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SENATE DOCUMENTS

VOL. 99

WASHINGTON : : GOVERNMENT PRINTING OFFICE : : 1912

REPORT ON CONDITION
OF
WOMAN AND CHILD WAGE-EARNERS
IN THE UNITED STATES

IN 19 VOLUMES

VOLUME XIV: CAUSES OF DEATH AMONG WOMAN AND
CHILD COTTON-MILL OPERATIVES

Prepared under the direction of

CHAS. P. NEILL

Commissioner of Labor

By

ARTHUR R. PERRY, M. D.

WASHINGTON
GOVERNMENT PRINTING OFFICE
1912

IN THE SENATE OF THE UNITED STATES,

June 15, 1910.

Resolved, That the complete report on the condition of woman and child wage-earners in the United States, transmitted and to be transmitted by the Secretary of Commerce and Labor in response to the act approved January twenty-ninth, nineteen hundred and seven, entitled "An act to authorize the Secretary of Commerce and Labor to report upon the industrial, social, moral, educational, and physical condition of woman and child workers in the United States," be printed as public document.

CHARLES G. BENNETT,

Secretary.

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LETTERS OF TRANSMITTAL.

DEPARTMENT OF COMMERCE AND LABOR,
OFFICE OF THE SECRETARY,
Washington, August 21, 1912.

SIR: In partial compliance with the Senate resolution of May 25, 1910, I beg to transmit herewith a report showing the results of a study of the causes of death among woman and child cotton-mill operatives.

This report has just been completed and is the fourteenth section of the larger report on the investigation carried on in accordance with the act of Congress approved January 29, 1907, which provided "That the Secretary of Commerce and Labor be, and he is hereby, authorized and directed to investigate and report on the industrial, social, moral, educational, and physical condition of woman and child workers in the United States wherever employed, with special reference to their age, hours of labor, term of employment, health, illiteracy, sanitary and other conditions surrounding their occupation, and the means employed for the protection of their health, person, and morals."

The remaining parts of the general report are being completed as rapidly as possible and will each be transmitted at the earliest practicable moment.

Respectfully,

BENJ. S. CABLE,
Acting Secretary.

HON. JAMES S. SHERMAN,
President of the Senate, Washington, D. C.

DEPARTMENT OF COMMERCE AND LABOR,
BUREAU OF LABOR,
Washington, August 21, 1912.

SIR: I beg to transmit herewith Volume XIV of the Report on Woman and Child Wage-Earners in the United States, which relates to the causes of death among woman and child cotton-mill operatives. This is the fourteenth section of the report of the general investigation into the condition of woman and child workers in the United States, carried on in compliance with the act of Congress approved January 29, 1907. The field work of the investigation which fur-

nished the material for the report, as well as the preparation of the report, is the work of Arthur R. Perry, M. D. The work has been carried on under the direction and immediate supervision of Chas. H. Verrill.

I am, very respectfully,
CHAS. P. NEILL,
Commissioner.

The SECRETARY OF COMMERCE AND LABOR,
Washington, D. C.

SYNOPSIS AND SUMMARY

CONTENTS

LIST OF ILLUSTRATIONS

The following is a summary of the contents of the report. The report is divided into two main parts, the first of which is a general introduction to the subject, and the second is a detailed account of the work done during the year. The first part is divided into two sections, the first of which is a general introduction to the subject, and the second is a detailed account of the work done during the year. The second part is divided into two sections, the first of which is a general introduction to the subject, and the second is a detailed account of the work done during the year.

INTRODUCTION AND SUMMARY.

INTRODUCTION AND SUMMARY.

INTRODUCTION.

PURPOSE OF THE INVESTIGATION.

This study was undertaken to secure the most accurate information obtainable respecting the death hazard to males and females incident to work in cotton mills, as compared with the corresponding hazard among individuals of like age who are not cotton-mill operatives. This was sought not from an abstract interest in death rates, but because accurate mortality statistics of a given occupation constitute the only indisputable evidence as to the healthfulness or unhealthfulness of that occupation to the persons engaged in it.

It is necessary to emphasize the word accurate in the above statement, for the published statistics are sometimes so misleading as wholly to disguise the real situation. Thus, this investigation disclosed the fact that in the country's largest cotton manufacturing city not even one-half of the females who had died two years or less after quitting cotton-mill work were recorded upon the official death certificates as having been cotton operatives.^a Yet it should be little less than obvious that those who die within so short a period after leaving the work at which they have spent perhaps ten, twenty, or even more years must certainly be included, just as individuals long retired from mill work should be excluded (excepting possibly mill veterans), if knowledge of the death hazard to cotton operatives is to be gained.

When such inaccuracies can be avoided or corrected the death rate, as a means of determining the healthfulness of a given pursuit, has marked advantages. In any given industrial establishment the question of how many of its employees are in poor health or debilitated can not be satisfactorily determined, owing to fallibility in judgment even of the most careful and intelligent investigators. On the other hand, the number of deaths occurring annually among the employees of that establishment can be determined with absolute accuracy. Moreover, the present study shows that in actual practice the total number of such decedent operatives, even for a period as long as three years, is determinable with close approximation to accuracy.

^a The proportion of female operatives whose connection with the mill was thus ignored on the death certificates was 51 per cent both in 1907 and in the three-year period 1905-1907.

Statements, therefore, as to the proportional prevalence of ill health or debility within an establishment can be at best only fallible opinion, whereas the prevalency of deaths within that establishment is an ascertainable and incontrovertible fact.

But until the deaths occurring among the workers engaged in a given industry are correctly registered, every assertion as to the extent of debility among the employees runs the risk of being unfairly discredited by the quotation from official sources of occupational mortality statistics which may be grossly inaccurate.

It may, for example, happen that owing to a frequent failure to record upon a death certificate the industrial occupation of the decedent, a specified industry is accredited with a most incorrectly low death rate. If, then, an investigator reports an extreme prevalence of ill health or debility among the employees of that industry, its defenders may complacently cite its low death rate as the strongest possible presumptive evidence that the investigator is in error, and that an industry which shows so small a proportion of deaths among those engaged in it must also be comparatively free from the ill health or debility which almost invariably precedes death. Under such circumstances the burden of proof is thrown upon the investigator who might reasonably and logically be called upon to explain how the degree of ill health which he claims existed among the workers could be harmonized with the low death rate certified to by official records, and until he could meet this challenge it was simply a waste of time for him to attempt any search into the causes of the ill health he believed to be so prevalent.

But if, on the other hand, an industry's death hazard can be correctly established beyond all legitimate controversy, and if, when so established, it shows a higher death rate within specified age groups than exists among similar age groups of wage earners outside of the industry, then the position is reversed and the presumption becomes almost irresistibly strong that poor health, as well as death, is more common among its employees than among the general population.

In the present study, for instance, when accurate mortality statistics for the country's chief cotton manufacturing city were collected it was found that among female cotton operatives in the three age groups 15 to 24 years, 25 to 34 years, and 35 to 44 years, the average annual deaths from tuberculosis per 1,000 were respectively two and one-quarter times, two and a half times, and five times as numerous as among women of the same age groups outside of the cotton industry. The female operatives in the first of these groups comprised one-half, in the second, one-third, and in the third, one-fourth of the total female population of the city within the specified age groups, so that the high death rate from tuberculosis can not be ascribed to any peculiar and limited factors which might affect a

small number, but must be taken as characteristic of the industry. Moreover, in each of the specified age groups there was a similar though smaller excess in the death rates from nontuberculous causes among female operatives as compared with the corresponding death rates among the female nonoperative population.

It is evident that when the established death rates make such a showing as the above, if any investigator should declare, after due research, that debility was extraordinarily common among female cotton operatives as compared with female nonoperatives of the same age, the burden of disproving his assertion would be clearly placed upon the cotton industry. Or, if this could not be done, it would then be incumbent upon the industry either to show that this excessive prevalence of ill health and extraordinarily high mortality among its female operatives was due to causes not connected with the cotton manufacturing industry, or else to accept the responsibility for these highly undesirable conditions.

Hence, accurate determination of the death rates of an industry, occupation, or trade, by sex and age groups, is necessarily a preliminary, and logically the first step in arriving at any basic conclusions as to the physical condition of the persons therein engaged.

In the nature of things any opinion as to the healthfulness of an industry based upon an inspection or even a physical examination of its employees is open to serious question. Such an inspection can deal with only a fraction of the employees in the industry, and there can be no certainty that this fraction is really typical of the whole. The inspection can not possibly be continuous, and if it is conducted on more than one day changes materially affecting the results may occur between its beginning and its completion. Moreover, unless the group concerned is too small to be at all indicative, the inspection must be made by several persons perhaps differing widely in judgment and discernment. If, therefore, such an investigation should indicate, among the employees of any industry, the prevalence of a physical condition really incompatible with the correct mortality averaged for a term of years, the health opinions thus unaccordant with death-rate facts would logically be discredited. But if such opinions are in accord with the death-rate facts, then both the opinions and any deductions made from them gain enormously in credibility.

In other words, conclusions as to the healthfulness of a given industry based upon observation of the living can never be more than opinions, and can never, therefore, discredit accurately computed death rates. But correct occupational death rates, computed by sex and by age groups, furnish an excellent test for such conclusions and are especially useful in detecting those ill-founded statements

which seem peculiarly liable to indefinite reproduction in print and in speech.

The primary object of this study, then, was to secure essentially accurate age group death rates for the great cotton manufacturing industry, half or more of whose total employees regularly are females. A second and very practical purpose was to point out the true underlying or basic factors or agencies to which the debility or impaired health which must usually precede death may reasonably be ascribed.

From the practical standpoint, interest would seem to attach far less to the officially designated causes of death—the so-called diseases—than to the debilitating factors of which the diseases may be only the final manifestations. For early recognition of such debilitating and disease-producing factors may render it possible either to remove them or to make them harmless by increasing the physical resistance of the prospective victim, who, knowing his danger, may take suitable means to avoid it. Prophylactic or disease-preventing efforts are infinitely more useful than curative ones. But for the prevention of debility, disease, and premature death, knowledge of their basic causes is obviously an essential prerequisite.

METHOD OF SECURING DATA.

To attain these two objects—the correct mortality by age groups in the cotton manufacturing industry and a knowledge of the underlying debilitating factors which might explain this mortality—a personal inquiry was undertaken concerning each individual aged 10 years or over who within a three-year period had died from specified diseases or causes within specified cotton manufacturing cities. This inquiry was made at the late home of the decedent and nearly always from a relative who furnished information also as to the decedent's family, habits, occupational, and conjugal experiences, exposure to communicable diseases, and other personal facts of possible significance in explanation of his death. Moreover, the investigator personally inspected the premises and made note of certain hygienic conditions which might have had some effect upon the decedent's general health, or might themselves have been numbered among the debilitating factors which led up to his death.

METHOD OF ESTIMATING SIGNIFICANCE OF CONTRIBUTORY CAUSES OF DEATH.

There are certain circumstances or experiences, common but not inevitable accompaniments of living, which may be active factors in the causation of both disease and death. Such, for instance, are (1) ignorance; (2) bad air, whether germ laden, dusty, humid, or chemically impure; (3) bad food, that is, ill chosen, ill cooked, or ill chewed; (4) bad or alcoholic drink; (5) bad personal, sexual, or apartment

hygiene; (6) long labor and short sleep; (7) occupational stress (hurry and worry); (8) scant income, whether through thriftlessness, misfortune, or low wages; (9) accompaniments of the conjugal condition, such as childbirth and dependents; (10) overwork or non-resiliency from fatigue. These or some of these conditions might be encountered in the life history of any decedent, but as there are no data by age groups of the actual prevalence of such conditions, it was impossible to obtain, through age group death rates any precise idea of their effect in shortening life. Throughout this study, therefore, it has been assumed tentatively that the significance of any such condition as a causative factor of death is established by the frequency with which it was found to have occurred as an antecedent of the deaths studied.

For example, the following study shows that in Fall River 29 per cent of the decedent female cotton operatives had had tuberculous relatives, while only 21 per cent of the decedent male operatives had had similarly afflicted relatives. In accordance with the above principle it has therefore been tentatively assumed that tuberculous kindred have more influence as a causative factor of deaths among female than among male operatives.

Again, the economic importance of any factor or group of factors is measured fundamentally by its longevity effect; i. e., its effect on the duration of life. In this study it has been tentatively assumed that this effect is shown by the rare occurrence of a given factor in the life history of young decedents, or conversely by its frequent occurrence in the life history of those who attained a high average age before death.

For instance, it was found that in Fall River, during the three years covered by this study, four-fifths (79 per cent) of the total number of deaths from tuberculosis among the female population aged 10 years or over occurred in the age period 15 to 44, while of the deaths in the same age and sex group from pneumonia and cancer only 29 per cent of the first and 24 per cent of the second occurred in the age period 15 to 44.

In other words, tuberculosis had a far more marked antilongevity effect in this group than either of the other diseases. But this period is that of the greatest industrial importance. It is evident, then, that so far as this section of the population is concerned, tuberculosis, which finds its greatest number of victims in the period of chief industrial activity, is economically far more important than pneumonia and cancer, which find their victims principally among those whose industrial effectiveness is either waning or practically at an end.

Basically each life experience is bad in proportion to the extent that it shortens life. It is only, therefore, by a comparison of the ages at death of individuals whose lives were characterized by speci-

fied experiences that the relative effectiveness of these experiences in ending life can be determined. Thus, the disease tuberculosis as a force inimical to longevity can by this method be measured with fair accuracy by the years lost through its fatal activity. Through the readily ascertainable number of productive years blotted out a fairly close estimate can be made of the financial loss which tuberculosis occasions to the family, to industry, and to the community—and to the State through its interruption of life in the early or child-bearing period.

This method of reaching conclusions as to the physical condition of a specified class of individuals by a comparison of death rates has been so seldom used and differs so radically from the customary method that the main points of variance between the two modes of investigation seem to need some preliminary consideration.

The two methods may be respectively defined as the inspection method and the death-rate method. Under the first method a careful inspection is made of as many as possible of those engaged in a given industry and from the prevalence of ill health or disease among them conclusions are drawn as to the healthfulness of that pursuit. By the second method, the death rate among those engaged in a given industry is accurately determined for a period sufficiently long to exclude the effect of temporary disturbances, and from a comparison of this death rate with that prevailing in similar age and sex groups outside of the industry conclusions are drawn as to the healthful or nonhealthful character of the industry.

ADVANTAGES OF THE DEATH RATE METHOD OVER THE INSPECTION METHOD.

First of all, the two methods differ widely in the sharpness with which their basic terms may be defined. For the term death has a precise significance and is unqualifiable; whereas the term debility, ill health, or disease is inexact and qualifiable. Moreover, the unit of the one measure, death, is a demonstrable fact, while the unit of the other, ill health, may not be susceptible of demonstration. The one is absolute, the other only relative. And finally death is fixed and unchangeable, whereas ill health is variable.

Thus the death-rate method, as applied, for instance, in this study to the cotton industry, starts with a sharply defined fact—the death within a given period of a specified number of the group under consideration. The inspection method, on the other hand, starting with what is more or less a matter of opinion and judgment—the statement that at a given date so many of the group under consideration were in poor health—brings in a second element of uncertainty when it attempts to define the degree of ill health existing among those affected.

Secondly, the death-rate method has a great advantage over the inspection method in the possibility it offers of isolating a given life experience—as, for example, cotton mill working or tuberculous infection, from other life experiences or circumstances, and for determining its relative probable power for harm, or antilongevity effect. It is evident that for this purpose the unit of the death-rate method—an individual dead—is worth immensely more than is the unit of the inspection method—an individual debilitated, ill, or diseased.

For when it is said that a given number of individuals at a certain age are in ill health or diseased, it is impossible to say how much injury any one of them has suffered or will suffer from the ill health or disease by which he is affected. His physical condition is the result of a number of factors acting in combination. It might conceivably be possible to learn every one of these factors, but as there is no way of measuring definitely the amount of harm they have accomplished in combination, there is evidently no way of determining the amount of harm for which each is responsible. Together they have brought about a general condition known as ill health, or perhaps some specific condition such as tuberculosis or typhoid, but the inspection method affords no way of learning what either the general or the specific condition means in years of life sacrificed or industrial efficiency lost.

But when it is stated that a given number of individuals of a designated age have died, it is evident that each one of them has suffered the greatest total physical injury to which any individual of that age is susceptible. The factors which have produced death at the specified age undoubtedly differ widely from case to case in number, in identity, and in individual harmfulness, but in every case their combined effect has been the same—death within a specified age period. Knowing, therefore, their combined effect, it becomes possible to determine with some degree of accuracy the relative degree of harmfulness of each factor.

If it were possible to learn every factor contributory to each case of death, the effectiveness of the death-rate system obviously would be increased. Unfortunately in the present state of vital statistics allowance must always be made for a group of unreported factors in any summary of the factors influencing longevity. It is admitted that the inclusion of this group interferes with the accuracy of the conclusions reached, but it is believed that suggestive and valuable comparisons are possible, in spite of the presence of this disturbing element. Moreover, it is felt that this report will have rendered no inconsiderable service if it calls attention to the number and possible significance of the unreported factors whose omission from present mortality data seriously impairs their usefulness.

An added advantage of the death-rate method is that it has to do the more with malign influences. Students of prophylactic or preventive medicine should find analyses of life experiences and circumstances of the dead, rather than the sick, the more prolific in conclusive results or disclosures concerning the basic laws of health.

Moreover, in the matter of expediency the death-rate method has other decisive advantages. In the first place, a study of the facts given in death certificates, followed up by careful inquiry among the decedents' friends and relatives, is perhaps quite as likely to bring to light important intimate data respecting age, personal habits, and the nature of the illness as would be a similar inquiry made of an invalid himself. The one may be likened to a post-mortem dissection of the subject's life experiences, the other to a vivisection of them, hampered by the subject's active or passive opposition. It not infrequently happens that when a physician, in order to form a correct idea of a patient's condition, questions him as to possible undesirable or discreditable past experiences, the inquiries elicit only evasive or misleading replies, and sometimes are met with absolutely false answers; and this even when the patient is paying for the advice which must be based in part on his answers. It is not likely that the unsolicited inquiries of an investigator would meet with a more candid response. But a decedent's relatives or acquaintances do not seem to feel the same degree of sensitiveness, and speak freely of facts about which he might have resented any question. As a matter of fact in the present investigation those questioned manifested a very general spirit of cooperation, answering inquiries fully and willingly, even when they trenched on delicate ground.

Again, as regards the expediency of the two methods, it is to be remembered that the concededly diseased—the class with whom the inspection method must deal—comprise but a fraction of those who are really diseased, and that there is no practicable way of determining what this fraction actually is. Some of those who are really in poor health are themselves unconscious of it; while some of those allegedly diseased are not really diseased at all. Hence, it is impossible to learn the exact number of unhealthy or diseased individuals within any designated unit of place or time; or, in other words, it is impossible to determine with precision the prevalence of ill health, i. e., the number of persons diseased among each 1,000 of a specified population. On the other hand, it has been both possible and practicable to determine the precise prevalence of fatalities within New England industrial communities, and there seems no reason to doubt that the methods used in this investigation would be equally successful within all so-called "registration" cities; that is, cities in

which an official statement must be filed regarding each decedent before interment or other disposition of the body may be made.

Moreover, even if it were possible to learn by inspection the number per 1,000 of a given population who at a given time were ill, debilitated, or diseased, the knowledge would be of little value unless it were possible to repeat the inspection so often that the average or typical number could be obtained. The amount of work involved in this process would render it absolutely out of the question to obtain these results by the inspection method, whereas by the death-rate method the same results for decedents are easily obtainable. For example, in Fall River during the years 1905, 1906, and 1907, the total deaths of individuals aged 10 years or over averaged three per day. To obtain an exact correlative of this statement concerning the average daily cases of illness would have necessitated recording each day for three years absolutely all of the newly sick within the same age group—a task which obviously would have been impracticable, even could satisfactory definition and identification of the basic unit, an individual "sick," have been made.

And finally, the death-rate method excludes the possibility of bias on the part of the investigator, since he deals with all the deaths occurring within a given community during a given period. In the inspection method, on the other hand, since it is impossible to deal with the whole number of the ill, debilitated, or diseased, the investigator must necessarily select those whom he is to study, and no matter how earnestly he strives to make his selected group typical, there is always the possibility that its representative character may be compromised by some unconscious bias or some defect of judgment on his part. By the one method each and every case of death occurring within the specified place and period is included in the study; by the other method only a fraction of the cases of ill health occurring within the specified place and period can be included, and while the investigator may entertain a pious hope that this fraction is typical of the whole he can never be sure that it is really so.

To summarize, it may be said that for determining the healthfulness of a given industry the death-rate method, of which the basic unit is an individual dead, is preferable to the inspection method, of which the basic unit is an individual in ill health, on two principal grounds:

I. POTENTIAL UTILITY.

(1) In discovering the prevalence of the condition inquired into, since death is a definite and unchanging state about which there can be no question, while ill health is a vaguely defined state which may at any time merge either into death or into good health. In other words, its boundaries are at once ill defined and shifting.

(2) In determining the relative importance of antilongevity causes, because the several factors which, combined, bring about the definite condition, death, are more easily isolated and measured as to their comparative harmfulness than is the case with the factors which, combined, bring about the indefinite condition, ill health. And also because the study of a completed life is apt to reveal a greater number and variety of morbid influences and experiences than will be found in the study of a life of the same length that is as yet unfinished.

II. INHERENT EXPEDIENCY.

(1) In discovering the prevalence of the condition inquired into, because as its basic units can be absolutely identified it is possible to make a complete enumeration of them for a given community during a given period, whereas it would be practically impossible to make an equally complete enumeration of all the cases of ill health occurring in the same community during the same period.

(2) In determining antilongevity causes, because it includes the causes leading up to each and every death occurring in the given community during the given period, and is therefore at once more inclusive and fairer than the inspection method, which can only cover the causes producing ill health in a selected number of the cases existing on a given day within the given community.

And, finally, the history of a case in which the antilongevity factors have worked out their full effect—in other words, the history of an individual dead—evidently affords a more complete field for studying those factors than the history of a case in which those forces are still at work. In the latter case we know that these forces will at last cause death, but we do not know how long it will take them to do so, and consequently can not estimate what degree of harm they have already worked. In the one case we are dealing with a complete, in the other with an incomplete, history, and the advantages of the first for purposes of study are obvious.

PROBLEMS TO BE SOLVED.

It is evident that in any study of antilongevity factors there are four steps to be taken, or four problems to be solved. First, the typical character of the group selected for study must be established. Second, in the case of each unit of this group, the experiences must be selected which would naturally have had an effect in shortening life—the antilongevity factors. Third, a determination must be made of the degree of harm wrought by these combined factors. The number of years by which the given individual's life fell short of the reasonable expectation of life for a person of his age may be taken as the measure of this harm. And, finally, there is the prob-

lem of assigning their respective shares of this aggregate harm to the various factors which have brought it about.

Some outline of the logical steps by which, in practice, the attempt has been made to solve these problems by the death-rate method, as contrasted with the inspection method, may bring out more strongly their radical differences and may also bring out their relative practical value in attaining correct conclusions concerning the physical condition and the causes thereof of any specified industrial or municipal community.

LOCALITIES AND PERIOD COVERED.

First, as to the typical character of the group selected for detailed examination. In the death-rate method as used in this study it was assumed that the complete mortality data of 1905, 1906, and 1907, a period selected as covering the three years nearest the date on which this investigation was begun, constituted a fair sample of the mortality data of all recent years, and that therefore certain conclusions could be safely based upon these data. Of course, data covering eight or ten years would be far more conclusive than those for three years, but it was felt that in communities of the size of those studied conclusions could be drawn with a reasonable degree of safety from the complete statistics of the three-year period. As these data were collected for each and every case of death of persons aged 10 years and over occurring within the designated period and communities, it is evident that the basis of the study is a far more complete and typical group of cases than could possibly be secured by the inspection method.

Starting with the general assumption that the complete mortality data for 1905, 1906, and 1907 would be fairly indicative of the mortality data for any recent years, the specific induction was made that the mortality data for these three years in the cotton-manufacturing cities—Fall River, Mass., Manchester, N. H., and Pawtucket, R. I.—would be a fair sample of the mortality data of any of the communities including numerous cotton operatives within any recent one-year or three-year period. Moreover, since these three cities contain nearly one-third of the aggregate cotton operatives within the States of Massachusetts, New Hampshire, and Rhode Island, a second induction was that the mortality data of the cotton operatives of these cities for a three-year period would be a fair sample of the mortality data of the total cotton operative population in these three States for one year. This induction, it must be admitted, is somewhat less reliable than the first, but is not without justification.

Moreover, since these three cities contained about one-sixth (16.2 per cent in 1900) of the total cotton-operative force of the United

States, a third induction was that the mortality data of these three cities for three years would be no very unfair sample of the total mortality data of the country's entire cotton-manufacturing industry for a period of between five and six months.

Again, it is estimated that Fall River alone employs nearly one-tenth ^a of all the cotton workers of the country. Hence, the fourth induction tentatively drawn is that the mortality data of this single city represents by no means unfairly the mortality data of the more than a quarter million of actual cotton-mill operatives in the country.

Granted that the data in question are, as has been above assumed, fairly representative of the mortality statistics for the whole cotton industry, it is evident that the prevalence of death among cotton operatives, i. e., their death rate, can be very easily determined from it. But to gather by the inspection method a body of data from which the prevalence of ill health among the cotton operatives of the country might be deduced with an equal probability of reaching correct results would require a practically impossible amount of work. The mortality data collected covered all the deaths occurring among approximately one-sixth of the cotton operatives of the country during a period of three years, or one thousand and ninety-five days. This may be looked upon as equivalent to the deaths occurring among the total cotton operative force during a period one-sixth as long, or one hundred and eighty-two days. To secure equally conclusive evidence of the prevalence of ill health, the whole operative body would have to be examined daily for nearly six months for new cases of ill health, which is clearly impracticable, or else some fraction of them would have to be examined daily through a proportionately longer period, which is hardly more feasible.

Another very marked advantage of the death rate method as used in this study is the opportunity it offers for comparison between occupational groups, or between those in one occupation group and the general population. Thus, in the present case, concurrently with the investigation into the underlying causes of death among cotton operatives, a corresponding investigation was conducted into causes of death among the nonoperative decedents within the same age period. To show the value of such comparative statistics in investigating health and longevity problems, let it be supposed that the data so collected show two groups of married female decedents of

^a In 1908, according to the report of the mill superintendents, there were in Fall River 25,158 workers employed strictly in the manufacture of cotton. In the United States in 1905 the number of cotton-mill operatives was placed at 310,458 (Census Bulletin 74), but these figures included all who were on the cotton-mill pay rolls, such as engineers, machinists, firemen, watchmen, yardmen, truckmen, and teamsters. If due allowance is made for these classes it is judged that those really exposed to the conditions peculiar to cotton manufacture number about a quarter of a million.

essentially equal physical and mental hereditary endowments and of essentially similar life experiences, except that those of one group were engaged in cotton-mill work for the fifteen years next but two preceding death, while those of the second group were engaged in housework at home for the same period. Let it be further supposed that each of these decedents had been exposed to tuberculous infection through a consumptive member of her family, and that all died of tuberculosis, the cotton-working group at the average age of 30, the home-staying group at the average age of 40 years. These contrasting occupational groups might then be said to constitute a vital experiment—infection—performed under conditions, i. e., vital experiences, seeming to differ in but one material circumstance, the conditions of work. The difference of ten years in length of life might logically, therefore, be attributed to that one circumstance.

The surest inductions drawn from the present study are those concerning the effect in shortening life, which may legitimately be ascribed to the occupation factor, cotton-mill working, and to the infection factor, tuberculosis, within a certain specified population.

As has already been stated, the population classes which have the highest mortality from nonsenile causes offer the most promising field for study, as they furnish a larger number of decedents and therefore presumably offer a greater number and variety of anti-longevity forces than would be revealed by a similar inquiry into causes of death among classes having a lower mortality. Accordingly, in this study into the causes of death among woman and child cotton-mill operatives, attention has been especially directed to the classes showing the highest mortality from presenile causes.

REASONS FOR SELECTION OF LOCALITIES AND PERIOD COVERED.

New England was selected as the general field of the study, both because it has more accurate death records than other localities in which cotton manufacturing is carried on, and because it has long been the leading cotton manufacturing section of the country. As the limits set for the investigation did not permit covering all New England, Fall River, Mass., Manchester, N. H., and Pawtucket, R. I., were selected for study. Each of these is the largest cotton manufacturing city within its respective State, and the three are sufficiently alike in racial and industrial composition to be comparable. All three are situated within a circle with a radius of 50 miles, which included within its circumference in 1900 about one-half of the cotton manufacturing industry of the whole country, so that if that industry possesses any characteristic features they should be found fully developed in these cities. Fall River, moreover, is the country's largest cotton manufacturing city, employs approximately one-tenth of the

total number of actual cotton workers^a in the whole country, and contains racial groups nearly equal in size drawn from four different European peoples or races. For all these reasons it was felt that these cities offered an unusually good field for studying conditions characteristic of the cotton manufacturing industry.

COMPARATIVE STUDY OF SELECTED GROUPS AND CLASSES.

The age period, 15 to 44 years, was selected for special intensive study because it represents a period of full industrial activity during which the death rate would normally be low. It is customary to present vital statistics by age groups of ten years. If this period from 15 to 44 years, inclusive, be divided into these customary groups of years, the death rates are sufficiently similar to justify considering the three together as a single age group characterized throughout by a low mortality.

A second reason for choosing this age period for special study lies in the fact that more than one-half the entire population is found within its limits, so that it presents a wider field for study than a more limited age group could do. Moreover, for a study of causes of death among cotton operatives, this group presents unique advantages, since more than four-fifths (85 per cent) of the entire operative population is included within it. Also within its limits are found three-fourths (76 per cent) of the entire number of tuberculous deaths of individuals aged 10 years and over, nearly three-fourths (73 per cent) of the whole operative mortality from all causes, and fully nine-tenths (91 per cent) of the entire operative deaths from tuberculosis. For all these reasons this age period was considered to demand special, intensive study.

In regard to sex, as the investigation was primarily into causes of death among woman and child cotton-mill operatives, special attention, naturally, has been given to the study of female decedents as compared with the corresponding classes of male decedents.

At a very early stage of the investigation it became evident that the Irish in each age, sex, and occupation group almost without exception presented a higher death rate than any other race or people. This difference was so marked that the inclusion of the Irish in any tabulations of the aggregate population proved likely to cause erroneous and exceedingly misleading results. In the following tabulations, therefore, data will be given for three groups—the Irish, the non-Irish, and the total population.

^a The term "actual cotton workers" is used to distinguish those regularly exposed to conditions peculiar to the manufacture of cotton from those who, although on the pay roll of a cotton mill, met only such conditions as they would have found anywhere else. Thus, an engineer or fireman works under the same conditions in a cotton mill as elsewhere, and so do yardmen, truckmen, teamsters, and others.

Cotton-mill work was selected for special investigation because it employs a larger number of women and children than any other industry, because it exhibits a deplorably high female death rate, and because it, more frequently perhaps than any other large industry, subjects its workers to inhalation of irritant vegetable dust, which in the underfed and overworked is especially conducive to bronchitic, asthmatic, and tuberculously infectious pulmonary diseases.

And, finally, tuberculosis was selected for special intensive study because it was found to be the most prevalent ultimate or immediate cause of death within the age period 15 to 44, which comprised one-half the total population and four-fifths of the operative population of the cities selected for study.

Moreover, to bring out the facts more clearly, a method of comparison has been adopted. The present report, therefore, presents the results of a special intensive study into the basic antilongevity causes existent in the years 1905, 1906, and 1907 among (1) persons resident in Fall River, Mass., as compared with those in Fall River, Manchester, and Pawtucket combined; (2) persons aged 15 to 44 years as compared with the aggregate aged 10 years and over; (3) females as compared with males; (4) the Irish race or people as compared with the aggregate non-Irish races or peoples; (5) cotton operatives as compared with those not employed in cotton manufacturing; and (6) persons who ultimately fell victims to tuberculosis, as compared with those whose debility or casualty culminated in nontuberculous forms of death.

SUMMARY.

As a result of these comparisons the following points seem to be clearly established:

I. The effect of cotton operative work upon health, as reflected in the death rate, differs widely between the sexes. For the thirty-year age period from 15 to 44, in which the great majority of the operatives are found, the death rates of males and females in the general population are almost identical, the male rate being 6.19 and the female rate 6.18. A comparison of the death rates of male and female nonoperatives shows the rate for males to be 22 per cent in excess of that for females (male rate, 6.48; female rate, 5.31). When, however, the comparison is confined to the death rates of operatives the female rate shows an excess of 33 per cent over the male (male rate, 5.74; female rate, 7.63) despite the younger ages of the female operatives.

II. In the age groups within which operatives and nonoperatives are fairly comparable, female operatives have a decidedly higher death rate than nonoperatives. This is most marked in respect to tuberculosis, the death rate of female operatives from this cause being in general more than twice that of nonoperatives, and in some

of the race and age groups running up to many times as high. Thus, in the age groups 15 to 24 years, 25 to 34 years, and 35 to 44 years, the death rates from tuberculosis per 1,000 were, respectively, two and one-fourth times, two and one-half times, and five times those among women of the same age groups outside the cotton industry.

III. An examination of different factors which might affect the death rate, especially from tuberculosis, such as native or foreign birth, tuberculous kindred or intimates, overcrowding, sanitary condition of homes, etc., fails to show any such massing of unfortunate conditions among the female operatives as would explain their unvaryingly higher death rate.

Hence it seems impossible to escape the conclusion that operative work is prejudicial to the health of females, that the combination of operative work with matrimony is especially harmful, and that, while the general hazard of the female operative is greater than that of the nonoperative, she is in most danger from tuberculosis. Whether the harmful effects of operative work are greater than those of other industrial employments, and whether they inhere in cotton textile work as a whole or are due to certain occupations carried on within the mills, are questions for further investigations to answer. This has established the fact of the high mortality among female cotton operatives and of their special susceptibility to tuberculosis.

In considering the real significance of these conclusions, weight must be given to the character of the death records on which they are based. This study has clearly established that such records, as at present made out, can not safely be used as the basis of mortality studies without investigation of their accuracy. Two conspicuous errors or defects were discovered, the first relating to the decedents' occupation and the second to the cause of death.

1. The official records contained many and serious errors as to the occupation of the decedent. This was especially the case where females were concerned. In Fall River more than one-half of the female decedents for the period covered who were found to have been cotton-mill operatives were not so recorded. On the other hand, one-seventh of the group recorded as operatives were found on investigation not to have been cotton-mill operatives. Among the male decedents of Fall River for the three years studied 28 per cent of those who were proved to have been cotton operatives were recorded on the death certificate as having followed some other occupation, while one-third of those recorded as operatives could not properly be included among cotton workers. The effect of such inaccuracies upon any study of occupational mortality is obvious.

2. In regard to the cause of death the certificates were found to err in two ways; in some cases the cause was described by a misleading or absolutely false term, and in others one of two contribu-

tory factors was arbitrarily assigned as the cause, with no mention of the other, which might have been equally or even more important.

In the cases studied the effect of the first of these errors was to reduce materially the death rate both from tuberculosis and from parturition. In a number of cases in which the physician's certificate gave some such equivocal cause of death, as bronchitis or hemorrhage, or some terminal condition, such as bronchopneumonia or heart failure or debility, the history of the case when studied showed almost beyond question that tuberculosis had been the real cause. Occasionally physicians who had signed such certificates would admit that they were designedly misleading, but defended the practice as excusable on account of the exasperating delay or, especially if the policy had been in force only one or two years, the refusal of some insurance companies occasionally to pay the amounts for which the deceased had been insured if tuberculosis was the cause of death. More than 40 of these "variant" cases were found in Fall River alone.

The second practice, that of assigning arbitrarily one of two equally important factors and ignoring the other as a cause of death, was observed, for example, in cases of tuberculosis complicated with parturition. In one city investigation disclosed that 24 deaths of females, the cause of which had been officially given as tuberculosis, had been complicated with parturition. In such cases parturition is evidently an important contributory factor, yet the method of reporting the cause of death conceals even the fact of its existence. The relation between the two causes is hidden, and the degree to which married life increases or may increase the tuberculosis hazard of females is rendered doubtful.

In dealing with inaccurate statements of the decedent's occupation, it was deemed safe to correct the record whenever investigation established beyond question its inaccuracy. In regard to errors of the other class, it was felt that at least in this initial investigation the physician's official statement must be taken, in spite of serious grounds for doubting it. Some errors of the first kind may have escaped detection; all of the second kind have been accepted. The conclusions reached in the investigation, therefore, certainly understate the facts as to the death rates of female operatives, the mortality from tuberculosis, and the special hazard of married women.

CHAPTER I

SCOPE AND METHOD OF INVESTIGATION.

CHAPTER I.

SCOPE AND METHOD OF INVESTIGATION.

PLACES AND YEARS COVERED BY THE INVESTIGATION.

In order that the mortality figures on which the following study is based might not be affected by local peculiarities or temporary variations, six cotton cities—three in the North and three in the South—were visited and data collected covering a period of three years. The cities selected in the North were Fall River, Mass., Manchester, N. H., and Pawtucket, R. I.; in the South, Augusta, Ga., Atlanta, Ga., and Raleigh, N. C. Unfortunately, the data obtainable in the Southern cities was so incomplete that it was impossible to carry out the original design and make a comparative study of operative mortality in the two sections. The study is therefore based upon the figures from the three New England cities only. On page 50 and in table 59 are shown the data gathered in the South, and these furnish the only comparison possible between the Southern and Northern figures.

The years covered were 1905, 1906, and 1907. Data were collected for decedents within the New England cities during these years, and these data have been presented in various comparisons, the data for one year being contrasted with the data for the whole three years and the data for one city during the three-year period with the data for three cities during one year.

Throughout the study the attempt has been made to accord every influence its due weight and to present facts, not opinions.

The primary purpose of the study was to gain full information upon such points in the occupational and personal history of every decedent operative as might bear upon his length of life, the immediate cause of his death, and any contributory causes thereof. Naturally such information could be gained only from the relatives, friends, and acquaintances of the decedents, but the difficulty of discovering these acquaintances and gaining this information increases greatly as the death of a given worker grows more remote. In the Northern cities this difficulty has been much increased by the progressive infusion into the operative body of South Europeans, because relatives and acquaintances of these decedents are sometimes undiscoverable. Everywhere, without exception, mill authorities gave all the assistance possible, sometimes even detailing an employee to prosecute inquiries among the foreign workers supposed to have been acquainted

with a decedent concerning whom knowledge was sought. This disposition to cooperate was manifested among people generally, both in and out of the mills, in practically every place studied.

Naturally, therefore, as this inquiry was begun late in 1907, that current year was selected for special study everywhere except in Manchester, N. H. In that city, by mistake, the copyists transcribed the death certificates of 1905, the first year of the period, instead of the last, and the error was discovered too late, it was judged, to be corrected without occasioning unwarrantable delay. This makes the "one-year period" presented in the following tables 1905 for Manchester, while for Fall River, Mass., and Pawtucket, R. I., it is 1907.

This explanation seems necessary, because in Manchester, as was later noted, the total deaths from tuberculosis in 1905, according to the census figures, slightly exceeded those for either 1906 or 1907. The total deaths, however, of persons aged 10 years and over in Manchester in 1905 are but one more than in 1907 and number 33 less than in 1906.

In Fall River, Mass., and Pawtucket, R. I., on the other hand, the year 1907 registers the highest total number of deaths, both from tuberculosis and from all causes, of any of the three years considered, though only a little higher than would normally be expected from the natural population increase.

These variations appear to be only such as might be expected from year to year, and it is believed that the figures shown for the one-year period approximate with reasonable closeness to normal conditions for the several cities considered.

AGE PERIOD COVERED.

Ten years and over was selected as the age period to be covered. The lower limit was selected partly that every possible operative decedent might be included—for the study does not cover any locality in which children under 10 may legally begin work—and partly that the age groupings in the following tables might coincide with those of the census and mill tabulations of population.

REASONS FOR SELECTING CITIES.

In 1906, the middle year of the three-year period studied, the aggregate population of Fall River, Manchester, and Pawtucket was officially estimated at 218,914, or nearly a quarter of a million people. Of these, Fall River had practically one half and of the other half Manchester and Pawtucket had, roughly, two-thirds and one-third, respectively. In the aggregate the three cities had 38,448 cotton-mill operatives, of whom a trifle less than two-thirds (65 per cent) worked in Fall River, about two-ninths in Manchester, and one-ninth in Pawtucket. Thus the city with one-half the aggregate

population had two-thirds of the total number of cotton-mill operatives.

Each of these cities is the leading cotton-manufacturing center of its State, and together they have almost a third (30 per cent) of the whole number of cotton operatives within the three States. These States in turn include more than two-thirds (68 per cent)^a of all cotton-mill operatives in the Northern States and over two-fifths (42 per cent)^a of those for the whole United States.

SCOPE OF DATA.

The method of securing the data has already been described (p. 20). As the mortality period covered was three years and as the cities studied included practically one-third of the cotton operatives of Massachusetts, New Hampshire, and Rhode Island, it follows that the mortality statistics here given will roughly represent the deaths among all the cotton operatives of the three States for a period of one year. This fact and the additional fact that the deaths herein enumerated are complete for the cities and the periods specified entitle the conclusions of the following study to a weight which otherwise could not be accorded them in view of the comparatively small number of cases on which they are based.

SMALL UNITS NOT NECESSARILY A BAR TO CONCLUSIVENESS.

For it must be constantly borne in mind that however small the basic number in this study may be, still it is approximately representative of all the deaths occurring among two-fifths (42 per cent) of all the cotton operatives of the country for a period of one year; a closer approximation to all deaths for twelve consecutive months among cotton operatives in the States doing two-thirds of the cotton manufacturing of the North, the actual facts for cities doing about a third of the cotton manufacturing of the North derived from an investigation known to be complete for one year, and nearly so for three years; and finally the proved data for one large city employing two-thirds of the cotton operatives in the three selected cities for periods both of one year and of three years.

ITEMS TABULATED.

The facts obtained have been tabulated with varying degrees of completeness according to their importance. The following items have been tabulated for each city separately and for all three cities combined both for a period of one year and for the whole three-year period: (1) The number of deaths; (2) the causes of death as given on the official certificates; (3) the age of decedents; (4) their color;

^a Census Bulletin 74 (1905).

(5) sex; (6) race, as determined by birthplace of father; (7) occupation; (8) period out of employment before death; (9) hygienic condition of late abode; (10) conjugal condition; (11) season of the year in which death occurred.

A score of other personal data concerning the decedent which may have borne some causative relation to length of life have been tabulated under six classifications—color, sex, cause of death, industry and specific occupation, period out of employment before death, and race—for each city and for the combined three cities for the three-year period, but not for the one year.

For most of the personal statistics, however, only two comparisons are made. Either the Fall River data for one year are contrasted with the Fall River data for three years, or else the statistics of Fall River for three years are compared with those of the combined three cities for one year. Either of these comparisons in the similarity of their resulting percentages is usually sufficient to demonstrate basic conditions.

It is believed that the repeated comparisons which every statistical item thus undergoes in the numerous tabulations and classifications tends to lessen the importance of adventitious and incidental factors, and to bring inherent and basic elements into greater prominence. If a given factor makes its appearance in only one city, or in only one tabulation of the items gathered from one city, there is reason for looking upon it as the result of some local and strictly limited cause; while the more frequently it appears in the various classifications and tabulations, the greater the reason for looking upon it as of basic significance.

DEFINITION OF TERMS.

In the course of this study the writer visited personally the places of death of all tuberculous decedents, of all Southern operative decedents, and of nine-tenths of the Northern decedent operatives included in the following tables. This is important chiefly in that the point of view is practically constant wherever in these pages reference is made to operative or to tuberculous decedents.

The term "decedent" within the scope of this inquiry is limited to persons aged 10 years and over dying within the limits of the city considered. Some tentative researches undertaken in Fall River indicated that as regards tuberculosis, at least, the figures thus gathered did not tell anything like the whole story. Repeatedly the writer's attention was called to instances of tuberculous decedents—mill operatives until they were no longer able to work—who shortly before death had gone to their homes in Canada, the Azores, or southern Europe in the hope that their native climate and former manner of living might restore them to health, or failing that, that they

might at least find burial in the land of their birth. These cases, of course, were not included in the mortality statistics of the cotton mill city in which, presumably, they had contracted the tuberculous disease which proved fatal to them within a few months after their leaving it.

Except solely in the case of nontuberculous deaths that were coincident with childbirth, the term "fatal disease" wherever used in this study means the "cause of death" as stated in the official death certificate signed by the physician last attending the deceased. These certificates are filed with the State authorities in the North and with the city authorities in the South. In both sections the transcripts used were made through State and city officials, and except for occasional slight discrepancies between the total cases published and those transcribed for this investigation, the basis of this study is the officially published number of deaths.

The term "cotton operatives" is used to mean only those persons, from overseers down to scrubbers, whose work had been such as to expose them many hours daily to the processes or hygienic conditions peculiar to a mill that manufactures cotton wadding, cloth, yarn or thread. Office clerks, machinists, carpenters, engineers, firemen, watchmen, and yard men, though on a cotton mill pay roll, are not included in the operative class, and neither are the employees of bleacheries, dye works, and printeries.

The term "cotton operative" has been still further restricted by limiting it to those who were either working in a cotton mill up to the time of death, or who had left it not more than two years before death. This arbitrary limit was fixed upon after consultation with eminent medical men as being probably well within the period during which the effects of mill influences, even if latent while the decedent was in the mill, might yet be considered beyond question as having borne a causative relation to his death. In the course of this study many facts were elicited showing resemblances, sometimes almost to identity, between the class just outside the two year limit and the operative class. It was felt that this fact gave a strong indication that the two-year limit erred, if at all, on the side of conservatism, and that possibly a limit of three or even four years, or the inclusion of nearly lifelong cotton-mill workers retired through age, would have been fairer.

Three other classes were established among the decedents: "Five-year operatives," comprising former operatives who had given up cotton mill work more than two but less than six years before their death; "ex-operatives," comprising those who had not worked in a cotton mill for at least six years before death; and "never operatives," comprising both those who were not known to have worked in a cotton mill, and those of whom it was definitely known that they

had never done such work. The length of time employed in the mill, although it has been tabulated for the several classes, has not been taken into account in defining the term operative.

For the information of readers who may not be entirely satisfied with the restricted definition of the term "operative," as here used, to such decedents only as had died within two years after quitting the cotton mill, the table below is presented. It shows that among the decedents the number of those who had formerly been engaged in cotton-mill work but had left the mill more than two years before death was almost equal to the number of those classed as operatives.

NUMBER AND PER CENT OF TOTAL MILL WORKERS DYING FROM EACH SPECIFIED CAUSE WHO HAD BEEN OUT OF MILL EACH SPECIFIED PERIOD JUST PRECEDING DEATH, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1905 TO 1907.

Occupation classification and time out of mill before death.	Number of decedents from—			Per cent.		
	Tuber- culous causes.	Nontuber- culous causes.	All causes.	Tuber- culous causes.	Nontuber- culous causes.	All causes.
OPERATIVES.						
Out of mill before death:						
Less than 2 weeks.....	9	132	141	2	11	9
2 and under 8 weeks.....	8	106	114	2	9	7
2 and under 4 months.....	43	86	129	9	7	8
4 and under 7 months.....	85	59	144	18	5	9
7 and under 13 months.....	105	105	210	23	9	13
13 and including 24 months.....	69	66	135	15	6	8
Total, 2 years and under.....	319	354	873	69	47	54
5-YEAR OPERATIVES.						
Out of mill before death:						
Over 2 and under 4 years.....	20	39	59	4	3	3
4 and under 6 years.....	33	76	109	7	7	7
Total, over 2 and under 6 years ...	53	115	168	11	10	10
EXOPERATIVES.						
Out of mill before death:						
6 and under 11 years.....	47	132	179	10	11	11
11 and under 16 years.....	25	91	116	6	8	7
16 and under 26 years.....	15	140	155	3	12	10
26 years and over.....	5	133	138	1	12	8
Total, 6 years and over.....	92	496	588	20	43	36
Grand total.....	464	1,165	1,629	100	100	100

For such readers as may think that length of service in cotton-mill work should be the guiding principle in the definition of the term "operative," the next table is furnished. This shows for the decedents, classified according to time out of mill work before death, the number of years employed in cotton mills. It will be seen from this table that more than half of those excluded from the "operatives" group under the definition of "operatives" as used in this report were persons who had been in cotton-mill work for 10 years or more.

NUMBER AND PER CENT OF ALL DECEDENTS WHO HAD BEEN EMPLOYED IN COTTON MILLS EACH SPECIFIED NUMBER OF YEARS, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1905 TO 1907.

Years employed in cotton mills.	Number of decedents.				Per cent.			
	Operatives (out of mill not over 2 years).	Out of mill over 2 and un- der 6 years.	Out of mill 6 years and over.	Total.	Operatives (out of mill not over 2 years).	Out of mill over 2 and un- der 6 years.	Out of mill 6 years and over.	Total.
Under 2 years.....	97	5	17	119	12	3	3	8
2 and under 4 years.....	115	12	43	170	14	8	8	11
4 and under 6 years.....	121	17	72	210	15	11	14	14
6 and under 10 years.....	153	35	137	325	18	23	26	21
10 and under 16 years.....	104	23	64	191	12	15	12	13
16 and under 26 years.....	136	30	102	268	16	20	20	18
26 years and over.....	109	31	85	225	13	20	17	15
Total.....	835	153	520	1,508	100	100	100	100
Years employed not reported.....	38	15	68	121				
Grand total.....	873	168	588	1,629				

RELIABILITY OF INFORMATION SECURED.

Owing to the fact above mentioned, that tuberculous operatives showed a tendency to return to their early homes when they were no longer able to work, it is probable that for all the cities studied the number of operative decedents is slightly understated. It is quite certain that there is no overstatement of the number, because no decedent has been classed as an operative unless a definite statement to this effect was made by an informant whose name is on record. The statement on which the classification is based included not only the fact that the decedent had been a cotton operative, but also the name of the mill in which he had been employed, usually, also, the specific occupation at which he had worked, and always the fact that he had been employed at such mill work within a specified period, not exceeding two years, before his death.

It is obvious that evidence so specific and detailed would not probably be manufactured, especially as the informant had no inducement to misrepresent the facts in either direction. During the course of the investigation an incidental proof was obtained of the general accuracy of the information gained. The inquiry was begun in Fall River. Five months after its data had been secured a change in the scope of the investigation made it necessary to record certain additional data concerning female decedents, which could only be obtained by revisiting the earlier informants.

In this reinvestigation, several hundred persons were questioned a second time on points on which they had first given information five months earlier, yet in only two cases was their testimony found to differ from the original statement in any important particular. In one of these cases the length of time the decedent had been out of the

mill before death was given as five instead of two years, while the other case was the exact reverse, a decedent being changed from the "five-year operative" into the operative class. The two errors thus offset one another, and the totals of the two classes remained unchanged. The result of this second canvass seems rather convincing proof that the informants made their statements as accurate as their memories permitted and that there is no probability of an overstatement of the number of operative decedents.

However, in regard to the accuracy of the number of deaths recorded, and their correct apportionment among the various causes of death, it is practically certain both that the death rate from all causes is incorrectly low and that the death rate from tuberculosis is still further below the correct figures. The general death rate is affected by the fact already mentioned that persons who have contracted disease in a given place not infrequently die elsewhere, and hence do not figure in the death returns of that particular city. Of course, this fact would influence the death rate of any specified city in two ways; some who might properly be called its own people would die elsewhere, while others who really belonged elsewhere would die within its limits. In the New England cities under consideration, however, each of which contained a large foreign element, there were clear indications that the number of residents dying elsewhere far exceeded the number of nonresidents included in their death lists.

As this tendency to go back to a former home either in search of health or for the sake of dying amid familiar scenes is particularly manifest among tuberculous patients, the death rate from tuberculosis would naturally be more seriously affected than the general death rate from this cause. In addition to this there seemed reason to believe that the tuberculosis rate was further diminished by inaccurate statement of the cause of death on the official certificate. At least in a very considerable number of cases a marked variance was found between the apparently superficial cause of death certified to by the physician and the probable basic cause suggested by the history of the decedent's illness as reported by relatives.

For example, in a number of cases in which the physician's certificate gave some such equivocal cause of death as bronchitis or hemorrhage, or some terminal condition, such as chronic pneumonia or heart failure or debility, relatives of the decedent testified that for a year before death the decedent had had a bad cough, had become extremely emaciated, had suffered from night sweats, had had one or several hemorrhages of bright blood, and was the second or third in the family who had "died of consumption" within the last few years. Such testimony as to matters of simple fact seems to be entitled to credence, and should at least be recorded for future refer-

ence. In some cases the evidence as to the real nature of the disease was even stronger, as when, for instance, a mother in describing her daughter's fatal illness mentioned that the doctor in attendance had told her that the malady was "consumption" and that he could do little else than ameliorate some of the more immediately distressing symptoms. Testimony of this kind was not infrequent. In two of these "variant" cases, moreover, there were histories of bacteriological sputum examinations, returns from both of which were said to have been positive, i. e., to have shown that the sputum contained the bacilli or germs characteristic of tuberculosis.

Three out of every five of these variant cases had lost on an average more than two members of their families from tuberculosis; nearly a quarter of them had had from one to four hemorrhages; and the average duration of the cough for all the series was fifteen months. One spooler girl whose sister had died the previous year of tuberculosis, and who herself had become greatly emaciated after a year's cough, while on her way home from the cotton mill one night succumbed to a fatal attack of hemorrhage. Her death certificate reported "hemorrhage of the stomach" as the cause of death.

The question of course arises why the true cause should be so often ignored or misleadingly reported on the death certificate. Some persons are sensitive as to the existence of a case of tuberculosis in their family, and would seriously object to having such a cause entered in a certificate. The knowledge that this feeling is common may affect the physician even in cases where no such prejudice exists. But apparently by far the most effective cause is the attitude of some of the insurance companies which may delay payment of policies of decedents officially certified as having died from tuberculosis, and which furthermore also not uncommonly refuse to insure the family of such a decedent.

The effect which this attitude might have is shown by the fact that in a group of over 40 of these variant cases in a given city, three-fourths of the decedents had carried life insurance policies, ranging in amount from \$65 to \$650, and aggregating for the whole group over \$6,000. In two of these cases the insurance company refused to pay the claims, and no lawsuits to force payment were instituted.

Physicians when interrogated about these variant cases occasionally admitted that the certificates were designedly misleading, but justified them on the ground that only thus could the decedent's family secure promptly the amount they were justly entitled to from the insurance companies. It was a common practice, they said, for insurance agents to represent to a person whom they were trying to persuade to take a policy that in case of death the face of the policy would be paid promptly and in full, but in actual practice, if the decedent's cause of death were officially given as tuberculosis—a disease concededly

often of years duration—the company occasionally would hold up settlement of the claim until satisfied that no intentional concealment of disease constituting fraud had been practiced by the insured in his application for insurance—an exasperating delay coming at a time of exhaustion and bereavement, when the small amount an industrial policy usually calls for is needed at once.

Moreover, these physicians defended such “variant” certificates not only as being equitable but as keeping within the bounds of truth, because they said the irritation caused by the tubercle bacillus in the lung bronchi unquestionably was a bronchitic inflammation and hence a bronchitis, while the irritation caused by the tubercle bacillus in the lung tissue itself, in that it resulted in variously sized consolidations or pneumonic areas, could justifiably be called pneumonia.^a

Whatever may be thought of this reasoning, there is no doubt that on account of these misleading certificates the death rates for tuberculosis, as given in the following pages, are distinctly lower than the real facts would show.

In addition to these two inaccuracies in the death rates, which it was impossible to correct, it was found that a strict adherence to the decedent’s occupation as given on the death certificate would result in very serious error. Fortunately it was possible to correct this error to a considerable degree. For, while it was felt that at least in this initial study the physician’s official statement of the cause of death^b must be accepted, no matter how seriously its accuracy might be doubted, no such weight was attached to the statement of the decedent’s occupation, this being a matter on which the physician’s professional training would have no bearing and of which neither he nor the hurried and oftentimes careless undertaker probably had personal knowledge. When, therefore, an informant’s statement as to the occupation of a given decedent differed from that in the death certificate, the former was taken as authoritative.

The errors of the death certificates as to occupation were both of omission and commission; persons who were really cotton-mill operatives were not so recorded, and others were put down as operatives who had either never worked in a cotton mill or who had not done so for more than two years preceding death.^c The former error was the more common among female and the latter among male decedents.

^a A like disingenuousness was encountered in a State medical official’s certificate, in which hemorrhage was assigned as the sole cause of death of an individual whose throat upon investigation was found to have been cut from ear to ear.

^b Except as to deaths from childbirth in which only questions of fact were involved.

^c A considerable part of this error is due to the vague use of the term “operative,” which is frequently employed on death certificates with nothing to show whether the person concerned worked in cotton or woolen mills, in dye works, bleacheries or printeries, or in shoe, cigar, or hat factories.

The extent of these errors was accurately determined in Fall River for the whole three-year period, while in the other two cities it was determined for tuberculous decedents for the three-year period and for nontuberculous decedents only for the one-year period. The Fall River figures, therefore, show most conclusively the seriousness of the misapprehension which would be caused by using the official certificates without further investigation.

In Fall River, both for the one-year and for the three-year period, more than one-half (51 per cent) of the female decedents who were found to have been cotton-mill operatives were not so recorded. On the other hand, one-seventh of the group recorded as operatives in the three-year period were found on investigation not to have been cotton-mill operatives.

Among the male decedents of Fall River, for the three-year period, 28 per cent of those who were finally classed as cotton operatives were recorded on the death certificate as following some other occupation, while one-third of those recorded as operatives could not properly be included among cotton workers.

The effect of these errors differed with the sexes, the errors of commission being larger among the males, while those of omission predominated among the females. Thus the recorded number of male operative decedents in Fall River for the three-year period was 309. Of these 103 were found not to have been cotton operatives, while 81 who on their death certificates were assigned to other occupations had really been cotton operatives. The real number of male operative decedents, therefore, was $309 - 103 + 81$, or 287; in other words, the group as recorded was larger by 22 than the facts justified.

The recorded number of female operative decedents in Fall River, on the other hand, for the three-year period was 171. Of these one-seventh, or 24, were found not to have been cotton operatives, while 152 who were recorded as having other or no occupations were really cotton operatives. The corrected number of female operative decedents, therefore, was $171 - 24 + 152$, or 299—that is, the group as recorded was too small by 128.

At the present time, therefore, even in the registration States, which are reputed to gather their vital statistics most carefully, the official death records fail to indicate even approximately how many woman cotton operatives die each year, although cotton manufacturing is the foremost industry of the chief of these States and half the workers in it are women.

That knowledge of the true mortality statistics of an occupation is an absolute prerequisite to an intelligent formulation of adequate remedial measures seems perfectly obvious. Whether such measures are taken from individual initiative or from legislative compulsion in either case accurate information is indispensable, both as to the

total and the relative number of operatives who annually die in representative cotton manufacturing cities, together with the actual and the proportionate frequency with which the several causes of death occur in the same typical cotton-mill centers among operatives as contrasted with like aged noncotton workers.

Since the group of male operative decedents was too large only by 22, while the group of female operative decedents was too small by 128, it is evident that the whole number of recorded operative decedents was too small by 106, and that the use of the uncorrected records would have given an operative death rate considerably below the reality.^a

As all decedents 10 years of age or over in Fall River for the full three-year period were investigated, the occupational data have been fully corrected. In Manchester and Pawtucket all decedents 10 years of age or over for one year were investigated, and also all tuberculous decedents and all recorded as operatives for the whole three-year period. Hence all tuberculous operatives were found and, if not already recorded as operatives, were added to that group. Also all those incorrectly recorded as operatives were discovered and excluded from the operative group. But those nontuberculous decedents who were really operatives though not so recorded were not discovered, excepting, of course, those who died during the one year for which full investigation was made. Hence the number of operative decedents in Manchester and Pawtucket for the three-year period is admittedly too low, and the error affects the figures for the combined three cities for the three-year period.

To summarize: The occupational data for Fall River are correct for both periods and all classes. The occupational data for Manchester and Pawtucket are correct for all classes for the one-year period and for tuberculous decedents for the three-year period also. For nontuberculous decedents, however, the number of operatives is too small, an error which affects all combinations involving the data for three years of either one or both of these cities.

^a Of the 103 who were incorrectly recorded among the male operative decedents one-fifth belonged to the five-year operative class and one-third to the exoperative class, thus leaving almost one-half who had never worked in cotton mills. Of the 24 female decedents incorrectly recorded as operatives one-half were five-year operatives and one-fourth were exoperatives, leaving only one-fourth who had never been cotton operatives, although they might have worked in other mills.

SUMMARY FOR NEW ENGLAND CITIES.

The following table shows for the three New England cities the estimated population aged 10 years and over in 1906, and the deaths, by sex and occupation, on which this study is based:

NUMBER OF DECEDENTS, AGED 10 YEARS AND OVER, FROM TUBERCULOUS AND FROM NONTUBERCULOUS CAUSES IN FALL RIVER AND IN THREE NEW ENGLAND CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), BY SEX AND OCCUPATION.

	Males.		Females.		Both sexes.	
	Operatives.	Nonoperatives.	Operatives.	Nonoperatives.	Operatives.	Nonoperatives.
FALL RIVER.						
Population, 10 years and over, 1906.....	13,010	27,325	12,148	33,183	25,158	60,508
Deaths, 1 year:						
Tuberculous.....	40	56	47	39	87	95
Nontuberculous.....	78	346	70	409	148	755
Total.....	118	402	117	448	235	850
Deaths, 3 years:						
Tuberculous.....	94	152	112	108	206	260
Nontuberculous.....	193	945	187	1,163	380	2,108
Total.....	287	1,097	299	1,271	586	2,368
THREE NEW ENGLAND CITIES.						
Population, 10 years and over, 1906.....	18,731	62,195	19,717	72,218	38,448	134,413
Deaths, 1 year:						
Tuberculous.....	53	127	78	102	131	229
Nontuberculous.....	121	823	101	945	222	1,768
Total.....	174	950	179	1,047	353	1,997
Deaths, 3 years:						
Tuberculous.....	130	355	189	279	319	634
Nontuberculous.....	293	2,301	261	2,795	554	5,096
Total.....	423	2,656	450	3,074	873	5,730

SUMMARY FOR SOUTHERN CITIES.

