schenectady	88,723	24	.....	.....	.....	.....	5	.....	1	.....
Syracuse	171,717	49	25	3	6	.....	11	.....	4	2
Troy	72,013	25	3	.....	.....	.....	1	.....	9	2
Watertown	31,285	15	.....	.....	.....	.....	.....	.....	1	1
Watervliet	16,073	6	.....	.....	.....	.....	.....	.....	.....	.....
White Plains	21,031	6	.....	.....	31	.....	1	.....	1	1
Yonkers	100,226	23	3	.....	77	.....	7	.....	5	5
North Carolina:										
Charlotte	46,338	13	1	.....	.....	.....	.....	.....	.....	.....
Durham	21,719	9	.....	.....	.....	.....	.....	.....	.....	.....
Greensboro	19,861	14	.....	.....	.....	.....	.....	.....	.....	1
Raleigh	24,418	12	.....	.....	.....	.....	.....	.....	.....	1
Rocky Mount	12,742	7	.....	.....	.....	.....	.....	.....	.....	.....
Salisbury	13,884	0	.....	.....	.....	.....	.....	.....	.....	.....
Wilmington	33,372	8	.....	.....	1	.....	.....	.....	1	1
Winston-Salem	48,395	15	.....	.....	.....	.....	.....	.....	2	2
North Dakota:										
Fargo	21,961	0	.....	.....	.....	.....	1	.....	.....	.....
Grand Forks	14,010	.....	.....	.....	.....	.....	1	.....	.....	.....
Ohio:										
Akron	208,435	.....	2	.....	69	.....	8	.....	16	.....
Alliance	21,603	2	.....	.....	.....	.....	.....	.....	.....	.....
Ashtabula	22,082	6	.....	.....	.....	.....	.....	.....	.....	1
Barberton	18,811	5	.....	.....	1	.....	.....	.....	.....	.....
Bucyrus	10,425	4	.....	.....	.....	.....	.....	.....	.....	.....
Cambridge	13,104	4	1	.....	5	.....	.....	.....	1	.....
Canton	87,091	19	3	.....	54	.....	.....	.....	.....	3
Chillicothe	15,831	3	.....	.....	.....	.....	.....	.....	.....	.....
Cincinnati	401,247	116	2	.....	151	2	5	.....	9	20
Cleveland	796,836	149	20	2	193	1	44	1	42	14
Cleveland Heights	15,236	.....	.....	.....	16	.....	2	.....	.....	.....
Columbus	237,031	61	5	.....	28	.....	3	.....	4	6
Dayton	152,559	28	4	.....	1	.....	7	.....	4	.....
East Cleveland	27,292	3	2	.....	23	.....	.....	.....	.....	.....
East Youngstown	11,237	3	.....	.....	.....	1	.....	.....	.....	1
Findlay	17,021	3	.....	.....	.....	.....	1	.....	.....	.....
Fremont	12,468	7	1	.....	.....	.....	.....	.....	2	.....
Hamilton	39,675	6	.....	.....	1	.....	1	.....	1	.....
Kenmore	12,683	.....	.....	.....	4	.....	.....	.....	.....	.....
Lancaster	14,706	7	2	.....	.....	.....	.....	.....	1	.....
Lima	41,306	6	2	.....	1	.....	.....	.....	.....	.....
Lorain	37,295	.....	.....	.....	.....	.....	4	.....	.....	.....
Mansfield	27,824	4	2	.....	.....	.....	.....	.....	.....	1
Marion	27,891	.....	1	.....	.....	.....	1	.....	.....	.....
Martins Ferry	11,634	1	1	.....	.....	.....	.....	.....	.....	.....
Middletown	23,594	3	1	.....	.....	.....	1	.....	.....	.....
Newark	26,718	4	2	.....	.....	.....	.....	.....	.....	.....
Niles	13,080	1	.....	.....	2	.....	1	.....	.....	.....
Norwood	24,966	3	.....	.....	23	.....	.....	.....	.....	.....
Piqua	15,044	8	.....	.....	.....	.....	.....	.....	.....	.....
Salem	10,305	3	.....	.....	.....	.....	.....	.....	.....	1
Sandusky	22,897	6	.....	.....	.....	.....	.....	.....	.....	.....
Springfield	60,840	12	.....	.....	.....	.....	2	.....	.....	1
Steubenville	28,508	12	.....	.....	.....	.....	1	.....	1	.....
Tiffin	14,375	2	.....	.....	.....	.....	.....	.....	.....	.....
Toledo	243,109	59	9	.....	58	.....	4	.....	10	6
Youngstown	132,358	36	5	1	20	.....	1	.....	5	3
Zanesville	29,569	10	1	.....	1	.....	4	.....	.....	.....

[1] Pulmonary tuberculosis only.

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Oklahoma:										
Oklahoma	91,258	23	1		1		1			4
Tulsa	72,075		1		12					
Oregon:										
Portland	258,288	53	3		1		5		6	
Pennsylvania:										
Allentown	73,502		4		3				1	
Altoona	60,331		2				5			
Ambridge	12,730				1					
Beaver Falls	12,802								1	
Berwick	12,181		1		29					
Bethlehem	50,358		1		7					
Braddock	20,879				1				4	
Bradford	15,525		1							
Butler	23,778		1				2			
Carlisle	10,916				35					
Carnegie	11,516				1					
Carrick	10,504				1					
Chambersburg	13,171				5					
Chester	58,030		2		1		3			
Dubois	18,681		1							
Easton	33,813		1		26		2			
Erie	93,372		1		2		1		10	
Farrell	15,586				1		3			
Harrisburg	75,917		8		3					
Hazleton	32,277		2		16					
Johnstown	67,327		1		19					
Lancaster	53,150		2		2		5			
McKeesport	45,975				7				1	
McKee's Rocks	16,713		2							
Mahanoy City	15,590				3					
Mount Carmel	17,469								2	
New Castle	44,938				52					
New Kensington	11,987		1		6					
North Braddock	14,928		1		1					
Oil City	21,274						2			
Philadelphia	1,823,158	482	74	3	108	1	95	4	88	51
Phoenixville	10,484				1					
Pittsburgh	588,193		15		108		29		25	
Pottstown	17,431				1		2			
Pottsville	21,876		1		3					
Punxsutawney	10,311				1					
Reading	107,784		8		19		1			
Scranton	137,783		5		12		6			
Shamokin	21,204				8					
Sharon	21,747		1		2		5			
Shenandoah	24,726				18					
Steelton	13,428				1		2		1	
Sunbury	15,721				17					
Tamaqua	12,363				9					
Uniontown	15,692						1			
Warren	14,256						1			
Washington	21,480		1							
West Chester	11,717		1							
Wilkes-Barre	73,833		2		6		1		1	
Wilkinsburg	24,403				7					
Williamsport	36,198				6					
York	47,512		1		1		1			
Rhode Island:										
Cranston	29,407	6								1
Pawtucket	64,248	8	1							
Providence	237,595	69	4		3		11			7
South Carolina:										
Charleston	67,957	20	3						1	2
Greenville	23,127	7			1					3
South Dakota:										
Sioux Falls	25,176	3					1			
Tennessee:										
Chattanooga	57,895		1				1			
Knoxville	77,818		2		15				3	3
Memphis	162,351	58	2				1		12	10
Nashville	118,342	46							5	3

CITY REPORTS FOR WEEK ENDED APRIL 29, 1922—Continued.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Texas:										
Beaumont	40,422	6								
Corpus Christi	10,522	3								
Dallas	158,976	42	3		66		4		2	3
El Paso	77,543	30			3					13
Fort Worth	106,482	26	2		1		1		1	
Galveston	44,255	14							1	
Houston	138,076	47	4				1			4
Waco	38,500	13								1
Utah:										
Provo	10,303	4					1			
Salt Lake City	118,110	26								1
Vermont:										
Barre	10,008						1			
Burlington	22,779	14	1				3	1		1
Rutland	14,954	9	1	1						
Virginia:										
Alexandria	18,060	4	1							
Danville	21,539	6			6				1	
Lynchburg	29,956	3	1						1	
Norfolk	115,777		3		1		2		3	3
Petersburg	31,002	7							1	1
Portsmouth	54,387	9					1			2
Richmond	171,667	49			120				21	7
Roanoke	50,842	18	2				1			3
Washington:										
Aberdeen	15,337				4					
Bellingham	25,570		1				1			
Everett	27,644		1							
Seattle	315,652		4				6			
Spokane	104,437		1		1		2			
Tacoma	96,965		3		1				7	
Walla Walla	15,503						1			
Yakima	18,539						1			
West Virginia:										
Bluefield	15,282	6	1				1			
Charleston	39,608	7					2			
Clarksburg	27,869	9	1		1		2		1	2
Fairmont	17,851		4		3		4		1	
Huntington	50,177	17					1			3
Martinsburg	12,515				11					
Morgantown	12,127		1		2					
Moundsville	10,669	3			10		2			
Parkersburg	20,050	4	1							
Wheeling	54,322	15	3	1			3		54	1
Wisconsin:										
Beloit	21,284	10	1				1	1	1	
Eau Claire	20,880		1				1			
Fond du Lac	23,427	6	1					1		
Janesville	18,293	4			1					
Kenosha	40,472	6	1		2		1		2	
La Crosse	30,363						1		3	
Madison	38,378						2		1	
Marinette	13,610								1	
Milwaukee	457,147		8		3		11		18	
Oshkosh	33,162	10								
Racine	58,593	11	4		1		10	1	2	3
Sheboygan	30,955		1							
Superior	39,624	2					1		1	
Waukesha	12,558						3			
Wausau	18,661						2			
West Allis	13,765						1			
Wyoming:										
Cheyenne	13,829	3								

FOREIGN AND INSULAR.

BRAZIL.

Mortality Statistics—Pernambuco—1911–1921.

During the year 1921 there were reported at Pernambuco, Brazil, 7,614 deaths, or a rate of 29.3 per 1,000 of the population (stated to be 260,000). The following table gives the number of deaths and the death rates per 1,000 of the population for the period 1911–1921:

Year.	Number of deaths.	Death rate per 1,000 inhabitants.	Year.	Number of deaths.	Death rate per 1,000 inhabitants.
1911	9,891	49.4	1917	6,347	25.9
1912	7,677	36.5	1918	9,163	37.4
1913	6,894	29.9	1919	8,641	34.5
1914	7,198	30.6	1920	7,629	29.3
1915	8,167	34.0	1921	7,614	29.3
1916	7,561	31.0			

The following table shows the number of deaths occurring during 1920 and 1921 from certain causes:

Disease.	1920	1921	Disease.	1920	1921
Diphtheria and croup	8	14	Plague	5	28
Dysentery	292	168	Scarlet fever	0	0
Influenza	482	310	Smallpox	5	34
Hookworm disease	203	243	Syphilis	204	233
Leprosy	12	9	Tuberculosis	1,397	1,416
Malaria:			Typhoid fever	11	18
Acute	107	124	Whooping cough	10	3
Chronic	44	71	Yellow fever	0	3
Measles	0	6			

Mortality according to ages was distributed during the two years under comparison as follows:

Age (years).	1920	1921	Age (years).	1920	1921
0 to 1	1,803	1,852	51 to 60	538	500
1 to 5	696	753	61 to 70	362	341
6 to 10	177	246	Over 70	454	430
11 to 20	657	571	Age unknown	37	67
21 to 30	1,262	1,146			
31 to 40	930	1,016	Total	7,629	7,614
41 to 50	713	692			

Mortality from certain diseases for the period 1911 to 1921, inclusive, is shown by the following table:

Disease.	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921
Beriberi	8	5	2	5	8	4	1	0	1	4	4
Diphtheria	1	0	2	2	1	1	6	11	15	14	8
Dysentery	236	253	160	152	157	174	82	101	331	168	292
Influenza	187	242	213	286	801	392	308	1,783	264	310	482
Leprosy	2	10	10	6	8	8	9	20	12	9	12
Malaria	259	264	191	170	244	268	313	216	219	195	151
Measles	8	5	17	50	2	0	0	0	38	6	0
Plague	20	20	5	24	4	0	5	1	1	28	5
Scarlet fever	1	0	0	0	0	0	0	0	0	0	0
Smallpox	2,440	762	451	153	15	0	0	0	11	34	5
Tuberculosis	1,441	1,395	1,429	1,457	1,694	1,656	1,213	1,380	1,660	1,412	1,397
Typhoid fever	25	17	14	15	15	16	17	11	16	18	11
Whooping cough	39	3	21	11	7	27	18	40	3	3	10
Yellow fever	13	40	6	3	0	0	2	4	5	3	0

Stillbirths—1911-1921.

The occurrence of stillbirths during the period 1911 to 1921, was reported as follows:

Year.	Number.	Year.	Number.
1911	343	1917	800
1912	664	1918	801
1913	743	1919	799
1914	649	1920	830
1915	707	1921	951
1916	822		

Death Rates for Certain Cities.

The following statement of death rates for certain cities in Brazil was published officially under date of December 22, 1921:

City.	Death rate.	City.	Death rate.
Ceara	32.80	Petropolis	20.80
Victoria	32.95	Campos	20.22
Manaos	31.67	Sao Paulo	19.98
Rio Grande	30.08	Bahia	19.62
Aracaju	30.03	Belem	19.51
Maceio	29.80	Ribeirao Preto	18.66
Recife	29.34	Sao Luiz	18.31
Sant Anna do Livramento	26.80	Florianopolis	15.45
Santos	24.39	Curityba	15.17
Campinas	20.97		

CZECHOSLOVAKIA.

Tuberculosis.

The following information has been taken from a report issued during the current year at Prague by the Ministry of Public Health and Physical Education of Czechoslovakia:

Tuberculosis increased in the Czech Provinces up to 1895, after which year it decreased until 1914. An increase was again noted

during the war years. Since the addition of Slovakia and Carpathian Russia to the Czech Provinces, tuberculosis mortality of all Czechoslovakia has been higher and its decrease slower. In the Czech Provinces tuberculosis increased during the World War only up to 1916. It appeared stationary from then until the outbreak of the influenza epidemic during the last quarter of the year 1918.

Conditions as regards tuberculosis are worse in Czechoslovakia than those present in England 70 years ago, it is stated, due to a higher mortality among the young and persons of working ages. The highest mortality from tuberculosis in Czechoslovakia was stated to be among the industrial and manufacturing classes, though a relatively high mortality from the disease was shown among persons employed in agriculture and forestry.

In cities there was noted a higher death rate than in rural districts, but with a decreased prevalence. The difference between rural and urban mortality was shown to be greater in Bohemia than in Moravia. The percentage distribution of tuberculosis according to form showed no marked variation from the picture usually presented, 82.8 per cent of all tuberculous deaths being reported as due to the pulmonary form. Tuberculosis was given as the principal cause of death in Czechoslovakia. Among males, the greatest percentage of deaths was between the ages of 20 and 29 years. (Population in 1921—13,595,816; area, 54,238 square miles.)

Antituberculosis Work.

There was stated to be a total of 143 antituberculosis associations, serving a population of 2,646,016, but large territories exist in which no antituberculosis work is being carried out. These are in southeast Bohemia, southeast Moravia, and northern Silesia. In Slovakia and Carpathian Russia antituberculosis work is scattered and rare. There were stated to be 89 dispensaries serving a population of 2,197,756. Of these, only 38 are in cities over 8,500, 11 being in Prague. For the treatment of tuberculosis there are 46 institutions with a total of about 5,700 beds, of which about 2,000 are for tuberculous children. There were stated to be 75 cities having over 8,500 population which have no tuberculosis dispensaries.

UNION OF SOUTH AFRICA.

Plague—Orange Free State—March, 1922.

During the first two weeks of March, 1922, four fatal cases of plague were reported in the Orange Free State, occurring on the Granville Farm, Winburg district, 3 miles northwest from Venterburg Road Station. The first three cases occurred in natives living in the same hut; the fourth case occurred in a native contact of these cases.