In the Southern cities a complete investigation was made concerning all female decedents registered either as tuberculous or as operatives during the three years 1905, 1906, and 1907. Of the male decedents only those of the principal city registered as operatives were similarly studied.

Hence, in the Southern cities studied tuberculous female decedents are the only class for whom complete data was obtained. Among them a certain number, really cotton operatives, though not so registered, were discovered and added to the list of operatives. No search was made for similarly unregistered operatives among those who died from other causes, and hence the number of tuberculous operatives for that section, although accurate, has probably been somewhat disproportionately augmented.

The number of tuberculous operative decedents is accurate in the South for females, but for nontuberculous operative decedents the number as given in the mortality statistics of the several cities was taken without correction. Therefore, in all probability the general death rate for operatives in the South is considerably too low.

The following table gives the totals involved in the several groups of Southern decedents, classified as to sex, occupation, and disease:

NUMBER OF DECEDENTS, AGED 10 YEARS AND OVER, FROM TUBERCULOUS AND FROM NONTUBERCULOUS CAUSES IN AUGUSTA AND IN THREE SOUTHERN CITIES (AUGUSTA, ATLANTA, AND RALEIGH), BY SEX, 1905 TO 1907.

	Males.		Females.		Both sexes.	
	Opera- tives.	Nonopera- tives.	Opera- tives.	Nonopera- tives.	Opera- tives.	Nonopera- tives.
AUGUSTA, GA.						
Deaths, 3 years:						
Tuberculous.....	9	142	23	123	32	265
Nontuberculous.....	32	(a)	23	(a)	55	1,464
Total.....	41		46		87	1,729
THREE SOUTHERN CITIES.						
Deaths, 3 years:						
Tuberculous.....	16	592	28	612	44	1,204
Nontuberculous.....	41	(a)	23	(a)	64	(a)
Total.....	57		51		108	

* Not reported.

Owing to the incompleteness of the statistics obtained in the South, this study has been based upon the data for the three New England cities, and no attempt has been made to determine the relative mortality of the different occupation classes or the importance of the different causes of death in the southern cities. Attention is called, however, to the relative prevalence of tuberculosis in the two sections, as shown by the following table:

PER CENT OF DEATHS IN EACH SPECIFIED CLASS DUE TO TUBERCULOSIS, NEW ENGLAND CITIES AND SOUTHERN CITIES COMPARED, 1905 TO 1907.

Deaths of—	Per cent of deaths in each class due to tuberculosis.			
	Fall River.	Augusta, Ga.	3 New England cities.	3 southern cities.
Male operatives.....	33	22	31	28
Female operatives.....	37	50	42	55
Total operative deaths.....	35	37	37	41
Male nonoperatives.....	14	(a)	(a)	(a)
Female nonoperatives.....	9	(a)	(a)	(a)
Total nonoperative deaths.....	11	15	(a)	(a)

* Not reported.

As mentioned before, the data concerning male operative deaths in the South are too inaccurate for a valid comparison between the figures for the two regions, but those for the female operatives dying of tuberculosis may safely be used. It appears from the above table that the proportion of tuberculous deaths among female operatives is larger in the southern than in the northern cities studied, exceeding the northern proportion in one case by 35 and in the other by 31 per cent. Consequently, the conclusions reached in the following pages as to the prevalence of tuberculosis among female operatives in the New England cities studied would probably apply with even greater force to female operatives in the South, and in all probability present a situation prevailing very generally among women in the cotton industry throughout the country. The comparison between the figures for the Northern and Southern cities seems to indicate that if, as applied to female operatives in general, the conclusions reached in this study are inaccurate, their error lies in the direction of under rather than of over statement.

CHAPTER II.

MORTALITY IN THE AGE GROUP 15 TO 44.

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MORTALITY IN THE AGE GROUP 15 TO 44.

REASONS FOR SELECTION OF GROUP.

While this study as a whole deals with causes of death affecting the total population 10 years of age and over, the age group 15 to 44 has been singled out for special consideration. Since it is customary to compare death rates only within periods not exceeding a decade, the selection of so long a period first demands explanation. This is found in the fact that the death rates of the different classes to be considered show in general the same relation for any five or ten year period within the thirty years that they show for the period as a whole. This is true whether the comparison is between the rates for operatives and non-operatives of the same sex or between the rates for males and females within the same occupation group. This point will be discussed more fully hereafter. It is mentioned here only to prevent possible misunderstanding.

Three principal reasons led to the selection of this group for special study: First, the massing of cotton operatives within its limits renders its selection desirable in order that the comparisons between operatives and nonoperatives may be valid; second, this is the period in which tuberculosis is most fatally active, and since tuberculosis is the most important cause of death among female operatives, it is evident that this age group is especially suitable for detailed study in an investigation into the causes of death among female operatives; and third, the freedom of the group from the complications of either infancy or age renders it possible to trace the effect of a specified cause upon death rates far more easily than can be done in the higher age groups, in which the influence of advancing years seriously affects the mortality. Each of these reasons deserves some consideration.

First, as to the massing of the cotton operatives within this age group, the following table shows how largely they are included within its limits:

PERCENTAGE DISTRIBUTION, BY AGE PERIODS, OF OPERATIVE AND NONOPERATIVE POPULATION OF EACH SEX 10 YEARS OF AGE AND OVER, 1906.

Age group.	Males.		Females.	
	Opera- tive.	Nonop- erative.	Opera- tive.	Nonop- erative.
Fall River:				
10 to 14 years.....	2.2	18.2	1.9	15.6
15 to 44 years.....	79.9	53.0	91.0	56.1
45 years and over.....	17.9	23.8	7.1	28.3
Total.....	100.0	100.0	100.0	100.0
3 cities:				
10 to 14 years.....	1.8	15.8	1.5	13.7
15 to 44 years.....	79.7	60.3	90.1	58.9
45 years and over.....	18.5	23.9	8.4	27.4
Total.....	100.0	100.0	100.0	100.0

Evidently the age distribution of the operatives differs so widely from that of the nonoperatives that no valid comparison can be drawn between their death rates unless allowance is made for this divergence. Take, for instance, the female population of Fall River. Only 7.1 per cent of the operatives are over 44, while 28.3 per cent of the nonoperatives are above this age. But above 44 the death rates increase rapidly owing to the effect of advancing years. If, therefore, the death rate of female operatives be compared with the death rate of female nonoperatives, the real relation will be obscured by the higher death hazard among the older groups of nonoperatives, whose influence is not offset by similar older groups of operatives. The same situation prevails among the male operatives.

Within the age group 15 to 44, on the other hand, comparisons between the two classes may be made with safety, since the group includes a sufficient proportion of both the operatives and the nonoperatives to be representative of the two classes, and neither is affected by the high mortality of the upper age groups.

The second reason for the selection of this group, i. e., the special activity of tuberculosis within its limits, needs little discussion. Of the whole number of deaths from tuberculosis among the total population aged 10 years and over, the following percentages occurred within the age group 15 to 44:

PER CENT OF DEATHS FROM TUBERCULOSIS IN AGE PERIOD 15 TO 44 YEARS OF TOTAL DEATHS FROM TUBERCULOSIS IN TOTAL POPULATION 10 YEARS OF AGE AND OVER.

	Males.	Females.	Both sexes.
Fall River, 3 years.....	73	79	76
3 cities, 1 year.....	74	83	78

Among the cotton operatives the proportionate prevalence of tuberculosis is even more marked. Of the total tuberculous deaths among cotton operatives aged 10 years and over, the following percentages occurred within the age group 15 to 44:

PER CENT OF DEATHS FROM TUBERCULOSIS AMONG COTTON OPERATIVES IN AGE GROUP 15 TO 44 YEARS OF TOTAL DEATHS FROM TUBERCULOSIS AMONG COTTON OPERATIVES 10 YEARS OF AGE AND OVER.

	Males.	Females.	Both sexes.
Fall River, 3 years.....	88	94	91
3 cities, 1 year.....	84	94	90

It is evident that a study of tuberculosis, especially among females and operatives, may properly be based, in the main, on the data for this age group.

The third reason for selecting this group is its freedom from the disturbing influences of infancy and age, as a consequence of which the death rates reflect the effect of a given cause, such as occupation, more clearly than when they are complicated by the factor of advancing years.^a

^a The five years from 10 to 14, which are equally free from this complication, were not included because in the cities studied the number of operatives under 14 was practically negligible.

The comparative freedom of this group from the mortality due to age is clearly shown in the following table:

DEATH RATES AND PER CENT OF TOTAL POPULATION AND OF TOTAL DEATHS IN EACH 10-YEAR AGE GROUP, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).

Age group and locality.	Deaths per 1,000 of 1906 population.	Per cent of—	
		Population (1906).	Total deaths.
Under 10:			
Fall River.....	43.22	22	53
3 cities.....	46.25	21	47
10 to 14:			
Fall River.....	2.12	10	1
3 cities.....	2.70	9	1
15 to 24:			
Fall River.....	4.08	20	4
3 cities.....	5.05	20	5
25 to 34:			
Fall River.....	6.79	17	6
3 cities.....	8.02	17	7
35 to 44:			
Fall River.....	8.61	14	6
3 cities.....	9.35	14	7
45 to 54:			
Fall River.....	14.80	9	7
3 cities.....	15.88	9	7
55 to 64:			
Fall River.....	35.19	5	10
3 cities.....	36.68	6	10
65 and over:			
Fall River.....	74.25	3	13
3 cities.....	91.28	4	16
Total, all ages:			
Fall River.....	19.95	100	100
3 cities.....	20.65	100	100
Total 10 years and over:			
Fall River.....	11.49	78	47
3 cities.....	13.59	79	53
Total 15 to 44:			
Fall River.....	6.18	51	16
3 cities.....	7.21	51	19

It may assist in impressing upon the mind these age-group differences in the death hazard to notice that up to middle life—44—the death rate, beginning in the youngest industrial age group, 10 to 14, at approximately 2 per 1,000, increases in each 10-year age group approximately by 2; and that thereafter, from 45 years onward, each 10-year group has roughly double the death rate of the preceding one. That is, the sudden rise in the death rate presumably attributable to advancing years does not affect this period, and the highest rate for any one of these three decades is low as compared with the rate for any succeeding decade. Also, the variations between the rates for any two decades within this period are relatively small as compared with the difference between the rates for any decade within the period and any decade without it, so that for the period as a whole the death rate may be regarded as both relatively low and relatively uniform.

Some additional reasons were of weight in the selection of this particular group. One of the factors which must be considered in order to account adequately for the mortality within an industry is the nationality or race of its workers. At present, however, there are no data available showing the age distribution of the population by race, but only figures showing how the entire population of all ages is divided racially. Therefore, in computing the death rates of the several races or peoples by age groups, it has been tentatively assumed that the proportional race distribution of the total male and the total female population within any specified age group is identical with that which the census shows exists in the race distribution of the aggregate male and the aggregate female population of all ages. In other words, it has been assumed, for instance, that the English, aged 10 to 14, form the same proportion of the whole 10 to 14 age group that the English of all ages form of the population of all ages.

This assumption undoubtedly involves some error. Among the long-established immigrant races, such as the English and Irish, the error is probably slight. They have been here long enough to have both children and old people in fair proportion among their numbers. But for the French, Portuguese, and newer immigrants generally a different condition prevails. The old and the young alike are apt to stay at home, and the immigrants are largely young adults, i. e., somewhere within the age group 15 to 44. For the newer immigrants, therefore, the racial death rates can probably be more accurately computed, by age, within this group which contains neither the very young nor the old, than they could be if this assumption were applied throughout the whole population of all ages. For the longer established races, on the other hand, it is evident that the nearer a specified age group approaches in size the total population, the smaller will be the degree of error from this assumption. Therefore, the selection of the group 15 to 44, which includes over half of the total population, will probably give the minimum of error in race death rates.

Again, this particular group not only furnishes the great majority of deaths from tuberculosis, but a majority of all deaths among cotton operatives occur within its limits. Of deaths from all causes among operatives aged 10 years and over, the following proportions occurred within the age group 15 to 44 years:

PER CENT OF DEATHS FROM ALL CAUSES AMONG COTTON OPERATIVES, IN AGE GROUP 15 TO 44 YEARS, OF TOTAL FROM ALL CAUSES AMONG COTTON OPERATIVES 10 YEARS OF AGE AND OVER.

	Males.	Females.	Both sexes.
Fall River, 3 years.....	62	84	73
Three cities, 1 year.....	60	80	71

Although these percentages are not so large as those for tuberculous deaths they are quite sufficient to establish the fact that this age period is fairly representative of the aggregate operative deaths.

And, finally, the size of the numbers necessarily involved in the vital statistics of an age group covering 30 years adds conclusiveness to the results obtained. When the mortality data of one city and of three cities for one year and for three years all present certain features, this quadruple accord furnishes a strong presumption that these are really basic facts, even though the groups from which in each case the data have been drawn might be small. But when the same accord appears in data based upon groups including over half the population, the inference as to the basic character of the facts thus disclosed becomes irresistibly strong.

The characteristics of the age group 15 to 44, which determined its selection for detailed description, may be thus summarized:

1. It includes more than four-fifths of the operative population and can, therefore, be more fairly used than any other age group for comparisons between operative and nonoperative mortality.

2. Nearly three-fourths of the entire operative deaths, more than three-fourths of the entire fatal tuberculosis among persons aged 10 years and over, and fully nine-tenths of the whole number of operative deaths from tuberculosis occur within its limits. Therefore, it is especially suitable for intensive study in an investigation of causes of death among cotton operatives.

3. It is a composite of smaller groups so resembling each other in hazard to life that it may legitimately be looked upon as a single age group with a comparatively low death rate throughout. Hence, comparisons may fairly be made within its limits which would not be possible within a group including such diversities in death rates as appear, for instance, between those for persons aged 25 to 34 and those for persons aged 55 to 64.

4. It is probable that the application to this age group of the census percentages of the race distribution of the entire population gives a smaller error in the estimated racial death rates than would be the case with any other age group.

5. Finally, in the number of individuals involved, this group, including more than half of the total population, possesses decided advantages over other age groups for statistical analysis.

MORTALITY WITHIN THE COMPONENT FIVE-YEAR AGE GROUPS OF AGE PERIOD 15 TO 44.^a

As has already been said, the variations in the death rates for the five-year age groups within this thirty-year period are relatively small as compared with the differences between death rates for any

^a See Tables 9 to 33.

five or ten year age group within the period, or for the period itself as a whole, and for any of the higher age groups including an equal number of years. Nevertheless, if the comparison be confined to the death rates of these component five-year age groups, without reference to rates prevailing outside of the period, considerable differences appear. Moreover, the massing by sex and occupation differs from group to group, the relative importance of tuberculous and nontuberculous causes of death varies, and in the subdivisions by sex and occupation the death rates, especially from tuberculosis, instead of increasing steadily from beginning to end of the period, show a tendency to fluctuate. In discussing the mortality of the group as a whole, it is necessary to bear in mind these variations, and consequently it seems advisable to preface the consideration of conditions in the age group 15 to 44 by a brief statement of conditions in each of its component five-year age groups.

It may be well to premise that the conditions prevailing in these separate groups rarely differ from those in the whole thirty-year period in such a way as to affect seriously the relative death rates of the several classes. Any exception to this general statement will be noted.

MORTALITY IN AGE GROUP 15 TO 19.

The per cent of the total population and of total deaths in the age group 15 to 19 which are in each sex and occupation class, and the death rates per 1,000 population in each sex and occupation class, are shown in the following table. The deaths and the death rates are given separately for tuberculous and nontuberculous decedents.

PERCENTAGE DISTRIBUTION OF POPULATION AND OF DEATHS AND DEATH RATES PER 1,000 POPULATION FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, BY SEX AND OCCUPATION GROUPS, AGE GROUP 15 TO 19, FALL RIVER, 1905 TO 1907.

[For importance of this age group compared with total males and females, see p. 69.]

Cause of death.	Percentage distribution of population and of deaths.						Number of population and of deaths.
	Males.			Females.			
	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	
Population.....	20	28	48	26	26	52	11,552
Deaths:							
Tuberculous.....	22	13	40	40	20	60	50
Nontuberculous.....	27	20	47	32	21	53	76
Total.....	25	19	44	35	21	56	126
	Death rate per 1,000 population.						
Tuberculous.....	1.60	0.93	1.21	2.23	1.10	1.66	.....
Nontuberculous.....	3.04	1.55	2.17	2.68	1.75	2.21	.....
All causes.....	4.64	2.48	3.38	4.91	2.85	3.87	.....

MORTALITY BY SEX.—Females outnumber the males slightly, forming 52 per cent of the total group. They furnish a larger proportion of the total deaths than their numerical excess warrants, 56 per cent of the deaths within the group having occurred among the females. An examination of the table shows that the female death rate in each occupation group and from each group of causes was higher than that of the males in the corresponding group, with the single exception of the rate from nontuberculous causes among operatives, in which the males lead. In this case the hazard of the males exceeded that of the females by 13 per cent. In the other groups the excess of female hazard varies from 6 per cent to 39 per cent.^a

MORTALITY BY OCCUPATION.—Although the cotton operatives form but 46 per cent of this age group, they furnish 60 per cent of the total deaths. This greater hazard of the operatives appears in varying degrees among males and females from both tuberculous and nontuberculous causes of death. This is the only age group in which the death hazard of males from nontuberculous causes is greater among operatives than among nonoperatives.

MORTALITY BY CAUSE OF DEATH.—Tuberculosis was responsible for two-fifths of the deaths in this age group (50 out of 126). About one-third of the entire mortality of males, operatives and nonoperatives alike, is chargeable to tuberculosis, while of the whole death hazard of the females this disease is responsible for a trifle over two-fifths—43 per cent.

MORTALITY IN AGE GROUP 20 TO 24.

The per cent of the total population and of total deaths in the age group 20 to 24 which are in each sex and occupation class, and the death rates per 1,000 population in each sex and occupation class are shown in the following table. The deaths and the death rate are given separately for tuberculous and nontuberculous decedents.

^a For details see Tables 9 to 16.

PERCENTAGE DISTRIBUTION OF POPULATION AND OF DEATHS AND DEATH RATES PER 1,000 POPULATION FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, BY SEX AND OCCUPATION GROUPS, AGE GROUP 20 TO 24, FALL RIVER, 1905 TO 1907.

[For importance of this age group compared with total males and females, see p. 69.]

Cause of death.	Percentage distribution of population and of deaths.						Number of population and of deaths.
	Males.			Females.			
	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	
Population.....	19	25	44	28	28	56	10,778
Deaths:							
Tuberculous.....	27	19	46	39	15	54	59
Nontuberculous.....	18	27	45	33	22	55	88
Total.....	22	24	46	35	19	54	147
	Death rate per 1,000 population.						
Tuberculous.....	2.61	1.39	1.92	2.51	0.99	1.75	.....
Nontuberculous.....	2.61	3.02	2.84	3.17	2.08	2.63	.....
All causes.....	5.22	4.41	4.76	5.68	3.07	4.38	.....

MORTALITY BY SEX.—The above table shows that while females constitute an even larger proportion—56 per cent—of this group than of the preceding, they do not furnish quite their proportionate number of deaths, only 54 per cent of the total deaths coming from their number. In other words, in this group as a whole the death hazard for females is slightly less than that for males, and this holds true also for each of the subgroups, except in the case of nontuberculous deaths among operatives. Here the females show an excess of 21 per cent, an excess sufficient to bring the death rate for the whole group of female operatives slightly above that for male operatives.

MORTALITY BY OCCUPATION.—In general, operatives have a distinctly higher death rate than nonoperatives of the same sex. The only exception to this general relation is found among the males dying of nontuberculous causes, where the nonoperative exceeds the operative hazard by 16 per cent.

MORTALITY BY CAUSE OF DEATH.—As in the preceding group, a trifle over two-fifths of the total mortality was due to tuberculosis. Thirty-nine out of 84 operative, and 20 out of 63 nonoperative deaths were officially assigned to this cause.

MORTALITY IN AGE GROUP 25 TO 29.

The per cent of the total population and of total deaths in the age group 25 to 29 which are in each sex and occupation class, and the death rates per 1,000 population in each sex and occupation class are shown in the following table. The deaths and the death rates are given separately for tuberculous and nontuberculous decedents.

PERCENTAGE DISTRIBUTION OF POPULATION AND OF DEATHS AND DEATH RATES PER 1,000 POPULATION FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, BY SEX AND OCCUPATION GROUPS, AGE GROUP 25 TO 29, FALL RIVER, 1905 TO 1907.

[For importance of this age group compared with total males and females, see p. 69.]

Cause of death.	Percentage distribution of population and of deaths.						Number of population and of deaths.
	Males.			Females.			
	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	
Population.....	17	29	46	19	35	54	10,108
Deaths:							
Tuberculous.....	12	20	32	40	28	68	65
Nontuberculous.....	13	28	41	19	40	59	97
Total.....	13	25	38	27	35	62	162
	Death rate per 1,000 population.						
Tuberculous.....	1.57	1.45	1.50	4.53	1.71	2.70	.....
Nontuberculous.....	2.56	3.02	2.85	3.13	3.69	3.50	.....
All causes.....	4.13	4.47	4.35	7.66	5.40	6.20	.....

MORTALITY BY SEX.—In this group females still form more than half of the population—54 per cent—but reversing the relation prevailing in the last group they show a considerably higher death rate than is found among the males. This excess appears among operative and nonoperative, tuberculous and nontuberculous decedents alike. This is the only one of the five-year age groups in which female nonoperatives reach the number of deaths corresponding to their population quota, and it is also the only group in which, as respects deaths even from nontuberculous causes, female operatives fail to exceed their population quota. (There is not even one exception to the general statement that they furnish a disproportionate number of the tuberculous deaths.) On the other hand, the males as a whole and in each subgroup furnish a smaller proportion of the total deaths than of the total population.

MORTALITY BY OCCUPATION.—Operatives show a greater liability to death from tuberculous causes than do nonoperatives. This extra hazard is especially marked among female operatives whose death rate from tuberculous causes exceeds that of the nonoperatives by 164 per cent. This excess is so large that it entirely outweighs the nonoperative excess in the death rate from nontuberculous causes, leaving the operative death rate from all causes among females 42 per cent higher than the nonoperative. Among males the operatives as a whole have a slightly lower death rate than nonoperatives, although the operatives show a slight excess (8 per cent) in the death rate from tuberculous causes.

MORTALITY BY CAUSE OF DEATH.—This is the only age group in which more than one-half (52 per cent) of all operative deaths were officially attributed to tuberculosis. Among the female operatives practically three-fifths (59 per cent) of the total deaths were from this cause, a larger proportion than is found in any other of the five-year age groups under consideration. Among males without regard to occupation approximately one death in every three, and among females approximately two deaths in five were due to tuberculous causes.

MORTALITY IN AGE GROUP 30 TO 34.

The per cent of the total population and of total deaths in the age group 30 to 34, which are in each sex and occupation class, and the death rates per 1,000 population in each sex and occupation class are shown in the following table. The deaths and the death rates are given separately for tuberculous and nontuberculous decedents.

PERCENTAGE DISTRIBUTION OF POPULATION AND OF DEATHS AND DEATH RATES PER 1,000 POPULATION FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES. BY SEX AND OCCUPATION GROUPS, AGE GROUP 30 TO 34, FALL RIVER, 1905 TO 1907.

[For importance of this age group compared with total males and females, see p. 69.]

Cause of death.	Percentage distribution of population and of deaths.						Number of population and of deaths.
	Males.			Females.			
	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	
Population.....	18	30	48	15	37	52	8,802
Deaths:							
Tuberculous.....	24	30	54	22	24	46	89
Nontuberculous.....	15	31	46	19	35	54	134
Total.....	18	31	49	21	30	51	223
	Death rate per 1,000 population.						
Tuberculous.....	4.46	3.36	3.77	4.91	2.19	3.00	.....
Nontuberculous.....	4.24	5.10	4.78	6.39	4.90	5.35	.....
All causes.....	8.70	8.46	8.55	11.30	7.09	8.35	.....

MORTALITY BY SEX.—Although in the general population females still outnumber males, in this group for the first time they form less than half of the operative population. Both sexes furnish nearly the same proportion of the total deaths as of the total population, but the male death rate is slightly higher than the female. This male excess occurs wholly among the nonoperatives, as among operatives the female death rate is the higher.

MORTALITY BY OCCUPATION.—The operatives of each sex had a higher death rate than the nonoperatives, the only subdivision in

which this general relation was reversed being that of the males dying from nontuberculous causes. The excess of operative hazard is particularly marked among females, where the operative death rate is from tuberculous causes 124 per cent and from nontuberculous causes 30 per cent greater than the nonoperative rate.

MORTALITY BY CAUSE OF DEATH.—For both males and females the death rate from tuberculosis is higher in this group than in any other within the thirty-year period under consideration. Among the operatives as a whole, only the immediately preceding group shows a larger proportion of the total deaths due to tuberculosis, while no other group shows as high a tuberculous death rate among female non-operatives.

In fact, at no other age were persons, except male nonoperatives, in Fall River in 1905, 1906, and 1907 so liable to die from tuberculosis as in this age group. For males the next most (and for nonoperative males the most) hazardous period as regards tuberculosis is the succeeding age group 35 to 39, whereas for females it is the preceding age group, 25 to 29.

MORTALITY IN AGE GROUP 35 TO 39.

The per cent of the total population and of total deaths in the age group 35 to 39 which are in each sex and occupation class and the death rates per 1,000 population in each sex and occupation class are shown in the following table. The deaths and the death rates are given separately for tuberculous and nontuberculous decedents.

PERCENTAGE DISTRIBUTION OF POPULATION AND OF DEATHS AND DEATH RATES PER 1,000 POPULATION FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, BY SEX AND OCCUPATION GROUPS, AGE GROUP 35 TO 39, FALL RIVER, 1905 TO 1907.

[For importance of this age group compared with total males and females, see p. 69.]

Cause of death.	Percentage distribution of population and of deaths.						Number of population and of deaths.
	Males.			Females.			
	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	
Population.....	20	29	49	13	38	51	7,898
Deaths:							
Tuberculous.....	22	45	67	19	14	33	63
Nontuberculous.....	9	40	49	18	33	51	134
Total.....	13	42	55	18	27	45	197
	Death rate per 1,000 population.						
Tuberculous.....	3.05	3.99	3.62	3.86	1.00	1.74	.....
Nontuberculous.....	2.62	7.70	5.69	7.71	4.90	5.62	.....
All causes.....	5.67	11.69	9.31	11.57	5.90	7.36	.....

MORTALITY BY SEX.—In this group the females furnish a decidedly smaller proportion of the deaths (45 per cent) than of the population (51 per cent). This is due entirely to the group of nonoperative females whose death rate and proportionate number of deaths from tuberculous causes are both strikingly small. Males show a much higher death rate from tuberculosis than females, and exceed the latter very slightly in death rate from nontuberculous causes. The male death rate from all causes combined reaches its maximum in this group, while the female rate shows a falling off from the figures reached in the five years preceding.

MORTALITY BY OCCUPATION.—This is the only group in which operatives furnish a smaller proportion (31 per cent) of the total deaths than of the total population, their representation in the latter being 33 per cent. The deficiency is found only in the group of male operatives dying of nontuberculous causes. Here the deaths are relatively so few while the deaths from the same causes among male nonoperatives are relatively so numerous as to make it seem not improbable that in spite of the investigator's efforts several nontuberculous decedents who were really operatives escaped identification as such, and are here set down as nonoperatives. Among females, however, the operative death rates show as usual an excess over those of nonoperatives.

MORTALITY BY CAUSE OF DEATH.—The number of deaths from tuberculosis is less than in either of the two groups immediately preceding, but is still larger than in the earlier groups. Deaths from other causes, however, are becoming so much more numerous than at the earlier ages that the proportion of deaths from tuberculosis (46 per cent) is smaller than in any preceding group. Here for the first and only time the male death rate from tuberculosis is larger among nonoperatives than among operatives. Excepting only the group of male operatives, nontuberculous causes show the higher death rate in all the subdivisions of this age period.

MORTALITY IN AGE GROUP 40 TO 44.

The per cent of the total population and of total deaths in the age group 40 to 44 which are in each sex and occupation class and the death rates per 1,000 population in each sex and occupation class are shown in the following table. The deaths and the death rates are given separately for tuberculous and nontuberculous decedents.

PERCENTAGE DISTRIBUTION OF POPULATION AND OF DEATHS AND DEATH RATES PER 1,000 POPULATION FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, BY SEX AND OCCUPATION GROUPS, AGE GROUP 40 TO 44, FALL RIVER, 1905 TO 1907.

[For importance of this age group compared with total males and females, see p. 69.]

Cause of death.	Percentage distribution of population and of deaths.						Number of population and of deaths.
	Males.			Females.			
	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	
Population.....	19	29	48	10	42	52	6,773
Deaths:							
Tuberculous.....	43	32	75	18	7	25	28
Nontuberculous.....	10	32	42	17	41	58	154
Total.....	15	32	47	17	36	53	182
	Death rate per 1,000 population.						
Tuberculous.....	3.20	1.52	2.18	2.35	0.23	0.66	.....
Nontuberculous.....	4.00	8.47	6.73	12.22	7.38	8.34	.....
All causes.....	7.20	9.99	8.91	14.57	7.61	9.00	.....

MORTALITY BY SEX.—In this group females furnish a slightly larger proportion of the deaths than of the population, the undue proportion of deaths being found only among the operatives. The female death rate is higher here than in any preceding group, a fact which is due to the diminished female population at this age, since the number of female deaths—96—is exceeded both in the age group 25 to 29 and 30 to 34.

MORTALITY BY OCCUPATION.—The operatives who in this age group form only 29 per cent of the population furnish 32 per cent of the deaths. This excess occurs mainly among the tuberculous deaths, both male and female operatives having from this cause an enormously greater hazard than nonoperatives. Female operatives have higher death rates than nonoperatives from each group of causes, while male operatives fall below nonoperatives in hazard from nontuberculous causes.

MORTALITY BY CAUSE OF DEATH.—In this group there were but 28 deaths from tuberculosis, or less than one-sixth of the total number; that is, both absolutely and relatively, tuberculosis is a less important cause of death in this group than in any preceding five-year period. It is most prevalent among the male operatives, who furnish three-fourths of the total deaths from tuberculosis and whose death rate from this cause exceeds that of female operatives by 36 per cent. Among the female nonoperatives the hazard from tuberculosis becomes almost negligible, the death rate sinking to a lower figure—0.23—than is found in any other subgroup within the 30 years studied. The increase in the deaths from nontuberculous

causes, however, brings up the death rate for females from all causes combined to 9, a higher figure than is shown in any preceding five-year period. Among males, however, the hazard from all causes is slightly less than in the age group 35 to 39.

SUMMARY.

In order to present a comprehensive view of the variations within the 30-year period which have just been discussed, and in order also to show the relation between those in this group and in the whole population aged 10 years and over, several tables have been prepared giving the leading facts in condensed form.^a The first shows the general distribution of the population and of the deaths, together with a comparison of the death rates for operatives and nonoperatives in each five-year age group.

NUMBER AND PER CENT OF OPERATIVES AND OF NONOPERATIVES, AND PER CENT OF TOTAL DEATHS OF MALES AND OF FEMALES IN EACH 5-YEAR GROUP, AND DEATH RATES PER 1,000 OF OPERATIVES AND NONOPERATIVES, FALL RIVER, 1905 TO 1907.

Age group.	Population.				Per cent of total deaths.		Death rates per 1,000.		
	Number.		Per cent of total.		Operatives.	Non-operatives.	Operatives.	Non-operatives.	Per cent of excess of operatives over non-operatives.
	Operatives.	Non-operatives.	Operatives.	Non-operatives.					
MALES.									
10 to 14 years	291	4,985	2.2	18.2	1.0	3.0	3.44	2.21	56
15 to 19 years	2,300	3,227	17.7	11.8	11.1	2.2	4.64	2.48	87
20 to 24 years	2,042	2,647	15.7	9.7	11.1	3.2	5.22	4.41	13
25 to 29 years	1,696	2,980	13.0	10.9	7.4	3.6	4.13	4.47	- 8
30 to 34 years	1,571	2,679	12.1	9.8	14.3	6.2	8.70	8.46	3
35 to 39 years	1,529	2,339	11.7	8.6	9.1	7.5	5.67	11.69	-52
40 to 44 years	1,250	1,968	9.6	7.2	9.4	5.4	7.20	9.99	-23
Total, 15 to 44 years ..	10,388	15,840	79.9	58.0	62.4	28.1	5.74	6.48	-11
45 to 54 years	1,619	2,940	12.4	10.7	15.0	15.5	8.85	19.27	-54
55 to 64 years	574	2,092	4.4	7.7	14.6	21.8	24.39	38.08	-36
65 years and over	138	1,468	1.1	5.4	7.0	31.6	48.31	78.79	-39
Total, 10 years and over	13,010	27,325	100.0	100.0	100.0	100.0	7.35	13.38	-45
FEMALES.									
10 to 14 years	232	5,161	1.9	15.6	.3	2.4	1.44	2.00	-28
15 to 19 years	2,987	3,038	24.6	9.1	14.7	2.0	4.91	2.85	72
20 to 24 years	3,052	3,037	25.1	9.1	17.4	2.2	5.68	3.07	85
25 to 29 years	1,914	3,518	15.8	10.6	14.7	4.5	7.66	5.40	42
30 to 34 years	1,357	3,195	11.2	9.7	15.4	5.4	11.30	7.09	59
35 to 39 years	1,037	2,993	8.5	9.0	12.0	4.2	11.57	5.90	96
40 to 44 years	709	2,846	5.8	8.6	10.4	5.1	14.57	7.61	92
Total, 15 to 44 years ..	11,056	18,627	91.0	56.1	84.6	23.4	7.63	5.31	44
45 to 54 years	682	4,464	5.6	13.5	10.0	14.8	14.66	14.04	4
55 to 64 years	161	2,904	1.3	8.7	4.4	24.5	26.92	35.70	-25
65 years and over	17	2,027	.2	6.1	.7	34.9	39.22	73.01	-46
Total, 10 years and over	12,148	33,183	100.0	100.0	100.0	100.0	8.20	12.77	-36

^a See also Tables 36-40.

This table brings out very clearly the massing of the female operatives in the earlier age groups, where the death rates are normally low. Practically 50 per cent of the female operatives are found in the two groups aged 15 to 19 and 20 to 24 years, while only 18.2 per cent of the female nonoperatives are found in these age groups. This relative youthfulness of the operatives greatly increases the impressiveness of their high death rate. Of the female operative deaths 32.1 per cent occur between 15 and 25, during which period only 4.2 per cent of the female nonoperative deaths occur.

Comparing the death rates per 1,000 of operatives and nonoperatives, it will be seen that the greatest excess among the males, 37.1 per cent, is in the 15 to 19 year group. The importance of this group is indicated by the fact that it contains over one-sixth of all the male operatives. In the almost equally important group, 20 to 24 years, the excess is only 18.4 per cent, while in the other groups—except 10 to 14 years, which is not important for operatives—the excess in death rate is either on the side of the nonoperatives or is not important.

Comparing the death rates per 1,000 of female operatives and nonoperatives, the greatest excess, 96.1 per cent, appears in the 35 to 39 year group, which contains approximately one-twelfth of all the female operatives. In the age group 40 to 44 the excess in the operative rate is 91.5 per cent, but the group is numerically less important, constituting only 5.8 per cent of all female operatives. In the most important age group, 20 to 24, which contains 25.1 per cent of all female operatives, the excess in the operative death rate is 85 per cent, and in the next most important group, 15 to 19 years, containing 24.6 per cent of the female operatives, the excess is 72.3 per cent.

The exceedingly large excess in the death rates of operatives over nonoperatives among the young workers (15 to 19 years) must be considered especially significant, for these groups contain large numbers, and represent a comparison of boys and girls who have been employed an average of two or three years with boys and girls of equal age, probably the greater part of whom had not been employed as wage earners.

Among male operatives the massing in the lower age groups is by no means so pronounced as among female operatives. One-third of the male operatives, however, as against about one-fifth of the nonoperatives, are found between 15 and 25, and 22.2 per cent of the operative deaths, as compared with 5.4 per cent of the nonoperative, occur between these ages.

RELATIVE MORTALITY OF OPERATIVES AND NONOPERATIVES FROM TUBERCULOSIS.

The varying importance of tuberculosis as a cause of death among males and females, operatives and nonoperatives, and in the various

age groups is readily seen when a comparison is made of the per cent of total deaths due to that cause. Such a comparison is made in the following table, the five-year age groups being used as in the table which has preceded.

TOTAL DEATHS FROM ALL CAUSES, AND NUMBER AND PER CENT OF DEATHS DUE TO TUBERCULOSIS FOR OPERATIVES AND NONOPERATIVES, BY SEX AND AGE GROUPS, FALL RIVER, 1905 TO 1907.

Age group.	Operatives.			Nonoperatives.		
	Total deaths, all causes.	Deaths from tuberculosis.		Total deaths, all causes.	Deaths from tuberculosis.	
		Number.	Per cent.		Number.	Per cent.
MALES.						
10 to 14 years.....	3			33		
15 to 19 years.....	32	11	34.4	24	9	37.5
20 to 24 years.....	32	16	50.0	35	11	31.4
25 to 29 years.....	21	8	38.1	40	13	32.5
30 to 34 years.....	41	21	51.2	68	27	39.7
35 to 39 years.....	26	14	53.8	82	28	34.2
40 to 44 years.....	27	12	44.4	59	9	15.3
Total, 15 to 44 years.....	179	82	45.8	308	97	31.5
45 to 54 years.....	43	7	16.3	170	28	16.5
55 to 64 years.....	42	5	11.9	239	15	6.2
65 year, and over.....	20			347	12	3.5
Total, 10 years and over.....	287	94	32.8	1,097	152	13.9
FEMALES.						
10 to 14 years.....	1			31	8	25.8
15 to 19 years.....	44	20	45.5	26	10	38.5
20 to 24 years.....	52	23	44.2	28	9	32.1
25 to 29 years.....	44	26	59.1	57	18	31.6
30 to 34 years.....	46	20	43.5	68	21	30.9
35 to 39 years.....	36	12	33.3	53	9	17.0
40 to 44 years.....	31	5	16.1	65	2	3.1
Total, 15 to 44 years.....	253	106	41.9	297	69	23.2
45 to 54 years.....	30	6	20.0	188	17	9.0
55 to 64 years.....	13			311	10	3.2
65 years and over.....	2			444	4	.9
Total, 10 years and over.....	299	112	37.5	1,271	108	8.5

The foregoing table shows not only the greater importance of tuberculosis among operatives, but the relative diminution in its importance as a cause of death in the higher age groups where other causes are increasingly destructive. Both male and female operatives show a greater relative mortality from tuberculosis than nonoperatives, but the difference is much greater among females than among males. Among female nonoperatives it will be noted that the highest proportions of tuberculous deaths are found in the age groups 15 to 19 and 20 to 24, although such deaths are fewer than in the next two groups, the reason being, of course, that other deaths are numerous at these early ages. Among the female operatives of the same ages, deaths from other causes are much more numerous, and consequently, though the tuberculous deaths are twice or more than twice as numerous as among nonoperatives, the percentage they form of the total deaths is by no means proportionately greater.

DEATH RATES, BY SEX AND OCCUPATION, FROM TUBERCULOUS, NON-TUBERCULOUS, AND ALL CAUSES.

A comparison of the death rate per 1,000 of operatives and of nonoperatives from tuberculosis and from all other causes, according to sex and five-year age groups is shown in the following table. A column which gives the per cent of excess of the operative over the nonoperative death rate assists in making the comparison.

COMPARISON OF DEATH RATES PER 1,000 POPULATION 15 TO 44 YEARS OF OPERATIVES AND NONOPERATIVES, BY SEX AND AGE GROUPS, FALL RIVER, 1905 TO 1907.

Age group.	Tuberculous.			Nontuberculous.			All causes.		
	Death rate per 1,000.		Per cent of excess of operative over non-operative death rate.	Death rate per 1,000.		Per cent of excess of operative over non-operative death rate.	Death rate per 1,000.		Per cent of excess of operative over non-operative death rate.
	Operatives.	Non-operatives.		Operatives.	Non-operatives.		Operatives.	Non-operatives.	
MALES.									
15 to 19 years.....	1.60	0.93	72	3.04	1.55	96	4.64	2.48	87
20 to 24 years.....	2.61	1.39	88	2.61	3.02	-14	5.22	4.41	18
25 to 29 years.....	1.57	1.45	8	2.56	3.02	-15	4.13	4.47	- 8
30 to 34 years.....	4.46	3.36	33	4.24	5.10	-17	8.70	8.46	3
35 to 39 years.....	3.05	3.99	-24	2.62	7.70	-66	5.67	11.69	-52
40 to 44 years.....	3.20	1.52	111	4.00	8.47	-53	7.20	9.99	-28
Total, 15 to 44 years.	2.63	2.04	29	3.11	4.44	-30	5.74	6.48	-11
FEMALES.									
15 to 19 years.....	2.23	1.10	103	2.68	1.75	53	4.91	2.85	72
20 to 24 years.....	2.51	.99	154	3.17	2.08	52	5.68	3.07	85
25 to 29 years.....	4.53	1.71	165	3.13	3.69	-15	7.66	5.40	42
30 to 34 years.....	4.91	2.19	124	6.39	4.90	30	11.30	7.09	59
35 to 39 years.....	3.85	1.00	285	7.71	4.90	57	11.57	5.90	96
40 to 44 years.....	2.35	.23	922	12.22	7.38	66	14.57	7.61	91
Total, 15 to 44 years.	3.20	1.23	160	4.43	4.08	9	7.63	5.31	44

The above table shows the variations in the death rates for the five-year groups which are hidden when the whole period of thirty years is considered as a unit. This effect is most liable to lead to misinterpretations in the death rates for male operatives and non-operatives from all causes. In three of the five-year groups the operative exceeds the nonoperative rate, while in the other three the situation is reversed; the rate for the whole period is greater among nonoperatives than among operatives.

But when the causes of deaths are considered among the males, it is seen that the death rate per 1,000 from tuberculosis among operatives exceeds that among the nonoperatives, save in one age group, 35 to 39. The excess was most marked in the age group 40 to 44 and in the younger age groups, 20 to 24 and 15 to 19. Quite the opposite is shown in a comparison of death rates from nontuberculous causes,

here, save in one age group, 15 to 19 years, the excess being uniformly on the side of the nonoperatives.

For the female operatives the death rate per 1,000 is in all groups and classes save one (nontuberculous deaths, 25 to 29 years) largely in excess of that for female nonoperatives. The rates, however, from tuberculosis show an extraordinary excess. Thus, in the important age groups, 15 to 19, 20 to 24, and 25 to 29, the excess in the tuberculous rate for female operatives is respectively, 102.7, 153.5, and 164.9. The rates from nontuberculous causes are in the most important age groups, 15 to 19 and 20 to 24, over 50 per cent in excess of those for nonoperatives. In considering the period 15 to 44 years as a whole, the massing of operatives in the youngest groups, where death rates would normally be low, must always be borne in mind. Were operatives, and especially female operatives, equally distributed among the age groups, the excess of the operative over the nonoperative death rate among females would be even greater than it is now and the nonoperative excess among males might disappear altogether.

As has already been pointed out, the death rates per 1,000 as usually computed do not furnish a perfectly accurate comparison of the death hazard for two classes of persons when the age group covered is a long one, as in the present group 15 to 44, unless the age distribution in the classes to be compared is precisely or approximately the same. When the age distribution differs considerably, a comparison of rates for the entire group is somewhat inaccurate in that it gives no recognition to the younger age composition of one of the classes. For a perfectly fair comparison, for example, between female operatives and female nonoperatives in the age group 15 to 44, the actual death rates found to prevail in the 5-year age groups in these two occupation classes should be applied to a population distributed in the same manner as to age. The effect of such a comparison may be seen in the following table, where for purposes of illustration such death rates have been applied to the Fall River female operative population 15 to 44 years of age.

COMPARISON OF DEATH RATES PER 1,000 FOR FEMALE OPERATIVES AND NONOPERATIVES IN AGE GROUP 15 TO 44 WHEN THE CONSTITUENT 5-YEAR AGE GROUPS ARE SIMILARLY DISTRIBUTED FOR THE TWO OCCUPATION CLASSES.

Age group.	Number of female operatives of specified age in population.	Average annual death rates per 1,000 population.		Average annual total deaths in a population distributed as to age as in case of female operatives, with death rates as in preceding columns.		Average annual death rate per 1,000 in age group 15 to 44 with a population distributed as to age as in case of female operatives.		Excess of operative over nonoperative (adjusted) death rate per 1,000.	
		Female operatives.	Female nonoperatives.	Female operatives (actual).	Female nonoperatives (computed).	Female operatives.	Female nonoperatives.	Number per 1,000.	Per cent of excess.
15 to 19 years:									
Tuberculous.....		2.23	1.10	6.67	3.28				
Nontuberculous.....		2.68	1.75	8.00	5.23				
All causes.....	2,987	4.91	2.85	14.67	8.51				
20 to 24 years:									
Tuberculous.....		2.51	0.99	7.66	3.02				
Nontuberculous.....		3.17	2.08	9.67	6.35				
All causes.....	3,052	5.68	3.07	17.33	9.37				
25 to 29 years:									
Tuberculous.....		4.53	1.71	8.67	3.28				
Nontuberculous.....		3.13	3.69	6.00	7.06				
All causes.....	1,914	7.66	5.40	14.67	10.34				
30 to 34 years:									
Tuberculous.....		4.91	2.19	6.66	2.97				
Nontuberculous.....		6.39	4.90	8.67	6.65				
All causes.....	1,357	11.30	7.09	15.33	9.62				
35 to 39 years:									
Tuberculous.....		3.86	1.00	4.00	1.04				
Nontuberculous.....		7.71	4.90	8.00	5.08				
All causes.....	1,037	11.57	5.90	12.00	6.12				
40 to 44 years:									
Tuberculous.....		2.35	.23	1.67	.17				
Nontuberculous.....		12.22	7.38	8.66	5.23				
All causes.....	709	14.57	7.61	10.33	5.40				
15 to 44 years:									
Tuberculous.....				35.33	13.76	3.20	1.25	1.95	156
Nontuberculous.....				49.00	35.60	4.43	3.22	1.21	38
All causes.....	11,056			84.33	49.36	7.63	4.47	3.16	71

It will be seen from the foregoing table that when the death rates found to prevail in the 5-year age groups of the nonoperative population are applied to a population distributed as to age in the same manner as in the female operative population, the differences between operative and nonoperative death rates are increased. Thus, in the age group 15 to 44 the tuberculous death rate per 1,000 for female operatives was 1.95 in excess of that of female nonoperatives, the nontuberculous rate was 1.21 in excess, and the rate from all causes was 3.16 in excess, representing an annual excess for the entire female operative population of 35 deaths. The table which follows makes comparisons similar to those on page 72 of the tuberculous and nontuberculous death rates of females in relation to those of males for both the operative and nonoperative classes.

COMPARISON OF DEATH RATES PER 1,000 POPULATION 15 TO 44 YEARS OF MALES AND FEMALES, BY OCCUPATION AND AGE GROUPS, FALL RIVER, 1905 TO 1907.

Age group.	Tuberculous.			Nontuberculous.			All causes.		
	Males.	Fe- males.	Per cent of excess of female over male death rate.	Males.	Fe- males.	Per cent of excess of female over male death rate.	Males.	Fe- males.	Per cent of excess of female over male death rate.
OPERATIVES.									
15 to 19 years	1.60	2.23	39	3.04	2.68	-12	4.64	4.91	6
20 to 24 years	2.61	2.51	-4	2.61	3.17	21	5.22	5.68	9
25 to 29 years	1.57	4.53	188	2.56	3.13	22	4.13	7.66	86
30 to 34 years	4.46	4.91	11	4.24	6.39	51	8.70	11.30	30
35 to 39 years	3.05	3.86	27	2.62	7.71	194	5.67	11.57	104
40 to 44 years	3.20	2.35	-27	4.00	12.22	206	7.20	14.57	102
Total, 15 to 44 years.	2.63	3.20	22	3.11	4.43	42	5.74	7.63	33
NONOPERATIVES.									
15 to 19 years .....	.93	1.10	18	1.55	1.75	129	2.48	2.85	15
20 to 24 years	1.39	.99	-29	3.02	2.08	-31	4.41	3.07	-30
25 to 29 years	1.45	1.71	18	3.02	3.69	22	4.47	5.40	21
30 to 34 years	3.36	2.19	-35	5.10	4.90	-4	8.46	7.09	-16
35 to 39 years	3.99	1.00	-75	7.70	4.90	-36	11.69	5.90	-50
40 to 44 years	1.52	.23	-85	8.47	7.38	-13	9.99	7.61	-24
Total, 15 to 44 years.	2.04	1.23	-40	4.44	4.08	-8	6.48	5.31	-18

In the nonoperative class it will be seen that the death rates for females are in most age groups below those of males. The groups 15 to 19 and 25 to 29 are exceptions, but here the excess for females is not great. For the group 15 to 44 as a whole the female death rate is 18 per cent below that of males.

In the operative class, the death rates of females are in all age groups in excess of those of males, increasing to an excess of 104.1 per cent and 102.4 per cent in the groups 35 to 39 and 40 to 44.

The significance of these comparisons should not be overlooked. The death rate of females, which outside of the cotton industry is considerably more favorable than that of males, in this industry in the period 35 to 44 is more than double that of males, and in the entire 15 to 44 group is one-third higher.

If the death rates from tuberculosis only are compared, among the operatives the female rates for ages 15 to 44 are 21.7 per cent in excess of those of males, an excess being found in all groups except 20 to 24 and 40 to 44, and rising to 188.3 per cent in the important age group 25 to 29. Among nonoperatives, on the other hand, the death rates for females are 39.7 per cent below those of males, the female rate being in excess in only two groups, 15 to 19 and 25 to 29.

In similar manner the female death rates from nontuberculous causes are in excess among the operatives, being about double those of males between 35 and 44, and slightly lower among the nonoperatives, the same tendency appearing in most of the age groups.

Wherever in the following tables the death rate of a given class by periods of one year and three years, respectively, for Fall River and the combined three cities is not accordant, it has been assumed for reasons already stated^a that the figures for the combined three cities for three years best represent the present basic conditions as regards tuberculosis, and that the percentage of excess in death rate of operatives, excepting tuberculous operatives, is best represented by the figures for Fall River for three years.

MORTALITY IN AGE GROUP 15 TO 44, SHOWING DEATHS FROM TUBERCULOUS, NONTUBERCULOUS, AND ALL CAUSES.

MORTALITY, BY SEX.

Table 18 gives for the localities and periods studied full details as to the distribution of the population and of the deaths, by sex, occupation, race, and cause of death, together with the death rates for each class.^b Table 19 gives the same distribution by percentages; but, in place of the detailed death rates, gives for each class the percentage by which the death rate of one sex exceeded that of the other. Two facts stand out with especial clearness from these tables:

I. In the population as a whole the male death rate shows a very slight excess over the female, alike from tuberculous and nontuberculous causes. The only exception to this is in Fall River, where for the three-year period the female death rate from nontuberculous causes shows a slight excess over the male.

II. Female operatives show an equally uniform, but much more marked excess in death rates over the male operatives, the only exception to this general condition appearing in the figures of the three cities for one year, where the male operative death rate from all causes shows an excess of 2 per cent over the female.

DEATHS FROM TUBERCULOSIS.

Table 19 shows that while female operatives as a whole have a distinctly higher mortality from tuberculosis than male operatives, their relative hazard differs widely from race to race. Taking the figures for the combined three cities for three years as typical, it will be seen that among the Irish, the Americans, and the French

^a See Introduction, p. 27.

^b The death rate of the Irish in each sex and occupation group, in each locality, and for each period studied is so much higher than that of any other race, or of all races combined that its inclusion tends to obscure the relative hazard, from a given cause, of the various subdivisions of the other races. Throughout this discussion, therefore, the tables have been so constructed that the death rate of any race, or of any subdivision of any race may easily be compared with the corresponding rate, either for all races or for all non-Irish races.

Canadians the excess of the female death rate is high, varying from 23 per cent to 49 per cent; that among the English and the "Other races" the difference is so slight as to be negligible, while for the operative population as a whole it rises to 36 per cent.

An examination of the death rates in Table 18 shows that the slight excess of English female over male operatives is due to an unusually low death rate from tuberculosis among the females. Among the "Other races," on the other hand, while the female operatives have a low rate from tuberculosis, the male rate is fairly high.

Among the nonoperatives the situation is exactly reversed, the males as a whole showing a considerably higher death rate from tuberculosis (excess 51 per cent) than the females. The variations in the different race groups are more marked, however, than among the operatives. Again, taking the figures for the three cities for three years as representative, it is seen that the Irish male nonoperatives show by far the highest excess (151 per cent) over the females in their tuberculous death rate; next come the English with an excess of 82 per cent, the Americans with an excess of 66 per cent, and the "Other races" with 25 per cent excess, while the French Canadians depart from the orderly sequence by showing a female excess of 51 per cent. This is due to the combination of an unusually high rate among the females and a rather low rate among the males.

Finally, taking the total population, operatives and nonoperatives combined, it is seen that in the population as a whole the male hazard from tuberculosis exceeds the female, that this male excess is large among the Irish, smaller and exactly the same for the Americans and English, and very small for the "Other races," while among the French Canadians the females suddenly come to the front with an excess hazard of 54 per cent. For the total group the male excess is only 13 per cent; in other words, the hazard to life from tuberculosis for all races is about one-eighth greater for males than for females.

NONTUBERCULOUS CAUSES.

Considering first the deaths of operatives from nontuberculous causes it will be seen that in Fall River, both for one and for three years, females had a considerably higher death rate than males, while the three cities combined for one year show a very slight excess in the male rate.^a As in one of these, Manchester, the one year was 1905, it is quite possible that some decedents who were really operatives, though not so described on their death certificates, were not

^a As has been mentioned in the introduction, the study of the cities other than Fall River for the three-year period probably failed to identify as operatives some of the decedents from nontuberculous causes who really belonged to that class, and hence their figures are omitted here. They showed, however, that the female operative death rate from nontuberculous causes exceeded the male by 18 per cent.

identified as cotton workers, and that this departure from the prevailing situation may be due to this irregularity.

Taking the figures for Fall River for three years as representative, it will be seen that for the operative population as a whole the female hazard is 42 per cent greater than the male,^a but that among the different races the relation varies. Among the Irish the female excess is so small as to be negligible—only 1 per cent—among the Americans the males show an excess of 10 per cent, among the English the female excess is 66 per cent, among the French Canadians 56 per cent, and among the “Other races” 60 per cent.

The Irish and the Americans show a marked likeness to one another and a marked dissimilarity to the other races in this respect. It is to be noted that in both races the males have a death rate from nontuberculous causes very much higher than the average rate for males of all races, while the female death rate shows but a comparatively slight excess over the average death rate for females of all races.

Among the nonoperatives, on the other hand, the death rate from nontuberculous causes is greater among males than females. Taking Fall River for three years as the type, the males show this excess in every race group except the Americans, where the females show an excess of 61 per cent, and the French Canadians, where the female excess is 5 per cent.

In the population, operatives and nonoperatives combined, the difference between the sexes in mortality from nontuberculous causes is not marked. Fall River for one year shows a male excess of 23 per cent, for three years a female excess of 8 per cent, and the three cities for one year a male excess of 22 per cent. Within the race groups the excess is sometimes among the males, sometimes among the females, according to the city and period selected. The Irish and the “Other races” are the only groups showing a constant male excess.

ALL CAUSES COMBINED.

Taking, first, the operatives, it will be seen that in general the female death rate exceeds the male by from 14 to 33 per cent, and that of the different race groups the Americans are alone in showing a male excess in each locality and for each period.

If the figures for Fall River for three years be regarded as representative, it will be seen that the death hazard to female operatives as a whole from all causes is about one-third greater than that to male operatives, in spite of the fact that the average age of the females is younger than that of the males. Looking at the two groups of death causes separately, the hazard to female operatives is plainly greater from nontuberculous causes than from tuberculous. Comparing the

^a Table 19.

separate race groups with the whole operative population, the English and the other races show almost the same excess of hazard to females as prevails in the whole class, the French Canadians show a considerably larger excess (54 per cent), among the Irish the female excess sinks to 5 per cent, and among the Americans the males show an excess of 22 per cent.

Among the nonoperatives, taking the group as a whole, the males show an excess of hazard over the females ranging from 22 to 58 per cent. On the whole, this male excess is more marked among those dying of tuberculosis than among those whose death was due to other causes. Taking Fall River for three years as a type, the males have an excess of 22 per cent. The Americans do not conform to this, showing a female excess of 24 per cent, and neither do the French Canadians, who have a female excess of 5 per cent. The other race groups show a male excess—16 per cent among the other races, 47 per cent among the English, and 71 per cent among the Irish. The Irish have much to do with the result for the total group of nonoperatives dying from all causes. It will be noticed that among the non-Irish races the excess of the male over the female death rate from all causes is only 6 per cent. The most important factors in bringing the corresponding excess from all races up to 22 per cent are the enormous excess of the death rate from tuberculosis (187 per cent) of the Irish male over female nonoperatives, and their smaller, but still considerable, excess (71 per cent) from nontuberculous causes.

Finally, taking the whole operative and nonoperative population and including deaths from all causes, the death rates are as follows:

DEATH RATES FROM ALL CAUSES, AGE GROUP 15 TO 44, FOR OPERATIVES AND NONOPERATIVES, BY SEX, FALL RIVER AND THREE CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).

	Operatives.		Nonoperatives.		Total population.		
	Males.	Females.	Males.	Females.	Males.	Females.	Both sexes.
Fall River:							
1 year.....	6.93	8.59	7.89	4.99	7.51	6.33	6.89
3 years.....	5.74	7.63	6.48	5.31	6.19	6.18	6.18
3 cities:							
1 year.....	7.10	8.11	8.05	6.14	7.78	6.72	7.21

The excess hazard among operative females offsets the excess hazard of nonoperative males to such an extent that for the whole population the death hazard of the two sexes is nearly equal, the males, however, showing a slight excess.

Taking Fall River for three years as a type, among the Irish the male death rate shows an excess over the female of 38 per cent, among the Americans there is a female excess of 13 per cent, among the English a male excess of 10 per cent, among the French Canadians a

female excess of 26 per cent, and among the other races a female excess of 4 per cent. It is apparent that here, also, the high mortality of the Irish males has much to do with the slight excess of male hazard in the general population.

The variations in the relative mortality of the sexes are summarized in the following table:

PER CENT OF EXCESS IN DEATH RATES PER 1,000 FROM SPECIFIED CAUSES OF ONE SEX OVER THE OTHER.

Cause of death.	Fall River, 1 year.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.
OPERATIVES: FEMALE EXCESS.				
Tuberculosis.....	25	22	37	36
Nontuberculous causes.....	23	42	a 2	18
All causes combined.....	24	33	14	26
NONOPERATIVES: MALE EXCESS.				
Tuberculosis.....	57	66	36	.....
Nontuberculous causes.....	59	9	29	.....
All causes combined.....	58	22	31	.....
OPERATIVES AND NONOPERATIVES COMBINED: MALE EXCESS.				
Tuberculosis.....	12	16	5	.....
Nontuberculous causes.....	23	b 8	22	.....
All causes combined.....	19	(c)	16	.....

a Male excess.

b Female excess.

c Less than one-half of 1 per cent.

It is apparent that, with one single exception, female operatives show a higher mortality than male operatives in every place and from tuberculous and nontuberculous causes of death alike; that male non-operatives everywhere show a higher, and with one exception a much higher, death rate than female nonoperatives; and that in the general population males have a somewhat higher death rate than females.

MORTALITY, BY RACE.

In considering the data relating to this subject, it is necessary to bear in mind the lack of accurate information as to the age distribution of the foreign-born population and the possibility of error arising from the assumption that each race has the same representation in each age group that it has in the population as a whole. Whatever error, however, arises from this assumption is probably at a minimum in this 15 to 44 age group. Also the degree of error involved in the assumption can hardly be sufficient to affect the reliability of the basic tendencies disclosed by the following tables, though it may have some effect on the minor differences, especially if they appear only in one locality or one period.

Ignoring the question of sex and occupation, the following table shows what percentage each race formed of the total population and what proportion of the total deaths came from its ranks.

PERCENTAGE DISTRIBUTION IN AGE GROUP 15 TO 44 YEARS OF POPULATION AND OF DEATHS, BY RACE, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).^a

	All non-Irish races.	Irish.	Ameri-can.	Eng-lish.	French Cana-dian.	Other races.	Number of popu-lation and of deaths.
FALL RIVER.							55,911
Percentage of population	82	18	18	22	27	15	
Percentage of deaths:							
Tuberculous—							
1 year	66	34	9	17	27	13	147
3 years	67	33	9	16	28	14	354
Nontuberculous—							
1 year	74	26	15	15	30	14	238
3 years	72	28	13	18	28	13	683
Total deaths—							
1 year	71	29	13	15	29	14	385
3 years	70	30	11	17	28	14	1,037
THREE CITIES.							112,725
Percentage of population	81	19	25	19	26	11	
Percentage of deaths:							
Tuberculous—							
1 year	63	37	11	14	27	11	281
3 years	64	36	13	13	28	10	713
Nontuberculous—							
1 year	73	27	19	15	28	11	532
Total deaths—							
1 year	69	31	16	15	27	11	813

^a See Table 20.

The Irish, it will be observed, everywhere and for each period furnish a much larger percentage of the deaths than they do of the population, and this disproportion is especially marked in the deaths from tuberculosis. The American and the English nowhere reach the proportion of deaths which their representation in the population would justify, but come nearest to it in the deaths from nontuberculous causes. The French Canadians and the "Other races" both keep very near their population quota of deaths, the French rising a little above and the "Other races" falling a little below it.

The most striking feature in the table is the relatively large number of Irish deaths. The detailed tables, which follow, show that this proportionate excess is not a peculiarity of any one sex or occupation group, but seems characteristic of the race as a whole.

The facts for the different races are given in Table 18, with such fullness that they call for little comment. Comparing the hazard from tuberculosis for each race with the average tuberculous hazard of all races, it is apparent that the hazard to life from tuberculosis is by far the least for the Americans, among whom it reaches only one-half of the average for all races; then come the English, among whom it is only two-thirds of the all-races averages; then the group of "Other races," among whom it approaches very closely the average, but falls a trifle below; then the French Canadians, among whom also it comes very close to the average, but rises a trifle above it, and last of all the Irish, among whom it rises to almost double the hazard for all races combined.

With regard to liability to death from nontuberculous causes, the races show exactly the same order. Taking the hazard of the whole 15 to 44 years' group as a standard, and comparing the hazard of each race group with this, it appears that the death rate from nontuberculous causes is lowest among the Americans, where it is only three-fourths of the average for all races; then come the English, for whom the death rate is about four-fifths of the all-races average; then the "Other races" and the French Canadians, the former falling a little below and the latter rising a little above the average; and then the Irish, for whom the rate is about one-half greater than the rate for all races combined.

The operatives show a variation from this order, as among them the English, practically everywhere and from all causes, have a death rate considerably lower than either the rate for all races or the rate for any other race, and next to them comes the group of "Other races," whose death hazard is slightly below the average. These two variations in the operative group seem due to widely different causes. The English, who have been long accustomed to cotton-mill work, appear to have become inured by experience to mill influences which to the other races are potentially harmful. Among the operatives of the "Other races," who are mainly the newer immigrants, it is probable that there is a massing in the lower age groups, since these newer races are apt to come over young and to go into the mills at once, if at all. Moreover, before they can enter the country they must pass a physical examination and be officially certified as of sound health. They are, therefore, a picked group, among whom a low death rate might naturally be anticipated.

These two exceptions, however, apply only to the operatives among the English and the "Other races." For the population as a whole, and for every subdivision except these two, the situation as to racial mortality may be thus summarized: Of all the races and peoples, the Americans exhibit considerably the greatest, and the Irish much the least, physical resistance to fatal influences, the former having been about one-third less and the latter about two thirds more liable to die from all causes than the general population; the English were about one-quarter less liable to death than were the individuals of all races on the average; and finally the French Canadians exhibit slightly less and the "Other races" slightly more combative resistance to death than is shown by the average of individuals of all races.

OCCUPATIONAL MORTALITY.

Before considering Table 22 it may be well to mention again that in all mortality comparisons of operatives with nonoperatives the data for Fall River for three years contain probably the smallest margin of error, and whatever error exists is all in the direction of

understatement of operative mortality. For female decedents, however, the occupational data for Fall River, for one year (1907) are probably more accurate than any other, since this information was gathered by one individual and within a shorter interval after the deaths occurred than was the case elsewhere. On the other hand, a period of one year may evidently be less typical than one of three years, and the year studied (1907) may have been not entirely normal in operative mortality. Hence, it is a matter for individual judgment to decide which the more nearly represents the cotton industry's true female mortality—an exceedingly close approximation to accuracy for only 365 consecutive days, or a probable understatement of such real mortality conditions for the much longer period of 1,095 consecutive days.

Table 22 shows the percentage distribution of population and of deaths by sex, race, and occupation groups, and also the percentage by which the death rates of one occupation group exceed those of the other.

Taking first the mortality from tuberculosis, it is apparent that if race be disregarded and the whole population considered, the death rate of the male operatives everywhere exceeds that of the male nonoperatives, the excess ranging from 14 to 29 per cent; if only the non-Irish races be considered the excess of the male operative over nonoperative death rate ranges from 51 to 86 per cent; if the race groups be considered separately, the Irish reverse the prevailing situation by showing a considerably higher death rate among male nonoperatives than among male operatives; among the English the death rates of the two classes are very nearly equal, the one-year period showing an excess among the nonoperatives, but the three-year period giving the usual operative excess; and the three other race groups showing an excess, usually very large, of operative over nonoperative mortality.

Among females the operative death rate from tuberculosis, both in the population as a whole and in each race group, is very much higher than the nonoperative. The difference is least among the "Other races," whose operatives, as has already been noted, constitute a picked group as to probable health and youthfulness; and it is greatest among the Americans, where the operative excess is nowhere less than 300 per cent.

Turning to the nontuberculous causes of death, the table shows that both in the general population and in each race group, excepting only the Americans, the male nonoperatives have a considerably higher death rate than the operatives.^a This nonoperative excess

^a This general statement is true not only of the period 15 to 44, but also of the component age groups within it, except the age group 15 to 24, in which the male operatives have a higher death rate than the nonoperatives from nontuberculous causes of death as well as from tuberculosis.

is greatest among the English, where it ranges from 120 to 204 per cent, and least among the French Canadians, where its range is from 16 to 43 per cent. Concerning the Americans it must be noticed that the operatives form but a very small proportion of their total male population between 15 and 45—only 12 per cent in Fall River and 9 per cent in the three cities combined. Consequently the operative excess among them has but little effect upon the general situation.

For females in Fall River the operatives regularly show a higher death rate from nontuberculous causes than do the nonoperatives, but in the three cities the nonoperatives show an excess. It is to be noted, however, that this nonoperative excess is not constant, the American and English operatives showing a higher death rate than nonoperatives of the same races. Moreover, a study of the component age groups shows that the nonoperative excess among the females of the three cities is confined to the age group 25 to 34, the other two decades showing the higher death rates for operative females which prevail elsewhere.

Turning to the deaths from all causes combined, the relative mortality of the male operatives and nonoperatives shows a marked difference according to whether or not the Irish are included. Among the aggregate non-Irish males, the great excess of the operative over the nonoperative death rate from tuberculosis more than outweighs the smaller excess of the nonoperatives from nontuberculous causes, and the operatives show a higher mortality from all causes than do the nonoperatives. But if the Irish be included, their large excess of nonoperative over operative mortality reverses the situation prevailing among the rest of the population, and makes the operatives as a whole show a slightly lower mortality from all causes than do the nonoperatives. The relation is not a universal one, however, even among the non-Irish races, for both the English and the "Other races" show a nonoperative excess.

Among females the death rate from all causes is considerably higher for operatives than for nonoperatives, and this relation is practically constant, the only exceptions being found among the French Canadians and the "Other races" of the three cities for one year.

MORTALITY IN AGE GROUP 15 TO 44, SHOWING DETAILED CAUSES OF DEATH.

PER CENT OF TOTAL DEATHS FROM EACH SPECIFIED CAUSE FALLING WITHIN AGE GROUP 15 TO 44.

Table 47 shows the distribution of the population and of deaths from specified causes among the various age groups in Fall River and in the three cities combined. The per cents are based on the figures for those 10 years old or over, and throughout the following discussion

those under 10 years will be disregarded. Moreover, since there is but little difference between the relative distribution of deaths in Fall River during the three-year period and in the three cities for one year in order to avoid complexity the discussion will be based on the Fall River figures, except where some marked variation makes it necessary to refer to those for the three cities.

It will be noticed that practically two-thirds of the population—65 per cent—falls within the 15 to 44 years age group, but that the proportion of deaths within the same age group differs widely according to the cause of death. Ignoring distinctions of sex and occupation, it will be seen that the deaths ascribable to parturition,^a to tuberculosis, to all respiratory diseases, and to accident or violence all have a larger incidence in this young and active industrial age group than in any other group. The deaths from parturition, as might be expected, are almost exclusively here. The deaths from tuberculosis—76 per cent of the total deaths from this cause—are considerably in excess of the population quota of the group, while the deaths from all respiratory diseases fall below the population quota,^b though coming close to it.

Diseases of the nervous and digestive systems, kidney diseases, all unclassified diseases, and all causes combined are represented in this group by about one-third of the total deaths due to each, while deaths from cancer and from impairment of the circulatory system fall considerably below this proportion.

Considering the distribution of deaths by sex, it will be seen that females depart from the average for the total population in having within this age group a smaller proportion of their deaths from apoplexy and casualty, and a larger proportion of their deaths from respiratory diseases other than tuberculosis, from heart disease, tuberculosis and cancer. Males, of course, have complementary variations in the opposite direction in their deaths from these same diseases.

Considering the matter by occupation, it is apparent that cotton operatives depart from the average distribution of deaths by having within this period a very much larger proportion of their deaths from each cause and from all causes combined. Among males this proportion is approximately twice and among females approximately three times as great as among the nonoperatives of the same sex.

^a See Tables 31, 32.

^b It must be remembered, however, that since officially designated causes of deaths of all adults are for the most part merely names of a worn-out condition of the several organs or systems of the body, and since such exhausted conditions are normally due to age only a minimum of what may be styled the terminal diseases will have occurred so early in life as the age period 15 to 44 years. Consequently, from most diseases the population quota of deaths can not be expected in this group.

Nonoperatives, of course, show a smaller proportion of deaths from each cause in this age group than prevails among the general population.

Concerning race, the Irish differ from the population as a whole in that in general a smaller proportion of their total deaths from each cause occur in this age group 15 to 44. In deaths from violence or accident, from cancer, and from nephritis they depart from this general relation, showing a larger proportion within these years than prevails in the general population.

Evidently any specified cause of disease is important just in proportion as it is active among the country's producers and its reproducers—its workers and its child bearers. And since the child bearers are almost wholly, and the workers very largely, found within the age group 15 to 44, the different causes of death challenge attention and call for remedial action in proportion to the share of their victims they draw from this group.

Hence the question of foremost importance to be answered concerning a specified disease or cause of death is not: "How many deaths are ascribable to it?" but, rather, "Are most of its deaths within age limits that embrace the bulk of the productive population?" If the answer to this question is in the affirmative, then the second natural question is as to whether the specified disease is the chief or one of the most prevalent causes of death within that age group. The first question is fully answered by the tables just given, and the second will be taken up in the following section.

PER CENT OF DEATHS IN AGE GROUP 15 TO 44 DUE TO EACH SPECIFIED CAUSE.

Tables 29, 30, 33, and 34 show the number of deaths from each cause occurring within the age group 15 to 44 and the percentage the deaths from each cause comprise of the total deaths within the period. It is at once apparent that tuberculosis is far more fatally active within these years than is any other single cause of death. Regularly one decedent out of every three in this age group died of tuberculosis, while the next most prevalent cause, the group massed together as "Respiratory diseases other than tuberculosis," accounted for only one decedent out of every eight. Among operative deaths approximately one out of two were due to tuberculosis and among nonoperative deaths approximately one out of four. The Irish male nonoperatives rise considerably above the proportion for all nonoperatives, more than two-fifths of their deaths between 15 and 45 being from tuberculosis, while the American female nonoperatives sink decidedly below the nonoperative average, only about one-sixth of their deaths being from this cause.

Next to tuberculosis in fatal activity comes the group of other respiratory diseases, pneumonia being the most important of these. Taking the age group 15 to 44 as a whole, regularly one decedent in every eight dies from these diseases; among male nonoperatives this proportion rises to one in seven and among female nonoperatives sinks to 1 in 10. In general, the Irish show a higher death rate than the non-Irish from these diseases, the only exceptions to this generalization being the male operatives and female nonoperatives.

However inadequately tuberculosis is reported officially, the total tuberculous and nontuberculous respiratory causes of death will include nearly all the fatal cases of tuberculosis. The combined respiratory diseases account for not far from half of the total deaths in this age period; among operatives they are responsible for nearly three out of every five deaths, and among nonoperatives for two out of five deaths. For each sex as a whole, the proportion comes very close to that of the total population, but within the sex groups female nonoperatives show a lower, and male nonoperatives a higher percentage than prevails among nonoperatives as a whole. As regards race it appears that Irish males, whether operative or non-operative, exceed, and Irish female nonoperatives fall below the proportions prevailing among the non-Irish races.

As regards accident or violence as a cause of death, the sexes show a marked disparity. Among males this ranks next in importance to tuberculosis and nontuberculous respiratory diseases, accounting for one death out of every ten, but among females it stands next to the bottom of the list, accounting for only one death in thirty-three. There is a decided racial difference in this respect, one death in every ten among Irish female nonoperatives being due to accident or violence, while among the non-Irish of the same class the proportion is about one in forty.

Parturition as a cause of death takes among the women of this group the place held by casualties among men, standing next to tuberculosis and to other respiratory diseases in the number of deaths for which it is accountable. One in ten of the female decedents of Fall River, aged 15 to 44 years, owed their death to parturition. This by no means fairly represents the hazards of childbirth, since not all females within these age limits were married, and not all who were married had been parturient. Twenty-four tuberculous deaths had occurred with childbirth as a complication; if these were counted among the deaths from parturition it would make that cause responsible for one out of every seven female deaths in this age group in Fall River—i. e., parturition would rank second only to tuberculosis in importance. As regards race, the Irish, both operatives and nonoperatives, showed a lower proportion of deaths from this cause than prevailed among the non-Irish.

Diseases of the digestive system account for one death in eleven among the general population. This proportion does not vary to any great extent among the different subgroups, but on the whole males show a higher mortality than females from this cause.

DEATHS FROM NEPHRITIS.

Nephritis, or kidney disease, ranks fourth in importance as a cause of death among the total population aged 15 to 44 years, being responsible for one death in every twelve. If the matter of race be ignored, this proportion is almost uniform throughout the various sex and occupation classes. From the standpoint of race, however, the Irish show a remarkable variation; among them nephritis holds the position held by nontuberculous respiratory diseases among the population in general—i. e., ranks next to tuberculosis in importance as a cause of death. The Irish in Fall River for three years showed a death rate from this cause which in each sex and occupation class was enormously larger than that of the corresponding class of the non-Irish. Among the Irish it was the officially certified cause of one death out of every seven or eight (according to the sex and occupation group) which occurred, while among the non-Irish only one in every twenty decedents was officially certified as having died from nephritis.

If the deaths from respiratory diseases be excluded, the peculiar liability of the Irish to nephritis becomes more strikingly apparent. Of the total deaths from nonrespiratory causes, nephritis is responsible among the Irish for 25 per cent, among the non-Irish for 10 per cent. The effect of this high rate among the Irish in bringing up the percentage of deaths from nephritis among the total population is shown in the following table:

PER CENT OF TOTAL MORTALITY IN AGE GROUP 15 TO 44 YEARS FROM NON-RESPIRATORY DISEASES WHICH WAS DUE TO NEPHRITIS, BY SEX AND OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

Occupation.	Males.		Females.		Both sexes.
	Irish.	Non-Irish.	Irish.	Non-Irish.	All races.
Percentage distribution of total population:					
Operatives.....	3	16	4	15	38
Nonoperatives.....	5	23	6	28	62
Number of deaths from aggregate non-respiratory causes:					
Operatives.....	22	58	31	82	193
Nonoperatives.....	51	117	58	145	371
Number of deaths from nephritis:					
Operatives.....	4	7	11	10	32
Nonoperatives.....	15	11	11	13	50
Per cent of deaths from nonrespiratory diseases which was due to nephritis:					
Operatives.....	17	12	35	12	17
Nonoperatives.....	29	9	19	10	13
Death rates from non-respiratory causes per 1,000 of each specified population:					
Operatives.....	4.87	2.18	4.28	3.17	3.01
Nonoperatives.....	6.45	2.95	5.94	3.14	3.59

The figures in this table need no comment beyond what has already been made, but attention may be called to the fact that though the Irish constitute rather less than one-fifth (18 per cent) of the total Fall River population aged 15 to 44, they furnished during the three years under consideration exactly one-half of the deaths from nephritis within the group.

DEATHS FROM DISEASES OF DIGESTIVE, URINARY, CIRCULATORY,
AND NERVOUS SYSTEMS.

Deaths in this age group due to diseases of the digestive, the urinary, the circulatory, and the nervous systems represent the effect of the wear and tear of living as expressed in prematurely worn out heart and arteries, digestive organs, kidneys, nerves, or brains. The following table shows the proportion of the deaths from non-respiratory causes for which these "regional" conditions were responsible.

PER CENT OF TOTAL MORTALITY IN AGE GROUP 15 TO 44 YEARS FROM NON-RESPIRATORY DISEASES WHICH WAS DUE TO DISEASES OF THE DIGESTIVE, URINARY, CIRCULATORY, AND NERVOUS SYSTEM, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).

	Sex.		Race.		Occupation.		Total.
	Males.	Fe- males.	Irish.	Aggre- gate non- Irish.	Oper- atives.	Others (non- oper- atives).	
Number of nonrespiratory deaths:							
Fall River, 3 years.....	248	316	162	402	193	371	564
3 cities, 1 year.....	218	216	(a)	(*)	104	330	434
Per cent of deaths from non-respiratory diseases which was due to four degenerative causes:							
Fall River, 3 years.....	63	51	65	50	58	55	56
3 cities, 1 year.....	66	55	(a)	(a)	63	59	60
Death rates from all nonrespiratory causes per 1,000 population:							
Fall River, 3 years.....	3.15	3.55	5.50	2.91	3.01	3.59	3.36
3 cities, 1 year.....	4.16	3.58	(a)	(a)	3.18	4.12	3.85

* Not reported.

There are two features of interest in this table: The comparative uniformity throughout the different sex, race, and occupation groups of the proportion of deaths due to these causes and the large proportion of the deaths ascribable to the wearing out or degenerating of these four systems.

SUMMARY.

The remaining causes of death hardly require separate discussion. Looking at the tables as a whole, it is evident that the deaths in the age period 15 to 44 are very nearly divided between respiratory and nonrespiratory causes. In the first group tuberculosis is overwhelmingly important, accounting for practically three-fourths of

the deaths (75 per cent in Fall River for three years, 74 per cent in the three cities for one year). In the other, or nonrespiratory, half of the gross mortality the wear and tear of living, represented by the non-functioning of the digestive, the urinary, the circulatory, and the nervous systems, account almost uniformly for more than one-half. This leaves four groups responsible for the remaining half of the deaths from nonrespiratory causes, viz: (1) Casualties, (2) parturition, (3) unclassified diseases, and (4) cancer. For males more deaths were ascribed to casualties and for females to parturition than to any other nonrespiratory cause.

DEATH RATES IN AGE GROUP 15 TO 44 FROM SPECIFIED CAUSES.

In the preceding pages it has been shown, first, what proportion of the total deaths due to each cause occurred within the age group 15 to 44 and, second, what proportion of the deaths occurring within this age group were assignable to each cause. It now remains to consider the differences in fatal susceptibility to each cause of cotton operatives as compared with the rest of the population. This can best be shown by comparing the death rates of the different race, sex, and occupation groups, as given in Tables 29 and 30.

These tables do not need a great deal of comment. It will be remembered that respiratory diseases taken together accounted for nearly half the total deaths occurring in this group. The death rate from these combined diseases is 2.82. There is but little difference between the sexes in this respect, the rate for males rising a little above and that for females falling a little below the average for the whole population. Operatives exceed the average rate, males showing but a small excess, while among females the excess is very marked. Nonoperatives show correspondingly lower rates than the average. Table 30 shows that the Irish have an enormously higher death rate from these causes than prevails in the general population and that the non-Irish peoples fall below the general rates. The Irish excess is much more marked among males than females and reaches its maximum among the male nonoperatives, where, it will be remembered, the deaths from tuberculosis were most numerous. Among the non-Irish there is very little difference between the sexes in death rates from these causes, but as between operatives and nonoperatives the former show a considerable excess, which is found mainly among the females.

Concerning digestive diseases, which were responsible for 1 out of every 11 deaths in this age group, the only necessary comment upon the tables is that Irish males had double the hazard from this cause of Irish females and more than double the hazard of non-Irish males and that this hazard was one-fourth less for Irish than for

non-Irish female operatives. It is also worthy of note that among the non-Irish females operatives had twice the death rate of nonoperatives from digestive diseases.

Concerning diseases of the nervous system, the only noteworthy variations from the general rate are the very low rate among Irish males and the high rate among Irish females, who show about twice the hazard of non-Irish females and five times the hazard of Irish males from this cause.

As regards mortality from cancer, it is seen that females were invariably much more liable to die from it than were the males of each class; female nonoperatives had a much greater cancer hazard than female operatives; and the female Irish of each occupation class had a greater hazard than the female non-Irish. Among females, indeed, there is a nonoperative and an Irish excess in death rate from cancer which can not be wholly accounted for even by the admittedly younger age of the operatives.

Concerning deaths from parturition, the tables show that this ranks third in importance as a cause of female deaths; that in the general population the hazard from this cause is decidedly greater to operatives than to nonoperatives, but that this general relation does not prevail among the Irish, where the nonoperatives have considerably the higher rate.

In these tables all deaths in which tuberculosis and childbirth are both factors have been classed as tuberculous. It is open to question whether they might not with equal propriety be classed as deaths from parturition, in which case the death rate from this cause would be materially increased. The following table shows for Fall River the number of deaths and the death rates, by occupation class, for parturition complicated with tuberculosis, for parturition without tuberculous complications, and for both causes combined.

NUMBER OF DEATHS AND DEATH RATE PER 1,000 DUE TO PARTURITION WITH OR WITHOUT TUBERCULOUS COMPLICATIONS, BY AGE AND OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

Age group and occupation.	Population.	Deaths from parturition.					
		Tuberculous complication.		No tuberculous complication.		Total.	
		Number of deaths.	Death rate per 1,000.	Number of deaths.	Death rate per 1,000.	Number of deaths.	Death rate per 1,000.
15 to 29:							
Operatives.....	7,953	11	0.59	14	0.46	25	1.05
Nonoperatives.....	9,593	2	.42	12	.07	14	.49
Total.....	17,546	13	.49	26	.25	39	.74
30 to 39:							
Operatives.....	2,394	3	1.67	12	.42	15	2.09
Nonoperatives.....	6,188	8	.86	16	.43	24	1.29
Total.....	8,582	11	1.09	28	.42	39	1.51
40 to 44:							
Operatives.....	709						
Nonoperatives.....	2,846			a 5	.59	a 5	.59
Total.....	3,555			a 5	.47	a 5	.47
All ages, 15 to 44:							
Operatives.....	11,056	14	.78	26	.43	40	1.21
Nonoperatives.....	18,627	10	.59	a 33	.18	a 43	.77
Total.....	29,683	24	.66	a 59	.27	a 83	.93

a Including 1 at 45 and 1 at 46 years.

The table shows clearly that if the deaths complicated with tuberculosis be added to those for which parturition alone appears as a cause, the death rate rises to 1.21 for operatives, 0.77 for nonoperatives, and 0.93 for the two classes combined. Childbirth has already been shown to be responsible for one-tenth of the total female deaths of Fall River in the age group 15 to 44; this makes it responsible for 15 per cent of such deaths. That is, among females parturition as a death factor is second only to tuberculosis. And, just as is the case with tuberculosis, deaths from this cause are largely preventable.

As a second important feature, the table shows that there is a decidedly higher death rate among operatives than among nonoperatives from parturition, and that the rate from parturition complicated with tuberculosis is enormously higher among the operatives.

Finally, as to race, it appears that deaths from parturition complicated with tuberculosis are relatively most frequent among the Irish, from parturition without such complication among the "Other races," while the highest death rate from both kinds combined is found among the Irish.

It is interesting to note concerning mortality from miscellaneous or unclassified causes that the hazard from these causes was precisely the same in Fall River during three years and in the three cities for one year—0.49 per 1,000 population. Females had a greater death

hazard than males, and female nonoperatives than female operatives. And excepting Irish male nonoperatives, each occupation class of the Irish had a smaller death rate from these unclassified causes than had the corresponding class of the aggregate non-Irish.

Finally, an expected but none the less striking variation appears in the enormously greater liability of males than females in this age group to die from accidental or violent causes. This greater hazard of the males is invariable for all classes except the nonoperative Irish, among whom the females were considerably more liable to die from casualties than were the males. The Irish invariably showed a much higher death rate from this cause than the non-Irish.

It has been shown in the foregoing tables that in the age group 15 to 44, a group in which the great majority of operatives are massed, and in which, for operatives and nonoperatives alike mortality should be low, the operative death rate in each locality and for each period studied exceeds the nonoperative, a fact which appears to justify the inference that cotton operative work has an unfortunate influence on the health of those who follow it.

Considering the cotton operative group more closely, it is evident that the excess in their death rate is due to the females, as the male operatives have a lower death rate from nontuberculous causes and all causes combined than the nonoperatives. But this excess of the female death rate is peculiar to this group, as in the general population the male rate is slightly, and in the nonoperative population materially higher than the female.

As compared with others of their own sex, the female operatives in each locality showed a markedly higher death rate than the nonoperatives. This excess was most marked in the deaths from tuberculosis, though it appears also in the deaths from other causes (except in the rates for the three cities for one year, where the nonoperatives have a slight excess). In other words, female operatives show a susceptibility to tuberculosis not only much greater than nonoperatives display, but than they themselves exhibit to other causes of death.

This excess in the death rate of female operatives over nonoperatives is not a matter of age, since if there is any difference between the two classes, the operatives have a larger proportion in the lower age groups, and might therefore be expected to show the lower rate. Nor is it an accident of locality or time, since it appears in each place and for each period studied. Neither is it a matter of race. In regard to deaths from tuberculosis, each race in each locality and for each period shows a higher—and generally a very much higher—rate among operatives than among nonoperatives. In deaths from nontuberculous causes, the Irish twice, the French Canadians once, and the "Other races" once show a nonoperative excess, and in

deaths from all causes combined, the French Canadians once and the "Other races" once show a nonoperative excess. But these exceptions are too few to affect the general situation.

The earlier part of this section seems to establish the facts that cotton operatives in general have a higher death rate than nonoperatives, that female operatives have a higher death rate than male operatives, and a decidedly higher rate than female nonoperatives. And, further, that the excess of their death rate over that of the female nonoperatives is not an accidental or local matter, but is practically constant for every locality and every period, for each race and for both tuberculous and nontuberculous causes of death.

Considering next the causes of this high mortality among female operatives, it became evident that tuberculosis was by far the most important, accounting by itself for somewhat more than two-fifths of the deaths of female operatives (42 per cent in Fall River for three years, 51 per cent in the three cities for one year). Next to tuberculosis came other respiratory diseases, responsible for about one-eighth of the deaths of female operatives, and childbirth, responsible for one-tenth, despite the fact that more than half the operatives are unmarried. These three causes together accounted for practically two-thirds of the female operative deaths, the other third being divided among eight different causes.

CHAPTER III.

MORTALITY IN THE GROUP 10 YEARS OF AGE AND OVER.

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MEASURE OF ANTI-LONGEVITY FORCES.

Within the age group 15 to 44 it is possible to estimate the relative importance of a given cause of death by the number of its victims per 1,000 of the population—that is, by its death rate—without too close consideration of the precise age at which life ended. For within that age group all should be in full strength and vigor, and any death occurring in that age group is in a sense premature, a destruction of potentialities of service to the State for years to come. But in the general population a different situation prevails, and the death rate from a given cause will not alone show its real importance. Thus among the females 10 years of age and over of Fall River, the death rate from tuberculosis is 1.09, and the death rate from senility is 0.75. It is self-evident that the difference between these two rates is no measure of the difference in real importance of the two causes, since senility as a cause of death is effective only among the aged or the worn out, while tuberculosis found four-fifths of its female victims in Fall River among those aged 15 to 44. Plainly, age at death is the important consideration in deciding upon the relative weight which should be assigned to the various causes of death.

Moreover, age at death is also important as furnishing a measure of the relative effect of various causes which may modify length of life. There are a number of experiences or accompanying circumstances of life which may have a decided effect upon its duration; such, for instance, as climate, diet, race, habits, occupation, and the like. So far as these favor or oppose longevity it is possible to compare them by means of a study of age at death or of age group death rates. It may be tentatively assumed that when such a circumstance is constantly found present at death it has some significance as a possible active factor in causing death—that is, constant incidence may be assumed to imply causative significance. But evidently the greater the age at death accompanied by a given factor, the less the effect of that factor in shortening life, and, conversely, the lower the age at death the more actively detrimental is that factor.

Take, for instance, such a factor as occupation, which obviously may have an effect upon longevity. If the average age at death of cotton operatives is less than that of nonoperative decedents from a

disease, as tuberculosis, which roughly restricts the upper limits to an age group in which both occupation classes are roughly comparable, the fact furnishes at least a tentative implication that the occupation is inimical to long life, and the degree to which cotton operatives fall below the average age of nonoperative decedents may be looked upon as a rough measure of the effectiveness of such work as an antilongevity force.

The average age at death, however, can not safely be used except in connection with age group death rates. To illustrate: In Fall River and Pawtucket both for one year and three years the average age at death of the Irish is the same or slightly greater than that of the English, but it is not safe to judge from this fact that the living conditions of the two races are equally conducive to longevity. On the contrary, an examination of their respective death rates shows that the English were dying only one-half as fast as the Irish. This seeming anomaly is explained by the fact that while the two races had about the same number of deaths among the young and the old, the Irish had a large extra mortality in the medium age group. The latter decedents do not alter the average longevity, since each died very nearly at the average age at death of the whole group, but they strikingly increase the death rates for these middle years.

On the other hand, the death rate for all "10 years and over" is likewise incomplete and, considered by itself, may mislead. Two race or sex groups, for instance, may have the same death rates, yet the deaths of one may occur principally in youth, and those of the other may be largely among the high age groups. A wrong deduction, therefore, is always possible when considering an age group embracing a long period, unless the age at death and the death rate are considered together.

Further, it becomes apparent that even considered together death rates and average age at death do not give the full truth unless applied to a comparatively brief period. Take, for instance, the case of the English and Irish before cited, and suppose that the Irish death rate had decreased to the English figure but that their deaths had all, instead of most of them, occurred in the middle age group. Then for the total population aged 10 years and over the English and Irish death rates and average age at death would have been the same, yet the real meaning and economic effect of their deaths would have been vastly different. For among the English the deaths, occurring largely in the unproductive years at the extremes of life, would have been comparatively unimportant, whereas among the Irish the deaths, occurring within the period of greatest human efficiency—30 to 44 years—would have meant very serious economic losses.

In fact, the real significance of mortality statistics can be obtained only by considering death rates within a strictly limited period,

because when this is done there is no opportunity either for marked variations in the age distribution of the populations compared, or for any great difference in the value of the years lost by death. When a long period must be considered, the chance of error is lessened by studying both death rate and average age at death, but the results are at best unsatisfactory.

The average age at death, however, taken by itself may give instructive and valuable results when applied to the deaths from a disease like tuberculosis, almost all of which occurs in an age group of which the lower limit is approximately 15 and the upper 49 years.

Cotton-mill operatives, too, form an age group covering for females almost identically the same years as does tuberculosis, and covering for males 10 years longer. Age averages for the whole operative group, therefore, have value, though it must be borne in mind that their significance varies inversely with the size of the numbers constituting the extremes of the group, and with the length of the period included.

Tables 4, 61, 89, 90, and 91 give the average age at death, by sex and race, for the decedent cotton-mill workers of each city; for the aggregate noncotton working decedents of each city; for decedents of each specific mill occupation; and for each of twelve fatal disease groups.

No effort will be made to draw any deductions from these figures, which are inserted only for the purpose of giving a complete view of the sex, race, and occupational mortality.

DISTRIBUTION OF POPULATION AND DEATHS, BY AGE.

The tables given in Chapter IV present full details of the age distribution in each of the three cities studied, but for the sake of convenience only the population of Fall River and of the three cities combined will be considered at present. For these, Tables 41 and 42 give the number and per cent which each ten-year age group forms of the total in each sex and occupation group in 1906.^a

The most immediately striking feature of these tables is the similarity in the distribution by age of the population of Fall River and of the three cities combined. For the general population this similarity amounts almost to identity. In the subgroups the greatest difference is in the proportion of nonoperatives in the age group 10 to 14 years. Even here the difference is so small that for all the distribution may be considered the same.

As between males and females the age distribution is almost the same. The males show a slightly larger proportion of their number in the age group 10 to 14 years, which is offset by the next age group in which the females have a slightly larger proportion of their total number.

^a See also Table 6.

Comparing operatives with nonoperatives it is evident that the operatives are massed in the younger adult groups, while the nonoperatives are distributed more evenly through the different groups. This, of course, was to be expected. In the communities studied legal restrictions make it inevitable that there should be comparatively few operatives under 15, while the effect of advancing years makes it certain everywhere that there will not be many in the older age groups.

The variation of the death rates with age requires little comment; naturally they are low among the youthful and high among the aged. It is worth noticing, however, that while the death rate from all causes, and from all nontuberculous causes, increases with a certain uniformity, the rate for each age period being higher than for the preceding period, the death rate from tuberculosis reaches its maximum in the age group 30 to 34 years (see Table 6), and thereafter falls off noticeably. And yet it is important to bear in mind that there is no enormous^a difference in the liability to death from tuberculosis between one age and another, tuberculosis thus presenting a striking contrast to the rule that obtains respecting the nontuberculous causes of death.

DISTRIBUTION OF POPULATION AND DEATHS, BY SEX.

In both Fall River and the three cities combined females form 53 per cent and males 47 per cent of the population. Table 41 shows that the male death rate from tuberculosis is decidedly higher than the female rate for the whole population, and is also with few exceptions higher in each of the age groups. The male death rate from nontuberculous causes is on the whole lower than the female rate. The male and female death rates from all causes are very nearly the same for the whole population, but in Fall River the males lead in four, and in the three cities in five of the seven age groups. On the whole there seems a tendency for the male death rate to exceed the female—a tendency which harmonizes with mortality statistics as observed elsewhere.

Among operatives this relation is very generally reversed. The death rate of female operatives from tuberculosis everywhere exceeds that of the male operatives; from nontuberculous causes it exceeds the male rate in eight of the fourteen age group comparisons, and from all causes combined it exceeds the male rate in nine cases out of four-

^a In the whole population of the three cities during 1905 to 1907 the liability to death from tuberculosis in the senile period, 65 years and over, per 1,000 of population, was 1.61, as compared with 3.19 that obtained as the hazard therefrom in its most active age period, 30 to 34. Thus the age at which fatal tuberculosis was commonest had only about double the death hazard from tuberculosis suffered even by the senile group.

teen. In other words, in the localities studied, the death rate of female operatives tends to exceed the death rate of male operatives as commonly as the male death rate in the general population tends to exceed that of the females.

If, instead of taking the age groups separately, the whole population be considered, Table 4 shows that both among the nonoperatives and in the general population the male death rate exceeds the female in each city studied, but that in regard to operative death rates Manchester offers a striking contrast to the other two. In both Fall River and Pawtucket the death rate of female operatives exceeds that of males, but in Manchester male operatives have a decided lead. Moreover, the death rate of the male operatives is higher, and of the female operatives lower, than in either of the other cities; that is, the mortality of male operatives is greater and of female operatives less in Manchester than in either Fall River or Pawtucket.

For the unusually high mortality among the males no explanation can be offered. Concerning the abnormal diminution of deaths among the female operatives, it may be noted that nearly three-fourths (70 per cent) of all the Manchester female operatives were unmarried; that nearly one-half were French Canadians; that Manchester is only about a hundred miles from the Canadian border; and that the most prevalent disease among cotton-mill operatives—tuberculosis—is notoriously of long duration.

Mention has already been made of the fact that cotton-mill operatives, and naturally unmarried females in particular, when stricken with a chronic disease such as tuberculosis, not infrequently die at their childhood homes outside the cotton-mill city in which they had lately been employed, and that thus they escape statistical enumeration as decedent operatives of that city. The facts noted above make it seem probable that in Manchester these unenrolled deaths would naturally be more numerous among the female than the male operatives, that they would also probably be more numerous than among the female operatives of the other two cities, and might easily in themselves account for the relatively low death rate of this class—for only a dozen deaths distributed through the three years would bring the relative mortality of the sexes among the Manchester operatives into harmony with that which prevails elsewhere. This explanation is not susceptible of proof from the data at hand, but nevertheless it is offered for consideration.

DISTRIBUTION OF POPULATION AND DEATHS, BY OCCUPATION.

The following table shows the general distribution in 1906 of that part of the population engaged in manufacturing in the three cities studied:

NUMBER AND PER CENT IN EACH CITY OF MALES AND FEMALES 16 YEARS OF AGE AND OVER, AND OF CHILDREN ENGAGED IN COTTON MANUFACTURE, ALL OTHER MANUFACTURE, AND IN TOTAL MANUFACTURE, FOR FALL RIVER, MANCHESTER, AND PAWTUCKET.

[From Special Reports of Census Office, Manufactures, 1905, Part II, pp. 475, 642, 1012; and from data secured from cotton mills, 1908.]

City.	Population engaged in manufacture.							
	Number.				Per cent.			
	16 years of age and over.		Children under 16 years of age.	Total.	16 years of age and over.		Children under 16 years of age.	Total.
	Males.	Females.			Males.	Females.		
Cotton manufacture, 1905:								
Fall River, Mass.....	10,465	10,058	1,081	21,604	61	59	63	60
Manchester, N. H.....	4,860	4,813	211	9,884	29	28	13	28
Pawtucket, R. I.....	1,744	2,270	415	4,429	10	13	24	12
Total.....	17,069	17,141	1,707	35,917	100	100	100	100
All other manufacture, 1905:								
Fall River, Mass.....	4,013	1,050	160	5,232	29	17	25	26
Manchester, N. H.....	4,942	2,625	128	7,695	36	42	20	37
Pawtucket, R. I.....	4,760	2,510	355	7,625	35	41	55	37
Total.....	13,715	6,194	643	20,552	100	100	100	100
Total manufacture, 1905:								
Fall River, Mass.....	14,478	11,117	1,241	26,836	47	48	53	48
Manchester, N. H.....	9,802	7,438	339	17,579	32	32	14	31
Pawtucket, R. I.....	6,504	4,780	770	12,054	21	20	33	21
Total.....	30,784	23,335	2,350	56,469	100	100	100	100
Cotton manufacture, 1908:								
Fall River, Mass.....	12,451	11,372	1,335	25,158	69	61	74	65
Manchester, N. H.....	3,918	4,852	258	9,028	22	26	14	24
Pawtucket, R. I.....	1,549	2,499	214	4,262	9	13	12	11
Total.....	17,918	18,723	1,807	38,448	100	100	100	100

The per cent which cotton-mill operatives form of the total manufacturing population in each of the three cities is shown in the following table; adults 16 years of age and over, by sex, and children under 16 years.

PROPORTION OF TOTAL MANUFACTURING POPULATION EMPLOYED IN COTTON MILLS, 1905.

City.	Per cent cotton-mill employees form of total manufacturing population.			
	16 years of age and over.		Children under 16 years of age.	Total.
	Males.	Females.		
Fall River, Mass.	72	91	87	81
Manchester, N. H.	50	85	62	56
Pawtucket, R. I.	27	47	54	37
Total.....	55	73	73	64

A striking point brought out by this table is the extent to which, especially in Fall River, the women who are industrially employed tend to be found in the cotton mills. In Fall River this industry almost monopolizes the females over 16 who take up manufacturing work, not quite 1 in 10 of them being found in other manufactures. Pawtucket is the only one of the three cities in which cotton manufacture does not take its dominant position. In that city the cotton mills employ less than one-half of the females and but little over one-quarter of the males 16 years of age and over who follow manufacturing pursuits.

Another point of interest in the situation at Fall River brought out more clearly by the data furnished by the mills for 1908 than by the census figures of 1905, is the excess of males among the operatives. In both the other cities the males 16 years and over were in 1908 outnumbered by the females, who in Manchester furnished 55.3 per cent and in Pawtucket 61.7 per cent of the operatives 16 years of age and over, while in Fall River they formed only 47.7 per cent.

SPECIFIC COTTON-MILL OCCUPATIONS.

From every cotton mill in each of the cities studied schedules were received, signed usually by the individual mill superintendents, giving the total number of distinctively cotton workers who were on the pay rolls early in 1908, and classifying them by sex, by age (under 16 or 16 years and over), by workroom where employed, and by the specific occupation or work performed by each. In Manchester and Pawtucket this enumeration was taken during the financial depression, but in Fall River was taken before it began. Apparently this made very little difference in the numbers reported. In one of the largest mills in Fall River a second report, to replace data then thought lost, was taken in the midst of the financial depression five months after the first enumeration, and showed a variance of less than a score from the aggregate total of the first report.

As a check upon the accuracy of these reports the figures so obtained were compared with those of the United States census of 1905 and with those collected by the Immigration Commission in 1909. In general the correspondence between these three sets of figures was very close, no differences appearing beyond what were fully accounted for by the difference in dates.

In Manchester, however, the number of operatives reported appears to vary in the sex totals of the different censuses more than it does in other cities investigated; possibly because cotton and woolen manufacturing, together with dyeing, bleaching, and finishing, are all carried on by the same corporation. In this city also the census figures for males are at marked variance with those given to the writer, doubtless because this study is dealing with strictly cotton operatives only, and not with the total pay-roll number of mill employees. These sex totals for Manchester are as follows:

NUMBER OF MALE AND OF FEMALE COTTON-MILL OPERATIVES IN MANCHESTER, N. H., AS REPORTED IN 1905 AND 1908.

Source of data.	Males.	Females.	Total.
United States Census of Manufactures, 1905.....	4,966	4,918	9,884
Special mill reports from pay rolls, 1908.....	4,090	4,938	9,028

An examination of the schedules gathered by the Immigration Commission in 1909 showed that 16.8 per cent of the male employees on the pay rolls of the Manchester mills did not belong to the class to which in this report the term cotton operative is confined; that is, though employed about cotton mills, they were not engaged in any of the processes peculiar to cotton manufacturing, and the conditions of their work were much what they would have been in any other kind of establishment. Assuming that the same rate prevailed in 1905, it would be necessary to deduct 834 from the census figures for males in order to get the number which might fairly be compared with the cotton operatives listed on the special reports in 1908. Making this deduction it appears that in 1905 there were 4,132 male cotton operatives as compared with 4,090 in 1908. In view of the period of depression in which the 1908 reports for Manchester were taken, this difference does not seem unreasonable.

Since there are practically no female mill employees (except possibly a few office clerks) to be excluded from the pay roll list given in the 1905 census of manufactures, it might be expected that the special mill reports of 1908 would approximate closely to the figures of 1905 as far as females are concerned, which is actually the case.

This close correspondence of the figures of 1905 and those furnished by the special reports from the mills made in 1908 seems to furnish

good assurance that the mill population figures herein used for computing the operative death rates of Manchester for the years 1905, 1906, and 1907 represent very closely the true operative population for that period.

The percentage distribution of all cotton operatives in the cities studied is shown by sex for each mill trade and for each workroom in Table 59.

DISTRIBUTION OF POPULATION AND DEATHS, BY RACE.

Regarding the population of the three cities as one group, and classifying its members as to race by the birthplace of the father, it appears from Table 1 that the French Canadians and the Americans each constitute about one-quarter (26.2 per cent and 25 per cent, respectively), while the English with 18.9 per cent and the Irish with 18.6 per cent each account for nearly a fifth. Of the remaining tenth (11.3 per cent) the Portuguese, who are found only in Fall River, form something over a third; Germans and Scandinavians, who form a long established, thrifty colony in Manchester, are the next most important races, while Italians, Russians, Greeks, Poles, and Austrians are numerically important in the order mentioned.

In Fall River the Americans and Irish are practically equal in number, each forming less than one-fifth of the population (Americans 18.3 per cent, Irish 17.6 per cent). There is a local idea that the Irish are numerically preponderant in Fall River, due perhaps to the fact that many of the younger Americans are of Irish grandparentage. As a matter of fact, only the "Other races" have a smaller representation than the Irish in the Fall River population.

The French Canadians constitute the largest element of the Fall River population, forming 27 per cent, the English are 22.5 per cent, the Portuguese are 9 per cent, and the other miscellaneous races make up the remaining 6 per cent.

In Manchester the French Canadians are the most numerous, forming 35 per cent of the total population; the Americans form about one-third (31 per cent); the Irish are about half as numerous as the French Canadians (17 per cent); while the English, forming 9 per cent, and the "Other races" with 8 per cent of the population are relatively unimportant groups.

A third of the Pawtucket population are Americans, of whom a considerable proportion are of Irish grandparentage; the English and Irish are nearly equal, forming respectively 24 and 23 per cent of the population; the French Canadians, who form the largest group in both Fall River and Manchester, here form only 12 per cent, and the "Other races" only 8 per cent of the population.

It is evident that of the three cities Fall River not only has by far the largest population, but that this population is far more equally

distributed among the five race groups than in either of the other cities. When to this is added the fact that by far the greater number of the workers of the community are engaged in the same industry—cotton-mill work—it is evident that Fall River offers unusual advantages for a comparative study of the mortality of operatives and non-operatives in the different race groups.

The population of the three cities combined shows 11,002 more females than males, females being the more numerous in each city studied. As a rule they form also the larger portion of each race group, but this rule finds an exception in the "Other races." Among these, as might be expected in a group composed in the main of newly immigrant races, the males are slightly the more numerous, constituting 51.1 per cent of the whole number. Among the Irish, on the other hand, the prevailing relation appears in an exaggerated degree, the females constituting 57.4 per cent of the total. The race groups of the different cities do not present any noticeable variations from the conditions prevailing in the combined population.

What is especially noteworthy, therefore, concerning race population is the basic fact that everywhere females constitute much the larger sex percentage of the total Irish population; and the less important basic fact that only in the composite group of "Other races" do males outnumber females.

RACIAL DEATH RATES.

Turning to the mortality statistics of the different races, the most salient point is the high death rate of the Irish (see Tables 4 and 6). Except in Manchester, where their rate does not differ greatly from that of the other long resident races,^a the death rate of the Irish from all causes is practically double that of any other race or of all non-Irish races combined. The following shows the death rates from all causes for the Irish and non-Irish:

DEATH RATE PER 1,000 POPULATION OF IRISH AND NON-IRISH RACES, BY CITIES AND SPECIFIED PERIOD.

City and period.	Death rate per 1,000 population.	
	Irish.	Non-Irish.
Fall River:		
1 year.....	24.15	10.22
3 years.....	22.29	9.20
Manchester, 1 year.....	17.46	12.41
Pawtucket, 1 year.....	27.60	12.88
Three cities, 1 year.....	23.17	11.40

^a Manchester presents another peculiarity in its Irish death rate. In the other two cities the Irish non-operatives show a much higher death rate than the operatives, but in Manchester this relation is reversed, the operatives showing a much higher and the nonoperatives a much lower rate than elsewhere.

An examination of the tables shows that this high death rate of the Irish reaches its maximum in the male sex, among whom startlingly high rates prevail in early mid-life (see Table 6), and that in the main the nonoperatives are responsible for the greater part of this excess mortality. In Fall River for three years the Irish male operatives show the higher mortality in the younger age groups, but with the group aged 35 to 39 years the nonoperatives come to the front with a death rate more than five times that of the operatives, and thenceforward the nonoperative excess is very large. In the three cities for one year the male nonoperatives show a large excess over the operatives, except in the age groups 25 to 29 years and 65 years and over. The excess is so marked in early middle life that the following table is given to show the comparative mortality of Irish operatives and nonoperatives of each sex compared with one another and with the non-Irish in the group aged 30 to 39 years.

NUMBER OF DEATHS AND RATE PER 1,000 POPULATION (1 YEAR AND 3 YEARS) OF IRISH AND NON-IRISH MALE AND FEMALE OPERATIVES AND NONOPERATIVES IN THE AGE GROUP 30 TO 39 YEARS DYING FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FOR FALL RIVER, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED.

MALES.

	Deaths from tuberculosis.		Deaths from nontuberculous causes.		Total.		Total deaths, all races.
	Irish.	Non-Irish.	Irish.	Non-Irish.	Irish.	Non-Irish.	
OPERATIVES.							
Fall River, 1 year:							
Number of deaths.....	5	10	4	5	9	15	24
Rate per 1,000.....	8.76	3.95	7.00	1.98	15.76	5.93	7.74
Fall River, 3 years:							
Number of deaths.....	11	24	12	20	23	44	67
Rate per 1,000.....	6.42	3.16	7.01	2.64	13.43	5.80	7.20
Three cities, 1 year:							
Number of deaths.....	6	14	6	10	12	24	36
Rate per 1,000.....	7.68	4.01	7.68	2.86	15.36	6.87	8.42
Three cities, 3 years:							
Number of deaths.....	13	32	18	29	31	61	92
Rate per 1,000.....	5.55	3.05	7.68	2.77	13.23	5.82	7.18
NONOPERATIVES.							
Fall River, 1 year:							
Number of deaths.....	11	8	16	19	27	27	54
Rate per 1,000.....	15.45	1.86	22.47	4.41	37.92	6.27	10.76
Fall River, 3 years:							
Number of deaths.....	29	26	36	59	65	85	150
Rate per 1,000.....	13.58	2.01	16.85	4.57	30.43	6.58	9.96
Three cities, 1 year:							
Number of deaths.....	25	17	33	47	58	64	122
Rate per 1,000.....	12.45	1.67	16.43	4.62	28.88	6.29	10.02
Three cities, 3 years:							
Number of deaths.....	60	54					
Rate per 1,000.....	9.96	1.77					
TOTAL OPERATIVES AND NONOPERATIVES.							
Fall River, 1 year:							
Number of deaths.....	16	18	20	24	36	42	78
Rate per 1,000.....	12.47	2.63	15.59	3.51	28.06	6.14	9.61
Fall River, 3 years:							
Number of deaths.....	40	50	48	79	88	129	217
Rate per 1,000.....	10.39	2.44	12.47	3.85	22.86	6.29	8.91
Three cities, 1 year:							
Number of deaths.....	31	31	39	57	70	88	158
Rate per 1,000.....	11.12	2.27	13.97	4.17	25.09	6.44	9.61
Three cities, 3 years:							
Number of deaths.....	73	86					
Rate per 1,000.....	8.72	2.10					

108 CAUSES OF DEATH AMONG COTTON-MILL OPERATIVES.

NUMBER OF DEATHS AND RATE PER 1,000 POPULATION (1 YEAR AND 3 YEARS) OF IRISH AND NON-IRISH MALE AND FEMALE OPERATIVES AND NONOPERATIVES, ETC.—Continued.

FEMALES.

	Deaths from tuberculosis.		Deaths from nontuberculous causes.		Total.		Total deaths, all races.
	Irish.	Non-Irish.	Irish.	Non-Irish.	Irish.	Non-Irish.	
OPERATIVES.							
Fall River, 1 year:							
Number of deaths.....	3	11	7	13	10	24	34
Rate per 1,000.....	3.96	6.72	9.25	7.94	13.21	14.16	14.20
Fall River, 3 years:							
Number of deaths.....	12	20	18	32	30	52	82
Rate per 1,000.....	5.28	4.07	7.93	6.52	13.21	10.59	11.42
Three cities, 1 year:							
Number of deaths.....	10	14	10	16	20	30	50
Rate per 1,000.....	7.88	5.11	7.88	5.83	15.76	10.94	12.47
Three cities, 3 years:							
Number of deaths.....	25	27	24	37	49	64	113
Rate per 1,000.....	6.57	3.28	6.30	4.50	12.87	7.78	9.39
NONOPERATIVES.							
Fall River, 1 year:							
Number of deaths.....	4	7	4	24	8	31	39
Rate per 1,000.....	4.54	1.32	4.53	4.52	9.07	5.84	6.30
Fall River, 3 years:							
Number of deaths.....	10	20	20	71	30	91	121
Rate per 1,000.....	3.78	1.26	7.56	4.46	11.34	5.72	6.52
Three cities, 1 year:							
Number of deaths.....	13	17	18	60	31	77	108
Rate per 1,000.....	5.70	1.49	7.90	5.28	13.60	6.77	7.91
Three cities, 3 years:							
Number of deaths.....	26	46					
Rate per 1,000.....	3.80	1.35					
TOTAL OPERATIVES AND NONOPERATIVES.							
Fall River, 1 year:							
Number of deaths.....	7	18	11	37	18	55	73
Rate per 1,000.....	4.27	2.59	6.71	5.33	10.98	7.92	8.51
Fall River, 3 years:							
Number of deaths.....	22	40	38	103	60	143	203
Rate per 1,000.....	4.47	1.92	7.73	4.95	12.20	6.87	7.88
Three cities, 1 year:							
Number of deaths.....	23	31	28	76	51	107	158
Rate per 1,000.....	6.48	2.20	7.89	5.38	14.37	7.58	8.94
Three cities, 3 years:							
Number of deaths.....	51	73					
Rate per 1,000.....	4.79	1.72					

TOTAL, MALES AND FEMALES.

OPERATIVES.							
Fall River, 1 year:							
Number of deaths.....	8	21	11	18	19	39	58
Rate per 1,000.....	6.02	5.04	8.29	4.32	14.31	9.36	10.56
Fall River, 3 years:							
Number of deaths.....	23	44	30	52	53	96	149
Rate per 1,000.....	5.77	3.52	7.53	4.16	13.30	7.68	9.04
Three cities, 1 year:							
Number of deaths.....	16	28	16	26	32	54	86
Rate per 1,000.....	7.80	4.49	7.81	4.17	15.61	8.66	10.38
Three cities, 3 years:							
Number of deaths.....	38	59	42	66	80	125	205
Rate per 1,000.....	6.18	3.15	6.83	3.53	13.01	6.68	8.25
NONOPERATIVES.							
Fall River, 1 year:							
Number of deaths.....	15	15	20	43	35	58	93
Rate per 1,000.....	9.41	1.56	12.55	4.47	21.96	6.03	8.30
Fall River, 3 years:							
Number of deaths.....	39	46	56	130	95	176	271
Rate per 1,000.....	8.16	1.60	11.71	4.50	19.87	6.10	8.06
Three cities, 1 year:							
Number of deaths.....	38	34	51	107	89	141	230
Rate per 1,000.....	8.86	1.58	11.90	4.97	20.76	6.55	8.90
Three cities, 3 years:							
Number of deaths.....	86	100					
Rate per 1,000.....	6.69	1.55					

NUMBER OF DEATHS AND RATE PER 1,000 POPULATION (1 YEAR AND 3 YEARS) OF IRISH AND NON-IRISH MALE AND FEMALE OPERATIVES AND NONOPERATIVES, ETC.—Concluded.

TOTAL, MALES AND FEMALES—Concluded.

	Deaths from tuberculosis.		Deaths from nontuberculous causes.		Total.		Total deaths, all races.
	Irish.	Non-Irish.	Irish.	Non-Irish.	Irish.	Non-Irish.	
TOTAL OPERATIVES AND NONOPERATIVES.							
Fall River, 1 year:							
Number of deaths.....	23	36	31	61	54	97	151
Rate per 1,000.....	7.87	2.61	10.61	4.43	18.48	7.04	9.04
Fall River, 3 years:							
Number of deaths.....	62	90	86	182	148	272	420
Rate per 1,000.....	7.07	2.18	9.81	4.40	16.88	6.58	8.38
Three cities, 1 year:							
Number of deaths.....	54	62	67	133	121	195	316
Rate per 1,000.....	8.52	2.23	10.57	4.79	19.09	7.02	9.26
Three cities, 3 years:							
Number of deaths.....	124	159					
Rate per 1,000.....	6.52	1.91					

Some suggestion of at least one cause of the excessive mortality among the Irish nonoperatives may be found in the fact that in one of the nonoperative occupations in Fall River, liquor dealing, over one-half (52.1 per cent) of all the bartenders had characteristically Irish names.^a The death rate among Irish bartenders (the race of the decedents being determined by the birthplace of their fathers) for the three-year period was from tuberculosis, 40.10, and from all causes 52.63,^b while among the non-Irish bartenders the rate from tuberculosis was 8.19, and from all causes 24.59—a rate which, though admittedly upon an unscientific population basis, is yet probably not grossly misleading.

There is an often quoted saying that sobriety in regard to alcohol is characteristic of bartenders. According, however, to the testimony of the friends and intimates of the Irish bartenders of Fall River who had died during the three years studied, the exceptions to this rule were so numerous as almost to establish its converse. Certainly they were sufficiently numerous to justify the belief that intemperance is a common debilitating cause of the prodigious death rate among Fall River bartenders, of whom the Irish form a large proportion.

But the bartender death rate is insufficient of itself to account for the excessive death rate of the male nonoperative Irish, and no explanation of it can be found in the data at present available. There seems no room for question, however, that for both operative and nonoperative Irish males the death rate was unfavorably affected by intemperate habits, and since the reports showed that such habits were more common among Irish decedents than among those of any other

^a Poll tax list, 1908.^b Population 133, deaths 21.

race,^a some part of the high mortality of Irish as compared with non-Irish males may be explained by this cause.

The Irish females, though not showing such strikingly high death rates as the males, still have much higher rates than those prevailing among the females of the other race groups. This excess does not appear in the youngest groups where, indeed, the mortality among Irish females is less than that for all races combined,^b but from twenty-five years onward the Irish lead in every age group, as well as in the total population 10 years old and over.

There is no information available to show whether any part of this excess mortality may be attributed to intemperance, since the inquiry into the alcoholic habits of decedents was not begun until after the schedules for female decedents had been filled out.

The occupational distribution of the races may throw some light upon the Irish female mortality. The following table, based upon the census of 1900 (Occupations, p. 560), shows the percentages of females of leading races in Fall River who were industrially engaged:

NUMBER AND PER CENT OF TOTAL FEMALE POPULATION 10 YEARS OF AGE AND OVER OF FEMALE WORKERS ENGAGED IN COTTON MANUFACTURE, OTHER MANUFACTURE, AND IN ALL OTHER GAINFUL OCCUPATIONS, BY RACE, FOR FALL RIVER.

Race. ^c	Female workers 10 years of age and over engaged in—								Total female population 10 years of age and over.	Total female population, all ages.
	Manufacture.				Other gainful occupations.	All occupations. (Total.)				
	Cotton.		Other than cotton.							
	Number.	Per cent of total female population 10 years of age and over.	Number.	Per cent of total female population 10 years of age and over.	Number.	Per cent of total female population 10 years of age and over.	Number.	Per cent of total female population 10 years of age and over.		
Irish, total number..	2,728	29.3	1,046	11.3	1,108	11.9	4,882	52.5	9,305	11,867
NON-IRISH.										
American.....	390	6.6	333	5.6	809	13.7	1,532	25.9	5,913	7,539
English.....	3,101	29.1	708	6.6	652	6.1	4,461	41.8	10,679	13,616
French-Canadian and French.....	4,324	32.3	905	6.8	442	3.3	5,671	42.4	13,376	17,058
Other races:										
Portuguese.....	607	28.5	123	5.8	68	3.2	798	37.5	2,128	2,715
Miscellaneous....	225	15.9	66	4.6	93	6.6	384	27.1	1,417	1,808
Total.....	832	23.5	189	5.3	161	4.6	1,182	33.4	3,545	4,523
Non-Irish, total number.....	8,647	25.8	2,135	6.4	2,064	6.1	12,846	38.3	33,513	42,736
Total, Irish and non-Irish.....	11,375	26.6	3,181	7.4	3,172	7.4	17,728	41.4	42,818	54,603

^a For the figures concerning intemperance among decedents of each race, see pp. 142, 143.

^b See rates for total female population by race and age groups, Table 6.

^c American means having both parents native; each specified other race means having either both parents born in the country indicated or one parent so born and the other parent native.

This table shows that Irish females composed a considerably larger proportion of the women workers than the females of any other race, but that the proportion of Irish females engaged in cotton operative work was practically the same as that of the English, and smaller than that of the French Canadians. It is a reasonable inference that the large proportion of Irish females engaged in industrial pursuits may account for their correspondingly very high death rate, yet, unless it develops that they concentrate in the least healthful departments of the cotton mill, it must be tentatively assumed that cotton mill work is not immediately responsible for the excessive female Irish death rate.

This assumption is borne out by a comparison of the death rates of female operatives and nonoperatives of the several races. Irish females, after the age of 25 years, generally have a higher death rate than the non-Irish, but the discrepancy is less in the operative than in the nonoperative group. In other words, the influence of operative work, which in every race group raises the death rate of female operatives above that of nonoperatives, is less marked among the Irish than among the combined races. The following summary, drawn from Table 6, giving the death rates of Irish female operatives and nonoperatives compared with the corresponding rates for all races, shows how much more closely the death rates of the two classes of operatives approximate than do those of the nonoperatives.

DEATH RATES PER 1,000 FROM ALL CAUSES IN EACH SPECIFIED AGE GROUP OF IRISH AND OF ALL FEMALE OPERATIVES AND NONOPERATIVES, FOR FALL RIVER, 3 YEARS; AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED, 1 YEAR.

Age group and race.	Death rate per 1,000 from all causes of females in—			
	Fall River, 3 years.		Three cities, 1 year.	
	Operatives.	Nonoperatives.	Operatives.	Nonoperatives.
10 to 14 years:				
Irish		0.33	33.33	0.49
All races	1.44	2.00	6.62	2.72
15 to 19 years:				
Irish	5.67	2.20	1.90	2.20
All races	4.91	2.85	4.02	4.17
20 to 24 years:				
Irish	3.92	3.57	6.36	2.98
All races	5.68	3.07	7.63	3.58
25 to 29 years:				
Irish	11.73	7.36	15.40	10.32
All races	7.66	5.40	8.11	5.99
30 to 34 years:				
Irish	10.22	15.73	9.00	14.99
All races	11.30	7.09	12.81	7.45
35 to 39 years:				
Irish	17.02	6.86	23.26	12.05
All races	11.57	5.90	12.05	8.41
40 to 44 years:				
Irish	16.99	20.44	11.82	21.38
All races	14.57	7.61	11.46	7.83
All ages, 10 to 44 years:				
Irish	11.66	25.54	13.46	24.19
All races	8.20	12.77	9.08	14.50
All ages, 15 to 44 years:				
Irish	9.52	7.99	11.44	9.32
All races	7.63	5.31	8.11	6.14

It will be noticed that in both Fall River and the three cities the excess of the Irish over the total death rate is greater among the nonoperatives than among the operatives, a situation which seems to indicate that the excessive mortality of Irish as compared with non-Irish females can not be ascribed to any peculiar effect of cotton-mill work upon the Irish constitution.

No doubt some portion of the excess is due to the fact already referred to that a larger proportion of the Irish than of the non-Irish women who are not at work in the mills are engaged in other industrial work. From the table on page 110 it is easy to calculate that of the Irish female nonoperatives 32.8 per cent were engaged in gainful pursuits, while of the same class among the non-Irish only 16.8 per cent were so engaged.

A difference like this might well be reflected in the death rate, but after all there were only 16 per cent more of the Irish than of the other nonoperative females who were industrially engaged, and in the absence of definite proof it is incredible that this fraction could have been engaged in such exceedingly unhygienic pursuits as to account for the whole difference in the death rates of the nonoperative Irish females as compared with the same class in the aggregate female population. Another cause must be sought.

Such a cause is perhaps found in the prevalence of tuberculosis among Irish males. A consideration of the appendix tables already referred to shows that in Fall River for the three-year period the death rate among Irish males from tuberculosis is much higher than among the males of all races combined. Up to 20 years old this is not so, but thereafter for each age period the Irish have a higher tuberculosis rate than any other race or all races combined, and in some of the age groups, notably 30 to 34 and 35 to 39 years, their excess is enormous. In the three cities combined for one year this excess first becomes apparent in the age group 25 to 29 years, and thereafter it occurs constantly, ranging from double to four times the rate for the males of all races.