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

Reports Received During Week Ended May 19, 1922.[1]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta	Mar. 26–Apr. 1	111	89	
Madras	Mar. 20–26	1	1	
Rangoon	Mar. 19–25	9	7	
Indo-China:				
Saigon	Feb. 19–Mar. 18	10	7	City and surrounding country.
Philippine Islands:				
Province—				
Bulacan	Mar. 5–11	1	1	
Siam:				
Bangkok	do	2	1	

PLAGUE.

Azores:				
Fayal Island—				
Horta	Feb. 2–8	4	2	
British East Africa:				
Uganda	Jan. 1–31	57	56	
Ceylon:				
Colombo	Mar. 19–Apr. 1	2	2	One plague-infected rodent.
China:				
Hongkong	Apr. 23–May 6	194	124	Chinese.
Ecuador:				
Guayaquil	Apr. 1–15	1		Rats examined, 3,000; plague-infected, 100.
Egypt				Jan. 1–Apr. 6, 1922: Cases, 63; deaths, 30.
City—				
Suez	Apr. 7–8	2	2	
Province—				
Minieh	Apr. 12	1		
India:				
Bombay	Mar. 5–11	30	29	
Calcutta	Mar. 26–Apr. 1	4	4	
Karachi	do	37	31	
Madras Presidency	do	45	29	
Rangoon	Mar. 19–25	44	37	
Indo-China:				
Saigon	Feb. 26–Mar. 18			Four plague-infected rats.
Java:				
East Java—				
Soerabaya	Mar. 5–11	6	6	
Peru				Mar. 16–31, 1922: Cases, 28; deaths, 14.
Senegal:				
Dakar	Mar. 1–31	1	1	
Siam:				
Bangkok	Mar. 5–11	2	2	
Union of South Africa:				
Orange Free State—				
Granville Farm	Mar. 1–15	4	4	Winburg district, in vicinity of Venterburg Road Station.

SMALLPOX.

Arabia:				
Aden	Mar. 26–Apr. 1		1	
British East Africa:				
Uganda	Jan. 1–31	36	3	
Canada:				
New Brunswick—				
Westmoreland County	Mar. 19–25	6		
Ontario—				
Toronto	Apr. 16–29	28		
Ceylon:				
Colombo	Mar. 26–Apr. 1	2		
China:				
Amoy	Mar. 19–Apr 1	4		
Chungking	Mar. 5–11			Present.
Dairen	Mar 13–19	1		Manchuria.
Foochow	Feb. 19–25	1		
Nanking	Mar. 12–25			Present

[1] From medical officers of the Public Health Service, American consuls, and other sources.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received During Week Ended May 19, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chosen:				
Fusan	Mar. 1-31	46	10	
Seoul	do	4	2	
Cuba:				
Cienfuegos	Apr 23-29	1		
Matanzas				In Province, Apr. 16-30, 1922.
Santiago	Apr. 1-30	3		
Dominican Republic:				
San Pedro de Macoris	Apr. 9-22	77	9	Including vicinity.
Ecuador:				
Guayaquil	Apr. 1-15	1		
Finland	Mar. 16-31	16		
Haiti				Apr. 16-23, 1922: Present; a few cases.
India:				
Bombay	Mar. 5-11	7	2	
Calcutta	Mar. 26-Apr. 1	40	31	
Karachi	do	51	32	
Madras	Mar. 19-26	147	37	
Rangoon	Mar. 19-25		1	
Indo-China:				
Saigon	Feb. 19-Mar 18	9	5	
Mexico:				
Manzanillo	Apr. 25-May 1		1	
Rumania:				
Cahul	Jan. 1-31	1		District.
Spain:				
Huelva	Feb. 1-28		1	
Seville	Mar. 26-Apr 8		13	
Syria:				
Aleppo	Apr. 9-15			Present.
Turkey:				
Constantinople	Apr. 2-8	4	1	
Union of South Africa:				
Southern Rhodesia	Feb. 1-28	58		
Transvaal—				
Johannesburg	do	1		

TYPHUS FEVER.

Algeria:				
Algiers	Apr. 1-20	3		
Oran	do		3	
Bulgaria:				
Sofia	Apr. 2-8	1		
Egypt:				
Cairo	Feb. 12-18	3	2	
Greece:				
Saloniki	Mar. 6-19	10		
Portugal:				
Oporto	Apr. 9-15	3		
Rumania:				
Cahul	Feb 1-28	1		District.
Spain:				
Madrid	Mar 1-31		10	
Syria:				
Diarbekir	Apr. 9-15			Present.
Mardin	do			Do.
Turkey:				
Constantinople	Apr. 2-8	4		
Union of South Africa:				
Transvaal—				
Johannesburg	Feb. 1-28	9	7	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India				Oct. 2–Dec. 31, 1921: Deaths, 37,749. (Corrected report.) Jan. 1–28, 1922: Deaths, 2,828.
Bombay	Oct. 30–Nov. 5	1		
Do	Jan. 29–Feb. 4	1	1	
Calcutta	Oct. 23–Dec. 31	71	60	
Do	Jan. 1–Mar. 25	332	279	
Karachi	Nov. 6–12		1	
Madras	Dec. 11–31	4	1	
Do	Jan. 1–Feb. 4	10	7	
Rangoon	Oct. 1–Dec. 31	30	24	
Do	Jan. 1–Feb. 25	30	25	
Indo-China:				
Saigon	Nov. 6–12	1	1	
Do	Jan. 29–Feb. 18	24	23	Including 100 km. surrounding country.
Java:				
West Java—				
Batavia	Nov. 1–7	2	2	At Lebak.
Philippine Islands:				
Manila	Nov. 13–Dec. 31	49	18	
Do	Jan. 1–Mar. 11	82	27	
Province—				
Bulacan	Dec. 25–31	1		
Do	Feb. 12–25	2	2	
Cavite	Jan. 1–7	1	1	
Cebu	Jan. 8–14	1		
Pampanga	Dec. 25–31	1		
Rizal	Jan. 15–28	18	12	
Zambales	Dec. 11–31	31	18	
Do	Jan. 1–7	5	4	
Poland				Aug. 14–Sept. 10, 1921: Cases, 4; deaths, 1.
Russia:				
Kharkoff	Jan. 28			Present.
Kief	Dec. 15–Jan. 11	259		
Latvia—				
Riga				At quarantine station in October, 1921: 1 case.
Lithuania				Present, Feb. 19, 1922, with 30 cases and mortality of 33 per cent, Kovno and vicinity.
Odessa	Jan. 28			Present.
Siam:				
Bangkok	Oct. 23–Dec. 24	8	4	
Do	Jan. 29–Mar. 4	7	3	

PLAGUE.