Since tuberculosis is a communicable disease, its occurrence in a family implies a distinct hazard for the women at home, upon whom naturally devolves the duty of caring for their tuberculously infected kindred. And since tuberculosis is peculiarly and excessively prevalent among Irish males, it follows that Irish females incur a greater risk from this cause than do the females of other races.

These two causes—the greater proportion engaged in industrial pursuits, and their greater exposure to tuberculous infection—may in part explain the high mortality among Irish nonoperative females. They do not suggest any explanation of the excessive death rate among Irish female operatives, which, while not as noticeable as among the nonoperatives, is still very high. Neither is the only

cause suggested for the high male death rate among the Irish sufficient to account for the whole excess. The figures seem to show a racial tendency to high death rates among the Irish in the places and periods studied, for which the data at present available give no adequate explanation.

The death rates of the French Canadians, while not showing such marked peculiarities as those of the Irish, have some unusual features. Regarding the whole group 10 years of age and over, the females show a higher death rate than the males—9.06 for females, 8.45 for males—and this excess is found almost wholly among operative females from 20 to 44 years of age. The death rates for this class are abnormally high, in some of the 5-year age groups surpassing even the rates for the Irish female operatives. For the age group 15 to 44, within which the great majority of female operatives are found, the death rates of the Irish and the French Canadian female operatives are as follows:

DEATH RATES (1 YEAR AND 3 YEARS) IN THE AGE GROUP 15 TO 44 YEARS OF IRISH AND FRENCH CANADIAN FEMALE OPERATIVES, FOR FALL RIVER; AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED.

Age group and locality.	Death rate of female operatives.	
	Irish.	French Canadian.
Age group 15 to 44 years:		
Fall River, 1 year.....	4.55	4.58
Fall River, 3 years.....	4.83	3.72
Three cities, 1 year.....	6.24	4.03
Three cities, 3 years.....	5.37	3.49

This shows an approach in the rates of the two groups, but the real seriousness of the death rate among the French Canadians is better shown by comparing the rates for five-year periods, as in the following table:

DEATH RATES IN EACH SPECIFIED AGE GROUP OF IRISH AND FRENCH CANADIAN FEMALE OPERATIVES, FOR FALL RIVER, 3 YEARS.

Age group.	Death rate of female operatives.	
	Irish.	French Canadian.
10 to 14 years.....		
15 to 19 years.....	5.67	5.51
20 to 24 years.....	3.92	6.61
25 to 29 years.....	11.73	8.20
30 to 34 years.....	10.22	16.13
35 to 39 years.....	17.02	8.75
40 to 44 years.....	16.99	20.60
All ages, 10 to 44 years.....	11.66	8.24

This high death rate among their female operatives does not seem due to any racial peculiarity of the French Canadians, since it does not appear among the nonoperative females nor among the males of either occupation class to any noticeable extent. There is no information available to show that the French Canadians are massed in the less healthful occupations of the cotton mills, and no a priori reason for supposing that this is the case. Possibly some explanation may be found in the notoriously large families of the French Canadians. It may safely be assumed that practically every female operative, married or single, does housework at home in addition to her work in the mills. The large families of the French Canadians would involve for the operative mother the strain of frequent maternity, and for the operative daughters a greater amount of work at home than would fall to the lot of unmarried operatives in smaller households. In both cases the debilitating effect of the extra strain involved would tend to increase the death rate of the operative females.

The composite group of "Other races" shows a death rate lower than the rate for all races combined, or than the rate for any other race group, and this holds true almost without exception for each sex and occupation group.^a The fact that this group consists largely of the newer immigrant races, among whom both the very young and the old are scantily represented, and that necessarily only a comparatively brief time before death each must have been of approved health, probably accounts for this.

The Americans and the English do not, on the whole, present any striking variations from the figures of the general population.

CLASSIFICATION OF FATAL DISEASES.

The causes of death, as certified to by the attending physician, have been classified into 12 groups, which, with the diseases included in each, are as follows:

I. TUBERCULOSIS.—As over 90 per cent of this disease is registered as pulmonary, and since autopsy of the seemingly nonrespiratory cases usually shows foci of tuberculosis in the lungs, and finally because to the pulmonary cases almost entirely is due the spread of the disease, all tuberculosis is herein treated in the aggregate as a wholly pulmonary disease.

II. NONTUBERCULOUS PULMONARY DISEASES.—These are pneumonia and broncho-pneumonia, empyema, asthma, pleurisy, etc.

III. HEART DISEASES.—Diseases of the heart wall and valves, embolism, and pericarditis.

IV. APOPLEXY.—Hemiplegia, "shock," and "paralysis" if decedent is aged 50 years or over; and all deaths from arterial disease;

^a Female operatives of the "Other races" show a slightly higher death rate than for the corresponding class of English, the rates being, respectively, 6.78 and 5.94.

moreover in the South, investigation of many deaths certified as "hemorrhage" proved them invariably to be apoplexy if the decedent was past middle life.

V. NEPHRITIS.—Chronic nephritis (Bright's disease), nonpuerperal uremia, acute nonpuerperal nephritis, calculi.

VI. DISEASES OF DIGESTION.—Diseases of the stomach, liver, and intestines including "intestinal obstruction" (though doubtless many of these latter cases resulted from malignant growths), appendicitis, typhoid fever, alcoholism.

VII. DISEASES OF THE NERVOUS SYSTEM.—Meningitis, insanity, and diseases of the nerves and spinal cord.

VIII. CANCER.—All malignant growths.

IX. PARTURITION.—Diseases of childbirth, including puerperal septicemia and puerperal nephritis (eclampsia). (Parturition complicated with tuberculosis is scheduled as tuberculosis only.)

X. UNCLASSIFIED DISEASES.—Diabetes, cystitis, ovarian tumor, hernia, shock from operation, peritonitis, rheumatism, malaria, and other nontuberculous microbic and infectious diseases, marasmus, "natural causes," general debility, and miscellaneous causes of death.

XI. SENILITY.—"Old age."

XII. ACCIDENT AND VIOLENCE.—Accident, suicide, and homicide.

The deaths and death rates from these causes are given for sex, race, and occupation groups in Tables 48 and 49. In order to show the relative importance of the leading causes of death, the deaths from tuberculosis are contrasted with deaths from all nontuberculous causes, and deaths from respiratory diseases are contrasted with deaths from nonrespiratory diseases.

A comparison of the death rates from these various causes for the whole population aged 10 years and over with the same rates for that part of the population aged from 15 to 44 years shows no noticeable differences, except such as would naturally arise from including a higher age group. Thus, in the population aged 10 years and over, senility is naturally a far more important cause of death than it could be in the younger group; cancer, heart disease, and apoplexy, all diseases of advancing years, account for a greater proportion of deaths, and tuberculosis loses some degree of its importance, being partially outweighed by the numerous deaths from other causes among the older groups.

On account of this similarity no discussion of the death rates for the population aged 10 years and over will be attempted. Instead the leading factors which may influence the death rate will be considered in some detail.

MORTALITY FROM TUBERCULOSIS.

GENERAL DISCUSSION.

The tables already referred to show that for operatives, both in the total population 10 years of age and over, and in the age group 15 to 44 years, tuberculosis is by far the most important cause of death. The relative liability to tuberculosis of the various classes within these two groups does not differ greatly. No age above puberty is even moderately exempt from it, but its greatest activity occurs within the thirty years from 15 to 44. In general, males show a slightly higher death rate from tuberculosis than females, the French Canadians being, however, a marked exception to this generalization. The Irish have the highest, and the Americans and English the lowest death rates from this disease. Cotton operatives have an enormously higher tuberculous death rate than nonoperatives, but among Irish males the situation is reversed. Some of the 5 and 10 year age groups comprised within the total population show minor differences when compared with the group 15 to 44 years. In general, however, conditions are so similar that the discussion of the incidence of tuberculosis given in the preceding sections of the age group 15 to 44 years may be taken as applying to the whole population 10 years of age and over.

Turning then from the incidence of tuberculosis, attention will be given to a series of factors which may to some degree explain its prevalence.

The tables to be used hereafter, except where otherwise stated, are based on the total population 10 years of age and over. Since the tuberculous decedents are distributed throughout all the component age groups, care must be taken when making comparison to contrast only such classes as have approximately equal age at death. Thus males may be legitimately compared with females of the same class (except as hereafter stated), and all operatives may be compared with all who died from tuberculosis, since the average age at death of these classes is not dissimilar, as the following table shows:

AVERAGE AGE AT DEATH (FOR 3 YEARS) OF MALES AND FEMALES 10 YEARS OF AGE AND OVER IN EACH CLASSIFICATION OF DECEDENTS, FOR FALL RIVER, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED.

Classification of decedents and locality.	Average age at death.		
	Males.	Females.	Males and females.
Operatives (decedent from all causes):			
Fall River.....	40	32	36
3 cities.....	40	32	36
Tuberculous decedents (all occupations):			
Fall River.....	37	31	34
3 cities.....	37	32	35
Total decedents:			
Fall River.....	50	51	51
3 cities.....	50	52	51

The immediate cause of tuberculosis is always the same—infection with the tubercle bacilli. But a strong, healthy organism may resist the infection or even overcome the disease after it has been established. Hence, usually in a case of fatal tuberculosis other causes beside the disease germ have been at work, undermining the patient's constitution, decreasing his resistant power, and directly or indirectly aiding the disease first to obtain a foothold, and then to accomplish its work with greater or less rapidity.

Since whatever tends to lower the general vitality may aid the development of tuberculosis, since inherited racial or personal characteristics may induce a greater or less susceptibility to the disease, since economic conditions may play an important part in its dissemination, and since personal and racial habits in regard to diet, housing, and general hygiene may be equally influential, it is evident that the list of factors possibly contributing to the causation of tuberculosis is a long one.

With most of these factors it is impossible to decide to what degree they are harmful. In the following pages some of the leading factors will be presented, and wherever the information available permits, their relative importance will be indicated or their connection with tuberculosis established. Often, however, while common sense and common experience suggest a connection the data which would prove it and measure its degree are lacking.

And first it may be well to take up two matters which, while they can not be called causes of tuberculosis, are often put forward as explanations of its prevalence among the operatives of the cities studied.

The first of these is an alleged tendency to migrate on the part of cotton operatives and a presumed exposure elsewhere to tuberculosis. Operatives, it was said, who were in an advanced stage of tuberculosis not uncommonly visited relatives in the particular city under discussion, and, dying there, swelled unfairly its operative death rate from tuberculosis, although they had never been employed in its mills.

In passing it may be said that the experience gained in this investigation does not tend to confirm this theory. Only three such cases were found among the decedent operatives of the three cities for the three-year period, while on the other hand at least a dozen instances were found in which persons, having contracted tuberculosis while working in the cotton mills of a specified city, had left the city for outside sanatoria or for their childhood homes, where they died soon afterwards.

To put the theory to the test of figures, however, inquiry was made as to the length of time the decedent had lived in the city of his death. In Fall River this information was gained for 92 per cent of the dece-

dents for the three-year period. The following table shows the number and per cent by race of these decedents who had lived there for at least six years before death occurred:

NUMBER OF DEATHS OF MALES AND FEMALES OF EACH RACE, CLASSIFIED AS OPERATIVES AND NONOPERATIVES, DYING FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, AND PER CENT RESIDENT AT LEAST 6 YEARS WITHIN THE CITY BEFORE DEATH, FOR FALL RIVER, 3 YEARS.

[This table represents 92 per cent of total deaths reported in the 3-year period; for the remaining 8 per cent length of residence was not reported.]

MALES.

Classification.	Number of deaths.						Per cent resident at least 6 years within city before death.					
	Amer-ican.	Eng-lish.	Irish.	French.	Other races.	Total.	Amer-ican.	Eng-lish.	Irish.	French.	Other races.	All races.
Operatives:												
Tuberculous.....	6	19	23	28	16	92	.....	68	87	82	75	80
Nontuberculous..	11	63	46	44	23	187	.....	90	91	93	26	84
Total.....	17	82	69	72	39	279	.....	85	90	89	46	83
Nonoperatives:												
Tuberculous.....	19	24	71	19	16	149	79	92	93	79	75	87
Nontuberculous..	127	187	282	138	59	793	91	93	96	88	51	90
Total.....	146	211	353	157	75	942	89	92	95	87	56	89
Total operatives and nonoperatives:												
Tuberculous.....	25	43	94	47	32	241	84	81	91	81	75	85
Nontuberculous..	138	250	328	182	82	980	91	92	95	89	44	88
Total.....	163	293	422	229	114	1,221	90	90	95	87	53	88

FEMALES.

Operatives:												
Tuberculous.....	5	16	39	39	13	112	.....	94	95	87	31	85
Nontuberculous..	11	42	57	54	17	181	.....	79	95	91	29	84
Total.....	16	58	96	93	30	293	.....	83	95	89	30	84
Nonoperatives:												
Tuberculous.....	15	10	32	23	17	97	73	80	97	74	47	77
Nontuberculous..	217	214	392	205	75	1,103	88	87	94	72	45	84
Total.....	232	224	424	228	92	1,200	87	87	94	72	46	83
Total operatives and nonoperatives:												
Tuberculous.....	20	26	71	61	30	209	80	89	96	82	40	81
Nontuberculous..	228	250	449	259	92	1,284	89	86	94	76	42	84
Total.....	248	282	520	321	122	1,493	88	86	94	77	42	84

MALES AND FEMALES.

Operatives:												
Tuberculous.....	11	35	62	67	29	204	.....	80	92	85	55	83
Nontuberculous..	22	105	103	98	40	368	.....	86	93	92	27	84
Total.....	33	140	165	165	69	572	.....	84	93	89	39	84
Nonoperatives:												
Tuberculous.....	34	34	103	42	33	246	76	88	94	76	61	83
Nontuberculous..	347	401	674	343	134	1,896	89	90	95	78	48	86
Total.....	378	435	777	385	167	2,142	88	90	95	78	50	86
Total operatives and nonoperatives:												
Tuberculous.....	45	69	165	109	62	450	82	84	93	82	59	83
Nontuberculous..	366	506	777	441	174	2,264	90	89	94	81	43	86
Total.....	411	575	942	550	236	2,714	89	88	94	81	47	85

Among the "Other races" comparatively a small proportion of the operative decedents had been in Fall River as long as six years before death. These decedents, it must be remembered, were largely Portuguese who were recent immigrants. Before coming to Fall River and entering the mills they had for the most part been agriculturists, so that their brief term of residence can not be ascribed to any operative characteristics.

Taking the operative group as a whole, the proportion who had been in the city at least six years (84 per cent) so nearly approaches the corresponding proportion of nonoperatives (86 per cent) that no theory as to the higher death rate of operatives can be based on the difference. Also, more than three-fourths of the tuberculous operative decedents had been in Fall River six years or more before death, a length of time which renders it very improbable that they had contracted the disease before coming there. There seems no statistical evidence, therefore, either that operatives are more migratory than nonoperatives, or that any considerable number of the operative decedents owed their fatal disease to conditions existing in some other city than Fall River.

Another reason often assigned for the prevalence of tuberculosis in the communities studied is the large proportion of the foreign born in the population. It is assumed either that the foreign born are peculiarly susceptible to tuberculosis or that the change to a new environment and unfamiliar industries affects them disastrously, or that their ways of living are unhygienic or at least so unsuited to New England conditions that they are largely responsible for the high tuberculous death rate.

It is true that the foreign born form a larger proportion of the tuberculous decedents ^a than of the population, but it does not necessarily follow that they are disproportionately susceptible to tuberculosis. The table which follows shows that the proportion of the population in the age group 10 to 14 years is from two to five times as great among the native as among the foreign born. Moreover, the percentage of the total population found within each age group up to 24 years is greater among the native born, after which age it is greater among the foreign born.

^a Combining the totals for males and females shown in the table on page 120 it is found that of the total population (82,367) of Pawtucket in 1905, 44,677, or 54.1 per cent, were foreign born, and of the total population (159,113) of the three cities, 80,274, or 50.5 per cent, were foreign born. As regards tuberculous decedents, Table 53 shows that in Fall River for 1 year 58 per cent and in the three cities for 1 year 52 per cent were foreign born.

120 CAUSES OF DEATH AMONG COTTON-MILL OPERATIVES.

NUMBER AND PER CENT OF NATIVE AND OF FOREIGN BORN POPULATION 10 YEARS OF AGE AND OVER IN EACH SPECIFIED AGE GROUP, BY SEX, FOR FALL RIVER, MANCHESTER, AND PAWTUCKET.

Sex and age group	Fall River. (Census of 1905.)				Manchester. (Census of 1900.)			
	Number.		Per cent.		Number.		Per cent.	
	Native born.	Foreign born.	Native born.	Foreign born.	Native born.	Foreign born.	Native born.	Foreign born.
Males:								
10 to 14 years.....	4,152	921	23.26	4.40	1,718	743	16.08	7.24
15 to 19 years.....	3,367	1,947	18.37	9.30	1,447	1,091	13.54	10.64
20 to 24 years.....	2,324	2,184	13.02	10.43	1,252	1,362	11.72	13.28
25 to 29 years.....	1,882	2,614	10.54	12.49	1,193	1,440	11.17	14.04
30 to 34 years.....	1,609	2,477	9.02	11.83	1,008	1,250	9.44	12.19
35 to 44 years.....	2,094	4,719	11.73	22.54	1,678	1,896	15.70	18.48
45 to 54 years.....	1,345	3,039	7.54	14.52	1,144	1,318	10.71	12.85
55 to 64 years.....	662	1,901	3.71	9.08	651	707	6.09	6.89
65 years and over.....	379	1,130	2.12	5.40	537	436	5.02	4.25
Unknown.....	34	1	.19	.01	57	14	.53	.14
Total.....	17,848	20,933	100.00	100.00	10,685	10,257	100.00	100.00
15 to 44 years.....	11,276	13,941	63.18	66.59	6,578	7,039	61.57	68.63
44 years and over.....	2,420	6,071	13.56	29.01	2,389	2,475	23.36	24.13
Females:								
10 to 14 years.....	4,209	977	21.21	4.11	1,698	774	14.17	6.16
15 to 19 years.....	3,592	2,201	18.10	9.27	1,584	1,456	13.22	11.59
20 to 24 years.....	2,900	2,955	14.62	12.44	1,490	1,967	12.44	15.66
25 to 29 years.....	2,301	2,922	11.60	12.31	1,423	1,825	11.88	14.52
30 to 34 years.....	1,783	2,593	8.99	10.92	1,092	1,360	9.11	10.82
35 to 44 years.....	2,350	4,943	11.84	20.82	1,868	2,267	15.59	18.04
45 to 54 years.....	1,412	3,536	7.12	14.89	1,234	1,505	10.30	11.98
55 to 64 years.....	735	2,212	3.70	9.32	783	859	6.54	6.84
65 years and over.....	556	1,399	2.80	5.89	761	531	6.35	4.23
Unknown.....	4	6	.02	.03	48	20	.40	.16
Total.....	19,842	23,744	100.00	100.00	11,981	12,564	100.00	100.00
15 to 44 years.....	12,926	15,614	65.15	65.78	7,457	8,875	62.24	70.63
44 years and over.....	2,707	7,153	13.64	30.13	2,826	2,915	23.59	23.21
	Pawtucket. (Census of 1900.)				Total, 3 cities.			
Sex and age group	Number.		Per cent.		Number.		Per cent.	
	Native born.	Foreign born.	Native born.	Foreign born.	Native born.	Foreign born.	Native born.	Foreign born.
Males:								
10 to 14 years.....	1,463	247	16.50	4.07	7,333	1,911	19.61	5.13
15 to 19 years.....	1,355	429	15.29	7.07	6,169	3,467	16.50	9.30
20 to 24 years.....	1,268	643	14.31	10.60	4,844	4,189	12.95	11.24
25 to 29 years.....	1,080	729	12.18	12.01	4,155	4,783	11.11	12.84
30 to 34 years.....	827	802	9.33	13.21	3,444	4,520	9.21	12.16
35 to 44 years.....	1,297	1,302	14.63	21.45	5,069	7,917	13.55	21.25
45 to 54 years.....	767	937	8.65	15.44	3,256	5,294	8.71	14.21
55 to 64 years.....	454	613	5.12	10.10	1,767	3,221	4.72	8.64
65 years and over.....	313	306	3.53	6.03	1,229	1,932	3.29	5.19
Unknown.....	41	1	.46	.02	132	16	.35	.04
Total.....	8,865	6,069	100.00	100.00	37,398	37,259	100.00	100.00
15 to 44 years.....	5,827	3,905	65.73	64.35	23,681	24,885	63.32	66.78
44 years and over.....	1,575	1,917	17.76	31.59	6,284	10,463	17.07	28.08
Females:								
10 to 14 years.....	1,528	237	15.89	3.53	7,435	1,988	17.94	4.62
15 to 19 years.....	1,391	476	14.46	7.10	6,567	4,133	15.85	9.61
20 to 24 years.....	1,379	780	14.34	11.76	5,769	5,711	13.92	13.28
25 to 29 years.....	1,211	829	12.59	12.36	4,935	5,576	11.91	12.96
30 to 34 years.....	889	796	9.24	11.87	3,764	4,749	9.08	11.04
35 to 44 years.....	1,385	1,358	14.40	20.25	5,603	8,563	13.52	19.92
45 to 54 years.....	874	1,019	9.09	15.19	3,770	6,060	8.49	14.09
55 to 64 years.....	506	717	5.29	10.69	2,027	3,788	4.89	8.80
65 years and over.....	331	486	4.48	7.25	1,748	2,416	4.22	5.62
Unknown.....	21	.....	.22	.....	73	26	.18	.06
Total.....	9,618	6,707	100.00	100.00	41,441	43,015	100.00	100.00
15 to 44 years.....	6,255	4,248	65.03	63.34	26,638	28,737	64.28	66.81
44 years and over.....	1,335	2,222	19.08	33.13	7,368	12,290	17.78	28.57

But it will be remembered that deaths from tuberculosis are almost lacking in the age group 10 to 14 years, and that the tuberculous hazard for both sexes alike reaches its maximum in the age group 30 to 34. In other words, in the age groups in which tuberculosis least often occurs, the foreigners are scantily and the native born numerously represented, while in the age groups in which tuberculosis is rife these proportions are reversed.

Of the total population aged 15 years and over, the foreign born form the following percentages:

PER CENT OF MALES AND FEMALES FOREIGN BORN IN TOTAL POPULATION 15 YEARS OF AGE AND OVER, FOR FALL RIVER, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED.

Locality.	Per cent of foreign born in total population 15 years of age and over.		
	Males.	Females.	Males and females.
Fall River.....	59.37	59.29	59.32
Three cities.....	54.05	53.26	53.62

Of the total tuberculous decedents during the three-year period, the foreign born form the following percentages:

PER CENT OF TUBERCULOUS MALE AND FEMALE DECEDENTS WHO WERE FOREIGN BORN, FOR FALL RIVER, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED, 3 YEARS.

Locality.	Per cent of tuberculous decedents who were foreign born.		
	Males.	Females.	Males and females.
Fall River.....	64	56	60
Three cities.....	55	52	54

It appears, therefore, that if due regard be had to the age distribution of the two classes, the foreign born do not contribute an undue proportion of tuberculous deaths, and the prevalence of the disease can not be explained by a reference to their numbers.

Turning from these general explanations, attention will be given to a group of factors, frequently assigned as causes of tuberculosis, but of the relative importance of which no measurement can be attempted.

Prominent among these is ignorance. There can be no doubt that in many cases this constitutes a serious handicap to the individual who perhaps finds himself hampered from childhood with poor health or impaired vitality, due in the first instance to his parents' ignorance

of how to treat a child and in the next to his own ignorance of how to treat himself. It is manifestly impossible, however, to say how extensively this cause operates and to what degree it is responsible for the tuberculous death rate.

Improper or insufficient diet, a poor physical equipment at the outset of life, untidy and unhygienic surroundings, undue indulgence in alcoholic drinks—these are factors, which, like ignorance, may be decidedly conducive to tuberculosis, but of which no definite statistical appraisal can be made from the data at hand. In regard to unhygienic surroundings it may be said that as far as the New England municipalities were concerned surroundings were good, the streets and alleys being generally clean, the water supply good, and the drainage usually satisfactory. Such building outrages as windowless rooms were almost nonexistent, these having been found in only five apartments of the thousands of decedents investigated. The household hygiene, however, was less satisfactory, a very considerable number of homes having been found which were so dirty and neglected as to be adjudged really a menace to health.

Table 79 shows the hygienic condition of the apartments formerly occupied by the Fall River female decedents. It will be seen that during the three-year period 46 per cent of the tuberculous, as against 27 per cent of the nontuberculous deaths took place in apartments of which the hygienic conditions were either bad or poor. Among the cotton operatives 53 per cent of the tuberculous as against 33 per cent of the nontuberculous deaths took place in such apartments. These figures seem to indicate a connection between unhygienic apartments and fatal tuberculosis, but more than this can hardly be said.

Previous ill health is another factor sometimes assigned as predisposing to consumption. It seems reasonable that it should have such an effect, but it is difficult to bring statistical proof of its influence. Table 64 shows that in general previous ill health had been more common among tuberculous than nontuberculous decedents, and among operatives than among nonoperatives; it also shows that the cases of previous ill health reported were more numerous among the male tuberculous and operative decedents than among the corresponding classes of females. It is perhaps significant that the percentage reported as undeveloped is in every case much larger among the tuberculous than among the nontuberculous of each sex and occupation class. The reports on this subject, however, were so unsatisfactory and so incomplete that no conclusions can be safely drawn.

EFFECT OF TUBERCULOUS KINDRED AND INTIMATES.

Since tuberculosis is a communicable disease, tuberculous kindred may evidently play a part in the infection of those of their household. Hence Tables 54 to 58 have been prepared to show what proportion

of each sex, race, and occupation class had such kindred, and whether this proportion is larger among those who died of tuberculosis than among those who died from any and all nontuberculous causes.

In considering these tables it must be borne in mind that the number of relatives, and hence the likelihood of having tuberculous relatives, is apt to increase for each person as he grows older. Therefore the average age at death of the different classes must be taken into consideration before conclusions can be safely drawn.

Comparing first the sexes, it appears that in the total population generally speaking a larger proportion of female than of male decedents had had tuberculous relatives. Among the tuberculous non-operatives of Fall River, the males showed a larger proportion, but in the other subgroups females lead. The different races conform to this general rule, with the single exception of the Americans, among whom a much larger proportion of the male than of the female decedents had had tuberculous relatives.

If tuberculous kindred are a factor in the causation of fatal tuberculosis, it would be natural to expect that the sex which shows the highest death rate from tuberculosis would also show the largest proportion of decedents having such relatives. The Americans, the French Canadians, and the "Other races" conform to this expectation, but among the Irish and English no such conformity is found. In both, the males show a higher death rate from tuberculosis, and a smaller proportion of decedents having tuberculous kindred than the females.

The table already given (see p. 116) shows that the tuberculous and the operative decedents were approximately of the same average age at death, so that they may fairly be compared. They show the following proportions:

PER CENT OF OPERATIVE DECEDENTS AND OF TUBERCULOUS DECEDENTS HAVING TUBERCULOUS KINDRED, BY SEX, FOR FALL RIVER, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED.

Classification of decedents and locality.	Per cent having tuberculous kindred.		
	Males.	Females.	Total.
Operative decedents (all causes):			
Fall River.....	21.3	29.1	25.3
Three cities.....	20.6	30.9	25.9
Tuberculous decedents (all occupations):			
Fall River.....	40.2	43.6	41.8
Three cities.....	40.2	42.3	41.2

This shows a considerably larger proportion having tuberculous relatives among those who died of tuberculosis than among the operative decedents, who died from all causes. It is, however, an unsatisfactory comparison, since some of the tuberculous decedents were operatives, and some of the operative decedents were tuberculous.

A more clear cut and definite comparison is that between tuberculous and nontuberculous operative decedents, which shows the following results:

PER CENT OF TUBERCULOUS AND OF NONTUBERCULOUS OPERATIVE DECEDENTS HAVING TUBERCULOUS KINDRED, BY SEX, FOR FALL RIVER, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED.

Classification of operatives and locality.	Per cent having tuberculous kindred.		
	Males.	Females.	Total.
Operatives dying from tuberculous causes:			
Fall River.....	41.4	44.6	43.2
Three cities.....	37.7	49.7	44.8
Operatives dying from nontuberculous causes:			
Fall River.....	11.4	19.8	15.5
Three cities.....	13.0	17.2	14.9

Here the difference is striking. The nontuberculous operatives averaged from 6 to 9 years older at death than the tuberculous,^a which means that they had had a longer period for acquiring relatives, tuberculous and otherwise. The two groups were derived from the same racial, sex, and occupational conditions, yet in the one group there is only one case in which the proportion having tuberculous kindred falls below two-fifths, while in the other there is only one case in which it rises to practically one-fifth.

A comparison of tuberculous operatives with tuberculous nonoperatives gives the following figures:

PER CENT OF TUBERCULOUS OPERATIVE AND OF NONOPERATIVE DECEDENTS HAVING TUBERCULOUS KINDRED, BY SEX, FOR FALL RIVER, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED.

Classification of decedents and locality.	Per cent having tuberculous kindred.		
	Males.	Females.	Total.
Tuberculous operatives:			
Fall River.....	41.4	44.6	43.2
Three cities.....	37.7	49.7	44.8
Tuberculous nonoperatives:			
Fall River.....	39.5	42.6	40.8
Three cities.....	41.1	37.3	39.5

There is no very marked difference in the two groups, though the average age at death is from three to eight years higher for the nonoperatives.

In general, among tuberculous decedents the proportion having tuberculous relatives ranges from two-fifths upward, rarely falling below 30 per cent, while among nontuberculous decedents the proportion is very much smaller, ranging down to 5 and 10 per cent.

^a See Table 90.

Turning to the average number of tuberculous relatives to each decedent, it appears that in general female decedents tended to have more such relatives than did the males. Including intimates as well as relatives, it appears, moreover, that among the kindred and intimates of decedent females a larger proportion were female than among the kindred and intimates of decedent males, excepting for non-tuberculous male decedents. The following shows the degree to which this is true:

PER CENT OF TOTAL TUBERCULOUS KINDRED AND INTIMATES OF MALE AND FEMALE DECEDENTS OF EACH CLASSIFICATION WHO WERE FEMALES.

Classification of decedents.	Per cent of females among tuberculous kindred and intimates of—		
	Male decedents.	Female decedents.	Total decedents.
Tuberculous operatives.....	58	62	61
Nontuberculous operatives.....	45	65	59
Total operatives.....	52	64	60
Total tuberculous.....	54	59	57

Among female operative and female tuberculous decedents, respectively, about a fourth and a fifth of the total tuberculous kindred and intimates were sisters and a sixth and a seventh were brothers; while among the corresponding male decedents, sisters constituted about a sixth and a fifth, and brothers about a fifth.

Of the tuberculous kindred of male decedents fathers formed a larger percentage than mothers, whereas the opposite was true for female decedents; and tuberculous wives constituted a materially larger proportion of the tuberculous kindred and intimates of decedent males than did tuberculous husbands of decedent females. This was most striking among tuberculous decedent males, though practically the same proportion of male as of female tuberculous decedents had been married (male, 58 per cent; female, 57 per cent).

It is scarcely safe to draw any conclusion from these tables beyond the very obvious one that there is much need of fuller data upon the question of the effect of tuberculous kindred in causing tuberculosis. But they do bring out clearly the fact that the proportion of decedents who have tuberculous kindred or intimates is much larger among tuberculous than among nontuberculous decedents of the same approximate age.

EFFECT OF AGE.

Since tuberculosis is known to be of immediate germ origin, it might be expected that its greatest incidence would be found in those age groups in which the greatest proportion of the population is massed. Hence, since nearly two-thirds of the population of the localities studied are in the age group 15 to 44 years, at least a similar

proportion of the tuberculous deaths should normally be found here also, and for the elder groups the deaths from tuberculosis should be numerically less important. This is actually the case; a comparison of the number of deaths from tuberculosis in the two periods gives the following results:

NUMBER OF MALES AND FEMALES DYING FROM TUBERCULOSIS IN EACH SPECIFIED AGE GROUP, FALL RIVER, 3 YEARS, AND FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED, 1 YEAR.

Locality and age group.	Number of deaths from tuberculosis.		
	Males.	Females.	Total.
Fall River, 3 years:			
15 to 44 years.....	179	175	354
45 years and over.....	67	37	104
Three cities, 1 year:			
15 to 44 years.....	134	147	281
45 years and over.....	46	29	75

But this dissimilarity in the number of deaths does not indicate anything like a corresponding dissimilarity in the hazard from tuberculosis, the falling off in the number of deaths being due to a decrease in population rather than to any great diminution of the risk from tuberculosis; indeed among males the age group 45 to 64 years shows a higher tuberculous death rate than the period from 15 to 44 years. The following table shows the comparative distribution of the population and of the tuberculous deaths among the great age groups, with the death rate from tuberculosis of each group:

PER CENT IN EACH AGE GROUP OF POPULATION 10 YEARS OF AGE AND OVER AND OF DEATHS FROM TUBERCULOSIS, WITH DEATH RATE FROM TUBERCULOSIS IN EACH GROUP, BY SEX, FOR FALL RIVER, 3 YEARS, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED, 1 YEAR.

MALES.

Age group and locality.	Per cent in each age group of—		Death rate in each age group from tuberculosis (per 1,000 population).
	Total population.	Total deaths from tuberculosis.	
10 to 14 years:			
Fall River, 3 years.....	13		
3 cities, 1 year.....	13		
15 to 44 years:			
Fall River, 3 years.....	65	73	2.28
3 cities, 1 year.....	65	74	2.56
45 to 64 years:			
Fall River, 3 years.....	18	22	2.54
3 cities, 1 year.....	18	21	2.57
65 years and over:			
Fall River, 3 years.....	4	5	2.49
3 cities, 1 year.....	4	5	2.27
10 years and over:			
Fall River, 3 years.....	100	100	2.03
3 cities, 1 year.....	100	100	2.22
45 years and over:			
Fall River, 3 years.....	22	27	2.53
3 cities, 1 year.....	22	26	2.51

PER CENT IN EACH AGE GROUP OF POPULATION 10 YEARS OF AGE AND OVER AND OF DEATHS FROM TUBERCULOSIS, ETC.—Concluded.

FEMALES.

Age group and locality.	Per cent in each age group of—		Death rate in each age group from tuberculosis (per 1,000 population).
	Total population.	Total deaths from tuberculosis.	
10 to 14 years:			
Fall River, 3 years.....	12	4	0.50
3 cities, 1 year.....	11	2	.39
15 to 44 years:			
Fall River, 3 years.....	66	79	1.97
3 cities, 1 year.....	66	83	2.44
45 to 64 years:			
Fall River, 3 years.....	18	15	1.34
3 cities, 1 year.....	18	12	1.36
65 years and over:			
Fall River, 3 years.....	4	2	.65
3 cities, 1 year.....	5	3	1.32
10 years and over:			
Fall River, 3 years.....	100	100	1.62
3 cities, 1 year.....	100	100	1.96
45 years and over:			
Fall River, 3 years.....	22	17	1.20
3 cities, 1 year.....	23	15	1.35

TOTAL, MALES AND FEMALES.

10 to 14 years:			
Fall River, 3 years.....	13	2	0.25
3 cities, 1 year.....	12	1	.20
15 to 44 years:			
Fall River, 3 years.....	65	76	2.11
3 cities, 1 year.....	65	78	2.49
45 to 64 years:			
Fall River, 3 years.....	18	19	1.90
3 cities, 1 year.....	18	17	1.93
65 years and over:			
Fall River, 3 years.....	4	3	1.46
3 cities, 1 year.....	5	4	1.73
10 years and over:			
Fall River, 3 years.....	100	100	1.81
3 cities, 1 year.....	100	100	2.08
45 years and over:			
Fall River, 3 years.....	22	22	1.82
3 cities, 1 year.....	23	21	1.89

For both sexes combined in Fall River the risk from tuberculosis in the age group 15 to 44 is 11 per cent greater than in the group aged 45 to 64, and 44.5 per cent greater than in the group aged 65 and over; while for the three cities, the age group 15 to 44 shows an excess over the other two groups, respectively, of 29 per cent and 43.9 per cent. These excesses are considerable, especially when account is taken of the greater vitality and resistant power which the younger ages should normally display. Nevertheless, they are not so great as the numerical disparity in the distribution of tuberculous deaths suggests, and the death rates may be taken to show a certain rough correspondence between the distribution of the population and of the tuberculous deaths.

When shorter age groups are considered a number of variations from this general rule present themselves. The following table shows the most important of these:

PER CENT IN EACH AGE GROUP OF POPULATION 10 YEARS OF AGE AND OVER AND OF DEATHS FROM TUBERCULOSIS, WITH DEATH RATE FROM TUBERCULOSIS IN EACH GROUP, BY SEX, FOR FALL RIVER, 3 YEARS, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED, 1 YEAR.

Age group and locality.	Males in each age group.			Females in each age group.		
	Per cent of—		Death rate from tuberculosis (per 1,000 population).	Per cent of—		Death rate from tuberculosis (per 1,000 population).
	Total population.	Total deaths from tuberculosis.		Total population.	Total deaths from tuberculosis.	
10 to 14 years:						
Fall River, 3 years.....	13.1			11.9	3.6	0.50
3 cities, 1 year.....	12.6	0.4	0.7	11.1	3.8	.59
15 to 19 years:						
Fall River, 3 years.....	13.7	8.1	1.21	13.3	13.6	1.66
3 cities, 1 year.....	12.9	7.4	1.15	12.7	11.5	1.54
20 to 24 years:						
Fall River, 3 years.....	11.6	10.9	1.92	13.5	14.6	1.75
3 cities, 1 year.....	11.9	11.1	1.87	13.3	15.1	1.93
25 to 29 years:						
Fall River, 3 years.....	11.6	8.5	1.50	12.0	20.0	2.70
3 cities, 1 year.....	11.9	11.1	1.88	12.4	19.0	2.57
30 to 34 years:						
Fall River, 3 years.....	10.5	19.5	3.77	10.1	18.6	3.00
3 cities, 1 year.....	10.6	19.4	3.65	10.1	16.4	2.76
35 to 39 years:						
Fall River, 3 years.....	9.6	17.1	3.62	8.9	9.6	1.74
3 cities, 1 year.....	9.7	13.4	2.76	9.1	10.0	1.87
40 to 44 years:						
Fall River, 3 years.....	8.0	8.6	2.18	7.8	3.1	.66
3 cities, 1 year.....	7.9	10.3	2.61	7.9	5.0	1.06
45 to 54 years:						
Fall River, 3 years.....	11.3	14.2	2.56	11.1	10.5	1.49
3 cities, 1 year.....	11.6	13.8	2.37	11.5	9.2	1.35
55 to 64 years:						
Fall River, 3 years.....	6.6	8.1	2.50	6.8	4.6	1.09
3 cities, 1 year.....	6.6	9.1	2.74	6.9	5.8	1.43
65 years and over:						
Fall River, 3 years.....	4.0	5.0	2.49	4.6	1.8	.65
3 cities, 1 year.....	4.3	4.0	1.80	5.0	4.2	1.46
10 years and over:						
Fall River, 3 years.....	100.0	100.0	2.03	100.0	100.0	1.62
3 cities, 1 year.....	100.0	100.0	2.00	100.0	100.0	1.70

From the very beginning the sexes show a marked difference. For both, the most resistant period is adolescence, 10 to 14 years, but whereas the tuberculous deaths in this period are an almost negligible quantity among males, they are an appreciable factor among females. A considerably larger proportion of the female than of the male tuberculous deaths occur between ten and thirty years of age; for the five-year period, 30 to 34, the two proportions are somewhat similar, although the males lead, and thereafter the male proportion is larger, often considerably so, in each age group. Half of the tuberculous deaths of females (51.8 per cent in Fall River, 49.4 per cent in the three cities) had taken place before the decedents

were 30, while less than one-third of the male tuberculous deaths had occurred by that age (27.5 per cent in Fall River, 30 per cent in the three cities).

For both sexes the five-year period 30 to 34 shows a higher tuberculous hazard than any other, the next highest being for females the preceding and for males the following five years. After 30, however, the male death rate from tuberculosis is steadily larger than the female, often exceeding it by more than 100 per cent. In old age, 65 years and over, the difference is especially marked.

Age apparently plays a more important part in connection with tuberculosis among women than among men. For some reason (not improbably overwork) it is plainly a disease of the young among women, while among men it is far more evenly distributed throughout the different ages.

It does not follow that because a certain age period shows few deaths officially ascribed to tuberculosis that it is really comparatively free from the disease. Take, for instance, the period 65 years and over, which shows a low mortality from tuberculosis. It seems not implausible that the necessarily weakened heart and usually shallower respiration of the aged involve the presence of a lung tissue unresistant to tubercle bacilli. The multiplication of these germs, by clogging and destroying the lung tissue, would place more and more work upon the senile heart, which would then be less and less able to repair adequately the natural tissue waste or to assist effectively in its elimination.

Under such conditions the pneumococcus, the germ characteristic of pneumonia, may often claim the tuberculous subject as its victim, without acknowledgment of the aid rendered by its insidious forerunner, consumption. A tuberculous infection of the aged, in its resultant effect upon the heart or kidneys, may be likened to the weakening effect upon such a person of a severe injury. In either case the consequent added strain put upon heart, lungs, or kidneys would hasten a death that officially would be usually ascribed to heart disease, pneumonia, or chronic nephritis (Bright's disease).

Although there is thus reason to suspect that at least a part of the apparent immunity of age from tuberculosis is fallacious, it is impossible in the present state of our knowledge of causes of death to form any estimate of the extent to which tuberculosis, not officially identified as such, aids in swelling the death rate. Could this unacknowledged effect be traced, it is entirely possible that the mortality fairly attributable to the disease might be very closely approximated to the distribution of the population in the different ages. In the absence of such exact data, however, it is not possible to say much more than that the period of adolescence, and in a less degree

the period of age, seem relatively free from tuberculous hazard; that among women tuberculosis is disproportionately common in the years under 30; and that among men it is more evenly distributed through early and middle life.

EFFECT OF BAD AIR.

Air may be rendered unfit for breathing through a chemical change in its composition due to inclusion within it of the combustion products of respiration, heating, and illumination; or through a physical change by becoming superheated or laden with moisture or mineral, vegetable, or animal dust, including dried sputum teeming with tubercle bacilli; or through various combinations of these factors. Naturally, the better ventilated a room is, the less probability there is of the air being affected in any of these ways.

In the majority of cases it was not possible to gain satisfactory information concerning the degree to which decedents had been exposed to bad air. Table 82 shows the facts as far as they could be gathered for Fall River for the three-year period. It will be noticed that for both males and females, cotton operatives and non-operatives, the proportion of decedents from ill-ventilated abodes was greater among the tuberculous than among the nontuberculous, which seems at least to suggest a connection between tuberculosis and poor home ventilation. However, as only about one-third of the decedents (33 per cent of the males, 27.2 per cent of the females) were reported as occupying ill-ventilated apartments, too much weight must not be given to these figures.

A somewhat similar conclusion is indicated by a comparison of the average number of rooms occupied by the decedents' families with the average number of persons in these families. The facts necessary for this comparison were obtained for 96 per cent (1,506) of the female decedents of Fall River. Making the above comparison, the following results are obtained:

AVERAGE NUMBER OF ROOMS PER PERSON AMONG IRISH AND NON-IRISH FEMALES CLASSIFIED AS OPERATIVES AND NONOPERATIVES DYING FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 3 YEARS.

Race.	Average number of rooms per person among female decedents in Fall River, 3 years.								
	Operatives.			Nonoperatives.			Operatives and non-operatives.		
	Tuber- culous.	Non- tuber- culous.	Total.	Tuber- culous.	Non- tuber- culous.	Total.	Tuber- culous.	Non- tuber- culous.	Total.
Irish.....	1.0	1.0	1.0	1.0	1.2	1.2	1.0	1.2	1.1
Non-Irish.....	.9	1.0	.9	1.0	1.2	1.2	.9	1.2	1.1
All races.....	.9	1.0	1.0	1.0	1.2	1.2	1.0	1.2	1.1

With the single exception of the Irish operatives, the tuberculous decedents had invariably had less room space than the nontuberculous; i. e., they had suffered from greater overcrowding, and as a consequence their chance of securing good air had probably been less. The exception in the case of the Irish operatives is probably more apparent than real, as they lived far more numerously than did the non-Irish in old houses where the rooms were small and the sanitary arrangements bad.

Another suggestion of the effect of overcrowding and consequent bad air is given in the following table, showing the dwelling of 1,459 (exclusive of 111 or 7 per cent unreported) female decedents of Fall River for three years:

AVERAGE NUMBER OF APARTMENTS PER DWELLING AMONG IRISH AND NON-IRISH FEMALES CLASSIFIED AS OPERATIVES AND NONOPERATIVES DYING FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 3 YEARS.

Race.	Average number of apartments per dwelling among female decedents in Fall River, 3 years.								
	Operatives.			Nonoperatives.			Operatives and non-operatives.		
	Tuber- culous.	Non- tuber- culous.	Total.	Tuber- culous	Non- tuber- culous.	Total.	Tuber- culous.	Non- tuber- culous.	Total.
Irish.....	4.0	4.2	4.1	3.0	3.5	3.5	3.8	3.6	3.6
Non-Irish.....	5.0	4.4	4.6	3.9	3.4	3.3	4.4	3.4	3.6
All races.....	4.7	4.3	4.4	3.8	3.3	3.4	4.2	3.5	3.6

The general conclusions suggested by this table and the explanation of the apparent exception presented by the tuberculous Irish are the same as for the preceding table.

The figures cited have shown that a larger proportion of tuberculous than of nontuberculous decedents are known to have occupied ill-ventilated apartments; that a greater degree of crowding had existed within the apartments of the tuberculous than of the nontuberculous decedents; and that these apartments had generally been in buildings housing a larger number of families than was the case with the apartments of the nontuberculous. None of these items is conclusive, but combined they afford at least a presumption that there was a connection between poor air in the home and tuberculosis.

EFFECT OF OPERATIVE WORK.

A very brief examination of the tables already given of deaths from tuberculosis and from nontuberculous causes shows that tuberculosis plays a much more important part in the operative than in the nonoperative deaths. Thus in Fall River for the three-year period the figures stand thus.

NUMBER OF OPERATIVES AND OF NONOPERATIVES 15 TO 44 YEARS OF AGE DYING FROM TUBERCULOSIS AND FROM ALL CAUSES, AND PER CENT OF DEATHS DUE TO TUBERCULOSIS, BY SEX, FALL RIVER, 3 YEARS.

	Deaths in the age group 15 to 44 years: Fall River, 3 years.			
	Males.		Females.	
	Opera- tives.	Nonop- eratives.	Opera- tives.	Nonop- eratives.
Number of deaths from—				
All causes.....	179	308	253	297
Tuberculosis.....	82	97	106	69
Per cent of deaths due to tuberculosis.....	45.8	32.1	41.9	23.2

Not only do operatives as a whole show this excess in their proportion of deaths from tuberculosis, but the same excess appears in every age, sex, and race group. In some groups, especially among females, the difference is enormous; everywhere it is considerable. The following table shows the degree of this difference.^a

How much greater, among those of approximately like age and among all races, the percentage of deaths from tuberculosis is among operatives than among nonoperatives, the following, based upon Tables 26 and 52, will demonstrate.

PERCENTAGE BY WHICH PER CENTS OF TUBERCULOUS DEATHS OF OPERATIVES 15 TO 44 YEARS OF AGE EXCEED THOSE OF NONOPERATIVES OF SAME AGE GROUP, BY RACE AND BY SPECIFIED AGE GROUPS, FOR FALL RIVER, 3 YEARS, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED, 1 YEAR.

BY RACE.

Sex and locality.	Percentage of excess.						
	Aggregate non-Irish.	Irish.	Ameri- can.	Englisch.	French Canadian.	Other races.	Total, all races.
Males:							
Fall River, 3 years.....	70	13	14	68	88	117	44
3 cities, 1 year.....	78	17	26	57	70	213	45
Females:							
Fall River, 3 years.....	74	96	106	57	83	24	83
3 cities, 1 year.....	88	62	273	114	65	12	82
Total, both sexes:							
Fall River, 3 years.....	68	42	54	56	83	61	63
3 cities, 1 year.....	80	37	105	67	70	85	62

BY SPECIFIED AGE GROUPS.

Sex and locality.	Percentage of excess.			
	15 to 24 years.	25 to 34 years.	35 to 44 years.	Total, 15 to 44 years.
Males:				
Fall River, 3 years.....	24	27	88	44
3 cities, 1 year.....	6	53	77	45
Females:				
Fall River, 3 years.....	29	65	178	83
3 cities, 1 year.....	14	100	105	82
Total, both sexes:				
Fall River, 3 years.....	26	44	89	63
3 cities, 1 year.....	19	77	91	62

^a This table is limited to the years from 15 to 44 because the nonoperatives are so much more numerously represented in the higher age groups where tuberculosis is relatively unimportant that, unless so limited, a comparison would be thoroughly unfair and misleading.

The table discloses considerable differences between the different race groups, but with unvarying constancy it shows for both the one and the three year period, for both sexes, for different age groups, and for each of the several races that a greater proportion of operative than nonoperative deaths were tuberculous. The constancy with which this result appears is practically a conclusive demonstration that fatal tuberculosis is more prevalent among operatives than among nonoperatives, and that its prevalence is greatest among female operatives.

Such percentages when based upon large masses of the population disclose mortality tendencies but do not afford exact measures of these tendencies. In spite of this admitted inexactness they are given here because they establish independently the chief facts demonstrated by the death rates. These rates for the different race age groups, it will be remembered, are based on the assumption that the race distribution of those 15 to 44 years of age in the 1906 population is in the same proportion as is the race distribution of the whole population recorded in the 1905 census. As this assumption contains a possibility of error, it seemed desirable to confirm the general accuracy of the death rates by a comparison with the above results obtained independently.

The close accord of the results obtained by the two methods—i. e., first by a comparison between percentages of tuberculous deaths within given groups, and second by a comparison of death rates from tuberculosis within the same groups—may be seen by comparing the table just given with that immediately following.

PERCENTAGE BY WHICH PER CENTS OF TUBERCULOUS DEATHS OF OPERATIVES 15 TO 44 EXCEED THOSE OF NONOPERATIVES OF SAME AGE GROUP; AND BY WHICH DEATH RATES PER 1,000 POPULATION OF SUCH OPERATIVES FROM TUBERCULOSIS EXCEED THOSE OF NONOPERATIVES, BY SEX, FOR FALL RIVER, 3 YEARS, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET, 1 YEAR.

	Percentage of excess.		
	Males	Females.	Total, both sexes.
DEATHS FROM TUBERCULOSIS.			
Per cent of total deaths:			
Fall River, 3 years.....	44	83	61
3 cities, 1 year.....	45	82	62
Rate per 1,000 population:			
Fall River, 3 years.....	29	160	83
3 cities, 1 year.....	27	136	78

The following table, abstracted from Tables 22 and 44, is constructed from death rates per 1,000 population of operatives and nonoperatives dying from tuberculosis, and is a correlative of the preceding

table, which showed excess percentages on the basis of the per cent which tuberculous deaths are of total deaths:

PERCENTAGE BY WHICH DEATH RATES FROM TUBERCULOSIS (PER 1,000 POPULATION) OF OPERATIVES 15 TO 44 YEARS OF AGE EXCEED THOSE OF NONOPERATIVES OF SAME AGE GROUP, BY RACE AND BY SPECIFIED AGE GROUPS, FOR FALL RIVER, 3 YEARS, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED, 1 YEAR.

BY RACE.

Sex and locality.	Percentage of excess.						
	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	Total, all races.
Males:							
Fall River, 3 years.....	74	^a 76	224	5	80	86	29
3 cities, 1 year.....	81	^a 30	221	^a 13	88	93	27
Females:							
Fall River, 3 years.....	151	149	300	81	160	64	160
3 cities, 1 year.....	151	98	638	233	58	2	136
Total, both sexes:							
Fall River, 3 years.....	111	31	249	36	121	72	83
3 cities, 1 year.....	117	26	379	70	72	38	78

BY SPECIFIED AGE GROUPS.

Sex and locality.	Percentage of excess.			
	15 to 24 years.	25 to 34 years.	35 to 44 years.	Total, 15 to 44 years.
Males:				
Fall River, 3 years.....	82		25	9
3 cities, 1 year.....	15		46	20
Females:				
Fall River, 3 years.....	128		142	414
3 cities, 1 year.....	73		204	104
Total, both sexes:				
Fall River, 3 years.....	106		79	101
3 cities, 1 year.....	55		117	87

^a Nonoperative excess over operative.

This table shows at a glance that with the exception of the male Irish and English the percentage of excess of the tuberculous death rate of operatives over that of nonoperatives is constantly large, and that among females it is enormous.

The fact that operatives almost without exception in each locality and in the various age, sex, and race groups show such an undue proportion of deaths from tuberculosis is almost conclusive proof of a causal connection between operative work and the disease. The coincidence between work in the cotton mills and a death rate from tuberculosis higher than that of a corresponding class of nonoperatives would not be found in so many and such diverse groups were it a mere coincidence. It seems hardly open to question that operative work predisposes to tuberculosis and that its effect in this direction is greater among females than among males.

The latter conclusion is not so certain as the former, since it is possible that the greater tuberculous mortality among female operatives is due in part to their very general custom of doing a part or all of the housework at home in addition to their work in the mill. Housework may not in itself be in the least harmful, but when it follows a full day's work in the mills it is obvious that the doer of it runs a greater risk of exhaustion and of consequent susceptibility to tuberculosis than the person who is doing only housework or only mill-work. As men operatives are less apt than women to do any work outside the mill they do not so often incur the extra exhaustion, which may partially account for their lower death rate from tuberculosis.

The question naturally arises whether this hazard from tuberculosis inheres in operative work as a whole or in certain occupations especially. The data at present available are not sufficient to answer this question fully, but some indication of the situation may be gained by comparing the distribution of the operative deaths with the distribution of the operative population. The latter is based on special reports from the mill superintendents of the places studied, giving the sex, whether below or above 16 years of age, workroom where employed, and specific occupation of each employee.

The operative decedents were at first classified tentatively in ten groups, according to the principal mill occupations, with an eleventh miscellaneous group comprising the various minor occupations. This last group comprised in Fall River 13 per cent and for the three cities 14 per cent of all operatives. The ten occupation groups, arranged according to the successive processes by which raw cotton is transformed into cloth ready for shipment, are as follows: Picker tenders, males; card grinders and card strippers combined as carders, males; back boys and doffers, the former males, the latter principally females; drawing-frame tenders, principally males; slubber tenders, both sexes; and speeder tenders, females; spinners, both sexes; spooler tenders, including also warper tenders, drawers in, cone winders, and twisters, the first principally, the others almost exclusively females; slasher tenders, males; loom fixers, males; weavers, including spare hands, males and females; and, finally, cloth-room hands, males and females, but chiefly the latter.^a

In spite of painstaking efforts to class each decedent operative in accordance with the exact work he performed this classification gives rise to obvious incongruities. For example, about two-thirds of the male employees who work in the spinning room are spinners and doffers, the remainder being assigned to various occupations. But

^a For description of cotton-mill processes see the 1907 report of the Massachusetts State Board of Health upon "The sanitary condition of factories, workshops, and other establishments where persons are employed," pp. 7-45. Massachusetts Senate Document, No. 250, 1907.

there were practically no male deaths reported for spinning-room occupations other than spinning and doffing, so that about one-third of the spinning-room male employees were left constantly without any mortality in any of the cities—an obvious absurdity, and one which unidentified probably accounts in no small part for the very high death rates published for spinners.

Under these circumstances it seemed advisable to use the number employed in a given workroom rather than the number employed at a given occupation as the basis for computing death rates. This necessitated a reclassification of the decedent operatives as follows:

1. Picker room—Picker tenders and picker bosses.
2. Card room—Male carders, etc., female speeder tenders, male and female slubber tenders, and drawing-frame tenders, and female doffers.
3. Spinning room—Spinners, male doffers, and back boys.
4. Spooling room—Spooler tenders, warper tenders, beamers, drawers in, winders, twistors, and reelers.
5. Slasher room—Slasher tenders, etc. (these have a separate room in the newer mills, but often in the older ones are in one end of the spooler room).
6. Weave room—Loom fixers, weavers, etc.
7. Cloth room—Inspectors, balers, folders, etc.

On this basis the death rates for the various rooms were computed. These are given in full in Table 62, but a summary is here presented of workroom death rates from tuberculosis. Two cautions must be observed in dealing with these figures. First, the average age of the tuberculous decedents in specific mill occupations differs so widely between the sexes that no comparison between the death rates of males and females can be made.^a Second, in a number of cases, though the person giving the information knew that the decedent in question had been a mill worker within two years of his death the particular kind of work he did was unknown. In Fall River the occupation of the tuberculous female operatives was learned for all except 2 per cent of the decedents, but among the females of the other two cities and the males of all three cities a proportion varying from one-fifteenth to over a tenth were unreported as to the workroom in which they had been employed.

Those who were thus unreported were omitted in computing the death rates of the several workroom occupations. The death rates for these occupations may, therefore, be indefinitely too low, excepting those for the female operatives of Fall River, which are practically correct.

^a See Table 91.

The following tables show, by sex, the distribution of the operatives and of the tuberculous decedents by workrooms:

PERCENTAGE DISTRIBUTION OF EACH SEX, BY WORKROOM WHERE EMPLOYED, OF OPERATIVE POPULATION AND OF TUBERCULOUS DEATHS OF OPERATIVES (10 YEARS OF AGE AND OVER), TOGETHER WITH PER CENT OF DIFFERENCE BETWEEN TUBERCULOUS DEATH RATE IN EACH WORKROOM AND TUBERCULOUS DEATH RATE OF TOTAL OPERATIVES, TOTAL NONOPERATIVES, AND BOTH COMBINED, FOR FALL RIVER, AND FOR FALL RIVER, MANCHESTER, AND PAWTUCKET COMBINED, THREE YEARS.

FEMALES.

Workroom and locality.	Per cent of total (10 years and over)—		Per cent of total operative (10 years and over)—		Per cent of difference (+ or -) between death rate from tuberculosis of each specified group and tuberculous death rate (taken as a base or 100 per cent) of—		
	Popula-tion.	Deaths from tuber-culo-sis.	Popula-tion.	Deaths from tuber-culo-sis.	Total female opera-tives.	Total female nonop-eratives.	Total opera-tives and nonop-eratives, both sexes.
Card room:							
Fall River.....			17	25	+46	+312	+148
3 cities.....			15	20	+38	+243	+141
Spinning room:							
Fall River.....			22	20	- 9	+157	+ 55
3 cities.....			19	15	-21	+ 96	+ 38
Spooler room:							
Fall River.....			20	19	- 7	+161	+ 57
3 cities.....			20	22	+ 7	+166	+ 86
Weave room:							
Fall River.....			36	30	-15	+140	+ 45
3 cities.....			40	30	-25	+ 85	+ 30
Cloth room:							
Fall River.....			5	4	-18	+130	+ 39
3 cities.....			6	6	+ (a)	+149	+ 74
Unspecified workroom:							
Fall River.....				2			
3 cities.....				7			
Total female operatives:							
Fall River.....	27	51	b 12, 148	c 112	d 3.07	+182	+ 70
3 cities.....	21	43	b 19, 717	c 189	d 3.20	+148	+ 74
Total female nonoperatives:							
Fall River.....	73	49				d 1.09	- 40
3 cities.....	79	57				d 1.29	- 30
Total females, both classes:							
Fall River.....	b 45, 331	c 220					d 1.81
3 cities.....	b 91, 935	c 468					d 1.84

a Less than one-half of 1 per cent.

b Total or base number (100 per cent), population.

c Total or base number (100 per cent), deaths from tuberculosis.

d Basic rate of death from tuberculosis for computation of per cent of difference (+ or -).

PERCENTAGE DISTRIBUTION OF EACH SEX, BY WORKROOM WHERE EMPLOYED, OF OPERATIVE POPULATION AND OF TUBERCULOUS DEATHS OF OPERATIVES (10 YEARS OF AGE AND OVER), ETC.—Concluded.

MALES.

Workroom and locality.	Per cent of total (10 years and over)—		Per cent of total operative (10 years and over)—		Per cent of difference (+ or -) between death rate from tuberculosis of each specified group and tuberculous death rate (taken as a base or 100 per cent) of—		
	Popula- tion.	Deaths from tuber- culosis.	Popula- tion.	Deaths from tuber- culosis.	Total male operat- ives.	Total male nonoperat- ives.	Total operat- ives and nonoperat- ives, both sexes.
Pier room:							
Fall River.....			3	3	+ 7	+ 39	+ 43
3 cities.....			3	4	+15	+ 40	+ 45
Card room:							
Fall River.....			17	5	-68	- 58	- 57
3 cities.....			16	6	-62	- 54	- 53
Spinning room:							
Fall River.....			26	32	+23	+ 61	+ 64
3 cities.....			24	28	+19	+ 44	+ 49
Spooler room:							
Fall River.....			5				
3 cities.....			5				
Slasher room:							
Fall River.....			2	3	+34	+ 74	+ 78
3 cities.....			3	4	+24	+ 51	+ 56
Weave room:							
Fall River.....			45	45	- 1	+ 29	+ 31
3 cities.....			44	44	-(a)	+ 21	+ 25
Cloth room:							
Fall River.....			2	1	-47	- 31	- 29
3 cities.....			5	2	-49	- 38	- 36
Unspecified workroom:							
Fall River.....				11			
3 cities.....				12			
Total male operatives:							
Fall River.....	32	38	b 13,010	c 94	d 2.41	+ 30	+ 33
3 cities.....	23	29	b 18,731	c 130	d 2.31	+ 22	+ 26
Total male nonoperatives:							
Fall River.....	68	62				d 1.85	+ 2
3 cities.....	77	71				d 1.90	+ 3
Total males, both classes:							
Fall River.....	b 40,335	c 246					d 1.84
3 cities.....	b 80,926	c 485					d 1.84

^a Less than one-half of 1 per cent.

^b Total or base number (100 per cent), population.

^c Total or base number (100 per cent), deaths from tuberculosis.

^d Basic rate of death from tuberculosis for computation of per cent of difference (+ or -).