Asia Minor:				
Smyrna	Nov. 27–Dec. 3	1	1	
Australia:				
New South Wales—				
Sydney	do	2	1	Dec. 7–13: 4 plague rats. Jan. 15–21, 1922: 1 plague rat.
Do	Jan. 29–Apr. 29	15	2	
Queensland—				
Aramac	Mar. 19–25	1	1	Inland town on railroad about 150 miles from coast.
Brisbane	Oct. 30–Dec. 31	27	20	Total, Aug. 22–Dec. 31, 1921: Cases, 41; deaths, 27. Total infected rats, 54. Total cases, Jan. 1–Mar. 18, 1922: 10. Total infected rats, 10.
Do	Jan. 1–Mar. 18	10		
Bundaberg	Mar. 5–11	1		
Cairns	Oct. 30–Dec. 31	6	3	Plague rats, 9.
Do	Jan. 1–7		1	Pestis minor.
Cooktown	Oct. 30–Nov. 5	1		
Ingham				Nov. 6–Dec. 24, 1921: Plague rats, 14. Jan. 1–14, 1922: 2 plague rats.
Inisfail				Nov. 27–Dec. 3, 1921: 1 plague rat.
Ipswich	Dec. 11–17	1	1	
Port Douglas	Nov. 13–19	1	1	
Townsville	Nov. 20–Dec. 3	2	2	Total cases, 27; deaths, 18.
Do	Jan. 1–14		2	To Jan. 14, 1922: Cases, 32; deaths, 21.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Azores:				
Islands—				
Fayal	Jan. 16-22	2	2	
St. Michael				Nov. 27-Dec. 31, 1921: Cases, 23; deaths, 9. Jan. 1-21, 1922: Cases, 13; deaths, 8. Jan. 22-Apr. 1, 1922: Cases, 62; deaths, 31; occurring at Arrifes, Capelas, Fenaes, Ribeira Grande, and Santo Antonio; distance from port of Ponta Delgada, 3 to 9 miles.
Arrifes	Dec. 25-31	1	1	3 miles from port.
Do	Jan. 1-7	1		
Fenaes d'Ajuda	Nov. 27-Dec. 3			Present. 6 miles from port.
Do	Jan. 15-21	3	2	
Ribeira Grande	Nov. 13-Dec. 10	19	8	9 miles from port.
Do	Jan. 8-14	9	6	
Livramonto	Dec. 4-10	2		Vicinity of Ponta Delgada.
Ponta Delgada	....do	1		
Brazil:				
Bahia	Oct. 30-Dec. 31	13	12	
Do	Jan. 1-Mar. 2	14	11	
Para	Feb. 6-12		1	
Pernambuco	Feb. 26-Mar. 4	1	1	
Porto Alegre	Feb. 12-18	3	2	
Rio de Janeiro	Jan. 22-28	1	1	
British East Africa:				
Uganda	Aug. 1-Dec. 31	256	229	Aug. 1-Oct. 31, 1921: Reports of inspectors, deaths, 343; reports of chiefs, deaths, 651.
Cape Verde Islands:				
St. Vincent	Mar. 16			Present: No plague mortality reported during previous 5-month period. August, 1921: Cases, 6; deaths, 3.
Ceylon:				
Colombo	Oct. 30-Dec. 31	13	10	Oct. 30-Dec. 24, 1921: Rodent plague, 6.
Do	Jan. 1-Mar. 18	27	25	Infected rats, 11.
Chile:				
Antofagasta				Mar. 5-11, 1922: 1 plague rat.
China:				
Amoy	Feb. 18-Mar. 4			Present in surrounding country.
Hongkong	Nov. 20-Dec. 17	6		
Do	Jan. 1-Apr. 22	215	134	
Ecuador:				
Guayaquil	Nov. 16-Dec. 31	18	6	Rats examined, 2,958; found infected, 90. Total, July-Dec. 15, 1921: Cases, 28. Jan. 1-Mar. 16, 1922: Rats examined, 18,000; found infected, 475.
Do	Jan. 1-Mar. 31	42	15	
Naranjito	Mar. 1-15	1		
Egypt				Jan. 1-Dec. 31, 1921: Cases, 356; deaths, 153. Jan. 1-Mar. 30, 1922: Cases, 56; deaths, 26.
City—				
Alexandria	Dec. 5-30	7	2	Feb. 12-18, 1922: 1 plague rodent.
Do	Jan. 17-Mar. 16	8	5	
Port Said	Dec. 20	1		Mar. 12-16, 1922: 1 case, 1 death, septicemic.
Do	Mar. 15-21	2	2	
Suez	Nov. 22-Dec. 31	16	9	
Do	Jan. 2-Mar. 30	11	5	
Province—				
Assiout	Mar. 25	1	1	Septicemic.
Assouan	Feb. 28	1	1	Do.
Fayoum	Feb. 17-Mar. 9	5	1	
Gharbieh	Feb. 17-Mar. 27	5	1	
Girgeh	Jan. 12-Mar. 30	5		Do.
Keneh	Dec. 1	1		Do.
Do	Jan. 21-Feb. 28	5	3	Pneumonic, 1 case, 1 death; septicemic, 1 case.
Minieh	Feb. 21-Mar. 9	3	3	Septicemic.
France:				
Dunkirk	Mar. 24		1	In hospital, from S. S. City of Genoa, from Bombay.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Great Britain:				
Liverpool				Mar. 31, 1922: Finding of 3 plague-infected rats reported; place, warehouse in which material from S. S. Warwickshire was stored.[1]
Greece:				
Prevesa	Feb. 8			Outbreak. Port on the Ionian Sea.
India				Oct. 23–Dec. 31, 1921: Cases, 11,229; deaths, 8,465.
Bombay	Oct. 23–Dec. 24	7	6	
Do	Jan. 1–Mar. 4	117	84	Jan. 1–Mar. 11, 1922: Cases, 25,229; deaths, 19,773.
Calcutta	Jan. 29–Mar. 25	16	16	
Karachi	Nov. 6–Dec. 31	5	5	
Do	Jan. 1–Mar. 25	176	129	
Madras	Dec. 11–17	1		
Madras Presidency	Nov. 13–Dec. 31	2,047	1,438	
Do	Jan. 1–Mar. 25	3,896	2,788	
Rangoon	Oct. 1–Dec. 31	139	129	
Do	Jan. 1–Feb. 25	257	231	
Indo-China:				
Saigon				Nov. 6–Dec. 24, 1921: Rodent plague, 10. Jan. 8–Feb. 4, 1922: Rodent plague, 8.
Italy:				
Catania	Nov. 27	1	1	Total, Oct. 16–Nov. 27, 1921: Cases, 8 (of which 1 doubtful); deaths, 5. Jan.–Feb., 1922; 23 plague-infected rats found.
Naples (Province)—				
Torre Annunziata	Oct. 22–Dec. 27	2		17 miles from city of Naples.
Venice	Oct. 27	1		
Java				Islands of Java and Madoera; Nov. 1–Dec. 31, 1921: Deaths, 1,781, Jan. 1–Feb. 28, 1922: Deaths, 2,571.
East Java—				
Soerabaya	Oct. 30–Dec. 10	11	12	
Do	Jan. 1–Mar. 4	7	7	
Madagascar:				
Tananarive	Jan. 23–Feb. 29	6	5	Bubonic, pneumonic, and septicemic.
Mauritius (Island)				Jan. 23–Feb. 6, 1922: Cases, 12; deaths, 3
Port Louis	Oct. 29–Dec. 30	241	142	Plague-infected rats, 176; plague-infected cats, 36. (Corrected report.) Dec. 1–30. 1921: Dead rats found, 155; dead cats, 4.
Do	Dec. 31–Jan. 22	16	6	Dead rats found, Dec. 31, 1921–Jan. 11, 1922, 17.
Mesopotamia:				
Bagdad	Oct. 1–31	1	1	
Do	Feb. 1–28	2	1	
Mexico:				
Tampico	Mar. 26–Apr. 1	1		Dec. 18–31, 1921: Infected rodents found, 5: total, Jan. 1–Dec. 3, 1921, infected rodents, 322; Jan. 1–Apr. 8, 1922, 14 plague-infected rodents.
Vera Cruz				One infected rodent caught Dec. 5, 1921. Apr. 4–28, 1922: 3 infected rodents found.
Peru				Nov. 17–Dec. 31, 1921: Cases, 94; deaths, 35. Occurring in Callao, Huacho, Huaras, Lima, Magdalena Vieja, Paita, Salaverry, and Sechura, Jan. 1–Feb. 28, 1922: Cases, 141; deaths, 62. (Corrected report to Feb. 15, 1922.)
Localities—				
Bambamarca	Jan. 1–15			Present. Rural.
Barranco	Jan. 16–31	1		
Callao	Jan. 1–Feb. 28	7	4	Rural. Year, 1921: Deaths, 30.