It will be noticed that for female operatives the differences in the tuberculous hazard of the various rooms are not great. The card room is the only one which shows a rate higher than the average for female operatives. This is the dustiest of the rooms in which women work,^a and is usually also the darkest. Without fuller data than are at present available concerning the race and age distribution of the workers within the various rooms, it is impossible to say whether this higher tuberculous rate in the card room is due to conditions prevailing there or to the kind of workers who go into it, but the coincidence

^a See Vol. I of this report, Cotton Textile Industry, p. 365.

of a dusty and usually ill-ventilated room and a high death rate among the women working in it is at least worth noticing.

It is rather curious to find among the male operatives the lowest hazard from tuberculosis in the card room, just where for female operatives it is greatest. This may be due to differences in the race and age of the sexes employed in this room, the possibly brief connection with the card room or the industry of males many of whom doubtless are recent immigrants, or it may be that a considerable portion of the unreported male operatives really belong in the card room, in which case this discrepancy might be decreased or even removed if fuller data were at hand. Among males the slasher room seems to take the place of the card room among female operatives, but only a small proportion of the operative force are employed there; the spinning room probably has considerably more effect in bringing up the male death rate.

These tables can not be taken as conclusive in any way, but as far as they go they seem to indicate that for women at least the higher death rate from tuberculosis among operatives depends not so much upon the kind of work they do as upon the mere fact of their being engaged in mill work.

DURATION OF ILLNESS.

A matter of interest in connection with the prevalence of tuberculosis among operatives, especially females, is the length of time during which the decedent suffered from the disease. Table 63 gives the facts on this point so far as they could be gathered. It is highly probable that the duration of the illness, in the case of the tuberculous, is understated, owing to a tendency to date an illness from the time the invalid was obliged to give up his work, or even to take to his bed. This error, however, being general does not materially invalidate percentage comparisons.

It will be noticed that over a fourth (27.6 per cent) of the male and nearly a third (30.9 per cent) of the female tuberculous decedents were admitted by their relatives to have had tuberculosis for two years or more before their death. This means that a considerable number must have kept on at their work in the mill for a year or more after the disease was established. Unless exceptional care was exercised by these in the disposal of their sputum they may during this time have been a persistent source of infection for the other workers within the same mill room.

A comparison between the average duration of the disease as reported and the average length of time out of the mills before death gives a rough measure of the period through which each operative was a probable source of danger to his work mates. The following table presents this comparison.

AVERAGE NUMBER OF MONTHS MALE AND FEMALE OPERATIVES WHO DIED FROM TUBERCULOSIS WERE AFFECTED WITH THE DISEASE, 3 CITIES, 3 YEARS.

	Average number of months affected by tuberculosis before death.	
	Males.	Females.
Total duration of disease.....	13	16
Out of mill before death.....	9	11
In mill at work.....	4	5

The length of time before his death that the decedent had been out of the mills would be definitely known by the informants, while the duration of the fatal illness, as reported, can be only approximately accurate, especially for a disease like tuberculosis, the onset of which is notoriously insidious. Consequently any error in the above table must be in the direction of understating the length of time during which the decedent operative was a source of danger to his companions.

Another point of interest brought out by the table concerning the duration of fatal illness is the fact that the operative apparently offers less resistance to the progress of tuberculosis than does the nonoperative. The following table shows the difference between the two classes in this respect:

AVERAGE DURATION, IN MONTHS, OF TUBERCULOSIS BEFORE DEATH AMONG MALE AND FEMALE OPERATIVES AND NONOPERATIVES, 3 CITIES, 3 YEARS.

Classification.	Average number of months duration of tuberculosis before death.		
	Males.	Females.	Males and females.
Nonoperatives.....	19	22	20
Operatives.....	13	16	15
Difference in favor of nonoperatives.....	6	6	5

Although the duration of the fatal illness is admittedly of doubtful accuracy, yet since the statements for both operatives and nonoperatives were obtained from sources of the same character, there is no reason to suppose that the time has been under or over stated for one class as against the other. On the whole, therefore, it seems reasonably certain that the duration of tuberculosis is materially briefer among operatives than it is among nonoperatives.

From this fact the deductions appear plausible that:

1. Very possibly at the onset of tuberculosis the tissues of the operative were less vigorous, combative, or resistant than were those of the nonoperative.

2. Mill work and unhygienic influences within the mill hastened the progress of the tuberculous disease.

3. The tuberculous operative, especially the female operative, remained at work in the mill for months after contracting the disease, thereby menacing with tuberculous infection her mill mates; and that

4. The tuberculous operative, conscious of constantly diminishing strength, would scarcely have remained thus long at work had her financial condition or had public provision for her care and the care of her dependents been such as to allow her to quit the mill before exhaustion made further work impossible.

MORTALITY FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES.

EFFECT OF INTEMPERANCE.

At the beginning of the investigation there was no thought of including questions as to the decedents' habits respecting the use of alcoholic beverages, but unsolicited testimony on this point was offered so often that it was decided to make regular inquiry concerning it. As the informants who were questioned on this matter were usually relatives of the decedents, it was possible that their replies were not always candid, but it seems highly probable that any error from this source would be in the direction of understatement. It is to be noted that the informants very commonly seemed inclined to attribute the decedent's end to his intemperate habits, even though the cause officially assigned for his death might be something very different. "So-and-so had consumption, but he brought it on himself. He didn't do right, and there's nobody to blame but himself." Such was the substance of a comment very frequently made by informants.

These facts were not collected outside of Fall River, but within that city they were secured for something over three-fourths of all the male tuberculous decedents and for practically the same percentage of all the male operatives.

The following table^a shows, by race, the percentage of the male operative and tuberculous decedents for whom reports on this point were secured:

PERCENTAGE OF EACH CLASSIFICATION OF MALE DECEDENTS FOR WHOM REPORTS AS TO USE OF ALCOHOLIC BEVERAGES WERE RECEIVED, BY RACE, FALL RIVER, 3 YEARS.

Classification.	Percentage of each classification.					Total.
	Ameri- can.	English.	Irish.	French Cana- dian.	Other races.	
Operatives.....	88	78	81	82	72	79
Tuberculous decedents.....	81	86	81	73	67	78

^a See also Table 65.

The number in each group said by informants to have been of intemperate habits, and the percentage they form of all for whom reports on this point were received, were as follows:

NUMBER OF MALE DECEDENTS IN EACH CLASSIFICATION REPORTED AS OF INTEMPERATE HABITS, BY RACE, FALL RIVER, 3 YEARS.

Classification.	American.	English.	Irish.	French Canadian.	Other races.	Total.
Operatives:						
Tuberculous.....	2	5	7	5	2	21
Nontuberculous.....	2	13	12	9	2	38
Total.....	4	18	19	14	4	59
Tuberculous nonoperatives.....	1	4	23	2	1	31
Total.....	5	22	42	16	5	90

PER CENT OF MALE DECEDENTS IN EACH CLASSIFICATION REPORTED AS OF INTEMPERATE HABITS, BY RACE, FALL RIVER, 3 YEARS.

Classification.	American.	English.	Irish.	French Canadian.	Other races.	Total.
Operatives:						
Tuberculous.....	33	28	39	22	17	27
Nontuberculous.....	22	28	31	23	12	25
Total.....	27	28	33	23	14	26
Tuberculous nonoperatives.....	7	21	38	17	10	27
Total tuberculous.....	14	24	38	20	14	27

Among the operatives as a group a slightly larger proportion of tuberculous than of nontuberculous decedents had been given to intemperance. The English and the French Canadians depart from this general relation, but among the Americans and Irish the proportion of intemperate decedents is much larger among the tuberculous operatives than among the nontuberculous. Among the tuberculous nonoperatives the Irish show much the highest proportion of hard drinkers, while the Americans show a smaller proportion than any other race group.

Among the operatives the Irish, as compared with the other races, show but a slight numerical excess of intemperate decedents, but proportionately their excess is considerable. The percentages which each race furnishes of the male operative population and of the intemperate operative decedents are as follows:

PER CENT IN EACH SPECIFIED RACE OF TOTAL MALE OPERATIVES AND OF TOTAL INTEMPERATE MALE OPERATIVES WHO DIED.

	American.	English.	Irish.	French Canadian.	Other races.
Per cent of—					
Total male operatives.....	5	31	16	32	15
Total intemperate male operative decedents.....	7	31	32	24	7

The Americans and the Irish are the only race groups showing an undue contribution to the number of intemperate male operative decedents, the Americans giving but a small percentage over what their population quota would warrant, while the Irish give twice their proportionate representation. Among the tuberculous decedents this disparity is still more marked. The following table shows the percentage each race furnishes of the total male population of Fall River, and of the intemperate tuberculous decedents:

PER CENT IN EACH SPECIFIED RACE OF TOTAL MALE POPLATION AND OF TOTAL INTEMPERATE TUBERCLOUS MALE DECEDENTS.

	Ameri- can.	English.	Irish.	French Cana- dian.	Other races.
Per cent of—					
Total male population.....	18	27	16	27	16
Total intemperate tuberculous male decedents....	6	17	58	13	6

From this it appears that no race except the Irish furnishes as large a proportion of the intemperate tuberculous decedents as it does of the population, while the Irish have not far from four times their proportionate share of such decedents.

But among the nonoperative tuberculous decedents who were reported as intemperate, the excess of Irish reaches its climax, as shown in the following comparison:

PER CENT IN EACH SPECIFIED RACE OF TOTAL NONOPERATIVE MALES AND OF TOTAL NONOPERATIVE INTEMPERATE TUBERCULOUS MALE DECEDENTS.

	Ameri- can.	English.	Irish.	French Cana- dian.	Other races.
Per cent of—					
Total nonoperative males.....	25	19	17	25	16
Total nonoperative intemperate tuberculous male decedents.....	3	13	74	7	3

Here it appears that the Irish, although they form but one-sixth of the male nonoperative population, yet furnish almost three-fourths of the intemperate tuberculous decedents from among the nonoperatives, a disproportion so great as to need no comment.

It will be remembered that the Irish males show a much higher death rate from tuberculosis than those of other races, and that the excess was particularly noticeable among the nonoperatives. The figures just given concerning intemperate decedents are too few to serve as a basis for any definite assertion. But since intemperance is known to be a very important factor in tuberculosis, since the Irish show a much higher proportionate share of intemperate decedents than any other race, and since this proportionate excess is greater among the nonoperative tuberculous decedents than anywhere else,

there are at least grounds for suspecting that intemperance may account for some portion of the high mortality from tuberculosis among the Irish males.

EFFECT OF MARRIAGE, IN COMBINATION WITH OPERATIVE WORK, FOR FEMALES.

No adequate population data are available respecting the conjugal condition of the different races or of the several age groups, and therefore no death rates can be computed for the married or single by race. Table 66 shows the conjugal condition of decedents, but no conclusions can be drawn as to the relative hazards of married life for different races and at different ages.

However, for the female population of Fall River taken as a whole, such data are obtainable from the Massachusetts census of 1905. For the purposes of the present discussion the conjugal distribution in 1906, the median of the three-year period, has been determined by applying to the female population of 1906, based on the estimate of the Fall River Board of Health, the percentages shown by the Massachusetts census to have existed in 1905. In order to limit the discussion to those of marriageable age, all under 15 years old are omitted; and since in New England communities it is exceedingly rare for a girl to marry under 15, it is assumed that the 5,393 Fall River females who, as being in the age group 10 to 14, are omitted, were all single. By these means the conjugal distribution of the women in Fall River in 1906 is obtained and a basis secured for the calculation of death rates. Taking first the deaths from tuberculosis, the following results are shown:

TOTAL NUMBER OF FEMALES (15 YEARS AND OVER) CLASSIFIED AS OPERATIVES AND NONOPERATIVES, NUMBER OF DEATHS FROM TUBERCULOSIS, AND TUBERCULOUS DEATH RATE PER 1,000 POPULATION, IN EACH CLASSIFICATION, BY CONJUGAL CONDITION, FALL RIVER, 3 YEARS.

Classification.	Single and unknown.	Married, widowed, and divorced.			Grand total.
		Married.	Widowed and divorced.	Total.	
Females 15 years of age and over:					
Operatives.....	7,968	3,389	559	3,948	11,916
Nonoperatives.....	7,748	16,532	3,742	20,274	28,022
Total.....	15,716	19,921	4,301	24,222	39,938
Deaths from tuberculosis:					
Operatives.....	57	55	.....	55	112
Nonoperatives.....	34	55	11	66	100
Total.....	91	110	11	121	212
Death rates from tuberculosis per 1,000 of population:					
Operatives.....	2.38	5.41	.....	4.65	3.13
Nonoperatives.....	1.46	1.11	0.98	1.08	1.19
Total.....	1.93	1.84	.85	1.67	1.77

The table shows a striking difference in the relative death rates of the married operatives and nonoperatives. For an operative, marriage, if it does not withdraw her from the mill, appears to increase very largely her risk of death from tuberculosis, while for a nonoperative it seems actually to diminish that risk, because stress is not improbably a chief factor in the causation of the debility precedent to tuberculosis, and the nonoperatives single are, in Fall River, largely engaged as wage earners, even though not in the cotton mill, whereas the nonoperatives married are comparatively seldom wage earners. Several items, in part explanatory of this latter situation, may be suggested. As the average age of the married is greater than that of the unmarried, the former group may contain a greater proportion of tuberculosis immunes or nonsusceptibles, thus bringing down its death rate. The instinctive tendency of men when marrying to choose the more attractive and more vigorous may result in a massing of the feebler, who could naturally oppose less resistance to tuberculosis, among the unmarried; or the larger proportion of the unmarried who are engaged in wage-earning pursuits may have some bearing upon the matter. Whatever weight these various considerations may have, it is certain that among the nonoperatives of Fall River the married do not show as great a death rate from tuberculosis as the unmarried.

But among the operatives the situation is sharply reversed, the married showing nearly twice as high a death rate as the single from tuberculosis. A considerable portion of this excess is directly connected with childbearing. Eleven of the 55 married operatives who died of tuberculosis had never borne offspring; in 14 of the remaining 44 cases, or practically one-third, childbirth or pregnancy had been present as a debilitating complication. Only 17 per cent of the married women of Fall River—the widowed and divorced not being included in this calculation—were operatives, but this 17 per cent furnished 58 per cent of all the tuberculous deaths complicated with parturition which occurred in the whole community during three years.

Furthermore, in every one of the 10 remaining cases of tuberculosis complicated with parturition the mother either had formerly been or was up to the time of her death a wage earner. In four cases she had been out of the mills but three years, while in two others she had been out five years.

Tuberculous heredity and tuberculous kindred appear to have been but minor factors in these parturition-complicated deaths among operatives, having been found in only about a quarter (29 per cent) of the cases. This is but little more than half as frequently as they were found among all female operatives dying of tuberculosis.

The total number of children born to these operative mothers who died of tuberculosis complicated with parturition was 29, an average

of 2.1 per decedent. An indication of the debility of the mothers and of the consequent poor physical equipment with which their children may have been started in life is found in the fact that only 9 of these children (31 per cent, or less than one-third) survived their mothers.

In view of these facts there seems sufficient reason for assuming that maternity conjoined with operative work forms a combination so debilitating as to predispose to fatal tuberculosis to a marked degree.

The parturition-complicated deaths are not sufficiently numerous to explain the whole difference in tuberculous mortality between the married and the unmarried. But since marriage is apt to mean maternity and maternity is an evident drain upon a woman's strength, and since operative work in itself constitutes a debilitating experience which tends to raise the tuberculous death rate of even single operatives over that of nonoperatives, it is entirely reasonable that the combination of these two experiences should induce a degree of debility and of consequent nonresistance to tuberculosis which would fully account for its excessive prevalence among married as compared with unmarried operatives.

It is possible to compare the death rates from tuberculosis of operatives and nonoperatives because the age group 15 to 44 furnishes the great majority both of female operatives and of female deaths from tuberculosis. But when nontuberculous deaths are to be considered the two groups become noncomparable, owing to their different age distribution. Of the operatives aged 15 years and over, less than one-twelfth (7.2 per cent) were over 44 years old, while of the nonoperatives one-third (33.5 per cent) were over this age. As has already been pointed out, death rates increase very rapidly after 44, so that the large proportion of the nonoperatives in the upper age groups vitiates any comparison between deaths from nontuberculous causes in the two groups. Moreover, it renders it impossible to draw any conclusions as to the effect of marriage upon female nonoperatives, for, in the absence of any data showing the contrary, it is reasonable to suppose that the majority of the single are in the youthful age groups, where death rates are normally low, and that the majority of those in the older groups, where the death rates are high, are or have been married.

Among the operatives, however, it is possible to compare death rates from all causes, since, whether married or unmarried, very few of them are in the mills after 44. Consequently the following table is given to show the comparative death rates among married and single operatives from all causes, and in order to show the uniformity of the relation the rates are given for one year as well as for three years in Fall River and in three cities.

NUMBER AND RATE PER 1,000 OF DEATHS OF FEMALE OPERATIVES (10 YEARS OF AGE AND OVER) FROM SPECIFIED CAUSES, BY CONJUGAL CONDITION, FOR 1 YEAR AND FOR 3 YEARS IN FALL RIVER AND THREE CITIES. ^a

Causes, period, and locality.	Number of deaths and rate per 1,000 female operatives of specified conjugal condition.							
	Single and unknown.		Married.					
			Husband living.		Husband dead or divorced.		Total married.	
	Number.	Rate.	Number.	Rate.	Number.	Rate.	Number.	Rate.
TUBERCULOUS CAUSES.								
One year:								
Fall River.....	22	2.68	25	7.38	.....	.....	25	6.33
3 cities.....	36	2.69	40	7.27	2	2.42	42	6.63
Three years:								
Fall River.....	57	2.32	55	5.41	.....	.....	55	4.65
3 cities.....	97	2.42	86	5.21	6	2.42	92	4.84
NONTUBERCULOUS CAUSES.								
One year:								
Fall River.....	29	3.54	38	11.21	3	5.37	41	10.39
3 cities.....	44	3.29	49	8.91	8	9.66	57	9.01
Three years:								
Fall River.....	69	2.80	105	10.33	13	7.75	118	9.96
3 cities.....	115	2.86	123	^a 7.45	23	9.26	146	^a 7.69
TOTAL, ALL CAUSES.								
One year:								
Fall River.....	51	6.22	63	18.59	3	5.37	66	16.72
3 cities.....	80	5.98	89	16.18	10	12.08	99	15.64
Three years:								
Fall River.....	126	5.12	160	15.74	13	7.75	173	14.61
3 cities.....	217	5.28	209	^a 12.66	29	11.78	238	^b 12.53

^a The distribution, by conjugal condition, of the operatives of the three cities has been found by applying to them the percentages shown by another investigation (see Vol. I of this report, Cotton Textile Industry, p. 129) to exist in 1908 among the whole group of New England female operatives studied. These percentages are almost identical with those shown by the Massachusetts census to have existed in Fall River in 1905. The inclusion of the age group 10 to 14 has no effect upon the death rates of the married, and, owing to the small number of both operatives and deaths within its limits, modifies the death rate of the single too slightly to affect at all materially the general relation of the rates.

^b Low death rate due to investigation of all the nontuberculous for only 1 year in Manchester and Pawtucket, and to the consequent nonidentification of possibly many mill-working decedents as "operatives."

For all localities and for both periods the death rates of the married are strikingly higher than those of the single, the death rates of the former invariably being at least twice as high as those of the single, and in some cases rising to three times as high or even more.

Undoubtedly the married operatives as a group had a higher average age than the single, but since so small a proportion were over 44 years of age, the difference in this respect could hardly have been sufficient to account for any material part of the great difference in their respective death hazards.

In considering causes of this high mortality the hazard from child-birth immediately occurs as probably responsible for a considerable part. Another cause which can not be so definitely asserted or so easily measured is the extra strain of home work to which the married operative is subjected. As has already been mentioned, it is excep-

tional for a female operative not to have some share of housework, sewing, and other domestic duties to perform outside of mill hours. Evidently, however, a housewife, especially if she is a mother, is likely to find her outside tasks much heavier than those which devolve upon an unmarried woman, even though she takes her full part in the work of the home.

The extent of the hazard consequent upon childbirth is shown by Tables 7 and 8. Among the Fall River operatives during the three-year period 26 deaths were ascribed to parturition. In addition there were, as has already been mentioned,^a 14 deaths in which tuberculosis was complicated with parturition, making 40 cases in which childbirth was either the principal or an important contributory cause of death. This cause of death is practically confined to the married who are living with their husbands. Taking this group as given in a preceding table,^b it appears that the death rate among them from parturition was 3.93. This hazard, to which the single are not exposed, accounts for a part of the difference in death rates between the married and single, but still leaves a considerable excess among the married which can not be ascribed to this cause.

The deaths due to parturition, however, throw some light upon that part of the difference which they do not explain. In the age group 15 to 44 the death rate from this cause—including deaths from tuberculosis complicated with childbirth—among Fall River operatives was 1.21 and among Fall River nonoperatives 0.68.^c In other words, the incompatibility between operative work and wifely duties is so great that it practically doubles the hazard from childbirth. Evidently this incompatibility which reduces a married operative's vitality to such a degree that she is almost twice as likely as the nonoperative to die in childbirth must also decrease to a marked degree her power of resistance to other potential causes of death.

EFFECT OF EARLY MARRIAGE FOR FEMALES.

It has been shown that among operatives marriage seems to increase enormously the likelihood of death. A priori, it might be expected that early marriage would increase the hazards of at least the first few years of married life and possibly, through the extra strain thrown upon the wife before her strength is fully developed, might lessen her power of resistance to disease throughout the remainder of her life.

^a See p. 92.

^b See table, p. 144.

^c Female operatives, aged 15 to 44, 11,056; female nonoperatives, same age group, 18,627; deaths due to parturition among above operatives, 40; among above nonoperatives, 38. This comparison is very unsatisfactory, since the proportion of married among the operatives was small and among the nonoperatives large. In the lack of data concerning the age distribution of the married, however, no better comparison is possible.

Unfortunately the lack of adequate information concerning the relation of marriage and age makes it impossible to test this assumption fully, but some indications of its probable truth can be obtained from the facts gathered.

Table 68 shows that the per cent of the married decedents who had been married before reaching the age of 18 was as follows:

PER CENT OF FEMALE MARRIED DECEDENTS WHO WERE MARRIED AT OR BEFORE 18 YEARS.

	Per cent marrying at 18 or earlier.		
	Cotton operatives.	Nonoperatives.	Both classes.
Female married decedents:			
Tuberculous.....	31	30	31
Nontuberculous.....	12	19	20
Total.....	18	21	21

It will be noticed that nearly one-third of the tuberculous married decedents had been married at 18 or earlier and that exactly one-fifth of the nontuberculous had made equally early marriages. Common experience is against the supposition that such large proportions of all marriages are made at these youthful ages, and therefore it seems fair to infer that the early marriages contribute a disproportionate share of deaths. The disproportion seems greatest in the case of tuberculous deaths. As between operatives and nonoperatives, the former show the smaller proportion of deaths connected with early marriages.

No definite assertions can be based on these figures, but the inference seems fair that for females early marriage is a constant though not very marked debilitating influence predisposing to tuberculosis or fatally aggravating it where it already exists, and also, though to a smaller degree, predisposing to death from nontuberculous causes.

PROLIFICACY OF DECEDENTS, WITH THE NUMBER AND PROPORTION OF CHILD SURVIVORS.

A reason frequently assigned for the high mortality of cotton operatives is the prevalence of excessively large families among them. It is assumed that the mother's strength is overtaxed in producing and caring for her numerous children, that the father is unable to provide properly for them, and that lack of proper food, clothing, and care—in a word, destitution—lowers the vitality of the whole family and renders them unresistant victims to tuberculosis or other forms of disease.

From the point of view of this investigation the question is of interest mainly as it affects female operatives; but to show the full situation the following tables have been made out for both sexes. Because of the difference in their age distributions operatives and nonoperatives can not fairly be compared, but since tuberculous deaths occur mainly within the age limits in which the great majority of operatives are found, these two classes of decedents—the tuberculous and the operative—are fairly comparable. Consequently the nonoperative tuberculous decedents are included to show the relative as well as the absolute prolificacy of the operatives. The tables immediately following show the facts for these two classes of decedents.

NUMBER AND PER CENT OF MALE AND FEMALE DECEDENTS WHO WERE AND WERE NOT PARENTS, FOR FALL RIVER AND FOR FALL RIVER, MANCHESTER. AND PAWTUCKET COMBINED, 3 YEARS.

MALES.

Classification of decedents and locality.	Number of decedents.				Per cent of decedents.			
	Single and unknown.	Married but childless.	Married who had had children.	Total.	Single and unknown.	Married but childless.	Married who had had children.	Total.
Tuberculous nonoperatives:								
Fall River	62	8	82	152	41	5	54	100
3 cities	155	24	176	355	44	7	49	100
OPERATIVES.								
Tuberculous:								
Fall River	36	7	51	94	38	8	54	100
3 cities	50	9	71	130	38	7	55	100
Nontuberculous:								
Fall River	62	21	110	193	32	11	57	100
3 cities	90	32	171	293	31	11	58	100
Total operatives:								
Fall River	98	28	161	287	34	10	56	100
3 cities	140	41	242	423	33	10	57	100
Total tuberculous:								
Fall River	98	15	133	246	40	6	54	100
3 cities	205	33	247	485	42	7	51	100

FEMALES.

Tuberculous nonoperatives:								
Fall River	42	5	61	108	39	5	56	100
3 cities	105	19	155	279	38	7	55	100
OPERATIVES.								
Tuberculous:								
Fall River	57	11	44	112	51	10	39	100
3 cities	97	17	75	189	51	9	40	100
Nontuberculous:								
Fall River	69	16	102	187	37	8	55	100
3 cities	115	21	125	261	44	8	48	100
Total operatives:								
Fall River	126	27	146	299	42	9	49	100
3 cities	212	38	200	450	47	8	45	100
Total tuberculous:								
Fall River	99	16	105	220	45	7	48	100
3 cities	202	38	230	468	43	8	49	100

TOTAL NUMBER OF DECEDENTS AND NUMBER AND PER CENT WHO HAD HAD CHILDREN, AND AVERAGE NUMBER OF CHILDREN (LIVING AND DEAD) PER DECEDENT PARENT OF SPECIFIED SEX AND CLASSIFICATION.

MALES.

Classification of decedents and locality.	Decedents.			Children of decedents.		
	Total number in each specified classification.	Number who had had children.	Per cent who had had children.	Average number per decedent parent.	Per-centage of children dead.	Average number living per decedent parent.
Tuberculous nonoperatives:						
Fall River.....	152	82	54	4.5	30	3.2
3 cities.....	355	176	49	3.8	29	2.7
OPERATIVES.						
Tuberculous:						
Fall River.....	94	51	54	3.5	28	2.5
3 cities.....	130	71	55	3.3	31	2.3
Nontuberculous:						
Fall River.....	193	110	57	4.5	29	3.2
3 cities.....	293	171	58	4.4	28	3.2
Total operatives:						
Fall River.....	287	161	56	4.2	29	3.0
3 cities.....	423	242	57	4.1	29	2.9
Total tuberculous:						
Fall River.....	246	133	54	4.1	29	2.9
3 cities.....	485	247	51	3.7	30	2.6

FEMALES.

Tuberculous nonoperatives:						
Fall River.....	108	61	56	4.4	36	2.8
3 cities.....	279	155	55	4.0	31	2.8
OPERATIVES.						
Tuberculous:						
Fall River.....	112	44	39	2.9	48	1.5
3 cities.....	189	75	40	3.0	47	1.6
Nontuberculous:						
Fall River.....	187	102	55	3.3	40	2.0
3 cities.....	261	125	48	3.1	42	1.8
Total operatives:						
Fall River.....	299	146	49	3.1	42	1.8
3 cities.....	450	200	45	3.1	43	1.8
Total tuberculous:						
Fall River.....	220	105	48	3.7	40	2.2
3 cities.....	468	230	49	3.7	35	2.4

Considering first the males, it appears that only a little over half of the operative decedents had ever had children, and that those who had become fathers had averaged only a trifle over four children apiece. Moreover, of these four children on an average one had died in each family, so that the average number of living children per decedent was only three. These averages are not only small, considered by themselves, but are smaller than the corresponding averages for tuberculous nonoperatives. Evidently as far as the operative fathers of the localities studied are concerned either they did not at all generally have the large families ascribed to them, or, if they did, the fathers of such families failed to die at all numerously during the three years covered.

If the tuberculous operatives and nonoperatives are compared, the difference is still more marked. In Fall River the proportion of these

two classes who had had children was identical—54 per cent in each case—but the average number of children per decedent was 4.5 for the nonoperatives to 3.5 for the operatives. In the three cities the proportion who had been fathers was greater among operatives than among nonoperatives, but the average number of children per decedent was smaller. Certainly there is no evidence here that operative males at all generally had such large families as to constitute a handicap in their struggle for existence.

Turning to the female operative decedents, it appears that less than half of them had ever been mothers, and that those who had been averaged only 3.1 children apiece. Moreover, on an average one child in each of these families had died, leaving on an average less than two surviving children for each operative decedent mother. Here, as among the males, there is no justification for ascribing the high operative death rate to the effect of large families.

The tables already quoted show that the average age at death was about the same for the nonoperative tuberculous females and the nontuberculous operative females. Comparing these two classes, the above table shows that a smaller proportion of the operatives than of the nonoperatives had ever borne children, that the operative mothers each averaged a smaller number of children than did the nonoperative, and that a larger proportion of their children died before the mother. This seems to indicate that mill work rather than any large number of children was the important factor in the high death rate of the married operatives; and, further, it gives ground for supposing that mill employment unhandicapped by tuberculosis was a more important factor in the death rate than was even tuberculosis when uncomplicated with mill work.

A comparison of the average age at death of the three classes included in the above tables shows that among female decedents in Fall River who had been mothers tuberculous operatives died at the earliest age. These also had borne the smallest number of children per decedent mother, and showed the largest percentage of deaths among these children.

Next in average at death came the nontuberculous operatives. These showed a moderate degree of child bearing and a moderate mortality among the children produced.

Finally came the tuberculous nonoperatives. These showed a moderate degree of child bearing and the smallest percentage of deaths among the children.

The general relation between these factors—tuberculous infection, industrial or nonindustrial work, degree of prolificacy, and mortality of children—and average age at death may be roughly shown tabularly, as follows:

COMPARATIVE FREQUENCY OF INCIDENCE OF DESIGNATED FACTORS AMONG SPECIFIED CLASSES OF FEMALE MARRIED DECEDENTS IN FALL RIVER DURING 1905 TO 1907, TOGETHER WITH THE RELATIVE LONGEVITY OF SAID CLASSES.

Age group 10 years and over.	Specified debilitating factors.					Casualty and infection.	Average longevity effect.
	Work.	Average prolificacy.	Average percentage of children dead.	Miscellaneous factors.	Resultant effect.		
Class I.—Tuberculous operatives (55).	Exclusively industrial.	Minimum.	Maximum.	(?)	Profound debility.	Tuberculous.	Death very early (age 30); brief illness.
Class II.—Aggregate nontuberculous operatives (118).	...do.....	Next to minimum.	Next to minimum.	(?)	...do.....	Minimal..	Death less early (age 38); illness briefest.
Class III.—Aggregate tuberculous nonoperatives (66).	Minimally industrial.	Moderate.	Minimum.	(?)	Moderate debility.	Tuberculous.	Death least early (age 41); illness longest.

The fact that it averaged 11 years less time for the factors in Class I than for those in Class III to produce a bodily state fatally vulnerable to tuberculosis, points to cotton-mill employment rather than to prolificacy as having been by far the more important causative factor in the death of married Fall River females in 1905 to 1907.

Likewise, Classes II and III would seem to indicate that cotton-mill employment unhandicapped with tuberculosis was basically a weightier factor in fatally terminating motherhood than was absence of operative work even complicated with tuberculosis.

Moreover, the fact that it required eight years less time for the factors in Class I than for those in Class II to effect a fatal result emphasizes how great a life-shortening factor tuberculosis is and what social and economic loss it occasions.

Attention is especially directed to the showing that operative and tuberculous decedent mothers each—the former, however, less than the latter—are characterized by a disproportionately small percentage of child survivors as compared with the percentage of children living at the death of the nonoperative and the nontuberculous mother; and this despite the greater age of the latter maternal classes, and therefore the greater number of years during which children of these latter might have died.

However few the children, therefore, motherhood conjoined to cotton-mill work in Fall River constituted a combination of duties that was prejudicial to child life; and conversely for Fall River female decedent operatives of 1905 to 1907 any extra work outside the mill, including the care of children however few, constituted a seemingly debilitating influence that in the average case, even in the absence of tuberculous infection, was inimical to maternal longevity.

RELATION BETWEEN SEASON OF THE YEAR AND DEATHS.

Following precedent, the tabulation of deaths in this study was at first made by months, and later by the four seasons. But the small variances in these subdivisions seemed of so little practical significance that finally only two seasonal classifications were made—summer, including the season from April 1 to September 30, and winter, from October 1 to March 31. Table 72 (number and per cent of deaths occurring during the periods, etc.) shows to what degree climate may be held immediately responsible for deaths, whether from tuberculosis or the combined nontuberculous causes.

An examination of this table shows that the larger proportion of all deaths occurred in the six colder months, October to March, and that this relation appears without exception in every subdivision of sex, occupation, and cause of death. Females, both operative and non-operative, seemed more susceptible than the corresponding class of males to the effect of cold, showing a larger proportion of their deaths in the winter season. Comparing the occupation groups without respect to sex, nonoperatives show a greater susceptibility than operatives to the winter climate. This comparison is inconclusive, and may indicate only that the effect of cold is very debilitating to the aged, since cotton operatives as a whole comprise a decidedly younger age group than do all nonoperatives aged 10 years and over.

Among the operatives, the winter excess mortality of the males is greater among those dying from tuberculosis than among those dying from nontuberculous causes. Among the females, on the contrary, the tuberculous seem more susceptible than the nontuberculous to the winter cold. This not improbably is ascribable to cold only incidentally to the increased confinement during the winter months of women indoors in improperly ventilated apartments.

On the whole, the effect of the seasons upon mortality in the cities studied though constant is not marked.

RELATION BETWEEN HOUSING CONDITIONS AND DEATH RATES.**GENERAL HOUSING CONDITIONS.**

I. *Fall River, Mass.*—The mills are grouped in five sections of Fall River. Three of these, the "Center" or river group, the "Border City" or northern group, and the "Globe Village" or southern group, are located along or near the bay front. The other principal mill section is "Flint Village," about 2 miles up east from the bay near Watuppa Pond, and lastly a small mill group is situated in the south-east or "Laurel Lake" section. The oldest mills are located on the western slope of the north-to-south ridge that traverses the city, in the central section upon a stream with a fall within three-quarters of a mile of something approximately 130 feet, which gives the city

its name. "Flint Village" and the "Laurel Lake" region, in population 30,000 or more, is essentially a French-Canadian community. The writer encountered there an exceptionally alert unmarried mill girl, aged 30, of French-Canadian parentage, who, native born and life-long resident of the city though she asserted herself to be, nevertheless scarcely spoke English at all, though she said she understood it well enough and that she much regretted she had not been obliged to speak it at the nonpublic school she had attended. Although the gregariousness of French Canadians often found accommodation in occupancy of multiple apartments under a common roof, dwellings of decedents in this French-Canadian section not infrequently were large three-story buildings having a single six-room apartment upon each floor, which was occupied by a family numbering about half a dozen. Neatness was general, but not infrequently the apartment was ill ventilated. Evidence of thrift was usually apparent, and modern culinary conveniences, especially gas ranges, were in common use.

The Portuguese appeared to be displacing the Irish from the least desirable dwellings on the western side hill of the central, and in the southeast-central, and northern sections, where the rooms are small, the usual bedrooms being 3 by 4 yards in size with two or more occupants in each. They also in the northern section occupy old low wooden 16-tenement blocks, dirty and overcrowded and were also massed along the southwestern slope of the Flint Village section near the source of the Quequechan River. Their kitchens seldom had more than a primitive equipment and in summer commonly were infested with flies.

The Poles comprised colonies in the northern, southeast-central, southwest-central, Laurel Lake, and extreme southern sections, where they live chiefly in two-story, two or four apartment, so-called "corporation" houses (now, however, largely privately owned), most of such as are still owned by the mills being kept in fair and some in very good hygienic condition structurally. Occasionally there were encountered instances of two (and in at least one case even three) Polish families occupying each a small bedroom in the same three or four room apartment, all the families utilizing a common large kitchen or living room.

In many instances boxes and benches replaced chairs around the table and, as was also repeatedly observed of the Portuguese, often the women sat cross-legged on the scrubbed but fly-infested floor, engaged in vegetable peeling, mending, or stuffing through a young infant's lips bread or crackers dipped in water and macerated in the fingers of the misguided mother, who, as she poked down the pasty bolus, proudly asserted that thereby she was making her baby "strong."

The wealthier American, English, and Irish decedent nonoperatives and the executive millmen largely had had residence on the high ridge in the slightly northeastern and east-central and south-central sections of the city.

The operative Irish of our decedent period, though scattered throughout the city, largely still evinced an apparent reluctance to quit the immediate neighborhood of the mills in the central section, where a not very uncommon^a type of dwelling was a wooden, two-story, four-apartment building, often in ill repair, its three low-studded rooms—one large three-window living room and two bedrooms (a one-window and a two-window)—usually housing a family of from three to five. In such apartments culinary and other household conveniences, notably gas stoves, were not unusually conspicuous by their absence. Moreover, the common toilet, sometimes befouled or even unflushable, was usually located in the basement, or, in the larger dwellings, occasionally was off the hall in a closet frequently unlighted or dimly lighted only through an aperture in the closet door.

The American and English operative decedents, even in the older or central section, had lived generally in detached two and a half story dwellings containing each two apartments of from four to six rooms fairly well appointed and occupied by less than half a dozen persons.

II. *Manchester, N. H.*—The mills here are grouped compactly along the Merrimac River, extending upward from the left bank of which were long rows of undetached mill-corporation-owned brick houses usually well appointed, except for such light limitations as in some degree necessarily are incident to contiguous or undetached construction. These brick houses were in enviable contrast to the few old blocks of company-owned, low-studded, two-story, undetached dwellings of wood, chiefly cellarless, and with rows of surface toilets, frequently foul, situated midway between each two blocks of such apartment houses. But even these apartments were usually light, not conspicuously overcrowded, and what was true of all the company-

^a How much more common residence in this old type of dwelling was among the Fall River female Irish decedents (8 per cent unreported) than among the 1,022 female decedents in Fall River of aggregate non-Irish races (9 per cent unreported) the following shows:

Races.	Per cent of specified female decedents aged 10 years and over (Fall River, 3 years) having a basement location of toilet.		
	Operatives.	Nonoperatives.	Both classes.
Non-Irish	14	20	19
Irish	48	31	34

owned houses, had a low rental, which rent the tenants stated was even much abated during chance periods of short-time working in the mill. These company-owned houses were occupied chiefly by long-time English, Irish, and French-Canadian operatives, among whom comparative comfort appeared to obtain. Outside these company-owned dwellings, however, the writer encountered repeated instances of extreme squalor.

The Greeks and Poles—recent accessions, and therefore principally young males—largely are massed in noncorporation dwellings or blocks rendered increasingly unhygienic by great overcrowding and by the insanitary personal habits of the tenants.

The French Canadians outside the company-owned houses appeared to be distinctly less thrifty and prosperous than were the same race in Fall River. Many of this race lived on cheerless unshaded streets in two-story, two, four, or six apartment dwellings, separated often, however, by little interspace, though not infrequently they were hived in great three-story, multiapartment buildings, placed often in pairs close together "end on" to the street, with the intervening dark entrance alley swarming with rachitic babies and pallid children. Those of this race perhaps most comfortably housed lived in the eastern or newly built section of the city in modern two and three story, large, six-roomed, three-apartment buildings, some of which were owned by the occupants.

The colony of Germans to the west of the river, however, in thrifty contrast to the preceding race, chiefly occupied well-appointed detached two-story buildings of low rental or personally owned cottages, often with well-cultivated vegetable gardens.

The Americans, English, and Irish outside the corporation-owned houses were usually housed in detached one or two story cottages generally of fair hygienic condition.

III. *Pawtucket, R. I.*—The mills of this pioneer American cotton manufacturing city are diffusely scattered, except for the older ones along the Blackstone River, the newer steam-power mills appearing to have been located with especial reference to good transportation facilities and ample land.

Detached two-apartment buildings, each of four or six rooms, were the common type of operative's dwelling, though many of the Irish, beginning many years back, had established cottage homes of their own on the sandy scrub-pine "Plains" toward "Lebanon" and the Massachusetts line. These wind-swept and sunny cottages of decedents often were most untidy, and (in June) the wafted emanations from their surface toilets not infrequently were most malodorous.

In general, however, the housing conditions, except for the not infrequent surface toilets, were an appreciable advance over those of the other two cities, Fall River and Manchester. Rentals, however,

were very considerably above what obtained in either Fall River or Manchester; perhaps due to the prevalence of possibly higher wages incident to the presence in Pawtucket of many and widely diversified industries necessitating skilled artisans.

The probable hygienic advantage, elsewhere indicated, incident to residence in detached dwellings is obscured and does not receive its legitimate degree of confirmation in Pawtucket mortality data respecting housing conditions, because there an always well-filled institution receives aged infirm poor, chiefly Irish, from a wide area outside the municipal limits. (Over nine-tenths of all decedents from this institution in 1907 were Irish-born.) But a prerequisite to admission to this charitable institution is that the applicant (male or female) shall have reached at least the age of 60 years and be possessed of a considerable degree of infirmity. Obviously, therefore, the mortality of this large institution must be exceedingly high and must have augmented not inconsiderably the total mortality of the city, especially that of the Irish, and appreciably have raised the normal average age at death of all decedents, aged 10 years and over, covered by this study.

HOUSING CONDITIONS, STRUCTURAL.

Information suggestive in a general way of the structural housing conditions of decedents is embodied in the following averages respecting, I. Rooms per capita, II. Apartments per dwelling and III. Annual rental per decedent.

AVERAGE NUMBER OF ROOMS PER PERSON, AVERAGE NUMBER OF APARTMENTS PER DWELLING, AND AVERAGE ANNUAL RENT PER CAPITA OF FEMALE OPERATIVES AND NONOPERATIVES (10 YEARS OF AGE AND OVER) DYING FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, BY RACE, FALL RIVER.

I. AVERAGE NUMBER OF ROOMS PER PERSON.

Classification.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
Operatives:							
Tuberculous.....	0.9	1.0	1.1	0.8	0.9	0.8	0.9
Nontuberculous.....	1.0	1.0	.9	1.1	.9	1.0	1.0
Total.....	.9	1.0	.9	1.0	.9	.9	1.0
Nonoperatives:							
Tuberculous.....	1.0	1.0	1.3	1.0	.9	.7	1.0
Nontuberculous.....	1.2	1.2	1.6	1.3	1.0	.8	1.2
Total.....	1.2	1.2	1.6	1.3	1.0	.8	1.2
Both classes:							
Tuberculous.....	.9	1.0	1.2	.9	.9	.8	1.0
Nontuberculous.....	1.2	1.2	1.5	1.2	1.0	.8	1.2
Grand total.....	1.1	1.1	1.4	1.2	1.0	.8	1.1

AVERAGE NUMBER OF ROOMS PER PERSON, AVERAGE NUMBER OF APARTMENTS PER DWELLING, AND AVERAGE ANNUAL RENT, ETC.—Concluded.

II. AVERAGE NUMBER OF APARTMENTS PER DWELLING.

Classification.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
Operatives:							
Tuberculous.....	5.0	4.0	3.8	3.9	5.8	4.5	4.7
Nontuberculous.....	4.4	4.2	4.0	3.9	4.6	4.9	4.3
Total.....	4.6	4.1	3.9	3.9	5.1	4.8	4.4
Nonoperatives:							
Tuberculous.....	3.9	3.0	3.1	4.2	4.0	3.9	3.8
Nontuberculous.....	3.4	3.5	2.2	2.7	4.3	5.0	3.3
Total.....	3.3	3.5	2.3	2.8	4.2	4.8	3.4
Both classes:							
Tuberculous.....	4.4	3.8	3.3	4.1	5.1	4.1	4.2
Nontuberculous.....	3.4	3.6	2.3	2.9	4.3	5.0	3.5
Grand total.....	3.6	3.6	2.4	3.1	4.5	4.8	3.6

III. AVERAGE ANNUAL RENT PAID PER CAPITA.

Operatives:							
Tuberculous.....	\$20	\$26	\$28	\$21	\$19	\$17	\$21
Nontuberculous.....	21	24	21	24	18	24	22
Total.....	21	25	24	23	19	21	22
Nonoperatives:							
Tuberculous.....	23	22	29	26	23	15	23
Nontuberculous.....	25	25	37	27	20	20	25
Total.....	25	25	37	27	20	19	25
Both classes:							
Tuberculous.....	21	24	28	23	21	16	22
Nontuberculous.....	24	25	36	26	20	20	25
Grand total.....	24	25	35	25	20	19	24

It will be seen that invariably the operative decedents had a smaller average number of rooms per decedent than the nonoperatives, and that they lived in houses containing a large number of apartments. As between tuberculous and nontuberculous decedents, the former showed the same indications of overcrowding as compared with the nontuberculous. Moreover, the fact that the operative and the tuberculous decedents regularly paid a lower rent per capita than the nonoperatives and the nontuberculous justifies the assumption that the former classes occupied less desirable as well as more crowded dwellings. In other words, a connection is at least indicated between overcrowded and undesirable dwellings, and the large death rates of female operatives and the high mortality from tuberculosis among females.

HYGIENIC CONDITIONS OF DECEDENT'S LATE ABODE.

The hygienic condition of a given house or apartment is a complex of many factors—direct sunlight, ventilation, neatness, structural arrangement, freedom from flies, vermin and other germ carriers, possession of bath, sewer connection, pure-water supply, etc. Where so many different items are concerned it is almost inevitable that the

decision of different observers should be affected by the personal element, and that similar combinations of conditions should be variously ranked as fair, good, or poor, according to the observer's unconscious bias. To avoid the errors arising from such variations the following discussion is limited to apartments investigated almost wholly by the writer of this report, who personally inspected the late abodes of over nine-tenths of the female decedents of Fall River, and of all the tuberculous and of practically all the operative decedents of the three cities.

Five classifications were made—excellent, good, fair, poor, and bad. Experience shows that a more accurate determination would have been made had the rather colorless classification "Fair" been subdivided into "Fair plus" and "Fair minus," abodes characterized by the latter term being included with those judged "Poor" and "Bad" as unsatisfactory, and the "Fair plus" being grouped with those deemed satisfactory. As it is, the number of hygienically unsatisfactory abodes is probably materially understated.

Since no figures are available as to the distribution of the population between hygienically satisfactory and unsatisfactory dwellings, it is impossible to construct death rates bearing upon this point, but percentage comparisons can be made of operative and nonoperative decedents who died under such conditions, with the corresponding classes both of the total decedents and of the total population.

The facts concerning the hygienic condition of apartments in which the decedents had died are set forth in full detail in Tables 73 to 83. The following gives a summary of the coincidence of bad apartment hygiene and death among the female decedents of Fall River:

PER CENT OF FEMALE OPERATIVES AND NONOPERATIVES REPORTED AS DYING FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES IN APARTMENTS OF WHICH THE HYGIENIC CONDITIONS WERE UNSATISFACTORY, FALL RIVER, 1907 AND 1905-1907.

Classification.	Tuberculous.		Nontuberculous.		All causes.	
	1907	1905-1907	1907	1905-1907	1907	1905-1907
Operatives.....	50	53	49	33	49	43
Nonoperatives.....	47	42	30	26	32	28
Both classes.....	48	46	32	27	35	31

From this it appears that practically one-third of the female decedents (35 per cent in 1907, 31 per cent in 1905-1907) had died in abodes adjudged hygienically unsatisfactory, and that the proportion dying in such abodes was higher among operatives than among nonoperatives, higher among tuberculous than among nontuberculous, and highest of all among tuberculous operatives.

Turning to the tuberculous decedents of the three cities, the table shows a considerably higher proportion of deaths occurring in hygienically unsatisfactory apartments among operatives than among nonoperatives, and this proportion is higher among male than among female operatives.

The proportion of the tuberculous in each race group dying in unhygienic abodes is given for purposes of comparison, but the number of deaths involved is too small to justify conclusions as to the relative effect of such surroundings. The two races which have in general the highest tuberculous death rates, the Irish and the French Canadian, show a marked proportion of these deaths occurring in unhygienic surroundings; but the "Other races," among whom the death rate is comparatively low, show a much higher proportion than any other group of tuberculous deaths occurring in unhygienic surroundings. This probably means that the "Other races," who are for the most part recent immigrants, are apt to be crowded together in the cheapest and poorest buildings a community offers, and therefore obviously the majority of deaths occurring among them would take place in unsatisfactory surroundings.

Evidently until more definite information is available concerning the housing of the community in general, it will not be possible to measure the effect of unhygienic dwellings in the causation of deaths. The tables show that deaths, and especially tuberculous deaths, occur with marked frequency in unhygienic dwellings. It does not seem probable that from one-third to over one-half of the population of the three cities is unhygienically housed, but if they are not, then the number of tuberculous deaths occurring in unhygienic surroundings is disproportionate. More than this can hardly be said.

CHAPTER IV.

POPULATION AND MORTALITY TABLES.

GENERAL TABLES.

TABLE 1.—NUMBER AND PER CENT OF EACH SPECIFIED RACE OF THE 10 YEARS OF AGE AND OVER, FALL RIVER,

Sex, occupation group, and locality.	Number.		
	Aggregate non-Irish.	Irish.	American.
MALES.			
Operatives:			
Fall River.....	10,980	2,030	690
Manchester.....	3,680	410	477
Pawtucket.....	1,277	354	329
Total.....	15,937	2,794	1,496
Non-operatives:			
Fall River.....	22,982	4,343	6,732
Manchester.....	16,366	3,321	6,880
Pawtucket.....	11,922	3,261	5,287
Total.....	51,270	10,925	18,899
Both classes:			
Fall River.....	33,962	6,373	7,422
Manchester.....	20,046	3,731	7,357
Pawtucket.....	13,199	3,615	5,616
Total.....	67,207	13,719	20,395
FEMALES.			
Operatives:			
Fall River.....	9,376	2,772	784
Manchester.....	4,150	788	386
Pawtucket.....	1,734	897	171
Total.....	15,260	4,457	1,341
Nonoperatives:			
Fall River.....	27,297	5,886	7,512
Manchester.....	18,514	4,416	8,060
Pawtucket.....	12,393	3,712	5,843
Total.....	58,204	14,014	21,415
Both classes:			
Fall River.....	36,673	8,658	8,296
Manchester.....	22,664	5,204	8,446
Pawtucket.....	14,127	4,609	6,014
Total.....	73,464	18,471	22,756
BOTH SEXES.			
Operatives:			
Fall River.....	20,356	4,802	1,474
Manchester.....	7,830	1,198	863
Pawtucket.....	3,011	1,251	500
Total.....	31,197	7,251	2,837
Nonoperatives:			
Fall River.....	50,279	10,229	14,244
Manchester.....	34,880	7,737	14,940
Pawtucket.....	24,315	6,973	11,130
Total.....	109,474	24,939	40,314
Both classes:			
Fall River.....	70,635	15,031	15,718
Manchester.....	42,710	8,935	15,803
Pawtucket.....	27,326	8,224	11,630
Total.....	140,671	32,190	43,151

GENERAL TABLES.

TOTAL IN EACH SEX AND OCCUPATION GROUP OF THE POPULATION MANCHESTER, AND PAWTUCKET, 1906.

Number.				Per cent.					
English.	French Canadian.	Other races.	All races.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.
4,072	4,215	2,003	13,010	84	16	5	31	33	15
282	1,467	1,454	4,090	80	10	12	7	36	35
514	206	228	1,631	78	22	20	31	13	14
4,868	5,888	3,685	18,731	85	15	8	26	31	20
5,044	6,796	4,410	27,325	84	16	25	18	25	16
1,901	6,864	721	19,687	83	17	35	9	35	4
3,488	1,946	1,201	15,183	79	21	35	23	13	8
10,433	15,606	6,332	62,195	82	18	30	17	25	10
9,116	11,011	6,413	40,335	84	16	18	23	27	16
2,183	8,331	2,175	23,777	84	16	31	9	35	9
4,002	2,152	1,429	16,814	78	22	33	24	13	8
15,301	21,494	10,017	80,926	83	17	25	19	27	12
3,254	3,764	1,574	12,148	77	23	6	27	31	13
430	2,398	936	4,938	84	16	8	9	48	19
929	558	76	2,631	66	34	7	35	21	3
4,613	6,720	2,586	19,717	77	23	7	23	34	13
6,900	8,339	4,546	33,183	82	18	23	21	25	13
2,138	7,089	1,227	22,930	81	19	35	9	31	6
3,643	1,672	1,235	16,105	77	23	36	23	10	8
12,681	17,100	7,008	72,218	81	19	30	17	24	10
10,154	12,103	6,120	45,331	81	19	18	22	27	14
2,568	9,487	2,163	27,868	81	19	30	9	34	8
4,572	2,230	1,311	18,736	75	25	32	24	12	7
17,294	23,820	9,594	91,935	80	20	25	19	26	10
7,326	7,979	3,577	25,158	81	19	6	29	32	14
712	3,865	2,390	9,028	87	13	9	8	43	27
1,443	764	304	4,262	71	29	12	34	18	7
9,481	12,608	6,271	38,448	81	19	7	25	33	16
11,944	15,135	8,956	60,508	83	17	23	20	25	15
4,039	13,953	1,948	42,617	82	18	35	9	33	5
7,131	3,618	2,436	31,288	78	22	36	23	11	8
23,114	32,706	13,340	134,413	81	19	30	17	24	10
19,270	23,114	12,533	85,666	82	18	18	22	27	15
4,751	17,818	4,338	51,645	83	17	31	9	35	8
8,574	4,382	2,740	35,550	77	23	33	24	12	8
32,595	45,314	19,611	172,861	81	19	25	19	26	11

GENERAL TABLES.

TABLE 2.—POPULATION 10 YEARS OF AGE AND OVER OF EACH SPECI AND 3 CITIES (FALL RIVER,

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.
10 to 14 years:						
American.....	33	47	937	2,513	970	2,560
English.....	96	108	1,097	1,816	1,193	1,924
Irish.....	26	33	808	1,690	834	1,723
French Canadian.....	114	125	1,325	2,574	1,439	2,699
Other races.....	22	27	818	1,232	840	1,259
Total, all races.....	291	340	4,985	9,825	5,276	10,165
15 to 19 years:						
American.....	249	403	768	2,227	1,017	2,630
English.....	635	749	614	1,224	1,249	1,973
Irish.....	241	318	632	1,451	873	1,769
French Canadian.....	740	1,100	769	1,671	1,509	2,771
Other races.....	435	805	444	487	879	1,292
Total, all races.....	2,300	3,375	3,227	7,060	5,527	10,435
20 to 24 years:						
American.....	138	260	725	2,164	863	2,424
English.....	473	579	587	1,239	1,060	1,818
Irish.....	209	282	532	1,349	741	1,631
French Canadian.....	663	926	617	1,629	1,280	2,555
Other races.....	559	1,006	186	184	745	1,190
Total, all races.....	2,042	3,053	2,647	6,565	4,689	9,618
15 to 24 years:						
American.....	387	663	1,493	4,391	1,880	5,054
English.....	1,108	1,328	1,201	2,463	2,309	3,791
Irish.....	450	600	1,164	2,800	1,614	3,400
French Canadian.....	1,403	2,026	1,336	3,300	2,789	5,326
Other races.....	994	1,811	630	671	1,624	2,482
Total, all races.....	4,342	6,428	5,874	13,625	10,216	20,053
25 to 29 years:						
American.....	80	174	780	2,240	860	2,414
English.....	476	560	581	1,250	1,057	1,810
Irish.....	182	266	557	1,357	739	1,623
French Canadian.....	632	849	645	1,695	1,277	2,544
Other races.....	326	607	417	578	743	1,185
Total, all races.....	1,696	2,456	2,980	7,120	4,676	9,576
30 to 34 years:						
American.....	60	131	722	2,033	782	2,164
English.....	461	550	500	1,074	961	1,624
Irish.....	235	324	437	1,132	672	1,456
French Canadian.....	625	805	535	1,476	1,160	2,281
Other races.....	190	362	485	701	675	1,063
Total, all races.....	1,571	2,172	2,679	6,416	4,250	8,588
25 to 34 years:						
American.....	140	305	1,502	4,273	1,642	4,578
English.....	937	1,110	1,081	2,324	2,018	3,434
Irish.....	417	590	994	2,489	1,411	3,079
French Canadian.....	1,257	1,654	1,180	3,171	2,437	4,825
Other races.....	516	969	902	1,279	1,418	2,248
Total, all races.....	3,267	4,628	5,659	13,536	8,926	18,164
35 to 39 years:						
American.....	38	94	674	1,887	712	1,981
English.....	478	578	396	908	874	1,486
Irish.....	336	457	275	876	611	1,333
French Canadian.....	504	666	552	1,422	1,056	2,088
Other races.....	173	306	442	667	615	973
Total, all races.....	1,529	2,101	2,339	5,760	3,868	7,861

GENERAL TABLES.

FIED RACE, BY SEX, OCCUPATION, AND AGE GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET), 1906.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.
36	46	952	2,487	988	2,533	69	93	1,889	5,000	1,958	5,093
74	95	1,133	1,830	1,207	1,925	170	203	2,230	3,646	2,400	3,849
23	30	1,007	2,026	1,030	2,056	49	63	1,815	3,716	1,864	3,779
75	104	1,865	2,546	1,440	2,650	189	229	2,690	5,120	2,879	5,349
24	27	704	1,040	728	1,067	46	54	1,522	2,272	1,568	2,326
232	302	5,161	9,929	5,393	10,231	523	642	10,146	19,754	10,669	20,396
286	418	816	2,472	1,102	2,890	535	821	1,584	4,699	2,119	5,520
759	1,038	591	1,158	1,350	2,196	1,394	1,787	1,205	2,382	2,599	4,169
353	525	798	1,821	1,151	2,346	594	843	1,430	3,272	2,024	4,115
1,028	1,838	581	1,187	1,609	3,025	1,768	2,938	1,350	2,858	3,118	5,796
561	908	252	1,811	813	1,219	996	1,713	696	798	1,692	2,511
2,987	4,727	3,088	6,949	6,025	11,676	5,287	8,102	6,265	14,009	11,552	22,111
247	372	867	2,665	1,114	3,037	385	632	1,592	4,829	1,977	5,461
712	973	652	1,335	1,364	2,308	1,185	1,552	1,239	2,574	2,424	4,126
510	786	653	1,678	1,163	2,464	719	1,068	1,185	3,027	1,904	4,095
1,008	1,712	618	1,467	1,626	3,179	1,671	2,638	1,235	3,096	2,906	5,734
575	873	247	402	822	1,280	1,134	1,884	433	586	1,567	2,470
3,052	4,721	3,037	7,547	6,089	12,268	5,094	7,774	5,684	14,112	10,778	21,886
533	790	1,683	5,137	2,216	5,927	920	1,453	3,176	9,528	4,096	10,981
1,471	2,011	1,243	2,493	2,714	4,504	2,579	3,339	2,444	4,956	5,023	8,295
863	1,311	1,451	3,499	2,314	4,810	1,313	1,911	2,615	6,299	3,928	8,210
2,036	3,550	1,199	2,654	3,235	6,204	3,439	5,576	2,585	5,954	6,024	11,530
1,136	1,786	499	713	1,635	2,499	2,130	3,597	1,129	1,384	3,259	4,981
6,039	9,448	6,075	14,496	12,114	23,944	10,381	15,876	11,949	28,121	22,330	43,997
96	166	898	2,664	994	2,830	176	340	1,678	4,904	1,854	5,244
505	720	712	1,431	1,217	2,151	981	1,280	1,293	2,681	2,274	3,961
540	844	498	1,454	1,038	2,298	722	1,110	1,955	2,811	1,777	3,921
569	1,004	881	1,959	1,450	2,963	1,201	1,853	1,526	3,654	2,727	5,507
204	349	529	844	733	1,193	530	956	946	1,422	1,476	2,378
1,914	3,083	3,518	8,352	5,432	11,435	3,610	5,539	6,498	15,472	10,108	21,011
50	91	783	2,211	833	2,302	110	222	1,505	4,244	1,615	4,466
426	590	594	1,159	1,020	1,749	887	1,140	1,094	2,233	1,981	3,373
424	667	445	1,201	869	1,868	659	991	882	2,333	1,541	3,324
372	664	843	1,745	1,215	2,409	997	1,469	1,378	3,221	2,375	4,690
85	174	530	797	615	971	275	536	1,015	1,498	1,290	2,034
1,357	2,186	3,195	7,113	4,552	9,299	2,928	4,358	5,874	13,529	8,802	17,887
146	257	1,681	4,875	1,827	5,132	286	562	3,183	9,148	3,469	9,710
931	1,310	1,306	2,590	2,237	3,900	1,868	2,420	2,387	4,914	4,255	7,334
964	1,511	943	2,655	1,907	4,166	1,381	2,101	1,937	5,144	3,318	7,245
941	1,668	1,724	3,704	2,665	5,372	2,198	3,322	2,904	6,875	5,102	10,197
289	523	1,059	1,641	1,348	2,164	805	1,492	1,961	2,920	2,766	4,412
3,271	5,269	6,713	15,465	9,984	20,734	6,538	9,897	12,372	29,001	18,910	38,988
31	70	706	2,001	737	2,071	69	164	1,380	3,888	1,449	4,052
273	411	630	1,162	903	1,573	751	980	1,026	2,070	1,777	3,059
333	602	437	1,979	770	1,681	669	1,059	712	1,955	1,381	3,014
343	636	733	1,532	1,076	2,168	847	1,302	1,285	2,954	2,132	4,256
57	106	487	767	544	873	230	412	929	1,434	1,159	1,846
1,037	1,825	2,993	6,541	4,030	8,366	2,566	3,926	5,332	12,301	7,898	16,227

GENERAL TABLES.