[1] Public Health Reports, Mar. 31, 1922, p. 784.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru—Continued.				
Localities—Continued.				
Casma	Feb. 1-28	11	3	
Chiclayo	Jan. 16-Feb. 28	19	16	
Chilca	Jan. 16-Feb. 15	11	2	
Cutervo	Jan. 1-15	1		Rural.
Guadalupe	Jan. 1-31	7	2	
Huacho	Jan. 1-Feb. 15	3		
Hualgayoc	Jan. 16-31			Province. Present.
Huaral	Jan. 1-15	2		
Jayanca	do			Present.
Lambayeque	Jan. 16-Feb. 15	3	1	
Lima	Jan. 1-Feb. 28	14	4	In district, 20 cases, 6 deaths.
Mollendo	Feb. 1-28	3		
Pacasmayo	do	1		
Payta	Jan. 1-Feb. 28	28	21	
Piura	Feb. 1-15	1		
Salaverry	Jan. 16-31	1		
San Pedro	Jan. 1-15	1		
Sullana	Jan. 1-Feb. 28	3	3	
Trujillo	Feb. 1-15			Present.
Tumbez	do	4		
Portugal:				
Lisbon	Dec. 15	1	1	
Portuguese West Africa:				
Angola—				
Loanda	Oct. 9-Nov. 5		2	
Do	Jan. 29-Feb. 4		2	
Mossamedes	Feb. 14			Present. In vicinity Mar. 1-22, 1922: Cases, 11. No cases reported in city since Feb. 28, 1922.
Rhodes (Island) (Aegean Sea)	Oct. 13	3	1	
Senegal:				
Dakar	Feb. 1-28	2		Jan. 1-31, 1922: 1 rodent plague.
Siam:				
Bangkok	Oct. 23-Dec. 31	7	6	
Do	Jan. 8-Mar. 4	35	26	
Straits Settlements:				
Singapore	Nov. 6-Dec. 31	3	3	
Do	Jan. 15-Mar. 18	37	18	
Syria:				
Beirut	Oct. 9-Nov. 20	10	4	
Turkey:				
Constantinople	Jan. 1-7	1		Mar. 26-Apr. 1, 1922: One death.
Union of South Africa:				
Orange Free State—				
Boschrand Farm	Jan. 25	3	3	10 miles from Kroonstad.
Bothaville	Nov. 19			Plague-infected mouse found.
Geluksfontein Farm	Feb. 25			Plague mortality among rodents.
Hoopstad	Dec. 4-10	1		In native herd boy.
Klipfontein Farm	Feb. 10	1	1	12 miles from Bothaville. Plague infection found in rats on adjoining farm, week ended Feb. 4, 1922.
Rientfontein Farm	Feb. 17			Plague-infected squirrel found.
On vessel:				
S. S. City of Genoa	Mar. 9-15	4	2	At Suez and Port Said, Egypt, from Karachi and Bombay, India, for Plymouth, England. One fatal case at sea en route to Suez; 1 case on arrival. At Port Said, 2 cases, of which 1 fatal. At Dunkirk, France, Mar. 24, 1922: Several cases, one fatal case in hospital at Dunkirk.
S. S. Polycarp	Feb. 3	1		At Para, Brazil, from Ceara, via Manaos, Maranham, and Para; for New York.
S. S. Tango Maru	Dec. 31	1		At Thursday Island Quarantine, Australia, from Kobe, via Nagasaki, Hongkong, Manila, and Zamboanga.
S. S. Warwickshire	Feb. 12			At Liverpool, England, from Rangoon. Plague rats, 27; 1 plague mouse.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers	Jan. 1-Mar. 31	4		
Arabia:				
Aden	Dec. 25-31		1	
Do	Jan. 8-14		1	
Asia Minor:				
Smyrna	Jan. 15-21	1		In district.
Bolivia:				
La Paz	Aug. 1-Dec. 31	60	41	
Do	Jan. 1-Feb. 28	32	21	
Brazil:				
Bahia	Nov. 6-Dec. 17	4		
Do	Jan. 8-Feb. 4	2		
Rio de Janeiro	Nov. 13-Dec. 31	13	2	
Do	Jan. 1-Apr. 1	50	16	
Santos	Feb. 20-26		1	
Sao Paulo	Oct. 31-Dec. 25	11		
Do	Dec. 26-Jan. 8	2		
British East Africa:				
Uganda	Aug. 1-Dec. 31	33	6	
Canada:				
British Columbia—				
Vancouver	Dec. 25-31	3		
Do	Jan. 29-Feb. 4	1		
Victoria	Mar. 12-18	1		
Manitoba				Year 1921: Cases, 71.
Winnipeg	Nov. 20-Dec. 3	2		
Do	Apr. 2-8	3		
New Brunswick—				
Charlotte County				Dec. 17, 1921: 31 cases occurring at Andersonville and Blacks Harbor. Dec. 18-24, 1921: Cases 3. Dec. 25-31, 1921: Cases, 2. Feb. 19-20, 1922: Cases, 2.
St. Stephen	Dec. 11-17	2		
Restigouche County				Dec. 11-31, 1921: Cases, 3. Feb. 12-25, 1922: Cases, 4.
Charlo	Feb. 19-25	2		20 miles from Campbellton.
Westmoreland County	Mar. 5-Apr. 1	16		
York County	Dec. 11-17	1		
Do	Jan. 29-Feb. 4	1		
Ontario				Dec. 1-31, 1921: Cases, 128. Jan. 1-31, 1922: Cases, 170; Feb. 1-Mar. 31, 1922: Cases, 298.
Fort William and Port Arthur	Jan. 1-21	3		
Hamilton	Jan. 22-Mar. 25	4		
Kingston	Jan. 17-Feb. 11	5		Jan. 16-20, 1922: Two cases reported.
Niagara Falls	Dec. 11-24	2		
Do	Jan. 15-Apr. 22	47		
North Bay	Feb. 12-18	1		
Ottawa	Dec. 11-24	17		
Do	Jan. 1-Apr. 15	34		
Sault Ste. Marie	Jan. 15-21	1		
Toronto	Dec. 11-24	4		
Do	Jan. 1-Apr. 8	54		
Windsor	Jan. 8-Mar. 4	3		
Quebec—				
Montreal	Dec. 11-24	1		
Saskatchewan—				
Regina	Jan. 1-Feb. 11	4		
Saskatoon	Dec. 1-18	6		
Do	Feb. 5-18	3		
Canal Zone:				
Ancon				Admitted to hospital by transfer from Panama, Nov. 30, 1921, 1 case. Arrived on sailing vessel from a village on south coast.
Ceylon:				
Colombo	Nov. 27-Dec. 3	1		Port case.
Do	Jan. 29-Mar. 4	5		One port case.
Chile				Jan.-Sept., 1921: Cases, 5,500 (approximately); deaths, 2,500 (approximately). Nov. 15-21, 1921: Diffused in southern provinces; not epidemic.
Concepcion	Nov. 23-Dec. 26		25	Nov. 15-21, 1921: Present. In vicinity, at Hualqui, cases, 32; deaths, 5. Dec. 4-17, 1921: Present.
Do	Dec. 27-Mar. 13		42	
Coronel	Nov. 15-Dec. 17			Present.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chile—Continued.				
Curanilahue	Nov. 15-21	4		
Lota				Oct. 28, 1921-Jan. 31, 1922: Cases, 879; deaths, 338.
Ollague	Mar. 12-25	1		Reported Mar. 16.
Osorno				From beginning of outbreak to Feb. 15, 1922: Cases, 87.
Talcahuano	Nov. 15-Dec. 24	6		Jan. 8-28, 1922: Present.
Do	Jan. 29-Feb. 18	5		From beginning of outbreak to Feb. 15, 1922: Cases, 122.
Temuco	Nov. 15-21	9		
Valparaiso	Oct. 23-Dec. 31		94	
Do	Jan. 1-Mar. 25		39	
China:				
Amoy	Nov. 16-Dec. 31		7	Nov. 23-29, 1921: Present. Jan. 22-28, 1922: Present.
Do	Jan. 1-Mar. 18		13	
Antung	Nov. 28-Dec. 18	4	1	
Do	Mar. 19-26	1		
Canton	Dec. 1-31			Present.
Changsha	Jan. 16-22	1		
Chungking	Nov. 6-Dec. 31			Do.
Do	Jan. 1-Mar. 4			Do.
Foochow	Nov. 6-Dec. 31			Do.
Do	Jan. 1-Mar. 18			Do.
Hankow	Nov. 13-Dec. 31			Do.
Do	Jan. 1-21	2		
Harbin	Nov. 14-Dec. 11	5		
Do	Dec. 26-Mar. 12	4		
Hongkong	Dec. 3-31	5		
Do	Jan. 1-Mar. 18	53	39	
Mukden	Nov. 20-Dec. 31			Do.
Do	Jan. 15-Mar. 18			Do.
Nanking	Nov. 20-Dec. 17			Do.
Do	Jan. 15-Mar. 15			Do.
Shanghai	Oct. 31-Dec. 31	23	194	Cases, foreign; deaths, Chinese and foreign. Population: Native, 790,000; foreign, 24,000. Corrected report.
Do	Jan. 2-Apr. 2	34	506	Cases, foreign; deaths, native. Jan. 14, 1922: Seriously prevalent.
Tientsin	Dec. 11-17	2		In Mission Hospital.
Tsingtau	Jan. 1-Mar. 19	35	14	
Chosen (Korea):				
Fusan	Dec. 1-31	3	1	
Do	Jan. 1-Feb. 28	80	19	
Gensan	Feb. 1-28	1		
Seoul	Jan. 1-Feb. 28	8	3	
Colombia:				
Cartagena	Nov. 22-28		1	
Santa Marta	Feb. 19-25			Present.
Cuba				Dec 4-31, 1921: Cases, 361. Jan. 1-31, 1922: Cases, 257.
Antilla	Dec. 12-31	3		At Preston.
Do	Jan. 8-Feb. 4	13	1	
Cienfuegos	Jan. 22-Apr. 1	10	1	Two cases from outside city limits. Apr. 16-22, 1922: Cases, 6, found at Senado, about 25 miles distant.
Nuevitas	Apr. 10-16	3		
Santiago	Jan. 1-Feb. 28	8	1	
Dominican Republic				Oct. 1-31, 1921: Cases, 653; deaths, 54. Jan. 2-Feb. 4, 1922: Cases, 6,922; deaths, 185.
Puerto Plata	Jan. 13	100	5	In district, widely diffused, with 1,000 estimated cases with 100 deaths.
San Pedro de Macoris	Nov. 20-Dec. 31	31	1	Estimate of about 500 cases of smallpox in the district of Macoris; of these, 50 within the city limits.
Do	Jan. 14-Feb. 4	122		In surrounding country, Feb. 12-25: 66 cases. Feb. 26-Apr. 1: About 60 cases.
Santo Domingo	Nov. 15-Dec. 5			In district, 401 cases estimated. Dec. 17-24, 1921: Present in vicinity. Jan. 9-16, 1922: In surrounding country, 1,745 cases (estimated). Mar. 19-Apr. 1, 1922: About 20 cases, with 1 death, in surrounding country. Apr. 2-15, 1922: Cases, 25; deaths, 8.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador:				
Guayaquil	Nov. 16–Dec. 3	7		And vicinity.
Do	Jan. 1–Mar. 31	4		
Egypt:				
Alexandria	Nov. 26–Dec. 2	1	1	
Cairo	....do	2		
Port Said	Dec. 20–26	1		Dec. 16–23, 1921: 1 case.
Do	Jan. 22–28	1		
Finland				Nov. 16–30, 1921: 1 case.
Do				Feb. 1–15, 1922: Cases, 19. Mar. 1–15, 1922: Cases, 13.
Fiume				Dec. 27, 1921–Jan. 2, 1922: Cases, 2
France:				
Bordeaux	Mar. 31–Apr. 6		1	
Great Britain:				
Manchester	Jan. 1–7	4		
Nottingham	Dec. 4–31	18		
Do	Jan. 8–Mar. 25	10		
Swansea	Jan. 17–23	2		Imported on vessel from Persian Gulf.
Haiti				Jan. 22–Apr. 8, 1922: A few cases.
Cape Haitien	Dec. 11–24	8		
Do	Jan. 1–Feb. 18	21	1	
Port au Prince	Dec. 11–31			Present.
Do	Jan. 15–21	2		
India				Oct. 2–8, 1921: Deaths, 28. Oct. 23–Nov. 19, 1921: Deaths, 266. Nov. 27–Dec. 31, 1921: Deaths, 533. Jan. 1–28, 1922: Deaths, 700.
Bombay	Oct. 23–Dec. 31	3	2	
Do	Jan. 1–Mar. 4	16	3	
Calcutta	Nov. 13–Dec. 31	37	28	
Do	Jan. 1–Mar. 18	294	207	
Karachi	Nov. 11–Dec. 31	28	9	
Do	Jan. 1–Mar. 25	143	77	
Madras	Nov. 13–Dec. 31	183	59	
Do	Jan. 1–Mar. 25	958	339	
Rangoon	Oct. 1–Dec. 31	6		
Do	Jan. 15–Feb. 25	85	1	
Indo-China:				
Saigon	Dec. 18–24	1	1	City and district.
Do	Jan. 8–Feb. 18	8	3	Do.
Italy:				
Catania	Feb. 20–26	1		In Province.
Genoa	Nov. 10–20	1		
Messina—				
Messina	Nov. 28–Dec. 4	1		
Pettineo	Nov. 14–Dec. 4	2		
Venice	Jan. 30–Feb. 5	2		
Japan:				
Kobe	Jan. 23–Apr. 3	4	2	
Nagasaki	Mar. 13–19	1		
Taiwan Island	Dec. 1–31	2	1	
Do	Feb. 14–Mar. 10	2	1	
Yokohama	Jan. 9–29	3		Corrected report.
Java:				
East Java—				
Soerabaya	Jan. 1–7	4		
West Java—				
Bandoeng	Nov. 18–Dec. 8	2		
Batavia	Nov. 18–Dec. 22	11	9	City and Province.
Do	Dec. 30–Mar. 2	5	3	In Province: Cases, 23; deaths, 4; 13 cases, with 3 deaths, not locally stated. Feb. 3–Mar. 23, 1922: Cases, 18; deaths, 2.
Buitenzorg	Nov. 25–Dec. 8	7	1	
Krawang	Nov. 18–24	1		
Lebak	Nov. 18–Dec. 8	7	4	
Pandeglang	Nov. 25–Dec. 1		1	
Tangerang	Nov. 18–Dec. 8	5	1	
Liberia:				
Grand Bassa County	Nov. 30			Present at Lower Buchannan.
Mesopotamia:				
Bagdad	Oct. 1–Nov. 30	117	50	Epidemic, with high mortality, November, 1921.
Do	Feb. 1–28	6	4	
Mexico:				
Chihuahua	Dec. 5–11		1	
Do	Jan. 23–Feb. 19		2	
Guadalajara	Nov. 1–Dec. 31	6		
Do	Jan. 1–Mar. 4	35	6	
Mexico City	Nov. 20–Dec. 31	64		Including municipalities in Federal District.
Do	Jan. 1–Mar. 25	208		Do.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico—Continued.				
Monterey	Apr. 12		2	Epidemic. Apr. 28: Estimated about 16 deaths daily.
Saltillo	Jan. 29–Apr. 8		2	From San Salvador, Zacatecas, 1; from Tampico, 1.
San Luis Potosi	Dec. 18–24		2	
Do	Jan. 8–Apr. 1		18	
Torreon	Dec. 1–31		134	
Do	Jan. 1–Feb. 28		82	
Newfoundland:				
St. Johns	Feb. 4–10	1		
Nicaragua:				
Managua	Mar. 5			Present.
Palestine:				
Jerusalem	Jan. 10–Feb. 20	27		
Panama:				
Bocas del Toro Province—				
Sursuba	Jan. 18–Feb. 8	11		Village 24 miles from Almirante.
Chiriqui Province	Dec. 22			Present.
Do	Jan. 26			Present with center of prevalence at Boquete Bajo. At Boquete Bajo, Jan. 22–Mar. 23, 1922, 59 admissions to lazaretto: On Mar. 20, 1922, 16 cases of smallpox, confluent type.
Panama	Dec. 14	1		On Dec. 21, 1921: 1 additional case from country district of Sabanas admitted to hospital. Total admissions, Jan. 1–Dec. 21, 1921, 207.
Peru:				
Lima	Nov. 1–Dec. 31		3	
Poland				Aug. 14–Dec. 31, 1921: Cases, 578; deaths, 146. Exclusive of Brest-Litovsk, Minsk, and Wilno districts.
Portugal:				
Lisbon	Nov. 13–Dec. 31	48	12	
Do	Jan. 1–Apr. 15	173	9	1 death in January, 1 in February, 7 deaths in March.
Portuguese East Africa:				
Lourenco Marques	Oct. 1–Nov. 5	2	4	
Portuguese West Africa:				
Angola—				
Loanda	Oct. 9–Dec. 31		7	
Do	Jan. 1–14		3	
Rumania:				
Bucharest	Nov. 1–30		33	
Chisinau	Dec. 1–31	33		District.
Do	Feb. 1–28	17		Do.
Russia:				
Esthonia	Oct. 1–Dec. 31	38		
Do	Feb. 1–28	1		
Lettonia	....do	75		Name of country officially changed from Latvia to Lettonia.
Do	Jan. 1–Feb. 28	38		
Senegal:				
Dakar	....do	5	3	
Serbia:				
Belgrade	Oct. 2–Nov. 26	16	4	
Siam:				
Bangkok	Oct. 23–Nov. 5	1		
Siberia:				
Vladivostok	Feb. 22–28	1	1	
Spain:				
Barcelona	Jan. 8–14		1	
Corunna	Apr. 2–8		1	
Huelva	Oct. 1–Dec. 31		3	
Do	Jan. 1–31	1	1	
Malaga	Nov. 1–Dec. 31		60	
Do	Jan. 1–31		8	
Seville	Nov. 16–Dec. 31		7	
Do	Jan. 8–Mar. 25		55	
Valencia	Jan. 22–Mar. 25	5	1	
Straits Settlements:				
Singapore	Nov. 6–Dec. 24	49	13	
Do	Jan. 1–Mar. 18	189	37	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Switzerland:				
Glarus, Canton	Dec. 10			Epidemic.
Lucerne	Feb. 1-28	12		
St. Gall	Feb. 12-18	1		
Zurich	Dec. 10	2		In vicinity.
Do	Mar. 12-Apr. 8	6		
Syria:				
Adana	Dec. 18-24			Present.
Do	Jan. 1-14			Do.
Aleppo	Dec. 18-24			Do.
Do	Jan. 1-Apr. 8			Do.
Alexandretta	do			Do.
Beirut	Oct. 9-Nov. 13	5	2	
Do	Jan. 8-Mar. 27	24	11	Dec. 29, 1921-Jan. 4, 1922: Cases, 14; deaths, 2.
Cilicia	Jan. 8-Feb. 4			Present.
Diarbekir	Dec. 18-24			Do.
Do	Jan. 1-Feb. 4			Do.
Mersina	Dec. 18-24			Do.
Do	Jan. 1-7			Do.
Urfa	Dec. 18-24			Do.
Do	Jan. 1-Feb. 4			Do.
Tunis:				
Tunis	Nov. 26-Dec. 23	17	15	
Do	Jan. 1-Apr. 8	4	6	
Turkey:				
Constantinople	Nov. 27-Dec. 24	20	4	
Do	Jan. 15-Apr. 8	115	25	
Union of South Africa				Nov. 1-Dec. 31, 1921: Cases, 326; deaths, 6 (colored). White, 10 cases. Jan. 1-31, 1922: Cases, 37; deaths, 3.
Cape Province	Nov. 5-Dec. 31			Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 42; deaths, 1 (colored).
Do	Jan. 8-Mar. 11			Outbreaks.
Natal	Jan. 8-Feb. 25			Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 209; deaths, 5 (colored).
Orange Free State	Oct. 23-Dec. 24			Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 8 (colored).
Do	Feb. 5-25			Outbreaks.
Southern Rhodesia	Dec. 29-Mar. 15	232		Natives.
Transvaal	Oct. 23-Dec. 31			Outbreaks.
Do	Jan. 1-Feb. 25			Outbreaks. Dec., 1921: Cases, 15 Nov. 1-Dec. 31, 1921: Cases, 22 (colored). Among white population, 8 cases, State not designated.
Johannesburg District	Dec. 1-31	1		
Do	Jan. 1-7			Outbreaks.
Venezuela:				
Ciudad Bolivar	Mar. 22	3		
Yugoslavia				July 3-30, 1921: Cases, 37.
Bosnia Herzegovina	July 3-9	2		
Croatia Slavonia	do	1		
Dalmatia	do	1		
Serbia	do	3		
Belgrade	Dec. 11-17	4		
Do	Jan. 1-Feb. 18	6		
Slovenia	July 3-9	1		
Voivodina	do	3		
On vessels:				
S. S. Empire State	Apr. 7	1		At Honolulu, Hawaii, Mar. 31, In Chinese woman, embarked at Hongkong Mar. 15; unvaccinated; arrived Shanghai Mar. 19, states did not go ashore; at Kobe Mar. 22; left Yokohama Mar. 24. Case was passed on inspection; developed Apr. 7, 1922.
S. S. Victoria	Jan. 16	1	1	At Thursday Island Quarantine, Australia. Vessel left Hongkong Jan. 3; case isolated Jan. 10. Vessel left for Townsville, Sydney, and Melbourne. Released at Melbourne Feb. 4, 1922.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
On vessels—Continued.				
S. S. West O'Rowa	Jan. 5-8	3	1	At Kobe, Japan, from Shanghai, China.
S. S. ———	Jan. 17-23	2		At Swansea, Wales, from Persian Gulf.