TABLE 2.—POPULATION 10 YEARS OF AGE AND OVER OF EACH SPECI AND 3 CITIES (FALL RIVER, MANCHESTER,

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.
40 to 44 years:						
American.....	33	90	559	1,517	592	1,607
English.....	465	555	262	651	727	1,206
Irish.....	303	417	205	663	508	1,080
French Canadian.....	339	490	540	1,203	879	1,693
Other races.....	110	213	402	576	512	789
Total, all races.....	1,250	1,765	1,968	4,610	3,218	6,375
35 to 44 years:						
American.....	71	184	1,233	3,404	1,304	3,588
English.....	943	1,133	658	1,559	1,601	2,692
Irish.....	639	874	480	1,539	1,119	2,413
French Canadian.....	843	1,156	1,092	2,625	1,935	3,781
Other races.....	283	519	844	1,243	1,127	1,762
Total, all races.....	2,779	3,866	4,307	10,370	7,086	14,236
45 to 54 years:						
American.....	38	164	801	2,215	839	2,379
English.....	647	774	383	1,010	1,030	1,784
Irish.....	358	487	302	1,113	720	1,600
French Canadian.....	426	648	819	1,859	1,245	2,507
Other races.....	150	258	575	910	725	1,168
Total, all races.....	1,619	2,331	2,940	7,107	4,559	9,438
55 to 64 years:						
American.....	17	101	474	1,249	491	1,350
English.....	260	320	342	692	602	1,012
Irish.....	121	174	300	734	421	908
French Canadian.....	143	224	585	1,198	728	1,422
Other races.....	33	72	391	591	424	663
Total, all races.....	574	891	2,092	4,464	2,666	5,355
65 years and over:						
American.....	4	32	292	854	296	886
English.....	81	95	282	569	363	664
Irish.....	19	36	235	560	254	596
French Canadian.....	29	55	409	879	438	934
Other races.....	5	29	250	406	255	435
Total, all races.....	138	247	1,463	3,268	1,606	3,515
Total, 10 years and over:						
American.....	690	1,496	6,732	18,899	7,422	20,395
English.....	4,072	4,868	5,044	10,433	9,116	15,301
Irish.....	2,030	2,794	4,343	10,925	6,373	13,719
French Canadian.....	4,215	5,888	6,796	15,606	11,011	21,494
Other races.....	2,003	3,685	4,410	6,332	6,413	10,017
Total, all races.....	13,010	18,731	27,325	62,195	40,335	80,926

GENERAL TABLES.

FIED RACE, BY SEX, OCCUPATION, AND AGE GROUPS, FALL RIVER, AND PAWTUCKET), 1906—Concluded.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.	Fall River.	3 cities.
22	50	629	1,739	651	1,789	55	140	1,188	3,256	1,243	3,396
218	328	578	1,032	796	1,360	683	883	840	1,683	1,523	2,566
255	423	424	1,029	679	1,452	558	840	629	1,692	1,187	2,532
178	348	771	1,525	949	1,873	517	838	1,311	2,728	1,828	3,566
36	73	444	681	480	754	146	286	846	1,257	992	1,543
709	1,222	2,846	6,006	3,555	7,228	1,959	2,987	4,814	10,616	6,773	13,603
53	120	1,335	3,740	1,388	3,860	124	304	2,568	7,144	2,692	7,448
491	739	1,208	2,194	1,699	2,933	1,434	1,872	1,866	3,753	3,300	5,625
583	1,025	861	2,108	1,449	3,133	1,227	1,899	1,341	3,647	2,568	5,546
521	984	1,504	3,057	2,025	4,041	1,364	2,140	2,596	5,682	3,960	7,822
93	179	931	1,448	1,024	1,627	376	698	1,775	2,691	2,151	3,389
1,746	3,047	5,839	12,547	7,585	15,594	4,525	6,913	10,146	22,917	14,671	29,830
11	84	931	2,536	942	2,620	49	248	1,732	4,751	1,781	4,999
216	342	936	1,649	1,152	1,991	803	1,116	1,319	2,659	2,182	3,775
268	457	715	1,670	983	2,127	626	944	1,077	2,783	1,703	3,727
159	344	1,215	2,399	1,374	2,743	585	992	2,084	4,258	2,619	5,250
28	63	667	1,042	695	1,105	178	321	1,242	1,952	1,420	2,273
682	1,290	4,464	9,296	5,146	10,586	2,301	3,621	7,404	16,403	9,705	20,024
5	38	556	1,518	561	1,556	22	139	1,030	2,767	1,052	2,906
64	106	623	1,077	687	1,183	324	426	965	1,769	1,289	2,195
58	101	527	1,162	585	1,263	179	275	827	1,896	1,006	2,171
30	65	788	1,564	818	1,629	173	289	1,373	2,762	1,546	3,051
4	6	410	650	414	656	37	78	801	1,241	838	1,319
161	316	2,904	5,971	3,065	6,287	735	1,207	4,996	10,435	5,731	11,642
.....	6	374	1,122	374	1,128	4	38	666	1,976	670	2,014
7	10	451	848	458	858	88	105	733	1,417	821	1,522
8	22	382	894	390	916	27	58	617	1,454	644	1,512
2	5	544	1,176	546	1,181	31	60	953	2,055	984	2,115
.....	2	276	474	276	476	5	31	526	880	531	911
17	45	2,027	4,514	2,044	4,559	155	292	3,495	7,782	3,650	8,074
784	1,341	7,512	21,415	8,296	22,756	1,474	2,837	14,244	40,314	15,718	43,151
3,254	4,613	6,900	12,681	10,154	17,294	7,326	9,481	11,944	23,114	19,270	32,595
2,772	4,457	5,886	14,014	8,658	18,471	4,802	7,251	10,229	24,939	15,031	32,190
3,764	6,720	8,339	17,100	12,103	23,820	7,979	12,608	15,135	32,706	23,114	45,314
1,574	2,586	4,546	7,008	6,120	9,594	3,577	6,271	8,956	13,340	12,533	19,611
12,148	19,717	33,183	72,218	45,331	91,935	25,158	38,448	60,508	134,413	85,666	172,861

GENERAL TABLES.

TABLE 3.—NUMBER AND PER CENT OF EACH SPECIFIED RACE OF THE
CULOUS AND FROM NONTUBERCULOUS CAUSES, 10 YEARS OF AGE
YEARS.

TUBERCULOUS DECEDENTS.

Sex, occupation group, locality, and period.		Number.		
		Aggregate non-Irish.	Irish.	American.
MALES.				
Operatives:				
Fall River.....	1 year...	29	11	4
	3 years...	70	24	6
Manchester.....	1 year...	11	1	.....
	3 years...	23	6	2
Pawtucket.....	1 year.....		1	.....
	3 years...	4	3	1
Total, 3 cities.....	1 year...	40	13	4
	3 years...	97	33	9
Nonoperatives:				
Fall River.....	1 year...	27	29	6
	3 years...	80	72	20
Manchester.....	1 year...	23	14	9
	3 years...	72	41	26
Pawtucket.....	1 year...	17	17	6
	3 years...	44	46	19
Total, 3 cities.....	1 year...	67	60	21
	3 years...	196	159	65
Both classes:				
Fall River.....	1 year...	56	40	10
	3 years...	150	96	26
Manchester.....	1 year...	34	15	9
	3 years...	95	47	28
Pawtucket.....	1 year...	17	18	6
	3 years...	48	49	20
Total, 3 cities.....	1 year...	107	73	25
	3 years...	293	192	74
FEMALES.				
Operatives:				
Fall River.....	1 year...	34	13	3
	3 years...	73	39	5
Manchester.....	1 year...	10	7	.....
	3 years...	24	16	2
Pawtucket.....	1 year...	7	7	3
	3 years...	24	13	7
Total, 3 cities.....	1 year...	51	27	6
	3 years...	121	68	14
Nonoperatives:				
Fall River.....	1 year...	24	15	6
	3 years...	76	32	16
Manchester.....	1 year...	28	11	8
	3 years...	80	22	28
Pawtucket.....	1 year...	14	10	3
	3 years...	42	27	13
Total, 3 cities.....	1 year...	66	36	17
	3 years...	198	81	57
Both classes:				
Fall River.....	1 year...	58	28	9
	3 years...	149	71	21
Manchester.....	1 year...	38	18	8
	3 years...	104	58	30
Pawtucket.....	1 year...	21	17	6
	3 years...	66	40	20
Total, 3 cities.....	1 year...	117	63	23
	3 years...	310	149	71

GENERAL TABLES.

TOTAL IN EACH SEX AND OCCUPATION GROUP DYING FROM TUBERCULOSIS AND OVER, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1 AND 3

TUBERCULOUS DECEDENTS.

Number.				Per cent.					
English.	French Canadian.	Other races.	All races.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.
7	12	6	40	72	28	10	17	30	15
19	28	17	94	74	26	6	20	30	18
3	4	4	12	91	9	-----	25	33	33
4	8	9	29	79	21	7	14	27	31
-----	-----	-----	1	-----	100	-----	-----	-----	-----
2	1	-----	7	57	43	14	29	14	-----
10	16	10	53	75	25	7	19	30	19
25	37	26	130	75	25	7	19	29	20
9	7	5	56	48	52	11	16	12	9
24	20	16	152	53	47	13	16	13	11
4	8	2	37	62	38	24	11	22	5
10	27	9	113	64	36	23	9	24	8
5	6	-----	34	50	50	18	14	18	-----
11	11	3	90	49	51	21	12	12	4
18	21	7	127	53	47	17	14	17	5
45	58	28	355	55	45	18	13	16	8
16	19	11	96	58	42	10	17	20	11
43	48	33	246	61	39	11	17	20	13
7	12	6	49	69	31	18	14	25	12
14	35	18	142	67	33	20	10	24	13
5	6	-----	35	48	52	17	14	17	-----
13	12	3	97	49	51	21	13	12	3
28	37	17	180	59	41	14	15	21	9
70	95	54	485	60	40	15	14	20	11
10	16	5	47	72	28	6	21	34	11
16	39	13	112	65	35	4	14	35	12
-----	29	1	17	59	41	-----	-----	53	6
-----	21	1	40	60	40	5	-----	53	2
4	-----	-----	14	50	50	21	29	-----	-----
9	6	2	37	65	35	19	24	16	6
14	25	6	78	65	35	8	18	32	7
25	66	16	189	64	36	7	13	35	9
6	7	5	39	61	39	15	15	18	13
19	24	17	108	70	30	15	17	22	16
2	15	3	39	72	28	21	5	38	8
6	40	6	102	78	22	27	6	39	6
4	5	2	24	58	42	12	17	21	8
14	11	4	69	61	39	19	20	16	6
12	27	10	102	65	35	17	12	26	10
39	75	27	279	71	29	20	14	27	10
16	23	10	86	67	33	10	19	27	11
85	63	80	220	68	32	10	16	29	13
2	24	4	56	68	32	14	4	43	7
6	61	7	142	73	27	21	4	43	5
8	5	2	38	55	45	16	21	13	5
23	17	6	106	62	38	19	22	16	5
26	52	16	180	65	35	13	14	29	9
64	141	43	468	68	32	15	14	20	9

GENERAL TABLES.

TABLE 3.—NUMBER AND PER CENT OF EACH SPECIFIED RACE OF THE TUBERCULOUS AND FROM NONTUBERCULOUS CAUSES, 10 YEARS OF AGE YEARS—Continued.

TUBERCULOUS DECEDENTS—Concluded.

Sex, occupation group, locality, and period.		Number.		
		Aggregate non-Irish.	Irish.	American.
BOTH SEXES.				
Operatives:				
Fall River	1 year...	63	24	7
	3 years..	143	63	11
Manchester	1 year...	21	8	.....
	3 years..	47	22	4
Pawtucket	1 year...	7	8	3
	3 years..	28	16	8
Total, 3 cities	1 year...	91	40	10
	3 years..	218	101	23
Nonoperatives:				
Fall River	1 year...	51	44	12
	3 years..	166	104	36
Manchester	1 year...	51	25	17
	3 years..	152	63	54
Pawtucket	1 year...	31	27	9
	3 years..	86	73	32
Total, 3 cities	1 year...	133	96	38
	3 years..	394	240	122
Both classes:				
Fall River	1 year...	114	68	19
	3 years..	299	167	47
Manchester	1 year...	72	33	17
	3 years..	199	85	58
Pawtucket	1 year...	38	35	12
	3 years..	114	89	40
Total, 3 cities	1 year...	224	136	48
	3 years..	612	341	145

NONTUBERCULOUS DECEDENTS.

Sex, occupation group, locality, and period.		Number.		
		Aggregate non-Irish.	Irish.	American.
MALES.				
Operatives:				
Fall River	1 year...	59	19	6
	3 years..	147	46	11
Manchester	1 year...	22	8	4
	3 years..	56	16	17
Pawtucket	1 year...	10	3	3
	3 years..	22	6	3
Total, 3 cities	1 year...	91	30	13
	3 years..	225	68	31
Nonoperatives:				
Fall River	3 years..	630	315	158
Manchester	1 year...	236	110	58
	1 year...	196	49	98
Pawtucket	1 year...	147	85	61
Total, 3 cities	1 year...	579	244	217
Both classes:				
Fall River	3 years..	777	361	169
Manchester	1 year...	295	129	64
	1 year...	218	57	102
Pawtucket	1 year...	157	88	64
Total, 3 cities	1 year...	670	274	230

GENERAL TABLES.

TOTAL IN EACH SEX AND OCCUPATION GROUP DYING FROM TUBER-
AND OVER, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1 AND 3

TUBERCULOUS DECEDENTS—Concluded.

Number.				Per cent.					
English.	French Canadian.	Other races.	All races.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.
17	28	11	87	72	28	8	19	32	13
35	67	30	206	69	31	5	17	32	15
3	13	5	29	72	28	.....	10	45	17
4	29	10	69	68	32	6	6	42	14
4	.....	.....	15	47	53	20	27	.....	.....
11	7	2	44	64	36	18	25	16	5
24	41	16	131	69	31	8	18	31	12
50	103	42	319	68	32	7	16	32	13
15	14	10	95	54	46	13	16	15	10
43	44	33	260	60	40	14	16	17	13
6	23	5	76	67	33	22	8	30	7
16	67	15	215	71	29	25	8	31	7
9	11	2	58	54	46	16	16	19	3
25	22	7	159	54	46	20	16	14	4
30	48	17	229	58	42	17	13	21	7
84	133	55	634	62	38	19	13	21	9
32	42	21	182	62	38	10	18	23	11
78	111	63	466	64	36	10	17	24	13
9	36	10	105	69	31	16	9	34	10
20	96	25	284	70	30	20	7	34	9
13	11	2	73	52	48	16	18	15	3
36	29	9	203	56	44	20	13	14	4
54	89	33	360	62	38	13	15	25	9
134	236	97	953	64	36	15	14	25	10

NONTUBERCULOUS DECEDENTS.

23	21	9	78	76	24	8	29	27	12
65	48	23	193	76	24	6	33	25	12
4	7	7	30	73	27	13	13	23	24
6	10	23	72	78	22	24	8	14	32
7	.....	.....	13	77	23	23	54	.....	.....
15	2	2	28	79	21	11	54	7	7
34	28	16	121	75	25	11	28	23	13
86	60	48	293	77	23	11	29	21	16
212	183	77	945	67	33	17	23	19	8
71	76	31	346	68	32	17	20	22	9
29	56	13	245	80	20	40	12	23	6
41	27	18	232	64	36	27	17	12	8
141	159	62	823	70	30	26	17	19	8
277	231	100	1,138	68	32	15	24	20	9
94	97	40	424	70	30	15	22	23	10
33	63	20	275	79	21	37	12	23	7
48	27	18	245	64	36	26	20	11	7
175	187	78	944	71	29	24	19	20	8

GENERAL TABLES.

TABLE 3.—NUMBER AND PER CENT OF EACH SPECIFIED RACE OF THE CULOUS AND FROM NONTUBERCULOUS CAUSES, 10 YEARS OF AGE YEARS—Continued.

NONTUBERCULOUS DECEDENTS—Concluded.

Sex, occupation group, locality, and period.		Number.		
		Aggregate non-Irish.	Irish.	American.
FEMALES.				
Operatives:				
Fall River	1 year	50	20	6
	3 years	129	58	14
Manchester	1 year	12	6	2
	3 years	31	18	5
Pawtucket	1 year	6	7	.....
	3 years	12	13	3
Total, 3 cities	1 year	68	33	8
	3 years	172	89	22
Nonoperatives:				
Fall River	3 years	744	419	227
Manchester	1 year	263	146	86
Pawtucket	1 year	228	60	123
	1 year	151	97	65
Total, 3 cities	1 year	642	303	274
Both classes:				
Fall River	3 years	873	477	241
Manchester	1 year	313	166	92
Pawtucket	1 year	240	66	125
	1 year	157	104	65
Total, 3 cities	1 year	710	336	282
BOTH SEXES.				
Operatives:				
Fall River	1 year	109	39	12
	3 years	276	104	25
Manchester	1 year	34	14	6
	3 years	37	34	22
Pawtucket	1 year	16	10	3
	3 years	34	19	6
Total, 3 cities	1 year	159	63	21
	3 years	397	157	53
Nonoperatives:				
Fall River	3 years	1,374	734	385
Manchester	1 year	499	256	144
Pawtucket	1 year	424	109	221
	1 year	298	182	126
Total, 3 cities	1 year	1,221	547	491
Both classes:				
Fall River	3 years	1,650	838	410
Manchester	1 year	608	295	156
Pawtucket	1 year	458	123	227
	1 year	314	192	129
Total, 3 cities	1 year	1,380	610	512

ALL DECEDENTS.

Sex, occupation group, locality, and period.		Number.		
		Aggregate non-Irish.	Irish.	American.
MALES.				
Operatives:				
Fall River	3 years	217	70	17
	1 year	88	30	10
Manchester	1 year	33	9	4
Pawtucket	1 year	10	4	3
Total, 3 cities	1 year	131	43	17

GENERAL TABLES.

TOTAL IN EACH SEX AND OCCUPATION GROUP DYING FROM TUBERCULOSIS AND OVER, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1 AND 3

NONTUBERCULOUS DECEDENTS—Concluded.

Number				Per cent.					
English.	French Canadian.	Other races.	All races.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.
15	22	7	70	71	29	9	21	31	10
42	54	19	187	69	31	8	22	29	10
3	7	-----	49	67	33	11	17	39	-----
11	10	5	18	63	37	10	23	20	10
6	-----	-----	13	46	54	-----	46	-----	-----
8	-----	1	25	48	52	12	32	-----	4
24	29	7	101	68	32	8	24	29	7
61	64	25	261	66	34	8	23	25	10
228	212	77	1,163	64	36	19	20	18	7
69	80	28	409	64	36	21	17	19	7
25	72	8	288	79	21	43	8	25	3
43	30	8	243	61	39	26	20	12	3
142	182	44	945	68	32	29	15	19	5
270	266	96	1,350	65	35	18	20	20	7
84	102	35	479	65	35	19	18	21	7
28	79	8	306	79	21	41	9	26	3
54	30	8	261	60	40	25	21	11	3
166	211	51	1,046	68	32	27	16	20	5
33	43	16	143	74	26	8	26	29	11
107	102	42	380	73	27	7	28	27	11
7	14	7	43	71	29	12	15	29	15
17	20	23	121	72	28	18	14	17	23
13	-----	-----	26	62	38	12	50	-----	-----
23	2	3	53	64	36	11	43	4	6
58	57	23	222	72	28	10	26	26	10
147	124	73	554	72	28	10	27	22	13
440	395	154	2,108	65	35	18	21	19	7
140	156	69	755	66	34	19	18	21	8
54	128	21	533	80	20	42	10	24	4
89	57	26	480	62	38	26	19	12	5
283	341	106	1,768	69	31	28	16	19	6
547	497	196	2,438	67	33	17	22	20	8
178	199	75	903	67	33	17	20	22	8
61	142	28	581	79	21	39	11	24	5
102	57	26	506	62	38	26	20	11	5
341	398	129	1,990	69	31	26	17	20	6

ALL DECEDENTS.

84	76	40	287	76	24	6	30	26	14
30	33	15	118	75	25	9	25	28	13
7	11	11	42	79	21	10	17	26	26
7	-----	-----	14	71	29	21	50	-----	-----
44	44	26	174	75	25	10	25	25	15

GENERAL TABLES.

TABLE 3.—NUMBER AND PER CENT OF EACH SPECIFIED RACE OF THE CULOUS AND FROM NONTUBERCULOUS CAUSES, 10 YEARS OF AGE YEARS—Concluded.

ALL DECEDENTS—Concluded.

Sex, occupation group, locality, and period.	Number.			
	Aggregate non-Irish.	Irish.	American.	
MALES—concluded.				
Nonoperatives:				
Fall River.....	3 years..	710	387	178
Manchester.....	1 year..	263	139	64
Pawtucket.....	1 year..	219	63	107
	1 year..	164	102	67
Total, 3 cities.....	1 year..	646	304	238
Both classes:				
Fall River.....	3 years..	927	457	195
Manchester.....	1 year..	351	169	74
Pawtucket.....	1 year..	252	72	111
	1 year..	174	106	70
Total, 3 cities.....	1 year..	777	347	255
FEMALES.				
Operatives:				
Fall River.....	3 years..	202	97	19
Manchester.....	1 year..	84	33	9
Pawtucket.....	1 year..	22	13	2
	1 year..	13	14	3
Total, 3 cities.....	1 year..	119	60	14
Nonoperatives:				
Fall River.....	3 years..	820	451	243
Manchester.....	1 year..	287	161	92
Pawtucket.....	1 year..	256	71	131
	1 year..	165	107	68
Total, 3 cities.....	1 year..	708	339	291
Both classes:				
Fall River.....	3 years..	1,022	548	262
Manchester.....	1 year..	371	194	101
Pawtucket.....	1 year..	278	84	133
	1 year..	178	121	71
Total, 3 cities.....	1 year..	827	399	305
BOTH SEXES.				
Operatives:				
Fall River.....	3 years..	419	167	36
Manchester.....	1 year..	172	63	19
Pawtucket.....	1 year..	55	22	6
	1 year..	23	18	6
Total, 3 cities.....	1 year..	250	103	31
Nonoperatives:				
Fall River.....	3 years..	1,530	838	421
Manchester.....	1 year..	550	300	156
Pawtucket.....	1 year..	475	134	238
	1 year..	329	209	135
Total, 3 cities.....	1 year..	1,354	643	529
Both classes:				
Fall River.....	3 years..	1,949	1,005	457
Manchester.....	1 year..	722	363	175
Pawtucket.....	1 year..	530	156	244
	1 year..	352	227	141
Total, 3 cities.....	1 year..	1,604	746	560

GENERAL TABLES.

TOTAL IN EACH SEX AND OCCUPATION GROUP DYING FROM TUBERCULOSIS AND OVER, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1 AND 3

ALL DECEDENTS—Concluded.

Number.				Per cent.					
English.	French Canadian.	Other races.	All races.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.
236	203	93	1,097	65	35	16	22	19	8
80	83	36	402	66	34	16	20	21	9
33	64	15	282	78	22	38	12	23	5
46	33	18	266	62	38	25	17	13	7
159	180	69	950	68	32	25	17	19	7
320	279	133	1,384	67	33	14	23	20	10
110	116	51	520	67	33	14	21	22	10
40	75	26	324	78	22	35	12	23	8
53	33	18	280	62	38	25	19	12	6
203	224	95	1,124	69	31	23	18	20	8
58	98	32	299	67	33	6	19	31	11
25	38	12	117	72	28	8	21	33	10
3	16	1	35	63	37	6	8	46	3
10	-----	-----	27	48	52	11	37	-----	-----
38	54	13	179	66	34	8	21	30	7
247	236	94	1,271	64	36	19	19	18	8
75	87	33	448	64	36	21	17	19	7
27	87	11	327	78	22	40	8	27	3
52	35	10	272	61	39	25	19	13	4
154	209	54	1,047	68	32	28	15	20	5
305	329	126	1,570	65	35	17	19	21	8
100	125	45	565	66	34	18	18	22	8
30	103	12	362	77	23	37	8	29	3
62	35	10	299	60	40	24	21	12	3
192	263	67	1,226	67	33	25	16	21	5
142	169	72	586	71	29	16	24	29	12
55	71	27	235	73	27	8	24	30	11
10	27	12	77	71	29	8	13	35	15
17	-----	-----	41	56	44	15	41	-----	-----
82	98	39	353	71	29	9	23	28	11
483	439	187	2,368	65	35	18	20	19	8
155	170	69	850	64	36	18	18	20	8
60	151	26	609	78	22	39	10	25	4
98	68	28	538	61	39	25	18	13	5
313	389	123	1,997	68	32	27	16	19	6
625	608	259	2,954	66	34	15	21	21	9
210	241	96	1,085	67	33	16	20	22	9
70	178	38	686	77	23	36	10	26	5
115	68	28	579	61	39	24	20	12	5
395	487	162	2,350	68	32	24	17	20	7

GENERAL TABLES.

TABLE 4.—AVERAGE AGE AT DEATH AND DEATH RATE PER 1,000 POP TUBERCULOUS DECEDENTS OF EACH SPECIFIED RACE, BY SEX TUCKET, 1 AND 3 YEARS.

TUBERCULOUS DECEDENTS.

Sex, occupation group, locality, and period.		Average age at death.		
		Irish.	American.	English.
MALES.				
Operatives:				
Fall River	1 year	40	25	31
	3 years	36	27	34
Manchester	1 year	39	35	40
	3 years	40	35	43
Pawtucket	1 year	41	15	37
	3 years	38		
Total, 3 cities	1 year	40	27	33
	3 years	37	28	36
Nonoperatives:				
Fall River	1 year	41	42	35
	3 years	39	37	39
Manchester	1 year	36	38	28
	3 years	33	38	33
Pawtucket	1 year	39	41	39
	3 years	39	39	39
Total, 3 cities	1 year	39	40	35
	3 years	37	38	38
Both classes:				
Fall River	1 year	41	35	33
	3 years	38	34	37
Manchester	1 year	36	38	33
	3 years	34	38	36
Pawtucket	1 year	39	41	39
	3 years	39	38	38
Total, 3 cities	1 year	40	37	34
	3 years	37	37	37
FEMALES.				
Operatives:				
Fall River	1 year	31	25	32
	3 years	30	23	31
Manchester	1 year	32	34	26
	3 years	32	23	27
Pawtucket	1 year	29	29	26
	3 years	29	23	27
Total, 3 cities	1 year	30	27	30
	3 years	30	25	30
Nonoperatives:				
Fall River	1 year	36	26	40
	3 years	40	31	32
Manchester	1 year	34	49	45
	3 years	34	40	49
Pawtucket	1 year	41	38	43
	3 years	40	40	43
Total, 3 cities	1 year	37	39	42
	3 years	38	37	39
Both classes:				
Fall River	1 year	34	26	35
	3 years	34	29	32
Manchester	1 year	33	49	45
	3 years	33	40	49
Pawtucket	1 year	36	34	34
	3 years	36	34	37
Total, 3 cities	1 year	34	36	36
	3 years	35	35	35

GENERAL TABLES.

ULATION 10 YEARS OF AGE AND OVER, FOR TUBERCULOUS AND NON-TUBERCULOUS AND OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAW-

TUBERCULOUS DECEDENTS.

Average age at death.			Death rates.						
French Canadian.	Other races.	All races.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
36	27	34	2.64	5.42	5.80	1.72	2.85	3.00	3.07
35	34	34	2.13	3.94	2.90	1.56	2.21	2.83	2.41
31	30	33	2.99	2.44	-----	10.64	2.73	2.75	2.93
32	35	37	2.08	4.88	1.40	4.73	1.82	2.06	2.36
-----	-----	41	-----	2.83	-----	-----	-----	-----	.61
36	-----	34	1.04	2.83	1.01	1.30	1.62	-----	1.43
34	28	34	2.51	4.65	2.67	2.05	2.71	2.72	2.83
34	34	35	2.03	3.94	2.01	1.71	2.09	2.55	2.31
34	38	39	1.17	6.68	.89	1.78	1.03	1.13	2.05
39	35	39	1.16	5.52	.99	1.59	.98	1.21	1.85
37	28	35	1.40	4.22	1.31	2.10	1.16	2.77	1.88
39	38	35	1.47	4.12	1.26	1.75	1.31	4.16	1.91
43	-----	39	1.43	5.21	1.13	1.43	3.08	-----	2.24
43	37	39	1.23	4.70	1.20	1.05	1.88	1.83	1.98
38	35	38	1.31	5.49	1.11	1.73	1.34	1.11	2.04
39	36	38	1.27	4.85	1.15	1.44	1.24	1.47	1.90
35	32	37	1.65	6.28	1.35	1.76	1.72	1.71	2.38
37	34	37	1.47	5.02	1.17	1.57	1.46	1.71	2.03
35	29	35	1.70	4.02	1.22	3.20	1.44	2.76	2.06
37	37	35	1.58	4.20	1.27	2.14	1.40	2.76	1.99
42	-----	39	1.29	4.98	1.07	1.25	2.79	-----	2.08
43	37	39	1.21	4.52	1.19	1.08	1.86	.70	1.92
36	31	37	1.59	5.32	1.22	1.83	1.72	1.70	2.22
37	35	37	1.45	4.67	1.21	1.52	1.47	1.80	2.00
26	25	28	3.63	4.69	3.83	3.07	4.25	3.17	3.87
26	24	28	2.59	4.69	2.13	1.64	3.46	2.76	3.07
27	20	29	2.41	8.88	-----	-----	3.75	1.07	3.44
27	20	29	1.93	6.67	1.73	-----	2.92	.36	2.70
-----	-----	28	4.04	7.80	17.54	4.30	-----	-----	5.32
26	25	27	4.61	4.83	13.65	3.23	3.58	8.77	4.69
26	24	28	3.34	6.06	4.47	3.04	3.72	2.32	3.96
26	24	28	2.64	5.09	3.48	1.81	3.27	2.06	3.20
27	31	33	.88	2.55	.80	.87	.84	1.10	1.17
33	29	34	.93	1.81	.71	.92	.96	1.25	1.09
25	39	35	1.51	2.49	.99	.94	2.11	2.44	1.70
27	46	35	1.44	1.66	1.16	.94	1.88	1.63	1.48
51	34	43	1.13	2.70	.51	1.10	2.99	1.62	1.49
42	34	41	1.13	2.42	.74	1.28	2.19	1.08	1.43
30	34	36	1.13	2.57	.79	.94	1.58	1.43	1.41
31	34	36	1.13	1.93	.89	1.03	1.46	1.28	1.29
26	28	30	1.58	3.24	1.08	1.58	1.90	1.63	1.90
29	27	31	1.35	2.73	.84	1.15	1.73	1.63	1.62
26	34	33	1.68	3.46	.95	.78	2.53	1.85	2.01
27	43	33	1.53	2.43	1.18	.78	2.14	1.08	1.70
51	34	37	1.49	3.69	1.00	1.75	2.24	1.53	2.03
36	31	36	1.56	2.89	1.11	1.68	2.54	1.53	1.89
28	30	32	1.59	3.41	1.01	1.50	2.18	1.67	1.96
29	30	33	1.45	2.69	1.04	1.23	1.97	1.49	1.70

GENERAL TABLES.

TABLE 4.—AVERAGE AGE AT DEATH AND DEATH RATE PER 1,000 POP TUBERCULOUS DECEDENTS OF EACH SPECIFIED RACE, BY SEX TUCKET, 1 AND 3 YEARS—Continued.

TUBERCULOUS DECEDENTS—Concluded.

Sex, occupation group, locality, and period.		Average age at death.		
		Irish.	American.	English.
BOTH SEXES.				
Operatives:				
Fall River	{ 1 year...	35	25	32
	{ 3 years...	32	25	33
Manchester	{ 1 year...	33	35	40
	{ 3 years...	34	35	43
Pawtucket	{ 1 year...	31	29	26
	{ 3 years...	31	22	29
Total, 3 cities	{ 1 year...	33	26	31
	{ 3 years...	32	26	33
Nonoperatives:				
Fall River	{ 1 year...	40	34	37
	{ 3 years...	39	34	36
Manchester	{ 1 year...	35	43	34
	{ 3 years...	33	39	39
Pawtucket	{ 1 year...	39	40	41
	{ 3 years...	39	39	41
Total, 3 cities	{ 1 year...	38	39	37
	{ 3 years...	38	38	38
Both classes:				
Fall River	{ 1 year...	38	31	34
	{ 3 years...	37	32	35
Manchester	{ 1 year...	34	43	36
	{ 3 years...	33	39	40
Pawtucket	{ 1 year...	37	37	36
	{ 3 years...	38	36	37
Total, 3 cities	{ 1 year...	37	37	35
	{ 3 years...	36	36	36

NONTUBERCULOUS DECEDENTS.

Sex, occupation group, locality, and period.		Average age at death.		
		Irish.	American.	English.
MALES.				
Operatives:				
Fall River	{ 1 year...	49	30	48
	{ 3 years...	43	32	50
Manchester	{ 1 year...	49	46	38
	{ 3 years...	45	56	33
Pawtucket	{ 1 year...	59	27	47
	{ 3 years...	54	27	52
Total, 3 cities	{ 1 year...	50	35	47
	{ 3 years...	44	45	49
Nonoperatives:				
Fall River	{ 3 years...	56	59	56
Manchester	{ 1 year...	55	58	55
	{ 1 year...	54	57	55
Pawtucket	{ 1 year...	56	60	56
Total, 3 cities	{ 1 year...	55	58	55
Both classes:				
Fall River	{ 3 years...	54	58	55
Manchester	{ 1 year...	54	55	53
	{ 1 year...	53	57	53
Pawtucket	{ 1 year...	56	59	55
Total, 3 cities	{ 1 year...	55	57	54

GENERAL TABLES.

ULATION 10 YEARS OF AGE AND OVER, FOR TUBERCULOUS AND NON-TUBERCULOUS AND OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAW-

TUBERCULOUS DECEDENTS—Concluded.

Average age at death.			Death rates.						
French Canadian.	Other races.	All races.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
30	26	31	3.10	5.00	4.75	2.32	3.51	3.08	3.46
30	30	31	2.34	4.37	2.49	1.59	2.80	2.80	2.73
28	28	31	2.68	6.68	-----	4.21	3.37	2.09	3.21
28	34	32	2.00	6.12	1.54	1.87	2.50	1.39	2.55
-----	-----	29	2.33	6.40	6.00	2.77	-----	-----	3.52
27	25	28	3.10	4.26	5.33	2.54	3.05	2.19	3.44
29	27	30	2.91	5.51	3.53	2.53	3.25	2.55	3.41
29	30	31	2.33	4.64	2.70	1.76	2.72	2.23	2.77
30	35	37	1.01	4.30	.84	1.26	.92	1.11	1.57
36	32	37	1.03	3.39	.84	1.20	.97	1.23	1.43
29	35	35	1.46	3.23	1.14	1.49	1.62	2.57	1.78
32	41	35	1.45	2.71	1.20	1.32	1.60	2.57	1.68
47	34	41	1.27	3.87	.81	1.26	3.04	.82	1.86
42	35	40	1.18	3.49	.96	1.17	2.03	.96	1.69
34	34	37	1.22	3.85	.94	1.30	1.47	1.27	1.71
35	35	37	1.20	3.21	1.01	1.21	1.36	1.37	1.57
30	30	34	1.61	4.52	1.21	1.66	1.82	1.68	2.13
32	31	34	1.41	3.70	1.00	1.35	1.60	1.68	1.81
29	31	34	1.69	3.69	1.08	1.89	2.02	2.31	2.03
31	38	34	1.55	3.17	1.22	1.40	1.80	1.92	1.83
47	34	38	1.39	4.25	1.03	1.51	2.51	.73	2.05
39	33	37	1.39	3.61	1.15	1.40	2.21	1.09	1.90
32	31	35	1.59	4.22	1.11	1.66	1.97	1.68	2.08
32	33	35	1.45	3.53	1.12	1.37	1.74	1.65	1.84

NONTUBERCULOUS DECEDENTS.

31	34	40	5.37	9.36	8.69	5.65	4.98	4.49	6.00
36	39	42	4.46	7.55	5.31	5.32	3.80	3.83	4.94
34	51	44	5.98	19.51	8.39	14.18	4.77	4.82	7.34
40	48	47	5.07	13.01	11.88	7.09	2.27	5.27	5.87
-----	-----	45	7.83	8.47	9.12	13.62	-----	-----	7.97
45	59	50	5.74	5.65	3.04	9.73	3.24	2.92	5.72
31	43	42	5.71	10.74	8.69	6.99	4.76	4.34	6.46
37	44	44	4.71	8.11	6.91	5.89	3.40	4.34	5.21
54	40	55	9.14	24.18	7.82	14.01	8.98	5.82	11.53
54	41	54	10.27	25.33	8.62	14.08	11.18	7.03	12.66
44	51	53	11.98	14.75	14.24	15.26	8.16	18.03	12.44
53	45	56	12.33	26.07	11.54	11.76	13.88	14.99	15.28
50	44	54	11.29	22.34	11.48	13.51	10.19	9.79	13.23
50	40	53	7.63	18.88	7.59	10.13	6.99	5.20	9.41
49	40	51	8.69	20.24	8.62	10.31	8.81	6.24	10.51
43	51	52	10.87	15.28	13.87	15.12	7.56	9.19	11.57
53	45	56	11.89	24.34	11.39	11.99	12.54	12.60	14.57
47	44	53	9.97	19.97	11.28	11.44	8.70	7.78	11.67

GENERAL TABLES.

TABLE 4.—AVERAGE AGE AT DEATH AND DEATH RATE PER 1,000 POP TUBERCULOUS DECEDENTS OF EACH SPECIFIED RACE, BY SEX TUCKET, 1 AND 3 YEARS—Continued.

NONTUBERCULOUS DECEDENTS—Concluded.

Sex, occupation group, locality, and period.		Average age at death.		
		Irish.	American.	English.
FEMALES.				
Operatives:				
Fall River	1 year	42	33	36
	3 years	39	25	37
Manchester	1 year	31	34	33
	3 years	42	35	38
Pawtucket	1 year	44	.....	43
	3 years	39	31	37
Total, 3 cities	1 year	40	33	37
	3 years	39	28	37
Nonoperatives:				
Fall River	3 years	59	62	60
	1 year	60	61	60
Manchester	1 year	56	61	59
	1 year	61	64	53
Total, 3 cities	1 year	59	62	58
Both classes:				
Fall River	3 years	56	59	56
	1 year	58	59	56
Manchester	1 year	54	61	56
	1 year	60	64	52
Total, 3 cities	1 year	58	61	55
BOTH SEXES.				
Operatives:				
Fall River	1 year	45	32	43
	3 years	41	28	45
Manchester	1 year	41	42	36
	3 years	43	51	36
Pawtucket	1 year	49	27	45
	3 years	44	29	47
Total, 3 cities	1 year	45	34	43
	3 years	42	38	44
Nonoperatives:				
Fall River	3 years	58	61	58
	1 year	58	60	58
Manchester	1 year	55	59	57
	1 year	59	62	55
Total, 3 cities	1 year	58	60	57
Both classes:				
Fall River	3 years	56	59	55
	1 year	56	58	55
Manchester	1 year	54	59	54
	1 year	58	61	53
Total, 3 cities	1 year	56	59	54

ALL DECEDENTS.

		MALES.		
Operatives:				
Fall River	3 years	40	30	46
	1 year	46	28	46
Manchester	1 year	48	46	39
	1 year	55	27	47
Total, 3 cities	1 year	47	33	44

GENERAL TABLES.

ULATION 10 YEARS OF AGE AND OVER, FOR TUBERCULOUS AND NON-TUBERCULOUS AND OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAW-

NONTUBERCULOUS DECEDENTS—Concluded.

Average age at death.			Death rates.						
French Canadian.	Other races.	All races.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
30	22	34	5.33	7.21	7.65	4.61	5.85	4.45	5.76
31	24	34	4.59	6.97	5.95	4.30	4.78	4.02	5.13
26	.....	30	2.89	7.62	5.18	6.98	2.92	.....	3.65
28	33	36	2.49	7.62	4.32	8.53	1.39	1.78	3.31
.....	.....	44	3.46	7.81	.....	6.46	.....	.....	4.94
.....	18	36	2.31	4.83	5.85	2.87	.....	4.39	3.17
29	22	34	4.46	7.40	5.97	5.20	4.32	2.71	5.12
30	26	35	3.76	6.66	5.47	4.41	3.17	3.22	4.41
52	45	58	9.08	23.73	10.07	11.01	8.47	5.64	11.68
58	46	59	9.63	24.80	11.45	10.00	9.59	6.16	12.33
46	58	56	12.32	13.59	15.26	11.69	10.16	6.52	12.56
52	50	58	12.18	26.13	11.13	13.17	17.94	6.48	15.40
52	49	58	11.03	21.62	12.80	11.20	10.64	6.28	13.09
48	41	54	7.93	18.37	9.68	8.86	7.33	5.23	9.92
52	41	55	8.54	19.17	11.09	8.27	8.43	5.72	10.56
44	58	55	10.59	12.68	14.80	10.90	8.33	3.70	10.98
52	50	58	11.11	22.56	10.81	11.81	13.46	6.10	13.93
49	45	56	9.67	18.19	12.39	9.60	8.86	5.31	11.38
30	29	37	5.35	8.12	8.14	5.19	5.39	4.47	5.88
33	32	38	4.52	7.22	5.65	4.87	4.26	3.91	5.03
30	51	39	4.34	11.68	6.95	9.83	3.62	2.93	5.32
34	45	43	3.70	9.46	8.50	7.96	1.72	3.91	4.47
.....	.....	45	5.31	7.99	6.00	9.01	.....	.....	6.10
45	45	43	3.76	5.06	4.00	5.31	.87	3.29	4.15
30	36	38	5.10	8.69	7.40	6.12	4.52	3.67	5.77
34	38	40	4.24	7.22	6.23	5.17	3.28	3.88	4.80
53	42	57	9.11	23.92	9.01	12.28	8.70	5.73	11.62
56	43	56	9.93	25.03	10.11	11.72	10.31	6.59	12.48
45	54	55	12.12	14.09	14.79	13.37	9.05	10.78	12.51
53	47	57	12.26	26.10	11.32	12.48	15.75	10.67	15.34
51	46	56	11.15	21.93	12.18	12.24	10.42	7.95	13.15
49	40	54	7.79	18.59	8.69	9.46	7.17	5.21	9.68
50	40	53	8.61	19.63	9.92	9.24	8.61	5.98	10.54
44	53	53	10.72	13.77	14.36	12.84	7.97	6.45	11.25
53	47	57	11.49	23.35	11.09	11.90	13.01	9.49	14.24
48	44	54	9.81	18.95	11.87	10.46	8.78	6.58	11.51

ALL DECEDENTS.

36	37	40	6.59	11.49	8.21	6.88	6.01	6.66	7.35
32	31	38	8.01	14.78	14.49	7.37	7.83	7.49	9.07
33	43	41	8.97	21.95	8.39	24.82	7.50	7.57	10.27
.....	.....	45	7.83	11.30	9.12	13.62	.....	.....	8.58
32	37	40	8.22	15.39	11.36	9.04	7.47	7.06	9.29

GENERAL TABLES.

TABLE 4.—AVERAGE AGE AT DEATH AND DEATH RATE PER 1,000 POP TUBERCULOUS DECEDENTS OF EACH SPECIFIED RACE, BY SEX TUCKET, 1 AND 3 YEARS—Concluded.

ALL DECEDENTS—Concluded.

Sex, occupation group, locality, and period.		Average age at death.		
		Irish.	American.	English.
MALES—concluded.				
Nonoperatives:				
Fall River	3 years..	53	56	55
Manchester	1 year..	52	56	53
	1 year..	50	55	52
Pawtucket	1 year..	53	59	54
Total, 3 cities	1 year..	52	57	53
Both classes:				
Fall River	3 years..	51	55	52
Manchester	1 year..	51	53	51
	1 year..	50	55	49
Pawtucket	1 year..	53	57	53
Total, 3 cities	1 year..	51	55	51
FEMALES.				
Operatives:				
Fall River	3 years..	35	24	35
Manchester	1 year..	37	30	34
	1 year..	32	34	33
Pawtucket	1 year..	37	29	36
Total, 3 cities	1 year..	36	30	34
Nonoperatives:				
Fall River	3 years..	58	59	58
Manchester	1 year..	58	59	59
	1 year..	52	60	58
Pawtucket	1 year..	59	63	52
Total, 3 cities	1 year..	57	60	56
Both classes:				
Fall River	3 years..	54	57	53
Manchester	1 year..	54	56	53
	1 year..	49	60	55
Pawtucket	1 year..	56	61	50
Total, 3 cities	1 year..	54	59	52
BOTH SEXES.				
Operatives:				
Fall River	3 years..	37	27	42
Manchester	1 year..	41	29	41
	1 year..	39	42	37
Pawtucket	1 year..	41	28	41
Total, 3 cities	1 year..	41	32	39
Nonoperatives:				
Fall River	3 years..	56	58	57
Manchester	1 year..	55	58	56
	1 year..	51	58	55
Pawtucket	1 year..	56	62	53
Total, 3 cities	1 year..	55	59	54
Both classes:				
Fall River	3 years..	53	56	52
Manchester	1 year..	53	55	52
	1 year..	50	58	52
Pawtucket	1 year..	55	59	51
Total, 3 cities	1 year..	53	57	51

GENERAL TABLES.

ULATION 10 YEARS OF AGE AND OVER, FOR TUBERCULOUS AND NON-TUBERCULOUS AND OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWNEE.

ALL DECEDENTS—Concluded.

Average age at death.			Death rates.						
French Canadian.	Other races.	All races.	Aggregate non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
52	39	53	10.30	29.70	8.81	15.60	9.96	7.03	13.38
52	41	52	11.44	32.01	9.51	15.86	12.21	8.16	14.71
43	48	50	13.38	18.97	15.55	17.36	9.32	20.80	14.32
51	45	54	13.76	31.28	12.67	13.19	16.96	14.99	17.52
49	43	52	12.60	27.83	12.59	15.24	11.53	10.90	15.27
48	35	50	9.10	23.90	8.76	11.70	8.45	6.91	11.44
47	38	48	10.34	26.52	9.97	12.07	10.53	7.95	12.89
42	46	49	12.57	19.30	15.09	18.32	9.00	11.95	13.63
51	45	54	13.18	29.32	12.46	13.24	15.33	12.60	16.65
46	41	50	11.56	25.29	12.50	13.27	10.42	9.48	13.89
29	24	32	7.18	11.66	8.08	5.94	8.24	6.78	8.20
28	23	32	8.96	11.90	11.48	7.68	10.10	7.62	9.63
27	20	29	5.30	16.50	5.18	6.98	6.67	1.07	7.09
-----	-----	36	7.50	15.61	17.54	10.76	-----	-----	10.26
28	23	32	7.80	13.46	10.44	8.24	8.04	5.03	9.08
51	42	56	10.01	25.54	10.78	11.93	9.43	6.89	12.77
55	44	57	10.51	27.35	12.25	10.87	10.43	7.26	13.50
43	53	54	13.83	16.08	16.25	12.63	12.27	8.96	14.26
52	47	57	13.31	28.83	11.64	14.27	20.93	8.10	16.89
49	46	56	12.16	24.19	13.59	12.14	12.22	7.71	14.50
44	37	51	9.28	21.10	10.53	10.01	9.06	6.86	11.54
47	38	51	10.12	22.41	12.17	9.85	10.33	7.35	12.46
40	50	51	12.27	16.14	15.75	11.68	10.86	5.55	12.99
52	47	55	12.60	26.25	11.81	13.56	15.70	7.63	15.96
45	42	52	11.26	21.60	13.40	11.10	11.04	6.98	13.34
32	31	36	6.86	11.59	8.14	6.46	7.06	6.71	7.76
30	27	35	8.45	13.12	12.89	7.51	8.90	7.55	9.34
23	41	36	7.02	18.36	6.95	14.04	6.99	5.02	8.53
-----	-----	39	7.64	14.39	12.00	11.78	-----	-----	9.62
30	32	36	8.01	14.20	10.93	5.65	7.77	6.22	9.18
52	41	55	10.14	27.31	9.85	13.48	9.67	6.96	13.05
54	42	55	10.94	29.33	10.95	12.98	11.23	7.70	14.05
43	50	52	13.58	17.32	15.93	14.86	10.67	13.35	17.20
52	46	56	13.53	29.97	12.13	13.74	18.79	11.49	14.29
49	44	54	12.37	25.78	13.12	13.54	11.89	9.22	14.86
46	38	51	9.20	22.29	9.69	10.81	8.77	6.89	11.49
47	38	49	10.22	24.15	11.13	10.90	10.43	7.66	12.67
41	47	50	12.41	17.46	15.44	14.73	9.99	8.76	13.28
52	46	55	12.88	27.60	12.12	13.41	15.52	10.22	16.29
46	41	51	11.40	23.17	12.98	12.12	10.75	8.26	13.59

GENERAL TABLES.

TABLE 5.—DEATHS OF PERSONS 10 YEARS OF AGE AND OVER OF EACH CAUSES, BY SEX, OCCUPATION, AND AGE GROUPS, FALL RIVER, TUCKET), 1 YEAR.

DEATHS, TUBERCULOUS.

Age group and race.	Males.									Females.		
	Operatives.			Nonoperatives.			Both classes.			Operatives.		
	Fall River. 3 years.	3 cities. 1 year.	3 cities. 3 years.	Fall River. 3 years.	3 cities. 1 year.	3 cities. 3 years.	Fall River. 3 years.	3 cities. 1 year.	3 cities. 3 years.	Fall River. 3 years.	3 cities. 1 year.	3 cities. 3 years.
10 to 14 years:												
American.....						1			1			1
English.....						1			1			
Irish.....											1	1
French Canadian.....												
Other races.....												
Total, all races.....						2			2		1	2
15 to 19 years:												
American.....	1		3	4	1	6	5	1	9	1	1	3
English.....	4	1	4	2	3	3	6	4	7	2		3
Irish.....				1	1	5	1	1	5	4	1	7
French Canadian.....	5		6			2	5		8	9	6	14
Other races.....	1	2	2	2	2	5	3	4	7	4	2	4
Total, all races.....	11	3	15	9	7	21	20	10	36	20	10	31
20 to 24 years:												
American.....	3	3	3	3	5	12	6	8	15	3	3	6
English.....	3	2	3	4	4	7	7	6	10	2	4	5
Irish.....	3		4	4	5	13	7	5	17	4	2	6
French Canadian.....	3	2	4		1	2	3	3	6	9	6	19
Other races.....	4	3	5			1	4	3	6	5	2	7
Total, all races.....	16	10	19	11	15	35	27	25	54	23	17	43
15 to 24 years:												
American.....	4	3	6	7	6	18	11	9	24	4	4	9
English.....	7	3	7	6	7	10	13	10	17	4	4	8
Irish.....	3		4	5	6	18	8	6	22	8	3	13
French Canadian.....	8	2	10		1	4	8	3	14	18	12	33
Other races.....	5	5	7	2	2	6	7	7	13	9	4	11
Total, all races.....	27	18	34	20	22	56	47	35	90	43	27	74
25 to 29 years:												
American.....				3	2	10	3	2	10			1
English.....				2	1	5	2	1	5	3	4	5
Irish.....	4	2	5	4	3	20	8	5	25	14	10	21
French Canadian.....	4	2	5	2	2	4	6	4	9	8	4	12
Other races.....		1	1	2		4	2	1	5	1		2
Total, all races.....	8	5	11	13	8	43	21	13	54	26	18	41
30 to 34 years:												
American.....	1	1	1	3	1	6	4	2	7			5
English.....	3	3	6	4	2	7	7	5	13	4	3	5
Irish.....	6	2	7	11	17	32	17	19	39	5	3	12
French Canadian.....	8	6	10	5	9	19	13	15	28	10	7	13
Other races.....	3	2	3	4	1	4	7	3	7	1	1	1
Total, all races.....	21	14	27	27	30	67	48	44	94	20	14	31
25 to 34 years:												
American.....	1	1	1	6	3	16	7	4	17			1
English.....	3	3	6	6	3	12	9	6	18	7	7	10
Irish.....	10	4	12	15	20	52	25	24	64	19	13	33
French Canadian.....	12	8	15	7	11	22	19	19	37	18	11	25
Other races.....	3	3	4	6	1	8	9	4	12	2	1	3
Total, all races.....	29	19	38	40	38	110	69	57	148	46	32	72

GENERAL TABLES.

SPECIFIED RACE FROM TUBERCULOUS AND FROM NONTUBERCULOUS
1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-

DEATHS, TUBERCULOUS.

Females.						Both sexes.								
Nonoperatives.			Both classes.			Operatives.			Nonoperatives.			Both classes.		
Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.
3	3	7	3	3	8	.....	.....	1	3	3	8	.....	3	9
3	.....	3	3	.....	3	.....	.....	.....	3	.....	4	.....	3	4
.....	.....	1	.....	1	2	.....	.....	.....	.....	.....	1	.....	1	2
.....	.....	3	.....	.....	3	.....	.....	.....	.....	.....	3	.....	.....	3
2	.....	2	.....	.....	2	.....	.....	.....	2	.....	2	.....	.....	2
8	3	16	8	4	18	.....	1	2	8	3	18	8	4	20
4	2	7	5	3	10	2	1	6	8	3	13	10	4	19
1	.....	2	3	.....	5	6	1	7	3	3	5	9	4	12
3	3	4	7	4	11	4	1	7	4	4	9	8	5	16
1	4	8	10	10	22	14	6	20	1	4	10	15	10	30
1	.....	2	5	2	6	5	4	6	3	2	7	8	6	13
10	9	23	30	19	54	31	13	46	19	16	44	50	29	90
.....	1	3	3	4	9	6	6	9	3	6	15	9	12	24
3	3	6	5	7	11	5	6	8	5	7	13	12	13	21
1	2	5	5	4	11	7	2	10	7	7	18	12	9	28
2	7	11	11	13	30	12	8	23	2	8	13	14	16	36
3	2	3	8	4	10	9	5	12	3	2	4	12	7	16
9	15	28	32	32	71	39	27	62	20	30	63	59	57	125
4	3	10	8	7	19	8	7	15	11	9	28	19	16	43
4	3	8	8	7	16	11	7	15	10	10	18	21	17	33
4	5	9	12	8	22	11	3	17	9	11	27	20	14	44
3	11	19	21	23	52	26	14	43	3	12	23	29	26	66
4	2	5	13	6	16	14	9	18	6	4	11	20	13	29
19	24	51	62	51	125	70	40	108	39	46	107	109	86	215
2	1	8	2	1	9	.....	.....	1	5	3	18	5	3	19
3	1	6	6	5	11	.....	3	4	5	2	11	8	6	16
4	7	15	18	17	36	18	12	26	8	10	35	26	22	61
6	5	14	14	9	26	12	6	17	8	7	18	20	13	35
3	.....	4	4	.....	6	1	1	3	5	.....	8	6	1	11
18	14	47	44	32	88	34	23	52	31	22	90	65	45	142
1	.....	4	1	.....	4	1	1	1	4	1	10	5	2	11
3	3	4	7	6	9	7	6	11	7	5	11	14	11	22
8	7	16	13	10	28	11	5	19	19	24	48	30	29	67
7	3	18	17	10	31	18	13	23	12	12	36	30	25	59
2	4	4	3	5	5	4	3	4	6	5	8	10	8	12
21	17	46	41	31	77	41	28	58	48	47	113	89	75	171
3	1	12	3	1	13	1	1	1	9	4	28	10	5	30
6	4	10	13	11	20	10	10	16	12	7	22	22	17	38
12	14	31	31	27	64	29	17	45	27	34	83	56	51	128
13	8	32	31	19	57	30	19	40	20	19	54	50	38	94
5	4	8	7	5	11	5	4	7	11	5	16	16	9	23
39	31	93	85	63	165	75	51	110	79	69	203	154	120	313

GENERAL TABLES.

TABLE 5.—DEATHS OF PERSONS 10 YEARS OF AGE AND OVER OF EACH CAUSES, BY SEX, OCCUPATION, AND AGE GROUPS, FALL RIVER, TUCKET), 1 YEAR—Continued.

DEATHS, TUBERCULOUS—Concluded.

Age group and race.	Males.									Females.		
	Operatives.			Nonoperatives.			Both classes.			Operatives.		
	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.
35 to 39 years:												
American.....					2	5		2	5			
English.....	3	1	3	2	1	3	5	2	6	1	1	2
Irish.....	5	4	6	18	8	28	23	12	34	7	7	13
French Canadian.....	3		4	7		8	10		12	2	1	4
Other races.....	3	1	5	1	1	3	4	2	8	2	1	2
Total, all races...	14	6	18	28	12	47	42	18	65	12	10	21
40 to 44 years:												
American.....	1		1		2	3	1	2	4	1	1	2
English.....	3		4	1	3	5	4	3	9	2	1	3
Irish.....	2	2	5	6	9	14	8	11	19	1	1	3
French Canadian.....	3	4	5	1	2	5	4	6	10	1	1	3
Other races.....	3	1	5	1	1	3	4	2	8			
Total, all races...	12	7	20	9	17	30	21	24	50	5	4	11
35 to 44 years:												
American.....	1		1		4	8	1	4	9	1	1	2
English.....	6	1	7	3	4	8	9	5	15	3	2	5
Irish.....	7	6	11	24	17	42	31	23	53	8	8	16
French Canadian.....	6	4	9	8	2	13	14	6	22	3	2	7
Other races.....	6	2	10	2	2	6	8	4	16	2	1	2
Total, all races...	26	13	38	37	29	77	63	42	115	17	14	32
45 to 54 years:												
American.....			1	1	1	7	1	1	8		1	1
English.....	3	3	5	2	1	4	5	4	9	2	1	2
Irish.....	1	1	2	16	9	22	17	10	24	4	2	4
French Canadian.....	2	2	3	3	6	12	5	8	15			1
Other races.....	1		3	6	2	8	7	2	11			
Total, all races...	7	6	14	28	19	53	35	25	67	6	4	8
55 to 64 years:												
American.....				4	4	9	4	4	9			
English.....				4	1	6	4	1	6			
Irish.....	3	2	4	7	5	18	10	7	22			1
French Canadian.....					1	5		1	5			
Other races.....	2		2				2		2			
Total, all races...	5	2	6	15	11	38	20	13	44			1
65 years and over:												
American.....				2	3	6	2	3	6			
English.....				3	2	4	3	2	4			
Irish.....				5	3	7	5	3	7			
French Canadian.....				2		2	2		2			
Other races.....												
Total, all races...				12	8	19	12	8	19			
Total, 10 years and over:												
American.....	6	4	9	20	21	65	26	25	74	5	6	14
English.....	19	10	25	24	18	45	43	28	70	16	14	25
Irish.....	24	13	33	72	60	159	96	73	192	39	27	68
French Canadian.....	28	16	37	20	21	58	48	37	95	39	25	66
Other races.....	17	10	26	16	7	28	33	17	54	13	6	16
Total, all races...	94	53	130	152	127	355	246	180	485	112	78	189

GENERAL TABLES.

SPECIFIED RACE FROM TUBERCULOUS AND FROM NONTUBERCULOUS
1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-

DEATHS, TUBERCULOUS—Concluded.

Females.						Both sexes.								
Nonoperatives.			Both classes.			Operatives.			Nonoperatives.			Both classes.		
Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.
1	1	4	1	1	4				1	3	9	1	3	9
2	6	10	1	1	3	4	2	5	2	1	4	6	3	9
3	4	6	5	5	10	5	1	8	10	4	14	15	5	57
3	2	5	5	3	7	5	2	7	4	3	8	9	5	15
9	13	26	21	23	47	26	16	39	37	25	73	63	41	112
	3	3	1	4	5	2	1	3		5	6	2	6	9
			2	1	3	5	1	7		3	5	6	4	12
1	1	4	2	2	7	3	3	8	1	10	18	10	13	26
	1	4	1	2	7	4	5	8	1	3	9	5	8	17
1	1	1	1	1	1	3	1	5	2	2	4	5	3	9
2	6	12	7	10	23	17	11	31	11	23	42	28	34	73
1	4	7	2	5	9	2	1	3	1	8	15	3	9	18
			3	2	6	9	3	12	3	4	9	12	7	21
3	7	14	11	15	30	15	14	27	27	24	56	42	38	85
3	5	10	6	7	17	9	6	16	11	7	23	20	13	39
4	3	6	6	4	8	8	3	12	6	5	12	14	8	24
11	19	38	28	33	70	43	27	70	48	48	115	91	75	185
3		6	3	1	7		1	2	4	1	13	4	2	15
3	1	6	5	2	8	5	4	7	5	2	10	10	6	17
6	4	13	10	6	17	5	3	6	22	13	35	27	16	41
3		6	3		7	2	2	4	6	6	18	8	8	22
2	1	4	2	1	4	1		3	8	3	12	9	3	15
17	6	35	23	10	43	13	10	22	45	25	88	58	35	110
1	4	7	1	4	7				5	8	16	5	8	16
2	1	4	2	1	4				6	2	10	6	2	10
6	5	10	6	5	11	3	2	5	13	10	28	16	12	33
1	3	4	1	3	4				1	4	9	1	4	9
		1			1	2		2			1	2		3
10	13	26	10	13	27	5	2	7	25	24	64	30	26	71
1	2	8	1	2	8				3	5	14	3	5	14
1	3	7	1	3	7				4	5	11	4	5	11
1	1	3	1	1	3				6	4	10	6	4	10
1		1	1		1				3		3	3		3
		1			1						1			1
4	6	20	4	6	20				16	14	39	16	14	39
16	17	57	21	23	71	11	10	23	36	38	122	47	48	145
19	12	39	35	26	64	35	24	50	43	30	84	78	54	134
32	36	81	71	63	149	63	40	101	104	96	240	167	136	341
24	27	75	63	52	141	67	41	103	44	48	133	111	89	236
17	10	27	30	16	43	30	16	42	33	17	55	63	33	97
108	102	279	220	180	468	206	131	319	260	229	634	466	360	953

GENERAL TABLES.

TABLE 5.—DEATHS OF PERSONS 10 YEARS OF AGE AND OVER OF EACH CAUSES, BY SEX, OCCUPATION, AND AGE GROUPS, FALL RIVER, (TUCKET), 1 YEAR—Continued.

DEATHS, NONTUBERCULOUS.