TYPHUS FEVER.

Algeria:				
Algiers	Nov. 1-Dec. 31	3		
Do	Jan. 11-Mar. 31	10	1	
Oran	Dec. 21-31	1		
Do	Jan. 1-Mar. 31	24	11	
Asia Minor:				
Brousa	Jan. 15-21	1		
Austria:				
Vienna	Dec. 4-31	10		
Do	Jan. 1-28	9	1	
Bolivia:				
La Paz	Aug. 1-Dec. 31	121	98	
Do	Jan. 1-31	15	12	
Brazil:				
Sao Paulo	Feb. 6-12	12	2	
Bulgaria:				
Sofia	Dec. 18-24	1		
Do	Feb. 12-Mar. 18	2		
Chile:				
Concepcion	Nov. 22-Dec. 26		3	
Do	Jan. 3-30		3	
Talcahuano	Jan. 29-Feb. 18	3		
Valparaiso	Oct. 23-Nov. 26		6	
Do	Jan. 1-7		1	
China:				
Antung	Dec. 26-Jan. 1	1		
Do	Feb. 6-12	1		
Harbin	Nov. 7-Dec. 25	12		
Do	Dec. 26-Mar. 19	37		Jan. 23, 1922: Reported extending from Soviet Russia along railway line to maritime provinces.
Czechoslovakia:				
Prague	Jan. 22-Feb. 18	3		
Danzig (free city)	Feb. 23	1		In district, at Zoppot. In merchant from Warsaw.
Egypt:				
Alexandria	Nov. 19-Dec. 31	3	1	
Do	Jan. 15-Apr. 1	20	5	
Cairo	Oct. 1-Dec. 31	18	14	
Do	Jan. 1-Feb. 11	10	5	
Port Said	Jan. 22-Apr. 8	3		
Finland:				
Helsingfors	Jan. 1-31	1		In courier from Moscow.
Germany:				
Breslau	Dec. 25-31	2	1	
Do	Jan. 1-Feb. 5	55	8	Including district.
Frankfort-on-Oder	Feb. 16	26		In persons returning from Russia.
Hamburg	Dec. 11-17	4		
Great Britain:				
Birkenhead	Apr. 6	13	3	Vicinity of Liverpool.
Glasgow	Dec. 25-31	1		
London	Apr. 29	1		Stated to have probably been contracted in Warsaw.
Greece:				
Saloniki	Jan. 23-29	1		
Italy:				
Palermo [1]	Jan. 15-28	3	1	
Mesopotamia:				
Bagdad	Oct. 1-Dec. 31	8	9	
Do	Feb. 1-28	1		