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
10 to 14 years:						
American.....			5	9	5	9
English.....	2	2	9	1	11	3
Irish.....						
French Canadian.....	1	1	9	8	10	9
Other races.....			10	5	10	5
Total, all races.....	3	3	33	23	36	26
15 to 19 years:						
American.....	3	3		6	3	9
English.....	5	4	1	1	6	5
Irish.....	1		1	1	2	1
French Canadian.....	10	6	7	8	17	14
Other races.....	2	2	6	4	8	6
Total, all races.....	21	15	15	20	36	35
20 to 24 years:						
American.....	2	2	4	4	6	6
English.....	4	3	8	5	12	8
Irish.....	4		7	9	11	9
French Canadian.....	4	4		6	4	10
Other races.....	2	2	5	6	7	8
Total, all races.....	16	11	24	30	40	41
15 to 24 years:						
American.....	5	5	4	10	9	15
English.....	9	7	9	6	18	13
Irish.....	5		8	10	13	10
French Canadian.....	14	10	7	14	21	24
Other races.....	4	4	11	10	15	14
Total, all races.....	37	26	39	50	76	76
25 to 29 years:						
American.....	1	1	6	11	7	12
English.....	2		6	6	8	6
Irish.....	3	1	4	8	7	9
French Canadian.....	5	5	8	9	13	14
Other races.....	2	2	3	3	5	5
Total, all races.....	13	9	27	37	40	46
30 to 34 years:						
American.....	2	3	4	7	6	10
English.....	2		8	7	10	7
Irish.....	8	4	14	15	22	19
French Canadian.....	4	4	11	9	15	13
Other races.....	4		4	4	8	4
Total, all races.....	20	11	41	42	61	53
25 to 34 years:						
American.....	3	4	10	18	13	22
English.....	4		14	13	18	13
Irish.....	11	5	18	23	29	28
French Canadian.....	9	9	19	18	28	27
Other races.....	6	2	7	7	13	9
Total, all races.....	33	20	68	79	101	99

GENERAL TABLES.

SPECIFIED RACE FROM TUBERCULOUS AND FROM NONTUBERCULOUS
1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-

DEATHS, NONTUBERCULOUS.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
1	.....	6	9	7	9	1	.....	11	18	12	18
.....	.....	2	2	2	2	2	2	11	3	13	5
.....	.....	1	1	1	1	.....	.....	1	1	1	1
.....	1	7	9	7	10	1	2	16	17	17	19
.....	.....	7	3	7	3	.....	.....	17	8	17	8
1	1	23	24	24	25	4	4	56	47	60	51
5	1	4	6	9	7	8	4	4	12	12	16
6	1	3	3	9	4	11	5	4	4	15	9
2	.....	3	1	5	1	3	.....	4	2	7	2
8	5	4	10	12	15	18	11	11	18	29	29
3	2	2	.....	5	2	5	4	8	4	13	8
24	9	16	20	40	29	45	24	31	40	76	64
3	1	5	5	8	6	5	3	9	9	14	12
3	2	.....	1	3	3	7	5	8	6	15	11
2	3	6	3	8	6	6	3	13	12	19	15
11	9	3	3	14	12	15	13	3	9	18	22
10	4	5	.....	15	4	12	6	10	6	22	12
29	19	19	12	48	31	45	30	43	42	88	72
8	2	9	11	17	13	13	7	13	21	26	28
9	3	3	4	12	7	18	10	12	10	30	20
4	3	9	4	13	7	9	3	17	14	26	17
19	14	7	13	26	27	33	24	14	27	47	51
13	6	7	.....	20	6	17	10	18	10	35	20
53	28	35	32	88	60	90	54	74	82	164	136
.....	.....	7	6	7	6	1	1	13	17	14	18
4	2	5	2	9	4	6	2	11	8	17	10
5	3	7	8	12	11	8	4	11	16	19	20
6	2	14	16	20	18	11	7	22	25	33	32
3	.....	6	4	9	4	5	2	9	7	14	9
18	7	39	36	57	43	31	16	66	73	97	89
2	2	8	9	10	11	4	5	12	16	16	21
6	4	3	5	9	9	8	4	11	12	19	16
8	3	13	11	21	14	16	7	27	26	43	33
8	4	18	10	26	14	12	8	29	19	41	27
2	1	5	1	7	2	6	1	9	5	15	6
26	14	47	36	73	50	46	25	88	78	134	103
2	2	15	15	17	17	5	6	25	33	30	39
10	6	8	7	18	13	14	6	22	20	36	26
13	6	20	19	33	25	24	11	38	42	62	53
14	6	32	26	46	32	23	15	51	44	74	59
5	1	11	5	16	6	11	3	18	12	29	15
44	21	86	72	130	93	77	41	154	151	231	192

GENERAL TABLES.

TABLE 5.—DEATHS OF PERSONS 10 YEARS OF AGE AND OVER OF EACH CAUSES, BY SEX, OCCUPATION, AND AGE GROUPS, FALL RIVER, TUCKET), 1 YEAR—Continued.

DEATHS, NONTUBERCULOUS—Concluded.

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
35 to 39 years:						
American.....			7	5	7	5
English.....	3	1	8	6	11	7
Irish.....	4	2	22	18	26	20
French Canadian.....	3	1	12	6	15	7
Other races.....	2	1	5	3	7	4
Total, all races.....	12	5	54	38	66	43
40 to 44 years:						
American.....	1	1	3	11	4	12
English.....	2		8	7	10	7
Irish.....	4	4	19	12	23	16
French Canadian.....	6	2	10	10	16	12
Other races.....	2	3	10	6	12	9
Total, all races.....	15	10	50	46	65	56
35 to 44 years:						
American.....	1	1	10	16	11	17
English.....	5	1	16	13	21	14
Irish.....	8	6	41	30	49	36
French Canadian.....	9	3	22	16	31	19
Other races.....	4	4	15	9	19	13
Total, all races.....	27	15	104	84	131	99
45 to 54 years:						
American.....		1	22	20	22	21
English.....	10	7	35	27	45	34
Irish.....	12	6	50	33	62	39
French Canadian.....	9	3	26	25	35	28
Other races.....	5	1	9	7	14	8
Total, all races.....	36	18	142	112	178	130
55 to 64 years:						
American.....	1		37	41	38	41
English.....	23	11	45	32	68	43
Irish.....	6	7	92	68	98	75
French Canadian.....	3	1	36	29	39	30
Other races.....	4	2	14	12	18	14
Total, all races.....	37	21	224	182	261	208
65 years and over:						
American.....	1	2	70	103	71	105
English.....	12	6	84	49	96	55
Irish.....	4	6	106	80	110	86
French Canadian.....	3	1	64	49	67	50
Other races.....		3	11	12	11	15
Total, all races.....	20	18	335	293	355	311
Total, 10 years and over:						
American.....	11	13	158	217	169	230
English.....	65	34	212	141	277	175
Irish.....	46	30	315	244	361	274
French Canadian.....	48	28	183	159	231	187
Other races.....	23	16	77	62	100	78
Total, all races.....	193	121	945	823	1,138	944

GENERAL TABLES.

SPECIFIED RACE FROM TUBERCULOUS AND FROM NONTUBERCULOUS
1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-

DEATHS, NONTUBERCULOUS—Concluded.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
6	4	10	9	10	9	9	5	17	14	17	14
10	7	14	13	20	17	9	5	22	19	31	24
7	1	7	7	17	14	14	9	29	25	43	34
1	1	9	10	16	11	10	2	21	16	31	18
.....	.....	3	3	5	3	3	1	9	6	12	7
24	12	44	42	68	54	36	17	98	80	134	97
4	3	9	9	9	9	1	1	12	20	13	21
12	4	12	2	16	5	6	3	20	9	26	12
10	3	25	21	37	25	16	8	44	33	60	41
.....	.....	13	4	23	7	16	5	23	14	39	19
.....	.....	4	5	4	5	2	3	14	11	16	14
26	10	63	41	89	51	41	20	113	87	154	107
10	7	19	18	19	18	1	1	29	34	30	35
22	11	26	15	36	22	15	8	42	28	57	36
17	4	32	28	54	39	30	17	73	58	103	75
1	.....	22	14	39	18	26	7	44	30	70	37
.....	.....	8	8	9	8	5	4	23	17	28	21
50	22	107	83	157	105	77	37	211	167	288	204
2	3	27	29	29	32	2	4	49	49	51	53
8	5	30	28	38	33	18	12	65	55	83	67
11	8	62	44	73	52	23	14	112	77	135	91
3	3	33	23	36	26	12	6	59	48	71	54
.....	.....	19	10	19	10	5	1	28	17	33	18
24	19	171	134	195	153	60	37	313	246	373	283
1	1	33	46	34	47	2	1	70	87	72	88
4	2	59	29	63	31	27	13	104	61	131	74
7	5	149	70	156	75	13	12	241	138	254	150
1	1	45	36	46	37	4	2	81	65	85	67
.....	.....	15	8	15	8	4	2	29	20	33	22
13	9	301	189	314	198	50	30	525	371	575	401
.....	.....	118	146	118	146	1	2	188	249	189	251
1	1	100	57	101	58	13	7	184	106	197	113
1	.....	146	137	147	137	5	6	252	217	257	223
.....	.....	66	61	66	61	3	1	130	110	133	111
.....	.....	10	10	10	10	.....	3	21	22	21	25
2	1	440	411	442	412	22	19	775	704	797	723
14	8	227	274	241	282	25	21	385	491	410	512
42	24	228	142	270	166	107	58	440	283	547	341
58	33	419	303	477	336	104	63	734	547	838	610
54	29	212	182	266	211	102	57	395	341	497	398
19	7	77	44	96	51	42	23	154	106	196	129
187	101	1,163	945	1,350	1,046	350	222	2,108	1,768	2,488	1,990

GENERAL TABLES.

TABLE 5.—DEATHS OF PERSONS 10 YEARS OF AGE AND OVER OF EACH CAUSES, BY SEX, OCCUPATION, AND AGE GROUPS, FALL RIVER, TUCKET), 1 YEAR—Continued.

DEATHS, ALL CAUSES.

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
10 to 14 years:						
American.....			5	9	5	9
English.....	2	2	9	1	11	3
Irish.....						
French Canadian.....	1	1	9	8	10	9
Other races.....			10	5	10	5
Total, all races.....	3	3	33	23	36	26
15 to 19 years:						
American.....	4	3	4	7	8	10
English.....	9	5	3	4	12	9
Irish.....	1	1	2	2	3	2
French Canadian.....	15	6	7	8	22	14
Other races.....	3	4	8	6	11	10
Total, all races.....	32	18	24	27	56	45
20 to 24 years:						
American.....	5	5	7	9	12	14
English.....	7	5	12	9	19	14
Irish.....	7	1	11	14	18	14
French Canadian.....	7	6	7	7	7	13
Other races.....	6	5	5	6	11	11
Total, all races.....	32	21	35	45	67	66
15 to 24 years:						
American.....	9	8	11	16	20	24
English.....	16	10	15	13	31	23
Irish.....	8	1	13	16	21	16
French Canadian.....	22	12	7	15	29	27
Other races.....	9	9	13	12	22	21
Total, all races.....	64	39	59	72	123	111
25 to 29 years:						
American.....	1	1	9	13	10	14
English.....	2	1	8	7	10	7
Irish.....	7	3	8	11	15	14
French Canadian.....	9	7	10	11	19	18
Other races.....	2	3	5	3	7	6
Total, all races.....	21	14	40	45	61	59
30 to 34 years:						
American.....	3	4	7	8	10	12
English.....	5	3	12	9	17	12
Irish.....	14	6	25	32	39	38
French Canadian.....	12	10	16	18	28	28
Other races.....	7	2	8	5	15	7
Total, all races.....	41	25	68	72	109	97
25 to 34 years:						
American.....	4	5	16	21	20	26
English.....	7	3	20	16	27	19
Irish.....	21	9	33	43	54	52
French Canadian.....	21	17	26	29	47	46
Other races.....	9	5	13	8	22	13
Total, all races.....	62	39	108	117	170	156

GENERAL TABLES.

SPECIFIED RACE FROM TUBERCULOUS AND FROM NONTUBERCULOUS
1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-

DEATHS, ALL CAUSES.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
1	.....	9	12	10	12	1	.....	14	21	15	21
.....	.....	5	2	5	2	2	2	14	3	16	5
.....	1	1	1	1	2	.....	1	1	1	1	2
.....	1	7	9	7	10	.....	2	16	17	17	19
.....	.....	9	3	9	3	.....	.....	19	8	19	8
1	2	31	27	32	29	4	5	64	50	68	55
6	2	8	8	14	10	10	5	12	15	22	20
8	1	4	3	12	4	17	6	7	7	24	13
6	1	6	4	12	5	7	1	8	6	15	7
17	11	5	14	22	25	32	17	12	22	44	39
7	4	3	.....	10	4	10	8	11	6	21	14
44	19	26	29	70	48	76	37	50	56	126	93
6	4	5	6	11	10	11	9	12	15	23	24
5	6	3	4	8	10	12	11	15	13	27	24
6	5	7	5	13	10	13	5	18	19	31	24
20	15	5	10	25	25	27	21	5	17	32	38
15	6	8	2	23	8	21	11	13	8	34	19
52	36	28	27	80	63	84	57	63	72	147	129
12	6	13	14	25	20	21	14	24	30	45	44
13	7	7	7	20	14	29	17	22	20	51	37
12	6	13	9	25	15	20	6	26	25	46	31
37	26	10	24	47	50	59	38	17	39	76	77
22	10	11	2	33	12	31	19	24	14	55	33
96	55	54	56	150	111	160	94	113	128	273	222
.....	.....	9	7	9	7	1	1	18	20	19	21
7	6	8	3	15	9	9	6	16	10	25	16
19	13	11	15	30	28	26	16	19	26	45	42
14	6	20	21	34	27	23	13	30	32	53	45
4	.....	9	4	13	4	6	3	14	7	20	10
44	25	57	50	101	75	65	39	97	95	162	134
2	2	9	9	11	11	5	6	16	17	21	23
10	7	6	8	16	15	15	10	18	17	33	27
13	6	21	18	34	24	27	12	46	50	73	62
18	11	25	13	43	24	30	21	41	31	71	52
3	2	7	5	10	7	10	4	15	10	25	14
46	28	68	53	114	81	87	53	136	125	223	178
2	2	18	16	20	18	6	7	34	37	40	44
17	13	14	11	31	24	24	16	34	27	58	43
32	19	32	33	64	52	53	28	65	76	118	104
32	17	45	34	77	51	53	34	71	63	124	97
7	2	16	9	23	11	16	7	29	17	45	24
90	53	125	103	215	156	152	92	233	220	385	312

GENERAL TABLES.

TABLE 5.—DEATHS OF PERSONS 10 YEARS OF AGE AND OVER OF EACH CAUSES, BY SEX, OCCUPATION, AND AGE-GROUPS, FALL RIVER, TUCKET), 1 YEAR—Concluded.

DEATHS, ALL CAUSES—Concluded.

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
35 to 39 years:						
American.....			7	7	7	7
English.....	6	2	10	7	16	9
Irish.....	9	6	40	26	49	32
French Canadian.....	6	1	19	6	25	7
Other races.....	5	2	6	4	11	6
Total, all races.....	26	11	82	50	108	61
40 to 44 years:						
American.....	2	1	3	13	5	14
English.....	5		9	10	14	10
Irish.....	6	6	25	21	31	27
French Canadian.....	9	6	11	12	20	18
Other races.....	5	4	11	7	16	11
Total, all races.....	27	17	59	63	86	80
35 to 44 years:						
American.....	2	1	10	20	12	21
English.....	11	2	19	17	30	19
Irish.....	15	12	65	47	80	59
French Canadian.....	15	7	30	18	45	25
Other races.....	10	6	17	11	27	17
Total, all races.....	53	28	141	113	194	141
45 to 54 years:						
American.....		1	23	21	23	22
English.....	13	10	37	28	50	38
Irish.....	13	7	66	42	79	49
French Canadian.....	11	5	29	31	40	36
Other races.....	6	1	15	9	21	10
Total, all races.....	43	24	170	131	213	155
55 to 64 years:						
American.....	1		41	45	42	45
English.....	23	11	49	33	72	44
Irish.....	9	9	99	73	108	82
French Canadian.....	3	1	36	30	39	31
Other races.....	6	2	14	12	20	14
Total, all races.....	42	23	239	193	281	216
65 years and over:						
American.....	1	2	72	106	73	108
English.....	12	6	87	51	99	57
Irish.....	4	6	111	83	115	89
French Canadian.....	3	1	66	49	69	50
Other races.....		3	11	12	11	15
Total, all races.....	20	18	347	301	367	319
Total, 10 years and over:						
American.....	17	17	178	238	195	255
English.....	84	44	236	159	320	203
Irish.....	70	43	387	304	457	347
French Canadian.....	76	44	203	180	279	224
Other races.....	40	26	93	69	133	95
Total, all races.....	287	174	1,097	950	1,384	1,124

GENERAL TABLES.

SPECIFIED RACE FROM TUBERCULOUS AND FROM NONTUBERCULOUS
1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-

DEATHS, ALL CAUSES—Concluded.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
7	5	11	10	11	10	13	7	18	17	18	17
17	14	14	13	21	18	7	24	20	37	27	27
9	2	9	13	26	27	20	49	39	75	59	59
3	1	12	14	21	16	15	31	20	46	23	23
		7	5	10	6	8	3	13	9	21	12
36	22	53	55	89	77	62	33	135	105	197	138
1	1	9	12	10	13	3	2	12	25	15	27
6	4	12	2	18	6	11	4	21	12	32	16
13	5	26	22	39	27	19	11	51	43	70	54
11	4	13	5	24	9	20	10	24	17	44	27
		5	6	5	6	5	4	16	13	21	17
31	14	65	47	96	61	58	31	124	110	182	141
1	1	20	22	21	23	3	2	30	42	33	44
13	9	26	15	39	24	24	11	45	32	69	43
30	19	35	35	65	54	45	31	100	82	145	113
20	6	25	19	45	25	35	13	55	37	90	50
3	1	12	11	15	12	13	7	29	22	42	29
67	36	118	102	185	138	120	64	259	215	379	279
2	4	30	29	32	33	2	5	53	50	55	55
10	6	33	29	43	35	23	16	70	57	93	73
15	10	68	48	83	58	28	17	134	90	162	107
3	3	36	23	39	26	14	8	65	54	79	62
		21	11	21	11	6	1	36	20	42	21
30	23	188	140	218	163	73	47	358	271	431	318
1	1	34	50	35	51	2	1	75	95	77	96
4	2	61	30	65	32	27	13	110	63	137	76
7	5	155	75	162	80	16	14	254	148	270	162
1	1	46	39	47	40	4	2	82	69	86	71
		15	8	15	8	6	2	29	20	35	22
13	9	311	202	324	211	55	32	550	395	605	427
		119	148	119	148	1	2	191	254	192	256
1	1	101	60	102	61	13	7	188	111	201	118
1		147	138	148	138	5	6	258	221	263	227
		67	61	67	61	3	1	133	110	136	111
		10	10	10	10		3	21	22	21	25
2	1	444	417	446	418	22	19	791	718	813	737
19	14	243	291	262	305	36	31	421	529	457	560
58	38	247	154	305	192	142	82	483	313	625	395
97	60	451	339	548	399	167	103	838	643	1,005	746
93	54	236	209	329	263	169	98	439	389	608	487
32	13	94	54	126	67	72	39	187	123	259	162
299	179	1,271	1,047	1,570	1,226	586	353	2,368	1,997	2,954	2,350

GENERAL TABLES.

TABLE 6.—DEATH RATE PER 1,000 POPULATION 10 YEARS OF AGE AND NONTUBERCULOUS CAUSES, BY SEX, OCCUPATION, AND AGE (CHESTER, AND PAWTUCKET), 1 YEAR.

DEATH RATE PER 1,000 FROM TUBERCULOSIS.

Age group and race.	Males.									Females.		
	Operatives.			Nonoperatives.			Both classes.			Operatives.		
	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.
10 to 14 years:												
American.....						0.13			0.13			7.25
English.....						.18			.17			
Irish.....											33.33	11.11
French Canadian.....												
Other races.....												
Total, all races ..						.07			.07		3.31	2.21
15 to 19 years:												
American.....	1.34		2.48	1.74	0.45	.90	1.64	0.38	1.14	1.16	2.39	2.39
English.....	2.10	1.34	1.78	1.09	2.45	.82	1.60	2.03	1.18	.88		.96
Irish.....				.53	.69	1.15	.38	.57	.94	3.78	1.90	4.44
French Canadian.....	2.25		1.82			.40	1.10		.96	2.92	3.26	2.54
Other races.....	.77	2.48	.83	1.50	4.11	3.42	1.14	3.10	1.81	2.38	2.20	1.47
Total, all races ..	1.60	.89	1.48	.93	.99	.99	1.21	.96	1.15	2.23	2.12	2.19
20 to 24 years:												
American.....	7.25	11.54	3.85	1.38	2.31	1.85	2.32	3.30	2.06	4.05	8.06	5.38
English.....	2.11	3.46	1.73	2.27	3.23	1.88	2.20	3.30	1.83	.94	4.11	1.71
Irish.....	4.78		4.73	2.51	3.71	3.21	3.15	3.06	3.47	2.61	2.54	2.54
French Canadian.....	1.51	2.16	1.44		.62	.41	.78	1.18	.78	2.61	3.50	3.70
Other races.....	2.39	2.98	1.66			1.81	1.79	2.52	1.68	2.90	2.28	2.66
Total, all races ..	2.61	3.28	2.07	1.39	2.28	1.78	1.92	2.60	1.87	2.51	3.60	3.04
15 to 24 years:												
American.....	3.44	4.53	3.02	1.56	1.36	1.37	1.95	1.78	1.58	2.50	5.06	3.80
English.....	2.10	2.26	1.76	1.66	2.84	1.35	1.88	2.64	1.49	.91	1.99	1.33
Irish.....	2.22		2.22	1.43	2.14	2.14	1.65	1.77	2.16	3.09	2.29	3.31
French Canadian.....	1.90	.99	1.65		.31	.40	.96	.56	.83	2.95	3.38	3.10
Other races.....	1.68	2.76	1.29	1.06	2.98	2.98	1.44	2.82	1.75	2.64	2.24	2.05
Total, all races ..	2.07	2.02	1.76	1.14	1.61	1.37	1.53	1.75	1.50	2.37	2.86	2.61
25 to 29 years:												
American.....				1.28	.89	1.49	1.16	.83	1.38			2.01
English.....				1.15	.80	1.33	.63	.55	.92	1.98	5.55	2.31
Irish.....	7.33	7.52	6.27	2.39	2.21	4.91	3.61	3.08	5.13	8.64	11.85	8.29
French Canadian.....	2.11	2.35	1.96	1.03	1.18	.79	1.57	1.57	1.18	4.69	3.99	3.98
Other races.....		1.65	.55	1.60		2.31	.90	.84	1.40	1.64		1.91
Total, all races ..	1.57	2.04	1.49	1.45	1.12	2.01	1.50	1.36	1.88	4.53	5.84	4.43
30 to 34 years:												
American.....	5.56	7.63	2.54	1.38	.49	.98	1.70	.93	1.08			
English.....	2.17	5.45	3.64	2.67	1.86	2.17	2.43	3.08	2.67	3.13	5.08	2.82
Irish.....	8.51	6.17	7.20	8.39	15.02	9.42	8.43	13.05	8.93	3.93	4.50	6.00
French Canadian.....	4.27	7.45	4.14	3.12	6.10	4.07	3.74	6.58	4.09	8.96	10.54	6.53
Other races.....	5.26	5.52	2.76	2.75	1.43	1.90	3.46	2.82	2.20	3.92	5.75	1.92
Total, all races ..	4.46	6.45	4.14	3.36	4.67	3.48	3.77	5.12	3.65	4.91	6.40	4.73
25 to 34 years:												
American.....	2.38	3.28	1.09	1.33	.70	1.25	1.42	.87	1.24			1.30
English.....	1.07	2.70	1.80	1.85	1.29	1.72	1.49	1.75	1.75	2.51	5.34	2.54
Irish.....	8.00	6.78	6.78	5.03	8.04	6.96	5.91	7.80	6.93	6.57	8.60	7.28
French Canadian.....	3.18	4.84	3.02	1.98	3.47	2.31	2.60	3.94	2.56	6.38	6.59	5.00
Other races.....	1.94	3.10	1.38	2.22	.78	2.09	2.11	1.78	1.78	2.30	1.91	1.91
Total, all races ..	2.96	4.11	2.74	2.36	2.81	2.71	2.58	3.14	2.72	4.69	6.07	4.55

GENERAL TABLES.

OVER OF EACH SPECIFIED RACE FROM TUBERCULOUS AND FROM GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MAN-

DEATH RATE PER 1,000 FROM TUBERCULOSIS.

Females.						Both sexes.								
Nonoperatives.			Both classes.			Operatives.			Nonoperatives.			Both classes.		
Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.
1.05	1.21	0.94	1.01	1.19	1.05	.....	.....	3.58	0.53	0.60	0.55	0.51	0.59	0.59
.88	.....	.55	.83	.....	.52	.....	.....	.....	.45	.....	.37	.42	.....	.35
.....	.....	.16	.....	.49	.32	.....	.....	15.87	5.29	.....	.09	.....	.26	.18
.....	.....	.39	.....	.....	.38	.....	.....	.....	.....	.....	.20	.....	.....	.19
.95	.....	.64	.92	.....	.62	.....	.....	.....	.44	.....	.29	.43	.....	.29
.....	.30	.54	.50	.39	.59	.....	1.56	1.04	.26	.15	.30	.25	.20	.33
1.63	.81	.94	1.51	1.04	1.15	1.25	1.22	2.44	1.69	.64	.92	1.57	.72	1.15
.57	.....	.59	.74	.....	.76	1.44	.56	1.31	.83	1.26	.69	1.16	.96	.96
1.25	1.65	.73	2.03	1.70	1.56	2.25	1.19	2.77	.93	1.22	.92	1.32	1.21	1.30
.57	3.37	2.25	2.07	3.30	2.42	2.64	2.04	2.27	.25	1.40	1.17	1.60	1.73	1.73
1.32	.....	2.14	2.05	1.64	1.64	1.67	2.34	1.17	1.44	2.51	2.92	1.58	2.39	1.73
1.10	1.29	1.10	1.66	1.63	1.54	1.95	1.61	1.89	1.01	1.14	1.05	1.44	1.31	1.36
.....	.37	.38	.90	1.32	.99	5.19	9.49	4.75	.63	1.24	1.04	1.52	2.20	1.46
1.53	2.25	1.50	1.22	3.03	1.60	1.41	3.87	1.72	1.89	2.72	1.68	1.65	3.15	1.70
.51	1.19	.99	1.44	1.62	1.49	3.25	1.87	3.12	1.40	2.31	1.98	2.10	2.20	2.23
1.08	4.77	2.50	2.26	4.09	3.15	2.40	3.03	2.91	.54	2.58	1.40	1.61	2.79	2.09
4.05	4.98	2.49	3.25	3.13	2.60	2.64	2.65	2.12	2.31	3.41	2.28	2.55	2.83	2.16
.....	.99	1.99	1.24	1.75	2.61	1.93	2.55	3.47	2.66	1.17	2.12	1.49	1.83	2.60
.79	.59	.64	1.20	1.18	1.07	2.90	4.82	3.44	1.16	.95	.98	1.55	1.46	1.31
1.07	1.20	1.07	.98	1.55	1.18	1.42	2.10	1.50	1.36	2.02	1.21	1.39	2.05	1.33
.92	1.43	.86	1.73	1.66	1.52	2.79	1.57	2.97	1.15	1.75	1.43	1.70	1.71	1.79
.83	4.14	2.39	2.16	3.71	2.79	2.52	2.51	2.57	.39	2.02	1.29	1.61	2.26	1.91
2.67	2.81	2.34	2.65	2.40	2.13	2.19	2.50	1.67	1.77	2.89	2.65	2.05	2.61	1.94
1.04	1.65	1.17	1.71	2.13	1.74	2.25	2.52	2.27	1.09	1.63	1.27	1.63	1.96	1.63
.74	.38	1.00	.67	.35	1.06	.....	.....	.98	1.00	.61	1.22	.90	.57	1.21
1.41	.70	1.40	1.64	2.32	1.70	1.02	3.13	1.30	1.29	.75	1.37	1.17	1.52	1.35
2.68	4.82	3.44	5.78	7.40	5.22	8.31	10.81	7.81	2.53	3.56	4.15	4.88	5.61	5.19
2.27	2.55	2.38	3.22	3.04	2.92	3.33	3.24	3.06	1.75	1.92	1.64	2.45	2.36	2.12
1.89	.....	1.58	1.82	.....	1.68	.63	1.05	1.05	1.76	.....	1.88	1.36	.42	1.54
1.71	1.68	1.88	2.70	2.80	2.57	3.14	4.15	3.13	1.59	1.42	1.94	2.14	2.14	2.25
.42	.....	.60	.40	.....	.58	3.03	4.51	1.50	.88	.24	.79	1.03	.45	.82
1.68	2.59	1.15	2.29	3.43	1.72	2.63	5.26	3.22	2.13	2.24	1.64	2.35	3.26	2.17
5.99	5.83	4.44	4.99	5.35	5.00	5.57	5.05	6.39	7.18	10.29	6.86	6.49	8.72	6.72
2.77	1.72	3.44	4.67	4.15	4.29	6.02	8.85	5.22	2.90	3.72	3.73	4.21	5.33	4.19
1.26	5.02	1.67	1.63	5.15	1.72	4.85	5.60	2.49	1.97	3.34	1.78	2.58	3.93	1.97
2.19	2.39	2.16	3.00	3.33	2.76	4.67	6.42	4.44	2.73	3.47	2.78	3.37	4.19	3.19
.60	.20	.82	.55	.20	.84	1.16	1.78	.59	.94	.43	1.02	.96	.51	1.03
1.53	1.55	1.29	1.94	2.82	1.71	1.78	4.13	2.20	1.68	1.42	1.49	1.72	2.32	1.73
4.24	5.27	3.89	5.42	6.48	5.12	7.00	8.09	7.14	4.65	6.61	5.38	5.62	7.04	5.89
2.51	2.16	2.88	3.88	3.54	3.54	4.55	5.72	4.01	2.30	2.76	2.62	3.27	3.73	3.07
1.58	2.44	1.63	1.73	2.31	1.69	2.07	2.68	1.56	1.87	1.71	1.83	1.93	2.04	1.74
1.94	2.00	2.00	2.84	3.04	2.65	3.82	5.16	3.70	2.13	2.38	2.33	2.72	3.08	2.68

GENERAL TABLES.

TABLE 6.—DEATH RATE PER 1,000 POPULATION 10 YEARS OF AGE AND NONTUBERCULOUS CAUSES, BY SEX, OCCUPATION, AND AGE (CHESTER, AND PAWTUCKET), 1 YEAR—Continued.

DEATH RATE PER 1,000 FROM TUBERCULOSIS—Concluded.

Age group and race.	Males.									Females.		
	Operatives.			Nonoperatives.			Both classes.			Operatives.		
	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.
35 to 39 years:												
American.....					1.06	0.88		1.01	0.84			
English.....	2.09	1.73	1.73	1.68	1.10	1.10	1.91	1.35	1.35	1.22	2.44	1.62
Irish.....	4.96	8.75	4.38	21.82	9.13	10.65	12.55	9.00	8.50	7.01	11.63	7.20
French Canadian.....	1.98		2.00	4.23		1.88	3.16		1.92	1.95	1.57	2.10
Other races.....	5.78	3.27	5.45	.75	1.50	1.50	2.17	2.06	2.74	11.69	9.43	6.29
Total, all races..	3.05	2.86	2.86	3.99	2.08	2.72	3.62	2.29	2.76	3.86	5.48	3.84
40 to 44 years:												
American.....	10.10		3.70		1.32	.66	.57	1.24	.83	15.15	20.00	13.33
English.....	2.15		2.40	1.27	4.61	2.56	1.83	2.49	2.49	3.06	3.05	3.05
Irish.....	2.20	4.80	4.00	9.76	13.57	7.04	5.25	10.19	5.86	1.31	2.36	2.36
French Canadian.....	2.95	8.16	3.40	.62	1.66	1.39	1.51	3.54	1.97	1.87	2.87	2.87
Other races.....	9.09	4.70	7.82	.83	1.73	1.74	2.61	2.53	3.38			
Total, all races..	3.20	3.97	3.78	1.52	3.69	2.17	2.18	3.77	2.61	2.35	3.28	3.00
35 to 44 years:												
American.....	4.69		1.81		1.18	.78	.26	1.11	.84	6.29	8.33	5.56
English.....	2.12	.88	2.06	1.52	2.56	1.71	1.88	1.86	1.86	2.04	2.71	2.26
Irish.....	3.65	6.86	4.20	16.67	11.05	9.10	9.23	9.53	7.32	4.54	7.81	5.20
French Canadian.....	2.37	3.46	2.60	2.44	.76	1.65	2.41	1.59	1.94	1.92	2.03	2.37
Other races.....	7.07	3.85	6.42	.79	1.61	1.61	2.37	2.27	3.03	7.17	5.59	3.72
Total, all races..	3.12	3.36	3.28	2.86	2.80	2.48	2.97	2.95	2.69	3.24	4.59	3.50
45 to 54 years:												
American.....			2.03	.41	.45	1.05	.40	.42	1.12		11.91	3.97
English.....	1.55	3.88	2.15	1.74	.99	1.32	1.62	2.24	1.68	3.09	2.92	1.95
Irish.....	.93	2.05	1.37	14.73	8.09	6.59	7.87	6.25	5.00	4.98	4.38	2.92
French Canadian.....	1.57	3.09	1.54	1.22	3.23	2.15	1.34	3.19	1.99			.97
Other races.....	2.22		3.88	3.48	2.20	2.93	3.22	1.71	3.14			
Total, all races..	1.44	2.58	2.00	3.17	2.67	2.49	2.56	2.65	2.37	2.93	3.10	2.07
55 to 64 years:												
American.....				2.81	3.20	2.40	2.71	2.96	2.22			
English.....				3.90	1.45	2.89	2.22	.99	1.98			
Irish.....	8.26	11.49	7.66	7.78	6.81	8.17	7.92	7.71	8.08			3.30
French Canadian.....					.83	1.39		.70	1.17			
Other races.....	20.20		9.26				1.57		1.01			
Total, all races..	2.90	2.24	2.24	2.39	2.46	2.84	2.50	2.43	2.74			1.05
65 years and over:												
American.....				2.28	3.51	2.34	2.25	3.39	2.26			
English.....				3.55	3.51	2.34	2.76	3.01	2.01			
Irish.....				7.09	5.36	4.17	6.56	5.03	3.91			
French Canadian.....				1.63		.76	1.52		.71			
Other races.....												
Total, all races..				2.72	2.45	1.94	2.49	2.27	1.80			
Total, 10 years and over:												
American.....	2.90	2.67	2.01	.99	1.11	1.15	1.17	1.22	1.21	2.13	4.47	3.48
English.....	1.56	2.05	1.71	1.59	1.73	1.44	1.57	1.83	1.52	1.64	3.04	1.81
Irish.....	3.94	4.65	3.94	5.52	5.49	4.85	5.02	5.32	4.67	4.69	6.06	5.09
French Canadian.....	2.21	2.71	2.09	.98	1.34	1.24	1.46	1.72	1.47	3.46	3.72	3.27
Other races.....	2.83	2.72	2.35	1.21	1.11	1.47	1.71	1.70	1.80	2.76	2.32	2.06
Total, all races..	2.41	2.88	2.31	1.85	2.04	1.90	2.03	2.22	2.00	3.07	3.96	3.20

GENERAL TABLES.

OVER OF EACH SPECIFIED RACE FROM TUBERCULOUS AND FROM GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MAN-

DEATH RATE PER 1,000 FROM TUBERCULOSIS—Concluded.

Females.						Both sexes.								
Nonoperatives.			Both classes.			Operatives.			Nonoperatives.			Both classes.		
Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.	Fall River, 3 years.	3 cities, 1 year.	3 cities, 3 years.
0.47	0.50	0.67	0.45	0.48	0.65	.....	.....	.....	0.24	0.77	0.77	0.23	0.74	0.74
.....	.....	.29	.37	.63	.64	1.78	2.02	1.69	.65	.48	.64	1.13	.98	.98
1.52	5.56	3.09	3.90	7.73	4.56	5.98	10.39	5.98	9.36	7.16	6.48	7.72	8.30	6.30
1.37	2.61	1.31	1.55	2.31	1.54	1.97	.77	2.05	2.59	1.35	1.58	2.34	1.17	1.72
2.05	2.61	2.17	3.06	3.44	2.67	7.24	4.85	5.66	1.43	2.09	1.86	2.59	2.71	2.71
1.00	1.99	1.32	1.74	2.75	1.87	3.38	4.08	3.31	2.31	2.03	1.98	2.66	2.52	2.30
.....	1.72	.58	.51	2.24	.93	12.12	7.14	7.14	.....	1.54	.61	.54	1.77	.88
.....	.....	.....	.84	.73	.74	2.44	1.13	2.64	.40	1.78	.99	1.31	1.56	1.56
.79	.97	1.30	.98	1.38	1.61	1.79	3.57	3.17	3.71	5.91	3.55	2.81	5.14	3.42
.....	.66	.87	.35	1.07	1.25	2.58	5.97	3.18	.25	1.10	1.10	.91	2.24	1.59
.75	1.47	.49	.69	1.33	.44	6.85	3.50	5.83	.79	1.59	1.06	1.68	1.95	1.94
.23	1.00	.67	.66	1.38	1.06	2.89	3.68	3.46	.76	2.17	1.32	1.38	2.50	1.79
.25	1.07	.62	.48	1.30	.78	5.37	3.29	3.29	.13	1.12	.70	.37	1.21	.81
.....	.....	.15	.59	.68	.68	2.09	1.60	3.14	.54	1.07	.80	1.21	1.24	1.24
1.16	3.32	2.21	2.53	4.79	3.19	4.07	7.37	4.74	6.71	6.58	5.12	5.45	6.65	4.99
.66	1.64	1.09	.99	1.73	1.40	2.20	2.80	2.49	1.41	1.23	1.35	1.69	1.86	1.66
1.43	2.07	1.38	1.95	2.46	1.64	7.09	4.30	5.73	1.13	1.86	1.49	2.17	2.36	2.36
.63	1.51	1.01	1.23	2.12	1.50	3.17	3.91	3.38	1.58	2.09	1.67	2.07	2.51	2.07
1.07	.....	.79	1.06	.38	.89	.....	4.03	2.69	.77	.21	.91	.75	.40	1.00
1.07	.61	1.21	1.45	1.00	1.34	1.93	3.59	2.09	1.26	.75	1.25	1.53	1.59	1.50
2.80	2.39	2.59	3.39	2.82	2.66	2.66	3.18	2.12	6.81	4.67	4.19	5.29	4.29	3.67
.82	.....	.83	.73	.....	.85	1.14	2.01	1.34	.98	1.41	1.41	1.02	1.52	1.40
1.00	.96	1.28	.96	.90	1.21	1.87	.....	3.12	2.15	1.54	2.05	2.11	1.32	2.20
1.27	.65	1.26	1.49	.95	1.35	1.89	2.76	2.03	2.03	1.52	1.79	1.99	1.75	1.83
.60	2.64	1.54	.60	2.57	1.50	.....	.....	.....	1.62	2.89	1.93	1.59	2.76	1.84
1.07	.93	1.24	.97	.85	1.13	.....	.....	.....	2.07	1.13	1.88	1.55	.91	1.52
3.80	4.30	2.87	3.42	3.96	2.90	5.59	7.27	6.06	5.24	5.27	4.92	5.30	5.53	5.07
.42	1.92	.85	.41	1.84	.82	.....	.....	.....	.24	1.45	1.09	.21	1.31	.98
.....	.....	.51	.....	.....	.51	18.02	.....	8.55	.....	.....	.27	.79	.....	.76
1.15	2.18	1.45	1.09	2.07	1.43	2.27	1.66	1.93	1.67	2.30	2.04	1.75	2.23	2.03
.89	1.78	2.38	.89	1.78	2.36	.....	.....	.....	1.50	2.53	2.36	1.49	2.48	2.32
.74	3.54	2.75	.73	3.50	2.72	.....	.....	.....	1.82	3.53	2.59	1.63	3.29	2.41
.87	1.12	1.12	.86	1.09	1.09	.....	.....	.....	3.24	2.75	2.29	3.11	2.64	2.20
.61	.....	.28	.61	.....	.28	.....	.....	.....	1.05	.....	.49	1.02	.....	.47
.....	.....	.70	.....	.....	.70	.....	.....	.....	.....	.....	.38	.....	.....	.37
.66	1.33	1.48	.65	1.32	1.46	.....	.....	.....	1.53	1.80	1.67	1.46	1.73	1.61
.71	.79	.89	.85	1.01	1.04	2.49	3.53	2.70	.84	.94	1.01	1.00	1.11	1.12
.92	.94	1.03	1.15	1.50	1.23	1.59	2.53	1.76	1.20	1.30	1.21	1.35	1.66	1.37
1.81	2.57	1.93	2.73	3.41	2.69	4.37	5.51	4.64	3.39	3.85	3.21	3.70	4.22	3.53
.96	1.58	1.46	1.73	2.18	1.97	2.80	3.25	2.72	.97	1.47	1.36	1.60	1.97	1.74
1.25	1.43	1.28	1.63	1.67	1.49	2.80	2.55	2.23	1.23	1.27	1.37	1.68	1.68	1.65
1.09	1.41	1.29	1.62	1.96	1.70	2.73	3.41	2.77	1.43	1.71	1.57	1.81	2.08	1.84

GENERAL TABLES.

TABLE 6.—DEATH RATE PER 1,000 POPULATION 10 YEARS OF AGE AND NONTUBERCULOUS CAUSES, BY SEX, OCCUPATION, AND AGE CHESTER, AND PAWTUCKET), 1 YEAR—Continued.

DEATH RATE PER 1,000 FROM CAUSES OTHER THAN TUBERCULOSIS.

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
10 to 14 years:						
American.....			1.78	3.58	1.72	3.52
English.....	6.94	18.52	2.73	.55	3.07	1.56
Irish.....						
French Canadian.....	2.92	8.00	2.26	3.11	2.32	3.33
Other races.....			4.07	4.06	3.97	3.97
Total, all races.....	3.44	8.82	2.21	2.34	2.27	2.56
15 to 19 years:						
American.....	4.01	7.44		2.69	.98	3.42
English.....	2.62	5.34	.54	.82	1.60	2.53
Irish.....	1.38		.52	.69	.77	.56
French Canadian.....	4.51	5.45	3.03	4.79	3.76	5.05
Other races.....	1.53	2.49	4.51	8.21	3.03	4.64
Total, all races.....	3.04	4.44	1.55	2.83	2.17	3.35
20 to 24 years:						
American.....	4.83	7.69	1.84	1.85	2.31	2.48
English.....	2.82	5.18	4.54	4.03	3.77	4.40
Irish.....	6.35		4.38	6.67	4.95	5.52
French Canadian.....	2.01	4.32		3.68	1.04	3.91
Other races.....	1.19	1.99	8.96	32.61	3.13	6.72
Total, all races.....	2.61	3.60	3.02	4.57	2.84	4.26
15 to 24 years:						
American.....	4.31	7.54	.90	2.28	1.60	2.97
English.....	2.71	5.27	2.50	2.44	2.60	3.43
Irish.....	3.71		2.29	3.57	2.69	2.94
French Canadian.....	3.33	4.93	1.68	4.24	2.51	4.51
Other races.....	1.34	2.21	5.82	14.90	3.08	5.64
Total, all races.....	2.84	4.05	2.21	3.67	2.48	3.79
25 to 29 years:						
American.....	4.17	5.75	2.57	4.91	2.72	4.97
English.....	1.40		3.44	4.80	2.52	3.32
Irish.....	5.49	3.78	2.40	5.90	3.16	5.55
French Canadian.....	2.64	5.89	4.14	5.31	3.39	5.51
Other races.....	2.04	3.29	2.40	5.19	2.24	4.22
Total, all races.....	2.56	3.66	3.02	5.20	2.85	4.80
30 to 34 years:						
American.....	11.11	22.90	1.85	3.45	2.56	4.62
English.....	1.45		5.33	6.52	3.47	4.31
Irish.....	11.35	12.35	10.68	13.25	10.92	13.05
French Canadian.....	2.13	4.97	6.85	6.10	4.31	5.70
Other races.....	7.02		2.75	5.70	3.95	3.77
Total, all races.....	4.24	5.06	5.10	6.55	4.78	6.17
25 to 34 years:						
American.....	7.14	13.11	2.22	4.21	2.64	4.81
English.....	1.42		4.32	5.59	2.97	3.78
Irish.....	8.79	8.47	6.04	9.24	6.85	9.09
French Canadian.....	2.39	5.44	5.36	5.68	3.83	5.59
Other races.....	3.87	2.06	2.58	5.47	3.06	4.00
Total, all races.....	3.37	4.32	4.00	5.83	3.77	5.45

GENERAL TABLES.

OVER OF EACH SPECIFIED RACE FROM TUBERCULOUS AND FROM GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MAN-

DEATH RATE PER 1,000 FROM CAUSES OTHER THAN TUBERCULOSIS.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
9.26		2.10	3.62	2.36	3.55	4.83		1.94	3.60	2.04	3.53
		.59	1.09	.55	1.04	3.92	9.85	1.64	.82	1.80	1.30
		.33	.49	.32	.48			.18	.27	.18	.27
	9.62	1.71	3.53	1.62	3.77	1.76	8.73	1.98	3.32	1.97	3.55
		3.31	2.85	3.20	2.81			3.72	3.52	3.61	3.44
1.44	3.31	1.48	2.42	1.43	2.44	2.55	6.23	1.84	2.38	1.87	2.50
5.83	2.39	1.64	2.43	2.72	2.42	4.98	4.87	.84	2.55	1.89	2.90
2.63	.96	1.69	2.59	2.22	1.82	2.63	2.80	1.11	1.68	1.92	2.16
1.89		1.26	.55	1.45	.43	1.68		.93	.61	1.15	.49
2.59	2.72	2.30	8.42	2.49	4.96	3.39	3.75	2.72	6.30	3.10	5.00
1.78	2.21	2.65		2.05	1.64	1.08	2.33	3.83	5.01	2.56	3.18
2.68	1.90	1.75	2.88	2.21	2.48	2.84	2.96	1.65	2.86	2.20	2.90
4.05	2.09	1.92	1.88	2.39	1.97	4.33	4.75	1.88	1.87	2.36	2.19
1.40	2.06		.75	.74	1.30	1.97	3.22	2.15	2.33	2.06	2.67
1.31	3.82	3.06	1.79	2.29	2.44	2.78	2.81	3.66	3.97	3.33	3.66
3.64	5.26	1.62	2.05	2.87	3.77	2.99	4.93	.81	2.91	2.06	3.84
5.80	4.55	6.75		6.08	3.12	3.53	3.19	7.70	10.24	4.68	4.86
3.17	4.03	2.08	1.59	2.63	2.53	2.95	3.86	2.52	2.98	2.72	3.29
5.00	2.53	1.78	2.14	2.56	2.19	4.71	4.82	1.36	2.20	2.11	2.55
2.04	1.49	.81	1.61	1.48	1.56	2.33	2.99	1.64	2.02	1.99	2.41
1.54	2.29	2.07	1.14	1.87	1.46	2.29	1.57	2.16	2.22	2.20	2.07
3.11	3.94	1.95	4.90	2.68	4.35	3.20	4.30	1.80	4.53	2.60	4.42
3.82	3.36	4.68		4.08	2.40	2.66	2.78	5.32	7.23	3.58	4.02
2.93	2.96	1.92	2.21	2.42	2.51	2.89	3.40	2.06	2.92	2.45	3.09
		2.60	2.25	2.35	2.12	1.89	2.94	2.58	3.47	2.52	3.43
2.64	2.78	2.34	1.40	2.47	1.86	2.04	1.56	2.83	2.98	2.49	2.52
3.09	3.55	4.68	5.50	3.85	4.78	3.69	3.60	3.47	5.69	3.56	5.10
3.51	1.99	5.30	8.17	4.60	6.07	3.05	3.78	4.80	6.84	4.03	5.81
4.90		3.78	4.74	4.09	3.35	3.14	2.09	3.17	4.92	3.16	3.79
3.13	2.27	3.69	4.31	3.50	3.76	2.86	2.89	3.39	4.72	3.20	4.24
13.33	21.98	3.41	4.07	4.00	4.78	12.12	22.52	2.66	3.77	3.30	4.70
4.69	6.78	1.69	4.31	2.94	5.15	3.01	3.51	3.35	5.37	3.20	4.74
6.29	4.50	9.74	9.16	8.05	7.50	8.09	7.06	10.20	11.14	9.30	9.93
7.17	6.03	7.12	5.73	7.13	5.81	4.01	5.45	7.02	5.90	5.75	5.76
7.84	5.74	3.14	1.25	3.79	2.06	7.27	1.86	2.96	3.33	3.88	2.95
6.39	6.41	4.90	5.06	5.35	5.38	5.23	5.74	4.99	5.77	5.08	5.76
4.57	7.78	2.97	3.08	3.10	3.31	5.83	10.68	2.62	3.61	2.88	4.02
3.58	4.58	2.04	2.70	2.68	3.33	2.50	2.48	3.07	4.07	2.82	3.54
4.50	3.97	7.07	7.16	5.77	6.00	5.79	5.24	6.54	8.16	6.23	7.31
4.96	3.60	6.19	7.02	5.75	5.95	3.49	4.51	5.85	6.40	4.83	5.78
5.77	1.91	3.46	3.04	3.96	2.77	4.56	2.01	3.06	4.11	3.49	3.40
4.48	3.99	4.27	4.66	4.34	4.48	3.93	4.14	4.15	5.21	4.07	4.94

GENERAL TABLES.

TABLE 6.—DEATH RATE PER 1,000 POPULATION 10 YEARS OF AGE AND NONTUBERCULOUS CAUSES, BY SEX, OCCUPATION, AND AGE (CHESTER, AND PAWTUCKET), 1 YEAR—Continued.

DEATH RATE PER 1,000 FROM CAUSES OTHER THAN TUBERCULOSIS—Concluded.

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
35 to 39 years:						
American.....			3.46	2.65	3.28	2.52
English.....	2.09	1.73	6.74	6.61	4.19	4.71
Irish.....	3.97	4.38	26.66	20.55	14.18	15.01
French Canadian.....	1.99	1.50	7.24	4.22	4.73	3.35
Other races.....	3.85	3.27	3.77	4.50	3.79	4.11
Total, all races.....	2.62	2.38	7.70	6.60	5.69	5.47
40 to 44 years:						
American.....	10.10	11.11	1.79	7.25	2.25	7.47
English.....	1.43	.....	10.18	10.75	4.59	5.80
Irish.....	4.40	9.59	30.89	18.10	15.09	14.81
French Canadian.....	5.90	4.08	6.17	8.32	6.07	7.09
Other races.....	6.06	14.08	8.29	10.42	7.81	11.41
Total, all races.....	4.00	5.66	8.47	9.98	6.73	8.78
35 to 44 years:						
American.....	4.70	5.43	2.70	4.70	2.81	4.74
English.....	1.77	.89	8.11	8.34	4.37	5.20
Irish.....	4.17	6.87	28.47	19.49	14.60	14.92
French Canadian.....	3.56	2.60	6.72	6.10	5.34	5.02
Other races.....	4.71	7.71	5.92	7.24	5.62	7.38
Total, all races.....	3.24	3.88	8.05	8.10	6.16	6.95
45 to 54 years:						
American.....		6.10	9.16	9.03	8.74	8.83
English.....	5.15	9.04	30.46	26.73	14.56	19.06
Irish.....	11.17	12.32	46.04	29.65	28.70	24.38
French Canadian.....	7.04	4.63	10.58	13.45	9.37	11.17
Other races.....	11.11	3.88	5.22	7.69	6.44	6.85
Total, all races.....	7.41	7.72	16.10	15.76	13.01	13.77
55 to 64 years:						
American.....	19.61	.....	26.02	32.83	25.80	30.37
English.....	29.49	34.38	43.86	46.24	37.65	42.49
Irish.....	16.53	40.23	102.22	92.65	77.59	82.60
French Canadian.....	6.99	4.46	20.51	24.21	17.86	21.10
Other races.....	40.41	27.78	11.94	20.30	14.15	21.12
Total, all races.....	21.49	23.57	35.69	40.77	32.63	37.91
65 years and over:						
American.....	83.33	62.50	79.91	120.61	79.96	118.51
English.....	49.38	63.16	99.29	86.12	88.15	82.83
Irish.....	70.18	166.67	150.36	142.85	144.36	144.30
French Canadian.....	34.48	18.18	52.16	55.75	50.99	53.53
Other races.....		108.45	14.67	29.56	14.38	34.48
Total, all races.....	48.31	72.87	76.07	89.66	73.68	88.48
Total, 10 years and over:						
American.....	5.31	8.69	7.82	11.48	7.59	11.28
English.....	5.32	6.99	14.01	13.51	10.13	11.44
Irish.....	7.55	10.74	24.18	22.34	18.88	19.97
French Canadian.....	3.80	4.76	8.98	10.19	6.99	8.70
Other races.....	3.83	4.34	5.82	9.79	5.20	7.78
Total, all races.....	4.94	6.46	11.53	13.23	9.41	11.67

GENERAL TABLES.

OVER OF EACH SPECIFIED RACE FROM TUBERCULOUS AND FROM GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MAN-

DEATH RATE PER 1,000 FROM CAUSES OTHER THAN TUBERCULOSIS—Concluded.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
		4.72	4.50	4.53	4.35			4.11	3.60	3.91	3.46
7.33	9.73	7.41	11.19	7.38	10.81	3.99	5.06	7.15	9.18	5.81	7.85
10.01	11.63	5.34	6.49	7.36	8.33	6.97	8.50	13.58	12.79	10.38	11.28
6.80	1.57	4.09	6.53	4.96	5.07	3.93	1.53	5.45	5.42	4.85	4.23
5.85		2.74		3.07		4.35	2.43	3.23	4.19	3.45	3.79
7.71	6.57	4.90	6.42	5.62	6.45	4.67	4.33	6.13	6.51	5.65	5.98
		4.77	5.18	4.61	5.03	6.06	7.15	3.37	6.14	3.49	6.18
6.11	9.15	6.92	1.94	6.70	3.68	2.93	3.40	7.93	5.35	5.69	4.68
15.68	9.46	19.65	20.41	18.17	17.22	9.56	9.53	23.32	19.50	16.85	16.19
18.73	8.62	5.62	2.62	8.08	3.74	10.31	5.96	5.85	5.13	7.11	5.33
		3.00	7.34	2.78	6.63	4.57	10.49	5.51	8.75	5.38	9.07
12.22	8.18	7.38	6.83	8.34	7.06	6.98	6.70	7.83	8.19	7.58	7.87
		4.74	4.81	4.56	4.66	2.60	3.29	3.76	4.76	3.72	4.70
6.79	9.47	7.17	6.84	7.06	7.50	3.49	4.28	7.50	7.64	5.76	6.40
12.47	10.73	12.39	13.28	12.42	12.45	8.15	8.95	18.15	15.90	13.37	13.63
10.83	4.07	4.88	4.58	6.42	4.46	6.35	3.27	5.65	5.28	5.89	4.73
3.58		2.87	5.53	2.93	4.92	4.43	5.73	4.32	6.32	4.34	6.20
9.55	7.22	6.11	6.62	6.90	6.73	5.67	5.35	6.93	7.29	6.54	6.84
60.61	35.71	9.67	11.44	10.26	12.22	13.61	16.13	9.43	10.31	9.54	10.60
12.34	14.62	10.68	16.98	10.99	16.58	6.95	10.75	16.43	20.69	12.68	17.75
13.68	17.50	28.90	26.35	24.76	24.45	12.25	14.83	34.66	27.67	26.42	24.42
6.29	8.72	9.06	9.59	8.73	9.48	6.84	6.05	9.67	11.27	9.03	10.29
		9.49	9.60	9.11	9.05	9.37	3.12	7.51	8.71	7.75	7.92
11.73	14.73	12.77	14.41	12.63	14.45	8.69	10.22	14.09	15.00	12.81	14.13
66.67	26.32	19.78	30.30	20.20	30.21	30.30	7.19	22.65	31.44	22.81	30.28
20.83	18.87	31.57	26.93	30.57	26.20	27.78	30.52	35.93	34.48	33.88	33.71
40.23	49.50	94.24	60.24	88.89	59.38	24.21	43.64	97.14	72.79	84.16	69.09
11.11	15.38	19.04	23.02	18.74	22.71	7.71	6.92	19.67	23.53	18.33	21.96
		12.20	12.31	12.08		36.03	25.64	12.07	16.12	13.13	16.68
26.92	28.48	34.55	31.65	34.15	31.49	22.67	24.85	35.03	35.55	33.44	34.45
		105.17	130.13	105.17	129.43	83.33	52.63	94.10	126.01	94.03	124.63
47.62	100.00	73.91	67.21	73.51	67.60	49.24	66.67	83.67	74.80	79.98	74.24
41.67		127.40	153.24	125.64	149.57	61.73	103.45	136.14	149.24	133.02	147.49
		40.44	51.87	40.29	51.65	32.26	16.67	45.47	53.53	45.05	52.48
		12.08	21.10	12.08	21.01		96.77	13.31	25.00	13.18	27.44
39.22	22.22	72.35	91.05	72.08	90.37	47.31	65.07	73.91	90.46	72.79	89.55
5.95	5.97	10.07	12.80	9.68	12.39	5.65	7.40	9.01	12.18	8.69	11.87
4.30	5.20	11.01	11.20	8.86	9.60	4.87	6.12	12.28	12.24	9.46	10.46
6.97	7.40	23.73	21.62	18.37	18.19	7.22	8.69	23.92	21.93	18.59	18.95
4.78	4.32	8.47	10.64	7.33	8.86	4.26	4.52	8.70	10.42	7.17	8.78
4.02	2.71	5.64	6.28	5.23	5.31	3.91	3.67	5.73	7.95	5.21	6.58
5.13	5.12	11.68	13.09	9.92	11.38	5.03	5.77	11.62	13.15	9.68	11.51

GENERAL TABLES.

TABLE 6.—DEATH RATE PER 1,000 POPULATION 10 YEARS OF AGE AND NONTUBERCULOUS CAUSES, BY SEX, OCCUPATION, AND AGE (CHESTER, AND PAWTUCKET), 1 YEAR—Continued.

DEATH RATE PER 1,000 FROM ALL CAUSES.

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
10 to 14 years:						
American.....			1.78	3.58	1.72	3.52
English.....	6.94	18.52	2.73	.55	3.07	1.56
Irish.....						
French Canadian.....	2.92	8.00	2.26	3.11	2.32	3.33
Other races.....			4.07	4.06	3.97	3.97
Total, all races.....	3.44	8.82	2.21	2.34	2.27	2.56
15 to 19 years:						
American.....	5.35	7.44	1.74	3.14	2.62	3.80
English.....	4.72	6.68	1.63	3.27	3.20	4.56
Irish.....	1.38		1.05	1.38	1.15	1.13
French Canadian.....	6.76	5.45	3.03	4.79	4.86	5.05
Other races.....	2.30	4.97	6.01	12.32	4.17	7.74
Total, all races.....	4.64	5.33	2.48	3.82	3.38	4.31
20 to 24 years:						
American.....	12.08	19.23	3.22	4.16	4.63	5.78
English.....	4.93	8.64	6.81	7.26	5.97	7.70
Irish.....	11.16		6.89	10.38	8.10	8.58
French Canadian.....	3.52	6.48		4.30	1.82	5.09
Other races.....	3.58	4.97	8.96	32.61	4.92	9.24
Total, all races.....	5.22	6.88	4.41	6.85	4.76	6.86
15 to 24 years:						
American.....	7.75	12.07	2.46	3.64	3.55	4.75
English.....	4.81	7.53	4.16	5.28	4.48	6.07
Irish.....	5.93		3.72	5.71	4.34	4.71
French Canadian.....	5.23	5.92	1.63	4.55	3.47	5.07
Other races.....	3.02	4.97	6.88	17.88	4.52	8.46
Total, all races.....	4.91	6.07	3.35	5.28	4.01	5.54
25 to 29 years:						
American.....	4.17	5.75	3.85	5.80	3.88	5.80
English.....	1.40		4.59	5.60	3.15	3.87
Irish.....	12.82	11.28	4.79	8.11	6.77	8.03
French Canadian.....	4.75	8.24	5.17	6.49	4.96	7.08
Other races.....	2.04	4.94	4.00	5.19	3.14	5.06
Total, all races.....	4.13	5.70	4.47	6.32	4.35	6.16
30 to 34 years:						
American.....	16.67	30.53	3.23	3.94	4.26	5.55
English.....	3.62	5.45	8.00	8.38	5.90	7.39
Irish.....	19.86	18.52	19.07	28.27	19.35	26.10
French Canadian.....	6.40	12.42	9.97	12.20	8.05	12.28
Other races.....	12.28	5.52	5.50	7.13	7.41	6.59
Total, all races.....	8.70	11.51	8.46	11.22	8.55	11.29
25 to 34 years:						
American.....	9.52	16.39	3.55	4.91	4.06	5.63
English.....	2.49	2.70	6.17	6.88	4.46	5.53
Irish.....	16.79	15.25	11.07	17.28	12.76	18.89
French Canadian.....	5.57	10.28	7.34	9.15	6.43	9.53
Other races.....	5.81	5.16	4.80	6.25	5.17	5.78
Total, all races.....	6.33	8.43	6.36	8.64	6.35	8.59

GENERAL TABLES.