[1] These cases are stated to have been erroneously reported and will be omitted in future issues of the Public Health Reports.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico:				
Mexico City	Nov. 20-Dec. 31	242		Including municipalities in Federal District.
Do	Jan. 1-Mar. 25	275		Do.
San Luis Potosi	Dec. 18-24		1	Dec. 25-31, 1921: Present.
Do	Jan. 8-Feb. 25			Present. One death.
Palestine:				
Jerusalem	Dec. 27-Apr. 10	13		
Poland				Aug. 14-Nov. 5, 1921: Cases, 2,399; deaths, 173. Nov. 6-Dec. 3, 1921: Cases, 1,512; deaths, 105. Nov. 20-Dec. 10, 1921: Cases, 1,162; deaths, 89. Dec. 4-31, 1921: Cases, 3,609; deaths, 313. Jan. 1-7, 1922: Cases, 1,322. All statistics are exclusive of Brest-Litovsk, Minsk, and Wilno districts.
District—				
Bialystok	Nov. 20-Dec. 10	116	3	
Do	Jan. 1-7	253		
Galicia—				
Lemberg	Jan. 3	229		Jan. 1-7, 1922: Cases, 61.
Kielce	Nov. 20-Dec. 10	31	8	
Do	Jan. 1-7	28		
Krakow	Nov. 20-Dec. 10	45	6	
Do	Jan. 1-7	53		
Lodz	Nov. 20-Dec. 10	67		
Do	Jan. 1-7	41		
Lublin	Nov. 20-Dec. 10	59		
Do	Jan. 1-7	147		
Lwow	Nov. 20-Dec. 10	121	16	
Nowogrod	do	249	15	
Polesia	do	83	5	
Do	Jan. 1-7	450		
Posen	do	1		
Stanislawow	Nov. 20-Dec. 10	88	8	
Do	Jan. 1-7	54		
Tarnopol	Nov. 20-Dec. 10	86	17	
Do	Jan. 1-7	28		
Volhynia	Nov. 20-Dec. 10	89	4	
Do	Jan. 1-7	107		
Warsaw	Nov. 20-Dec. 10	81	2	
Do	Jan. 1-7	32		
Warsaw City	Nov. 20-Dec. 10	47	5	
Do	Jan. 1-7	67		
Portugal:				
Oporto	Jan. 8-Apr. 8	27	2	
Rumania:				
Bucharest	Nov. 1-30	3		
Cahul	Jan. 1-31	6		District.
Chisinau	Nov. 1-Dec. 31	28		District. Dec. 1-31, 1921: Recurrent typhus; cases, 19.
Do	Feb. 1-28	10		District.
Russia				Nov. 28-Dec. 10, 1921: in Soviet Russia, cases, 7,681.
Esthonia	Oct. 1-Dec. 31	53		Recurrent typhus, 33 cases.
Do	Jan. 1-Feb. 24	48		Corrected (report) Oct. 1-Nov. 30, 1921: Cases, 127.
Lettonia	Oct. 1-Dec. 31	341		
Do	Jan. 1-Feb. 18	456		
Libau	Jan. 15-Feb. 1	4		
Lithuania	Jan. 1-31	814	73	Recurrent typhus: Cases, 357 deaths, 12. Typhus: Feb. 19, 1922, 400 cases, vicinity of Kovno, with mortality of 7 per cent.
Perm	Nov. 23-Dec. 10	1,408		Oct. 1-31, 1921: Cases, 839, Nov. 1-31, 1921: Cases, 2,389.
Saratov District—				
Markstadt				Sept. 1-Dec. 31, 1921: Cases, 1,987; mortality, about 10 per cent; hospital cases.
Serbia:				
Belgrade	Oct. 2-Nov. 26	3	2	
Siberia				Jan. 23, 1922: Present in western districts.
Chita	Dec. 26			Epidemic.
Vladivostok	Dec. 25-31	5	1	
Spain:				
Madrid	Dec. 1-31	1		
Do	Jan. 1-31	2		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Syria:				
Aleppo	Mar. 19-25			Present.
Diarbekir	Mar. 5-Apr. 1			Do.
Mardin	do			Do.
Tunis:				
Tunis	Feb. 5-Mar. 25	4	3	
Turkey:				
Constantinople	Nov. 20-Dec. 31	19		
Do	Jan. 1-Apr. 8	122	1	
Union of South Africa				Nov. 1-Dec. 31, 1921: Cases, 1,368; deaths, 205 (colored). White, 20 cases; deaths, 4. Jan. 1-30, 1922: Cases, 520; deaths, 84, occurring in native population; 12 cases with 2 deaths occurring in white population.
Cape Province				Oct. 23 - Dec. 24, 1921: Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 1,053; deaths, 158 (colored). Among white population, 19 cases, 3 deaths.
Do				Jan. 1-Feb. 18, 1922: Outbreaks. Jan. 1-30, 1922: Cases, 331; deaths, 49 (colored); cases, 9; deaths, 3 (among white population).
East London	Oct. 30-Dec. 24	3		One death of European at Jensenville, Dec. 6, 1921.
Do	Jan. 29-Feb. 11	2		Natives.
Natal	Nov. 5-Dec. 17			Outbreaks. Stated to be prevalent only in Newcastle district. Nov. 1-Dec. 31, 1921: Cases, 135; deaths, 25 (colored). Jan. 1-30, 1922: Cases, 36; deaths, 10 (colored). Among white population, 3 cases.
Orange Free State	Nov. 13-Dec. 31			Outbreaks. Nov. 1 - Dec. 31, 1921: Cases, 158; deaths, 21, (colored).
Do	Jan. 1-Mar. 11			Outbreaks. Jan. 1-30, 1922: Cases, 133; deaths, 25.
Durban	Jan. 15-21	1		Imported.
Transvaal	Jan. 8-Feb. 11			Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 35; deaths, 4 (colored). White, 1 case, 1 death. Jan. 1-30, 1922: Cases, 20 (colored).
Johannesburg District	Jan. 12-18	26	4	
Venezuela:				
Maracaibo	Dec. 20-26		1	
Jugoslavia				July 3-30, 1921: Cases, 13.
Bosnia Herzegovina	July 3-9	1		
Croatia Slavonia—				
Zagreb	Jan. 1-Mar. 25	4		
Montenegro	July 3-9	3		

YELLOW FEVER.

Brazil:				
Pernambuco	Feb. 19-Mar. 4	2	1	
Mexico				Year 1921: Cases, 115; deaths, 53.
Colima (State)				Year 1921: Cases, 7; deaths, 4.
Colima	Oct. 27	4	3	
Manzanillo	Aug. 21	3	1	
Jalisco (State)				Year 1921: Cases, 13; deaths, 7.
Guadalajara	Nov. 1-30	1	1	Imported.
Puerta Vallarta (Las Penas).	Oct. 5-Dec. 17	13	5	
Do	Jan. 31		1	
Tonila	Aug. 31	1	1	
Quintana Roo (Territory)—				
Payo Obispo	Aug. 8	1	1	
Sinaloa (State)				Year 1921: Cases, 18; deaths, 9.
Culiacan	Sept. 17	4	1	
Guamuchil	Oct. 10	1		
Mazatlan	Aug. 21	1	1	Imported.
Palmar de los Leales	Sept. 30	12	7	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to May 12, 1922—Continued.

YELLOW FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico—Continued.				
Tamaulipas (State)				Year 1921: Cases, 1; deaths, 1.
Tampico	Jan. 11	1	1	
Vera Cruz (State)				Year 1921: Cases, 75; deaths, 31.
Alamo	June 21	4	1	Oil camp.
Alvarado	July 3	1	1	
Barra de Penn	July 18	1	1	
Cordoba	Sept. 22	5	3	
Cosamaloapam	July 18	14	6	
Nogales	Oct. 28	1	1	
Orizaba	do	1		
Papantla	Jan. 14	6	3	
Providencia	Oct. 28	3		
Purga	Feb. 7	1	1	
Rancho de Santa Rosa	Oct. 8	2		
Rancho "El Jaguey"	Sept. 14	2	2	
San Pablo (Papantla)	Sept. 12	1		
San Ildefonso	Oct. 17	2		
Tierra Blanca	Sept. 24–Nov. 12	4	3	
Tlacotalpan	Sept. 14	1	1	
Tuxpam	Jan. 3	8	2	
Vera Cruz	Jan. 15	18	7	Two of these cases imported. Dec. 20–26, 1921; Cases, 1; deaths: 1. Imported. March, 1922: One case on plantation 105 miles from port of Vera Cruz.

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