OVER OF EACH SPECIFIED RACE FROM TUBERCULOUS AND FROM GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MAN-

DEATH RATE PER 1,000 FROM ALL CAUSES.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
9.26	-----	3.15	4.83	3.37	4.74	4.83	-----	2.47	4.20	2.55	4.12
-----	33.33	1.47	1.09	1.38	1.04	3.92	9.85	2.09	.82	2.22	1.30
-----	9.62	1.71	3.53	1.62	3.77	1.76	8.73	1.98	3.32	1.97	3.55
-----	-----	4.26	2.88	4.12	2.81	-----	-----	4.16	3.52	4.04	3.44
1.44	6.62	2.00	2.72	1.98	2.83	2.55	7.79	2.10	2.53	2.12	2.70
6.99	4.78	3.27	3.24	4.23	3.46	6.23	6.09	2.53	3.19	3.46	3.62
3.51	.96	2.26	2.59	2.96	1.82	4.07	3.36	1.94	2.94	3.08	3.12
5.67	1.90	2.51	2.20	3.48	2.13	3.93	1.19	1.86	1.83	2.47	1.70
5.51	5.98	2.87	11.79	4.56	8.26	6.03	5.79	2.96	7.70	4.70	6.73
4.16	4.41	3.97	-----	4.10	3.28	3.35	4.67	5.27	7.52	4.14	5.57
4.91	4.02	2.85	4.17	3.87	4.11	4.79	4.57	2.66	4.00	3.64	4.21
8.10	10.75	1.92	2.25	3.29	3.29	9.52	14.24	2.51	3.11	3.88	4.39
2.34	6.17	1.53	3.00	1.96	4.33	3.38	7.09	4.04	5.05	3.71	5.82
3.92	6.36	3.57	2.98	3.73	4.06	6.03	4.68	5.06	6.28	5.43	5.86
6.61	6.76	2.70	6.92	5.13	7.86	5.39	7.96	1.35	5.49	3.67	6.63
8.70	6.83	10.80	4.98	9.33	6.25	6.17	5.84	10.01	13.65	7.23	7.69
5.68	7.63	3.07	3.58	4.38	5.14	5.50	7.33	3.69	5.10	4.55	5.89
7.50	7.59	2.57	2.73	3.76	3.37	7.61	9.64	2.52	3.15	3.66	4.01
2.95	3.48	1.88	2.81	2.46	3.11	3.75	5.09	3.00	4.04	3.38	4.46
4.63	4.58	2.99	2.57	3.60	3.12	5.08	3.14	3.31	3.97	3.90	3.78
6.06	7.32	2.78	9.04	4.84	8.06	5.72	6.81	2.19	6.55	4.21	6.68
6.46	5.60	7.35	2.81	6.73	4.80	4.85	5.28	7.09	10.12	5.63	6.63
5.30	5.82	2.96	3.86	4.13	4.64	5.14	5.92	3.15	4.55	4.08	5.05
-----	-----	3.34	2.63	3.02	2.47	1.89	2.94	3.58	4.08	3.42	4.00
4.62	8.33	3.75	2.10	4.11	4.18	3.06	4.69	4.12	3.73	3.66	4.04
11.73	15.40	7.36	10.32	9.63	12.18	12.00	14.41	6.00	9.25	8.44	10.71
8.20	5.98	7.57	10.72	7.52	9.11	6.38	7.02	6.55	8.76	6.48	8.17
6.54	-----	5.67	4.74	5.91	3.35	3.77	3.14	4.93	4.92	4.52	4.21
7.66	8.11	5.40	5.99	6.20	6.56	6.00	7.04	4.98	6.14	5.34	6.38
13.33	21.98	3.83	4.07	4.40	4.78	15.15	27.03	3.54	4.01	4.33	5.15
7.82	11.86	3.37	6.90	5.23	8.58	5.64	8.77	5.48	7.61	5.55	8.00
10.22	9.00	15.73	14.99	13.04	12.85	13.66	12.11	17.38	21.43	15.79	18.65
16.13	16.57	9.89	7.45	11.80	9.96	10.03	14.30	9.92	9.62	9.96	11.09
11.76	11.49	4.40	6.27	5.42	7.21	12.12	7.46	4.93	6.67	6.46	6.88
11.30	12.81	7.09	7.45	8.35	8.71	9.90	12.16	7.72	9.24	8.45	9.95
4.57	7.78	3.57	3.28	3.65	3.51	6.99	12.46	3.56	4.04	3.84	4.53
6.09	9.92	3.57	4.25	4.62	6.15	4.28	6.61	4.75	5.49	4.54	5.86
11.07	12.57	11.31	12.43	11.19	12.48	12.79	13.33	11.19	14.77	11.85	14.35
11.34	10.19	8.70	9.18	9.63	9.49	8.04	10.23	8.15	9.16	8.10	9.51
8.07	3.82	5.04	5.48	5.09	5.08	6.63	4.69	4.93	5.82	5.42	5.44
9.17	10.06	6.21	6.66	7.18	7.52	7.75	9.30	6.28	7.59	6.79	8.02

GENERAL TABLES.

TABLE 6.—DEATH RATE PER 1,000 POPULATION 10 YEARS OF AGE AND NONTUBERCULOUS CAUSES, BY SEX, OCCUPATION, AND AGE (CHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

DEATH RATE PER 1,000 FROM ALL CAUSES—Concluded.

Age group and race.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
35 to 39 years:						
American.....			3.46	3.71	3.28	3.53
English.....	4.18	3.46	3.42	7.71	6.10	6.06
Irish.....	8.93	13.13	48.48	29.68	26.73	24.01
French Canadian.....	3.97	1.50	11.47	4.22	7.89	3.35
Other races.....	9.63	6.54	4.52	6.00	5.96	6.17
Total, all races.....	5.67	5.24	11.69	8.68	9.31	7.76
40 to 44 years:						
American.....		11.11	1.79	8.57	2.82	8.71
English.....	3.53		11.45	15.36	6.42	8.29
Irish.....	6.60	14.39	40.65	31.67	20.34	25.00
French Canadian.....	8.85	12.24	6.79	9.98	7.58	10.63
Other races.....	15.15	18.78	9.12	12.15	10.42	13.94
Total, all races.....	7.20	9.63	9.99	13.67	8.91	12.55
35 to 44 years:						
American.....	9.39	5.43	2.70	5.88	3.07	5.85
English.....	3.89	1.77	9.63	10.90	6.25	7.06
Irish.....	7.82	13.73	45.14	30.54	23.83	24.45
French Canadian.....	5.93	6.06	9.16	6.86	7.75	6.61
Other races.....	11.78	11.56	6.71	8.85	7.99	9.65
Total, all races.....	6.36	7.24	10.91	10.90	9.13	9.90
45 to 54 years:						
American.....		6.10	9.57	9.48	9.14	9.25
English.....	6.70	12.92	32.20	27.72	16.18	21.30
Irish.....	12.10	14.37	60.77	37.74	36.57	30.63
French Canadian.....	8.61	7.72	11.80	16.68	10.71	14.36
Other races.....	13.33	3.88	8.70	9.89	9.66	8.56
Total, all races.....	8.85	10.30	19.27	18.43	15.57	16.42
55 to 64 years:						
American.....	19.61		28.83	36.03	28.51	33.33
English.....	29.49	34.38	47.76	47.69	39.87	43.48
Irish.....	24.79	51.72	110.00	99.46	85.51	90.31
French Canadian.....	6.99	4.46	20.51	25.04	17.86	21.80
Other races.....	60.61	27.78	11.94	20.30	15.72	21.12
Total, all races.....	24.39	25.81	38.08	43.23	35.13	40.34
65 years and over:						
American.....	83.33	62.50	82.19	124.12	82.21	21.90
English.....	49.38	63.16	102.84	89.63	90.91	85.84
Irish.....	70.18	166.67	157.45	148.21	150.92	149.33
French Canadian.....	34.48	18.18	53.79	55.75	52.51	53.53
Other races.....		103.45	14.67	29.56	14.38	34.48
Total, all races.....	48.31	72.87	78.79	92.11	76.17	90.75
Total, 10 years and over:						
American.....	8.21	11.36	8.81	12.59	8.76	12.50
English.....	6.88	9.04	15.60	15.24	11.70	13.27
Irish.....	11.49	15.39	29.70	27.83	23.90	25.29
French Canadian.....	6.01	7.47	9.96	11.53	8.45	10.42
Other races.....	6.66	7.06	7.03	10.90	6.91	9.48
Total, all races.....	7.35	9.29	13.38	15.27	11.44	13.89

GENERAL TABLES.

OVER OF EACH SPECIFIED RACE FROM TUBERCULOUS AND FROM GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MAN-

DEATH RATE PER 1,000 FROM ALL CAUSES—Concluded.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
.....	.....	5.19	5.00	4.98	4.83	.....	.....	4.35	4.37	4.14	4.20
8.55	12.17	7.41	11.19	7.75	11.44	5.77	7.08	7.80	9.66	6.94	8.83
17.02	23.26	6.86	12.05	11.26	16.06	12.95	18.89	22.94	19.95	18.10	19.58
8.75	3.14	5.46	9.14	6.51	7.38	5.90	2.30	8.04	6.77	7.19	5.40
17.54	9.43	4.79	6.52	6.13	6.87	11.59	7.28	4.66	6.28	6.04	6.50
11.57	12.05	5.90	8.41	7.36	9.20	8.05	8.41	8.44	8.54	8.31	8.50
15.15	20.00	4.77	6.90	5.12	7.27	18.18	14.29	3.37	7.68	4.02	7.95
9.17	12.20	6.92	1.94	7.54	4.41	5.37	4.53	8.33	7.13	7.00	6.24
16.99	11.82	20.44	21.38	19.15	18.60	11.35	13.10	27.03	25.41	19.66	21.33
20.60	11.49	5.62	3.28	8.43	4.81	12.89	11.93	6.10	6.23	8.02	7.57
.....	.....	3.75	8.81	3.47	7.96	11.42	13.99	6.30	10.34	7.06	11.02
14.57	11.46	7.61	7.83	9.00	8.44	9.87	10.38	8.59	10.36	8.96	10.37
6.29	8.33	4.99	5.88	5.04	5.96	8.06	6.58	3.89	5.88	4.09	5.91
8.83	12.18	7.17	6.84	7.65	8.18	5.58	5.88	8.04	8.53	6.97	7.64
17.01	18.54	13.55	16.60	14.95	17.24	12.22	16.32	24.86	22.48	18.82	20.38
12.80	6.10	5.54	6.22	7.41	6.19	8.55	6.07	7.06	6.51	7.58	6.39
10.75	5.59	4.30	7.60	4.88	7.38	11.52	10.03	5.45	8.18	6.51	8.56
12.79	11.81	6.74	8.13	8.13	8.85	8.84	9.26	8.51	9.38	8.61	9.35
60.61	47.62	10.74	11.44	11.32	12.60	13.61	20.16	10.20	10.52	10.29	11.00
15.43	17.54	11.75	17.59	12.44	17.58	8.88	14.34	17.69	21.44	14.21	19.34
18.66	21.88	31.70	28.74	28.15	27.27	14.91	18.01	41.47	32.34	31.71	28.71
6.29	8.72	9.88	9.59	9.46	9.48	7.98	8.06	10.65	12.68	10.05	11.81
.....	.....	10.49	10.56	10.07	9.95	11.24	3.12	9.66	10.25	9.86	9.24
14.66	17.83	14.04	15.06	14.12	15.40	10.58	12.98	16.12	16.52	14.80	15.88
66.67	26.32	20.38	32.94	20.80	32.78	30.30	7.19	24.27	34.37	24.40	33.04
20.83	18.87	32.64	27.86	31.54	27.05	27.78	30.52	38.00	35.61	35.43	34.62
40.23	49.50	98.04	64.54	92.31	63.34	29.80	50.91	102.38	78.06	89.46	74.62
11.11	15.38	19.46	24.94	19.15	24.55	7.71	6.92	19.91	24.98	18.54	23.27
.....	.....	12.20	12.31	12.08	12.20	54.05	25.64	12.07	16.12	13.92	16.68
26.92	28.48	35.70	33.83	35.24	33.56	24.94	26.51	36.70	37.85	35.19	36.68
47.62	100.00	106.06	131.91	106.06	131.21	83.33	52.63	95.60	128.54	95.52	127.11
41.67	.....	74.65	70.75	74.24	71.10	49.24	66.67	85.49	78.33	81.61	77.53
.....	.....	128.27	154.36	126.50	150.66	61.73	103.45	139.38	151.99	136.13	150.13
.....	.....	41.05	51.87	40.90	51.65	32.26	16.67	46.52	53.53	46.07	52.48
.....	.....	12.08	21.10	12.08	21.01	.....	96.77	13.31	25.00	13.18	27.44
39.22	22.22	73.01	92.38	72.73	91.69	47.31	65.07	75.44	92.26	74.25	91.23
8.08	10.44	10.78	13.59	10.53	13.40	8.14	10.93	9.85	13.12	9.69	12.98
5.94	8.24	11.93	12.14	10.01	11.10	6.46	8.65	13.48	13.54	10.81	12.12
11.66	13.46	25.54	24.19	21.10	21.60	11.59	14.20	27.31	25.78	22.29	23.17
8.24	8.04	9.43	12.22	9.06	11.04	7.06	7.77	9.67	11.89	8.77	10.75
6.78	5.03	6.89	7.71	6.86	6.98	6.71	6.22	6.96	9.22	6.89	8.26
8.20	9.08	12.77	14.50	11.54	13.34	7.76	9.18	13.05	14.86	11.49	13.59

GENERAL TABLES.

TABLE 7.—DEATHS OF PERSONS 10 YEARS OF AGE AND OVER FROM FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL

Age group and cause of death.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
10 to 14 years:						
Accident or violence.....	3	3	4	5	7	8
Senility.....						
Unclassified diseases.....			8	4	8	4
Parturition.....						
Cancer.....						
Diseases of the nervous system.....			8	10	8	10
Diseases of the digestive system.....			5	2	5	2
Nephritis.....			1		1	
Apoplexy.....			1		1	
Heart disease.....			2	2	2	2
Respiratory diseases other than tuberculosis.....			4		4	
Total, nontuberculous diseases.....	3	3	33	23	36	26
Tuberculosis.....						
Total, all causes.....	3	3	33	23	36	26
Total, respiratory diseases.....			4		4	
Total, nonrespiratory diseases.....	3	3	29	23	32	26
Total, all causes.....	3	3	33	23	36	26
15 to 24 years:						
Accident or violence.....	10	5	4	6	14	11
Senility.....						
Unclassified diseases.....	5	2	4	3	9	5
Parturition.....						
Cancer.....						
Diseases of the nervous system.....	4	6	6	10	10	16
Diseases of the digestive system.....	6	4	4	10	10	14
Nephritis.....	3	2	6	5	9	7
Apoplexy.....				2		2
Heart disease.....	3	3	11	5	14	8
Respiratory diseases other than tuberculosis.....	6	4	4	9	10	13
Total, nontuberculous diseases.....	37	26	39	50	76	76
Tuberculosis.....	27	13	20	22	47	35
Total, all causes.....	64	39	59	72	123	111
Total, respiratory diseases.....	33	17	24	31	57	48
Total, nonrespiratory diseases.....	31	22	35	41	66	63
Total, all causes.....	64	39	59	72	123	111
25 to 34 years:						
Accident or violence.....	5	5	10	13	15	18
Senility.....						
Unclassified diseases.....	4	1	14	11	18	12
Parturition.....						
Cancer.....	1		1	2	2	2
Diseases of the nervous system.....	3	1	4	3	7	4
Diseases of the digestive system.....	3	1	7	8	10	9
Nephritis.....	5	4	7	12	12	16
Apoplexy.....	2	3	2	5	4	8
Heart disease.....	3		8	7	11	7
Respiratory diseases other than tuberculosis.....	7	5	15	18	22	23
Total, nontuberculous diseases.....	33	20	68	79	101	99
Tuberculosis.....	29	19	40	38	69	57
Total, all causes.....	62	39	108	117	170	156
Total, respiratory diseases.....	36	24	55	56	91	80
Total, nonrespiratory diseases.....	26	15	53	61	79	76
Total, all causes.....	62	39	108	117	170	156

GENERAL TABLES.

EACH SPECIFIED CAUSE, BY SEX, OCCUPATION, AND AGE GROUPS, RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
1			1	1	1	4	3	4	6	8	9
		5	6	5	6			13	10	13	10
		1	1	1	1			1	1	1	1
	1	3	6	3	7		1	11	16	11	17
		2	4	2	4			7	6	7	6
		5	1	5	1			6	1	6	1
		3	1	3	1			1	1	1	1
		4	4	4	4			5	3	5	3
		4	4	4	4			8	4	8	4
1	1	23	24	24	25	4	4	56	47	60	51
	1	8	3	8	4		1	8	3	8	4
1	2	31	27	32	29	4	5	64	50	68	55
	1	12	7	12	8		1	16	7	16	8
1	1	19	20	20	21	4	4	48	43	52	47
1	2	31	27	32	29	4	5	64	50	68	55
1	1	2	1	3	2	11	6	6	7	17	13
6	1	7	3	13	4	11	3	11	6	22	9
10	8	1	1	11	9	10	8	1	1	11	9
1		1		2		1		1		2	
4	4	4	8	8	12	8	10	10	18	18	28
9	3	4	9	13	12	15	7	8	19	23	26
7	3	4	4	11	7	10	5	10	9	20	14
1	1	1	1	2	2	1	1	1	3	2	4
3	1	5	2	8	3	6	4	16	7	22	11
11	6	6	3	17	9	17	10	10	12	27	22
53	28	35	32	88	60	90	54	74	82	164	136
43	27	19	24	62	51	70	40	39	46	109	86
96	55	54	56	150	111	160	94	113	128	273	222
54	33	25	27	79	60	87	50	49	58	136	108
42	22	29	29	71	51	73	44	64	70	137	114
96	55	54	56	150	111	160	94	113	128	273	222
	1	4	3	4	4	5	6	14	16	19	22
3		18	14	21	14	7	1	32	25	39	26
11	4	21	14	32	18	11	4	21	14	32	18
1		5	3	6	3	2		6	5	8	5
4	2	4	5	8	7	7	3	8	8	15	11
8	4	6	7	14	11	11	5	13	15	24	20
5	6	10	9	15	15	10	10	17	21	27	31
1	1	2	1	3	2	3	4	4	6	7	10
2	1	4	3	6	4	5	1	12	10	17	11
9	2	12	13	21	15	16	7	27	31	43	38
44	21	86	72	130	93	77	41	154	151	231	192
46	32	39	31	85	63	75	51	79	69	154	120
90	53	125	103	215	156	152	92	233	220	385	312
55	34	51	44	106	78	91	58	106	100	197	158
35	19	74	59	109	78	61	34	127	120	188	154
90	53	125	103	215	156	152	92	233	220	385	312

GENERAL TABLES.

TABLE 7.—DEATHS OF PERSONS 10 YEARS OF AGE AND OVER FROM FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER,

Age group and cause of death.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
35 to 44 years:						
Accident or violence.....	6	1	13	14	19	15
Senility.....						
Unclassified diseases.....			7	7	7	7
Parturition.....						
Cancer.....	1	2	6	3	7	5
Diseases of the nervous system.....		1	3	6	3	7
Diseases of the digestive system.....	8	4	16	14	24	18
Nephritis.....	3	3	13	8	16	11
Apoplexy.....	1		7	6	8	6
Heart disease.....	4	1	15	9	19	10
Respiratory diseases other than tuberculosis.....	4	3	24	17	28	20
Total, nontuberculous diseases.....	27	15	104	84	131	99
Tuberculosis.....	26	13	37	29	63	42
Total, all causes.....	53	28	141	113	194	141
Total, respiratory diseases.....	30	16	61	46	91	62
Total, nonrespiratory diseases.....	23	12	80	67	103	79
Total, all causes.....	53	28	141	113	194	141
45 to 64 years:						
Accident or violence.....	6	3	21	22	27	25
Senility.....			4	1	4	1
Unclassified diseases.....	8	3	45	26	53	29
Parturition.....						
Cancer.....	7	5	32	18	39	23
Diseases of the nervous system.....	2		12	16	14	16
Diseases of the digestive system.....	10	5	38	39	48	44
Nephritis.....	9	6	51	44	60	50
Apoplexy.....	7	7	45	36	52	43
Heart disease.....	12	5	78	49	90	54
Respiratory diseases other than tuberculosis.....	12	5	40	43	52	48
Total, nontuberculous diseases.....	73	39	366	294	439	333
Tuberculosis.....	12	8	43	30	55	38
Total, all causes.....	85	47	409	324	494	371
Total, respiratory diseases.....	24	13	83	73	107	86
Total, nonrespiratory diseases.....	61	34	326	251	387	285
Total, all causes.....	85	47	409	324	494	371
65 years and over:						
Accident or violence.....	2	3	9	8	11	11
Senility.....	1	1	42	30	43	31
Unclassified diseases.....	1	2	27	21	28	23
Parturition.....						
Cancer.....	2	1	26	17	28	18
Diseases of the nervous system.....		1	18	11	18	12
Diseases of the digestive system.....			25	25	25	25
Nephritis.....	6	2	32	41	38	43
Apoplexy.....	1	2	56	56	57	58
Heart disease.....	4	6	54	42	58	48
Respiratory diseases other than tuberculosis.....	3		46	42	49	42
Total, nontuberculous diseases.....	20	18	335	293	355	311
Tuberculosis.....			12	8	12	8
Total, all causes.....	20	18	347	301	367	319
Total, respiratory diseases.....	3		58	50	61	50
Total, nonrespiratory diseases.....	17	18	289	251	306	269
Total, all causes.....	20	18	347	301	367	319

GENERAL TABLES.

EACH SPECIFIED CAUSE, BY SEX, OCCUPATION, AND AGE GROUPS, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
2	2	7	3	9	5	8	3	20	17	28	20
1	1	14	12	15	13	1	1	21	19	22	20
5	3	9	9	14	12	5	3	9	9	14	12
7	1	18	12	25	13	8	3	24	15	32	18
6	3	4	5	4	5	1	7	11	7	12	12
9	2	12	7	18	10	14	7	28	21	42	28
2	2	10	6	19	8	12	5	23	14	35	19
4	2	6	9	8	9	3	3	13	15	16	15
14	8	20	10	24	12	8	3	35	19	43	22
50	22	107	83	157	105	77	37	211	167	288	204
17	14	11	19	28	33	43	27	48	48	91	75
67	36	118	102	185	138	120	64	259	215	379	279
31	22	18	29	49	51	61	38	79	75	140	113
36	14	100	73	136	87	59	26	180	140	239	166
67	36	118	102	185	138	120	64	259	215	379	279
1	1	12	8	13	9	7	4	33	30	40	34
7	2	7	2	7	2	2	2	11	3	11	3
2	2	40	22	40	22	8	3	85	48	93	51
5	5	2	2	2	2	2	2	2	2	2	2
2	2	62	49	67	54	12	10	94	67	106	77
3	2	11	17	13	19	4	2	23	33	27	35
11	5	55	27	58	29	13	7	93	66	106	73
4	2	53	48	64	53	20	11	104	92	124	103
8	5	71	58	75	60	11	9	116	94	127	103
3	6	90	46	98	51	20	10	168	95	188	105
37	28	69	46	72	52	15	11	109	89	124	100
6	4	472	323	509	351	110	67	838	617	948	684
43	32	27	19	33	23	18	12	70	49	88	61
9	10	499	342	542	374	128	79	908	666	1,036	745
34	22	96	65	105	75	33	23	179	138	212	161
43	32	403	277	437	299	95	56	729	528	824	584
5	5	499	342	542	374	128	79	908	666	1,036	745
68	53	5	5	5	11	2	3	14	19	16	22
25	25	68	53	68	53	1	1	110	83	111	84
36	24	25	25	25	25	1	2	52	46	53	48
12	19	12	19	12	19	2	1	62	41	64	42
46	29	47	29	47	29	1	1	30	30	30	31
1	1	45	33	46	33	7	2	77	74	84	76
63	77	63	77	63	77	1	2	119	133	120	135
73	70	73	70	73	71	4	7	127	112	131	119
67	70	67	70	67	70	3	3	113	112	116	112
2	1	440	411	442	412	22	19	775	704	797	723
4	6	4	6	4	6	16	16	16	14	16	14
2	1	444	417	446	418	22	19	791	718	813	737
71	76	71	76	71	76	3	3	129	126	132	126
2	1	373	341	375	342	19	19	662	592	681	611
2	1	444	417	446	418	22	19	791	718	813	737

GENERAL TABLES.

TABLE 7.—DEATHS OF PERSONS 10 YEARS OF AGE AND OVER FROM FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER,

Age group and cause of death.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
Total, 10 years and over:						
Accident or violence.....	32	20	61	68	93	88
Senility.....	1	1	46	31	47	32
Unclassified diseases.....	18	8	105	72	123	80
Parturition.....						
Cancer.....	11	8	65	40	76	48
Diseases of the nervous system.....	9	9	51	56	60	65
Diseases of the digestive system.....	27	14	95	98	122	112
Nephritis.....	26	17	110	110	136	127
Apoplexy.....	11	12	111	105	122	117
Heart disease.....	26	15	168	114	194	129
Respiratory diseases other than tuberculosis.....	32	17	133	129	165	146
Total, nontuberculous diseases.....	193	121	945	823	1,138	944
Tuberculosis.....	94	53	152	127	246	180
Total, all causes.....	287	174	1,097	950	1,384	1,124
Total, respiratory diseases.....	126	70	285	256	411	326
Total, nonrespiratory diseases.....	161	104	812	694	973	798
Total, all causes.....	287	174	1,097	950	1,384	1,124
Total, 15 years and over:						
Accident or violence.....	29	17	57	63	86	80
Senility.....	1	1	46	31	47	32
Unclassified diseases.....	18	8	97	68	115	76
Parturition.....						
Cancer.....	11	8	65	40	76	48
Diseases of the nervous system.....	9	9	43	46	52	55
Diseases of the digestive system.....	27	14	90	96	117	110
Nephritis.....	26	17	109	110	135	127
Apoplexy.....	11	12	110	105	121	117
Heart disease.....	26	15	166	112	192	127
Respiratory diseases other than tuberculosis.....	32	17	129	129	161	146
Total, nontuberculous diseases.....	190	118	912	800	1,102	918
Tuberculosis.....	94	53	152	127	246	180
Total, all causes.....	284	171	1,064	927	1,348	1,098
Total, respiratory diseases.....	126	70	281	256	407	326
Total, nonrespiratory diseases.....	158	101	783	671	941	772
Total, all causes.....	284	171	1,064	927	1,348	1,098

GENERAL TABLES.

EACH SPECIFIED CAUSE, BY SEX, OCCUPATION, AND AGE GROUPS, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
4	5	30	26	34	31	33	22	87	89	120	111
10	2	75	55	75	55	1	1	121	86	122	87
26	15	104	76	114	78	28	10	201	144	229	154
14	6	33	24	59	39	26	15	33	24	59	39
10	8	122	88	136	94	25	14	187	123	212	142
27	12	35	54	45	62	19	17	78	100	97	117
33	16	123	79	150	91	54	26	213	175	267	201
8	4	122	100	155	116	59	33	231	210	290	243
17	10	143	146	151	150	19	16	253	251	272	267
37	22	192	131	209	141	43	25	358	243	401	268
37	22	161	142	198	164	69	39	290	271	359	310
186	100	1,140	921	1,326	1,021	376	213	2,052	1,721	2,428	1,939
112	77	100	99	212	176	206	130	252	226	453	356
298	177	1,240	1,020	1,538	1,197	582	348	2,304	1,947	2,886	2,295
149	99	261	241	410	340	275	169	542	497	817	666
149	78	979	779	1,128	857	307	179	1,762	1,450	2,069	1,629
298	177	1,240	1,020	1,538	1,197	582	348	2,304	1,947	2,886	2,295
5	5	30	27	35	32	37	25	91	95	128	120
10	2	75	55	75	55	1	1	121	86	122	87
26	15	109	82	119	84	28	10	214	154	242	164
14	6	33	24	59	39	26	15	33	24	59	39
10	9	123	89	137	95	25	14	188	129	213	143
27	12	38	60	48	69	19	18	89	116	108	134
33	16	125	83	152	95	54	26	220	181	274	207
8	4	127	101	160	117	59	33	237	211	296	244
17	10	143	146	151	150	19	16	254	251	273	267
37	22	195	132	212	142	43	25	363	246	406	271
37	22	165	146	202	168	69	39	298	275	367	314
187	101	1,163	945	1,350	1,046	380	222	2,108	1,768	2,488	1,990
112	73	103	102	220	180	206	131	260	229	466	360
299	179	1,271	1,047	1,570	1,226	586	353	2,368	1,997	2,954	2,350
149	100	273	248	422	343	275	170	558	504	833	674
150	79	998	799	1,148	878	311	183	1,810	1,493	2,121	1,676
299	179	1,271	1,047	1,570	1,226	586	353	2,368	1,997	2,954	2,350

GENERAL TABLES.

TABLE 8.—DEATH RATE PER 1,000 POPULATION 10 YEARS OF AGE AND GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES

Age group and cause of death.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
10 to 14 years:						
Accident or violence.....	3.44	8.82	0.27	0.51	0.44	0.79
Senility.....						
Unclassified diseases.....			.53	.41	.51	.39
Parturition.....						
Cancer.....						
Diseases of the nervous system.....			.53	1.02	.51	.98
Diseases of the digestive system.....			.33	.20	.32	.20
Nephritis.....			.07		.06	
Apoplexy.....			.07		.06	
Heart disease.....			.13	.20	.13	.20
Respiratory diseases other than tuberculosis.....			.27		.25	
Total, nontuberculous diseases.....	3.44	8.82	2.21	2.34	2.27	2.56
Tuberculosis.....						
Total, all causes.....	3.44	8.82	2.21	2.34	2.27	2.56
Total, respiratory diseases.....			.27		.25	
Total, nonrespiratory diseases.....	3.44	8.82	1.94	2.34	2.02	2.56
Total, all causes.....	3.44	8.88	2.21	2.34	2.27	2.56
15 to 24 years:						
Accident or violence.....	.77	.78	.23	.44	.46	.55
Senility.....						
Unclassified diseases.....	.38	.31	.23	.22	.29	.25
Parturition.....						
Cancer.....						
Diseases of the nervous system.....	.31	.93	.34	.73	.33	.80
Diseases of the digestive system.....	.46	.62	.23	.73	.33	.70
Nephritis.....	.23	.31	.34	.37	.29	.35
Apoplexy.....				.15		.10
Heart disease.....	.23	.47	.62	.37	.46	.40
Respiratory diseases other than tuberculosis.....	.46	.62	.23	.66	.33	.65
Total, nontuberculous diseases.....	2.84	4.05	2.21	3.67	2.48	3.79
Tuberculosis.....	2.07	2.02	1.14	1.61	1.53	1.75
Total, all causes.....	4.91	6.07	3.35	5.28	4.01	5.54
Total, respiratory diseases.....	2.53	2.64	1.36	2.28	1.86	2.39
Total, nonrespiratory diseases.....	2.38	3.42	1.99	3.01	2.15	3.14
Total, all causes.....	4.91	6.07	3.35	5.28	4.01	5.54
25 to 34 years:						
Accident or violence.....	.51	1.08	.59	.96	.56	.99
Senility.....						
Unclassified diseases.....	.41	.22	.82	.81	.67	.66
Parturition.....						
Cancer.....	.10		.06	.15	.07	.11
Diseases of the nervous system.....	.31	.22	.24	.22	.26	.22
Diseases of the digestive system.....	.31	.22	.41	.59	.37	.50
Nephritis.....	.51	.86	.41	.89	.45	.88
Apoplexy.....	.20	.65	.12	.37	.15	.44
Heart disease.....	.31		.47	.52	.41	.39
Respiratory diseases other than tuberculosis.....	.71	1.08	.88	1.33	.82	1.27
Total, nontuberculous diseases.....	3.37	4.32	4.00	5.83	3.77	5.45
Tuberculosis.....	2.96	4.11	2.36	2.81	2.58	3.14
Total, all causes.....	6.33	8.43	6.36	8.64	6.35	8.59
Total, respiratory diseases.....	3.67	5.19	3.24	4.14	3.40	4.40
Total, nonrespiratory diseases.....	2.65	3.24	3.12	4.51	2.95	4.18
Total, all causes.....	6.33	8.43	6.36	8.64	6.35	8.59

GENERAL TABLES.

OVER FROM EACH SPECIFIED CAUSE, BY SEX, OCCUPATION, AND AGE (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
1.44			0.10	0.06	0.10	2.55	4.67	0.13	0.30	0.25	0.44
		0.32	.60	.31	.59			.43	.51	.41	.49
		.06	.10	.06	.10			.03	.05	.03	.05
	3.31	.19	.60	.19	.68		1.56	.36	.81	.34	.83
		.13	.40	.12	.39			.23	.30	.22	.29
		.32	.10	.31	.10			.20	.05	.19	.05
		.19	.10	.19	.10			.03	.16	.03	.15
		.26	.40	.25	.39			.26	.20	.25	.20
1.44	3.31	1.48	2.42	1.48	2.44	2.55	6.23	1.84	2.38	1.87	2.50
	3.31	.52	.30	.50	.39		1.56	.26	.15	.25	.20
1.44	6.62	2.00	2.72	1.98	2.83	2.55	7.79	2.10	2.53	2.12	2.70
	3.31	.78	.71	.74	.78		1.66	.53	.35	.50	.39
1.44	3.31	1.23	2.01	1.24	2.05	2.55	6.23	1.58	2.18	1.62	2.30
1.44	6.62	2.00	2.72	1.98	2.83	2.55	7.79	2.10	2.53	2.12	2.70
.06	.11	.11	.07	.08	.08	.35	.38	.17	.25	.25	.30
.33	.11	.38	.21	.36	.17	.35	.19	.31	.21	.33	.20
.55	.85	.05	.07	.30	.38	.32	.50	.03	.04	.16	.20
.06		.05		.06		.03		.03		.03	
.22	.42	.22	.55	.22	.50	.26	.63	.28	.64	.27	.64
.50	.32	.22	.62	.36	.50	.48	.44	.22	.68	.34	.59
.39	.32	.22	.28	.30	.29	.32	.31	.28	.32	.30	.32
.06	.11	.05	.07	.06	.08	.03	.06	.03	.11	.03	.09
.17	.11	.27	.14	.22	.13	.19	.25	.45	.25	.38	.25
.61	.64	.33	.21	.47	.38	.55	.63	.28	.43	.40	.50
2.93	2.96	1.92	2.21	2.42	2.51	2.89	3.40	2.06	2.92	2.45	3.09
2.37	2.86	1.04	1.65	1.71	2.13	2.25	2.52	1.09	1.63	1.63	1.96
5.30	5.82	2.96	3.86	4.13	4.64	5.14	5.92	3.15	4.55	4.08	5.05
2.98	3.49	1.37	1.86	2.17	2.51	2.79	3.15	1.37	2.06	2.03	2.45
2.32	2.33	1.59	2.00	1.95	2.13	2.34	2.77	1.79	2.49	2.05	2.59
5.30	5.82	2.96	3.86	4.13	4.64	5.14	5.92	3.15	4.55	4.08	5.05
	.19	.20	.19	.13	.19	.25	.61	.38	.55	.33	.57
.31		.89	.91	.70	.68	.36	.10	.86	.86	.69	.67
1.12	.76	1.04	.91	1.07	.87	.56	.40	.57	.48	.56	.46
.10		.25	.19	.20	.14	.10		.16	.17	.14	.13
.41	.38	.20	.32	.27	.34	.36	.30	.22	.28	.28	.28
.82	.76	.30	.45	.47	.63	.56	.51	.35	.52	.42	.51
.51	1.14	.50	.58	.50	.72	.51	1.01	.46	.72	.48	.80
.10	.19	.10	.06	.10	.10	.15	.40	.11	.21	.12	.26
.20	.19	.20	.19	.20	.19	.25	.10	.32	.34	.30	.28
.92	.38	.60	.84	.70	.72	.82	.71	.73	1.07	.76	.98
4.48	3.99	4.27	4.66	4.34	4.48	3.93	4.14	4.15	5.21	4.07	4.94
4.69	6.07	1.94	2.00	2.84	3.04	3.82	5.16	2.13	2.38	2.72	3.08
9.17	10.06	6.21	6.66	7.18	7.52	7.75	9.30	6.28	7.59	6.79	8.02
5.60	6.45	2.53	2.85	3.54	3.76	4.64	5.86	2.86	3.45	3.47	4.06
3.57	3.61	3.67	3.82	3.64	3.76	3.11	3.44	3.42	4.14	3.31	3.96
9.17	10.06	6.21	6.66	7.18	7.52	7.75	9.30	6.28	7.59	6.79	8.02

GENERAL TABLES.

TABLE 8.—DEATH RATE PER 1,000 POPULATION 10 YEARS OF AGE AND GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL

Age group and cause of death.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
35 to 44 years:						
Accident or violence.....	0.72	0.26	1.01	1.35	0.89	1.05
Senility.....	.....	.....	.....	.....	.....	.....
Unclassified diseases.....	.....	.....	.54	.68	.33	.49
Parturition.....	.....	.....	.....	.....	.....	.....
Cancer.....	.12	.52	.46	.29	.33	.35
Diseases of the nervous system.....	.....	.26	.23	.58	.14	.49
Diseases of the digestive system.....	.96	1.03	1.24	1.35	1.13	1.26
Nephritis.....	.36	.78	1.01	.77	.75	.77
Apoplexy.....	.12	.....	.64	.58	.38	.42
Heart disease.....	.48	.26	1.16	.87	.89	.70
Respiratory diseases other than tuberculosis.....	.48	.78	1.86	1.64	1.32	1.40
Total, nontuberculous diseases.....	3.24	3.88	8.05	8.10	6.16	6.95
Tuberculosis.....	3.12	3.36	2.86	2.80	2.97	2.95
Total, all causes.....	6.36	7.24	10.91	10.90	9.13	9.90
Total, respiratory diseases.....	3.60	4.14	4.72	4.44	4.28	4.36
Total, nonrespiratory diseases.....	2.76	3.10	6.19	6.46	4.85	5.55
Total, all causes.....	6.36	7.24	10.91	10.90	9.13	9.90
45 to 64 years:						
Accident or violence.....	.91	.93	1.39	1.90	1.25	1.69
Senility.....	.....	.....	.26	.09	.18	.07
Unclassified diseases.....	1.22	.93	2.98	2.25	2.45	1.96
Parturition.....	.....	.....	.....	.....	.....	.....
Cancer.....	1.06	1.55	2.12	1.56	1.80	1.55
Diseases of the nervous system.....	.30	.....	.79	1.38	.65	1.08
Diseases of the digestive system.....	1.52	1.55	2.52	3.37	2.21	2.97
Nephritis.....	1.37	1.86	3.38	3.80	2.77	3.38
Apoplexy.....	1.06	2.17	2.98	3.11	2.40	2.91
Heart disease.....	1.82	1.55	5.17	4.23	4.15	3.65
Respiratory diseases other than tuberculosis.....	1.82	1.55	2.65	3.72	2.40	3.24
Total, nontuberculous diseases.....	11.10	12.11	24.24	25.41	20.25	22.51
Tuberculosis.....	1.82	2.48	2.85	2.59	2.54	2.57
Total, all causes.....	12.92	14.59	27.09	28.00	22.79	25.08
Total, respiratory diseases.....	3.65	4.03	5.50	6.31	4.94	5.81
Total, nonrespiratory diseases.....	9.27	10.55	21.60	21.69	17.85	19.27
Total, all causes.....	12.92	14.59	27.09	28.00	22.79	25.08
65 years and over:						
Accident or violence.....	4.83	12.15	2.04	2.45	2.28	3.13
Senility.....	2.42	4.05	9.54	9.18	8.92	8.82
Unclassified diseases.....	2.42	8.10	6.13	6.43	5.81	6.54
Parturition.....	.....	.....	.....	.....	.....	.....
Cancer.....	4.83	4.05	5.90	5.20	5.81	5.12
Diseases of the nervous system.....	.....	4.05	4.09	3.37	3.74	3.41
Diseases of the digestive system.....	.....	.....	5.68	7.65	5.19	7.11
Nephritis.....	14.49	8.10	7.27	12.55	7.89	12.23
Apoplexy.....	2.42	8.10	12.72	17.14	11.83	16.50
Heart disease.....	9.66	24.29	12.26	12.85	12.04	13.66
Respiratory diseases other than tuberculosis.....	7.25	.....	10.45	12.85	10.17	11.95
Total, nontuberculous diseases.....	48.31	72.87	76.07	89.66	73.68	88.48
Tuberculosis.....	.....	.....	2.72	2.45	2.49	2.27
Total, all causes.....	48.31	72.87	78.79	92.11	76.17	90.75
Total, respiratory diseases.....	7.25	.....	13.17	15.30	12.66	14.22
Total, nonrespiratory diseases.....	41.06	72.87	65.62	76.81	63.51	76.53
Total, all causes.....	48.31	72.87	78.79	92.11	76.17	90.75

GENERAL TABLES.

OVER FROM EACH SPECIFIED CAUSE, BY SEX, OCCUPATION, AND AGE RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
0.38	0.66	0.40	0.24	0.40	0.32	0.59	0.43	0.66	0.74	0.64	0.67
.19	.33	.80	.96	.66	.83	.07	.14	.69	.83	.60	.67
.95	.98	.51	.72	.62	.77	.37	.43	.30	.39	.32	.40
1.34	.33	1.03	.96	1.10	.83	.59	.43	.79	.65	.73	.60
		.23	.40	.18	.32		.14	.23	.48	.16	.40
1.15	.98	.69	.56	.79	.64	1.03	1.01	.92	.92	.95	.94
1.72	.66	.57	.48	.83	.51	.88	.72	.76	.61	.80	.64
.38		.34	.72	.35	.58	.22		.43	.65	.36	.50
.76	.66	1.14	.80	1.05	.77	.59	.43	1.15	.83	.98	.74
2.67	2.63	.40	.80	.92	1.15	1.33	1.59	1.02	1.18	1.11	1.27
9.55	7.22	6.11	6.62	6.90	6.73	5.67	5.35	6.93	7.29	6.54	6.84
3.24	4.59	.63	1.51	1.23	2.12	3.17	3.91	1.58	2.09	2.07	2.51
12.79	11.81	6.74	8.13	8.13	8.85	8.84	9.26	8.51	9.38	8.61	9.35
5.92	7.22	1.03	2.31	2.15	3.27	4.49	5.50	2.60	3.27	3.18	3.79
6.87	4.59	5.71	5.82	5.98	5.58	4.35	3.76	5.91	6.11	5.43	5.56
12.79	11.81	6.74	8.13	8.13	8.85	8.84	9.26	8.51	9.38	8.61	9.35
.40	.62	.54	.52	.53	.53	.77	.83	.89	1.12	.86	1.07
		.32	.13	.28	.12			.30	.11	.24	.09
		1.81	1.44	1.62	1.30	.88	.62	2.28	1.79	2.01	1.61
		.09		.08				.05		.04	
1.98	3.11	2.80	3.21	2.72	3.20	1.32	2.07	2.53	2.50	2.29	2.43
.79	1.25	.50	1.11	.53	1.13	.44	.41	.62	1.23	.68	1.11
1.19	1.25	2.49	1.77	2.35	1.72	1.43	1.45	2.50	2.46	2.29	2.31
4.35	3.11	2.40	3.14	2.60	3.14	2.20	2.28	2.80	3.43	2.68	3.25
1.58	1.25	3.21	3.80	3.04	3.56	1.21	1.86	3.12	3.50	2.74	3.25
3.16	3.11	4.07	3.01	3.98	3.02	2.20	2.07	4.52	3.54	4.06	3.32
1.19	3.74	3.12	3.01	2.92	3.08	1.65	2.28	2.93	3.32	2.68	3.16
14.63	17.44	21.36	21.16	20.66	20.80	12.08	13.88	22.53	22.99	20.47	21.60
2.37	2.49	1.22	1.24	1.34	1.37	1.97	2.48	1.88	1.83	1.90	1.93
17.00	19.93	22.58	22.40	22.00	22.17	14.05	16.36	24.41	24.82	22.37	23.53
3.56	6.23	4.34	4.26	4.26	4.44	3.62	4.76	4.81	5.14	4.58	5.08
13.44	13.70	18.23	18.14	17.74	17.72	10.43	11.60	19.60	19.67	17.79	18.44
17.00	19.93	22.58	22.40	22.00	22.17	14.05	16.36	24.41	24.82	22.37	23.53
		.82	2.44	.82	2.41	4.30	10.27	1.34	2.44	1.46	2.72
		11.18	11.74	11.09	11.63	2.15	3.42	10.49	10.67	10.14	10.40
		4.11	5.54	4.08	5.48	2.15	6.85	4.96	5.91	4.84	5.95
		5.92	5.32	5.87	5.26	4.30	3.42	5.91	5.27	5.84	5.20
		1.97	4.21	1.96	4.17		3.42	2.86	3.86	2.74	3.84
19.61		7.56	6.42	7.66	6.36			6.77	6.94	6.58	6.69
19.61		7.40	7.31	7.50	7.24	2.15		7.54	9.51	7.67	9.41
		10.36	17.06	10.27	16.89	2.15	6.85	11.35	17.09	10.96	16.72
		22.22	12.00	15.51	11.90	8.60	23.97	12.11	14.39	11.96	14.74
		11.02	15.51	10.93	15.35	6.45		10.78	14.39	10.59	13.87
39.22	22.22	72.35	91.05	72.08	90.37	47.31	65.07	73.91	90.46	72.79	89.55
		.66	1.33	.65	1.32			1.53	1.80	1.46	1.73
39.22	22.22	73.01	92.38	72.73	91.69	47.31	65.07	75.44	92.26	74.25	91.28
		11.68	16.84	11.58	16.67	6.45		12.30	16.19	12.05	15.61
39.22	22.22	61.34	75.54	61.15	75.02	40.86	65.07	63.14	76.07	62.19	75.68
39.22	22.22	73.01	92.38	72.73	91.69	47.31	65.07	75.44	92.26	74.25	91.28

GENERAL TABLES.

TABLE 8.—DEATH RATE PER 1,000 POPULATION 10 YEARS OF AGE AND GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL

Age group and cause of death.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
Total, 10 years and over:						
Accident or violence.....	0.82	1.07	0.75	1.09	0.77	1.09
Senility.....	.03	.05	.56	.50	.39	.40
Unclassified diseases.....	.46	.43	1.28	1.16	1.02	.99
Parturition.....						
Cancer.....	.28	.43	.79	.64	.63	.59
Diseases of the nervous system.....	.23	.48	.62	.90	.49	.80
Diseases of the digestive system.....	.69	.75	1.16	1.57	1.01	1.38
Nephritis.....	.67	.91	1.34	1.77	1.12	1.57
Apoplexy.....	.28	.64	1.35	1.69	1.01	1.45
Heart disease.....	.66	.80	2.05	1.83	1.60	1.59
Respiratory diseases other than tuberculosis.....	.82	.91	1.63	2.08	1.37	1.81
Total, nontuberculous diseases.....	4.94	6.46	11.53	13.23	9.41	11.67
Tuberculosis.....	2.41	2.83	1.85	2.04	2.03	2.22
Total, all causes.....	7.35	9.29	13.38	15.27	11.44	13.89
Total, respiratory diseases.....	3.23	3.74	3.48	4.12	3.40	4.03
Total, nonrespiratory diseases.....	4.12	5.55	9.90	11.15	8.04	9.86
Total, all causes.....	7.25	9.29	13.38	15.27	11.44	13.89
Total, 15 years and over:						
Accident or violence.....	.76	.92	.85	1.20	.82	1.13
Senility.....	.03	.05	.69	.59	.45	.45
Unclassified diseases.....	.47	.43	1.45	1.30	1.09	1.07
Parturition.....						
Cancer.....	.29	.43	.97	.76	.72	.68
Diseases of the nervous system.....	.24	.49	.64	.88	.49	.78
Diseases of the digestive system.....	.71	.76	1.34	1.83	1.11	1.55
Nephritis.....	.68	.92	1.63	2.10	1.28	1.79
Apoplexy.....	.29	.65	1.64	2.00	1.15	1.65
Heart disease.....	.68	.82	2.48	2.14	1.83	1.79
Respiratory diseases other than tuberculosis.....	.84	.92	1.92	2.46	1.53	2.06
Total, nontuberculous diseases.....	4.98	6.42	13.61	15.28	10.48	12.97
Tuberculosis.....	2.46	2.88	2.27	2.42	2.34	2.55
Total, all causes.....	7.44	9.30	15.88	17.70	12.82	15.52
Total, respiratory diseases.....	3.30	3.81	4.19	4.89	3.87	4.61
Total, nonrespiratory diseases.....	4.14	5.49	11.68	12.81	8.95	10.91
Total, all causes.....	7.44	9.30	15.88	17.70	12.82	15.52

GENERAL TABLES.

OVER FROM EACH SPECIFIED CAUSE, BY SEX, OCCUPATION, AND AGE RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.	Fall River, 3 years.	3 cities, 1 year.
0.14	0.25	0.30	0.37	0.26	0.35	0.49	0.65	0.50	0.71	0.50	0.69
.27	.10	.75	.76	.55	.60	.01	.03	.67	.64	.47	.50
.71	.76	1.09	1.14	.87	.91	.37	.26	1.18	1.14	.94	.94
.38	.30	.33	.33	.43	.42	.34	.39	.18	.18	.23	.23
.27	.46	1.24	1.23	1.01	1.03	.33	.36	1.04	.96	.83	.83
.74	.62	.38	.83	.35	.75	.25	.47	.49	.86	.42	.77
.91	.81	1.26	1.15	1.12	1.03	.72	.67	1.21	1.35	1.07	1.20
.22	.20	1.28	1.40	1.18	1.27	.79	.86	1.30	1.57	1.15	1.42
.47	.51	2.02	2.02	1.11	1.63	.25	.42	1.40	1.87	1.06	1.54
1.02	1.11	1.96	1.83	1.56	1.54	.57	.65	2.00	1.83	1.58	1.57
1.02	1.11	1.65	2.03	1.48	1.83	.91	1.01	1.65	2.04	1.43	1.82
5.13	5.12	11.68	13.09	9.92	11.38	5.03	5.77	11.62	13.15	9.68	11.51
3.07	3.96	1.09	1.41	1.62	1.96	2.73	3.41	1.43	1.71	1.81	2.08
8.20	9.08	12.77	14.50	11.54	13.34	7.76	9.18	13.05	14.86	11.49	13.59
4.09	5.07	2.74	3.44	3.10	3.79	3.64	4.42	3.08	3.75	3.24	3.90
4.11	4.01	10.03	11.06	8.44	9.55	4.12	4.76	9.97	11.11	8.25	9.69
8.20	9.08	12.77	14.50	11.54	13.34	7.76	9.18	13.05	14.86	11.49	13.59
.11	.26	.36	.42	.28	.38	.45	.58	.58	.78	.53	.73
.28	.10	.89	.88	.63	.67	.01	.03	.80	.75	.54	.57
.73	.77	1.24	1.22	.95	.95	.38	.26	1.33	1.26	1.02	1.01
.39	.31	.39	.39	.49	.48	.35	.40	.22	.21	.26	.26
.28	.41	1.45	1.41	1.14	1.15	.34	.37	1.24	1.12	.94	.93
.76	.62	.42	.87	.38	.76	.26	.45	.52	.87	.43	.77
.92	.82	1.46	1.27	1.25	1.11	.73	.69	1.41	1.53	1.19	1.32
.22	.21	1.45	1.61	1.29	1.42	.80	.87	1.53	1.83	1.29	1.59
.48	.52	1.70	2.34	1.26	1.84	.26	.42	1.67	2.19	1.21	1.75
1.04	1.13	2.28	2.10	1.74	1.73	.58	.66	2.37	2.12	1.78	1.76
1.04	1.13	1.92	2.28	1.65	2.01	.93	1.03	1.92	2.36	1.60	2.03
5.21	5.15	13.56	14.79	11.07	12.50	5.09	5.76	13.58	15.01	10.79	12.72
3.13	3.97	1.19	1.59	1.77	2.15	2.78	3.44	1.67	1.97	2.04	2.33
8.34	9.12	14.75	16.38	12.84	14.65	7.87	9.20	15.25	16.98	12.83	15.05
4.17	5.10	3.10	3.87	3.42	4.16	3.72	4.47	3.59	4.33	3.63	4.37
4.17	4.02	11.65	12.51	9.41	10.49	4.15	4.73	11.66	12.65	9.20	10.68
8.34	9.12	14.75	16.38	12.84	14.65	7.87	9.20	15.25	16.98	12.83	15.05

AGES 15 TO 44 YEARS.

TABLE 9.—POPULATION, NUMBER OF DEATHS, AND DEATH RATES PER NONTUBERCULOUS CAUSES, FOR OPERATIVES AND NONOPERATIVES

Age group and classified cause of death.	Population and deaths.									
	Males.			Females.			Both sexes.			Three cities (1 year): Both sexes and both classes.
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	
15 TO 19 YEARS.										
Population.....	2,300	3,227	5,527	2,987	3,038	6,025	5,287	6,265	11,552	22,111
Deaths:										
Tuberculous.....	11	9	20	20	10	30	31	19	50	29
Nontuberculous.....	21	15	36	24	16	40	45	31	76	64
Total, all causes.....	32	24	56	44	26	70	76	50	126	93
20 TO 24 YEARS.										
Population.....	2,042	2,647	4,689	3,052	3,037	6,089	5,094	5,684	10,778	21,886
Deaths:										
Tuberculous.....	16	11	27	23	9	32	39	20	59	57
Nontuberculous.....	16	24	40	29	19	48	45	43	88	72
Total, all causes.....	32	35	67	52	28	80	84	63	147	129
25 TO 29 YEARS.										
Population.....	1,696	2,980	4,676	1,914	3,518	5,432	3,610	6,498	10,108	21,011
Deaths:										
Tuberculous.....	8	13	21	26	18	44	34	31	65	45
Nontuberculous.....	13	27	40	18	39	57	31	66	97	89
Total, all classes.....	21	40	61	44	57	101	65	97	162	134
30 TO 34 YEARS.										
Population.....	1,571	2,679	4,250	1,357	3,195	4,552	2,928	5,874	8,802	17,887
Deaths:										
Tuberculous.....	21	27	48	20	21	41	41	48	89	75
Nontuberculous.....	20	41	61	26	47	73	46	88	134	103
Total, all causes.....	41	68	109	46	68	114	87	136	223	178
35 TO 39 YEARS.										
Population.....	1,529	2,339	3,868	1,037	2,993	4,030	2,566	5,332	7,898	16,227
Deaths:										
Tuberculous.....	14	28	42	12	9	21	26	37	63	41
Nontuberculous.....	12	54	66	24	44	68	36	98	134	97
Total, all causes.....	26	82	108	36	53	89	62	135	197	138
40 TO 44 YEARS.										
Population.....	1,250	1,968	3,218	709	2,846	3,555	1,959	4,814	6,773	13,603
Deaths:										
Tuberculous.....	12	9	21	5	2	7	17	11	28	34
Nontuberculous.....	15	50	65	26	63	89	41	113	154	107
Total, all causes.....	27	59	86	31	65	96	58	124	182	141
15 TO 44 YEARS.										
Population.....	10,388	15,840	26,228	11,056	18,627	29,683	21,444	34,467	55,911	112,725
Deaths:										
Tuberculous.....	82	97	179	106	69	175	188	166	354	281
Nontuberculous.....	97	211	308	147	228	375	244	439	683	532
Total, all causes.....	179	308	487	253	297	550	432	605	1,037	813

AGES 15 TO 44 YEARS.

1,000 POPULATION 15 TO 44 YEARS OF AGE FROM TUBERCULOUS AND IN EACH 5-YEAR AGE GROUP, BY SEX, FALL RIVER, 1905 TO 1907.

Death rates.									
Males.			Females.			Both sexes.			Three cities (1 year): Both sexes and both classes.
Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	
1.60	0.93	1.21	2.23	1.10	1.66	1.95	1.01	1.44	1.31
3.04	1.55	2.17	2.68	1.75	2.21	2.84	1.65	2.20	2.90
4.64	2.48	3.38	4.91	2.85	3.87	4.79	2.66	3.64	4.21
2.61	1.39	1.92	2.51	.99	1.75	2.55	1.17	1.83	2.60
2.61	3.02	2.84	3.17	2.08	2.63	2.95	2.52	2.72	3.29
5.22	4.41	4.76	5.68	3.07	4.38	5.50	3.69	4.55	5.89
1.57	1.45	1.50	4.53	1.71	2.70	3.14	1.59	2.14	2.14
2.56	3.02	2.85	3.13	3.69	3.50	2.86	3.39	3.20	4.24
4.13	4.47	4.35	7.66	5.40	6.20	6.00	4.98	5.34	6.38
4.46	3.36	3.77	4.91	2.19	3.00	4.67	2.73	3.37	4.19
4.24	5.10	4.78	6.39	4.90	5.35	5.23	4.99	5.08	5.76
8.70	8.46	8.55	11.30	7.09	8.35	9.90	7.72	8.45	9.95
3.05	3.99	3.62	3.86	1.00	1.74	3.38	2.31	2.66	2.52
2.62	7.70	5.69	7.71	4.90	5.62	4.67	6.13	5.65	5.98
5.67	11.69	9.31	11.57	5.90	7.36	8.05	8.44	8.31	8.50
3.20	1.52	2.18	2.35	.23	.66	2.89	.76	1.38	2.50
4.00	8.47	6.73	12.22	7.38	8.34	6.98	7.83	7.58	7.87
7.20	9.99	8.91	14.57	7.61	9.00	9.87	8.59	8.96	10.37
2.63	2.04	2.28	3.20	1.23	1.97	2.92	1.60	2.11	2.49
3.11	4.44	3.91	4.43	4.08	4.21	3.80	4.25	4.07	4.72
5.74	6.48	6.19	7.63	5.31	6.18	6.72	5.85	6.18	7.21

AGES 15 TO 44 YEARS.

TABLE 10.—AGE PERCENTAGE DISTRIBUTION OF OPERATIVE AND OF NONOPERATIVE MALES AND FEMALES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907.

Age group and classified cause of death.	Males.			Females.			Both sexes.			Three cities (1 year): Both sexes and both classes.
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	
15 TO 19 YEARS.										
Population.....	22	20	21	27	17	20	25	18	21	20
Deaths:										
Tuberculous.....	13	9	11	19	15	17	16	12	14	10
Nontuberculous.....	22	7	12	16	7	11	18	7	11	12
Total, all causes.....	18	8	12	18	9	13	18	8	12	11
20 TO 24 YEARS.										
Population.....	20	17	18	28	17	20	23	16	19	20
Deaths:										
Tuberculous.....	19	11	15	21	13	18	21	12	16	20
Nontuberculous.....	17	11	13	20	8	13	18	10	13	14
Total, all causes.....	18	11	14	20	9	15	19	11	14	16
25 TO 29 YEARS.										
Population.....	16	19	18	17	18	18	17	19	18	18
Deaths:										
Tuberculous.....	10	14	12	25	26	25	18	18	19	16
Nontuberculous.....	13	13	13	12	17	15	13	15	14	17
Total, all causes.....	12	13	12	18	19	18	15	16	15	17
30 TO 34 YEARS.										
Population.....	15	17	16	12	17	16	14	17	16	16
Deaths:										
Tuberculous.....	26	28	27	19	30	24	22	29	25	27
Nontuberculous.....	21	19	20	18	21	19	19	20	20	19
Total, all causes.....	23	22	22	18	23	21	20	22	22	22
35 TO 39 YEARS.										
Population.....	15	15	15	9	16	14	12	16	14	14
Deaths:										
Tuberculous.....	17	29	23	11	13	12	14	22	18	15
Nontuberculous.....	12	26	21	16	19	18	15	22	20	18
Total, all causes.....	14	27	22	14	18	16	15	22	19	17
40 TO 44 YEARS.										
Population.....	12	12	12	7	15	12	9	14	12	12
Deaths:										
Tuberculous.....	15	9	12	5	3	4	9	7	8	12
Nontuberculous.....	15	24	21	18	28	24	17	26	22	20
Total, all causes.....	15	19	18	12	22	17	13	21	18	17

AGES 15 TO 44 YEARS.

TABLE 11.—SEX PERCENTAGE DISTRIBUTION OF OPERATIVES AND OF NONOPERATIVES IN EACH 5-YEAR AGE GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907.

Age group and classified cause of death.	Operatives.			Nonoperatives.			Both classes.		
	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).
	Males.	Fe-males.		Males.	Fe-males.		Males.	Fe-males.	
15 TO 19 YEARS.									
Population.....	44	56	5,287	51	49	6,265	48	52	11,552
Deaths:									
Tuberculous.....	35	65	31	47	53	19	40	60	50
Nontuberculous.....	47	53	45	48	52	31	47	53	76
Total, all causes.....	42	58	76	48	52	50	44	56	126
20 TO 24 YEARS.									
Population.....	40	60	5,094	47	53	5,684	44	56	10,778
Deaths:									
Tuberculous.....	41	59	39	55	45	20	46	54	59
Nontuberculous.....	36	64	45	56	44	43	45	55	88
Total, all causes.....	38	62	84	56	44	63	46	54	147
25 TO 29 YEARS.									
Population.....	47	53	3,610	46	54	6,498	46	54	10,108
Deaths:									
Tuberculous.....	24	76	34	42	58	31	32	68	65
Nontuberculous.....	42	58	31	41	59	66	41	59	97
Total, all causes.....	32	68	65	41	59	97	38	62	162
30 TO 34 YEARS.									
Population.....	54	46	2,928	46	54	5,874	48	52	8,802
Deaths:									
Tuberculous.....	51	49	41	56	44	48	54	46	89
Nontuberculous.....	43	57	46	47	53	88	46	54	134
Total, all causes.....	47	53	87	50	50	136	49	51	223
35 TO 39 YEARS.									
Population.....	60	40	2,566	44	56	5,332	49	51	7,898
Deaths:									
Tuberculous.....	54	46	26	76	24	37	67	33	63
Nontuberculous.....	33	67	36	55	45	98	49	51	134
Total, all causes.....	42	58	62	61	39	135	55	45	197
40 TO 44 YEARS.									
Population.....	64	36	1,959	41	59	4,814	48	52	6,773
Deaths:									
Tuberculous.....	71	29	17	82	18	11	75	25	28
Nontuberculous.....	37	63	41	44	56	113	42	58	154
Total, all causes.....	47	53	58	48	52	124	47	53	182
15 TO 44 YEARS.									
Population.....	48	52	21,444	46	54	34,467	47	53	55,911
Deaths:									
Tuberculous.....	44	56	188	58	42	166	51	49	354
Nontuberculous.....	40	60	244	48	52	439	45	55	683
Total, all causes.....	41	59	432	51	49	605	47	53	1,037

AGES 15 TO 44 YEARS.

TABLE 12.—PER CENT OF OPERATIVES AND NONOPERATIVES AMONG MALES AND AMONG FEMALES IN EACH 5-YEAR AGE GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NON-TUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907.

Age group and classified cause of death.	Males.			Females.			Both sexes.		
	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).
	Operatives.	Non-operatives.		Operatives.	Non-operatives.		Operatives.	Non-operatives.	
15 TO 19 YEARS.									
Population.....	42	58	5,527	50	50	6,025	46	54	11,552
Deaths:									
Tuberculous.....	55	45	20	67	33	30	62	38	50
Nontuberculous.....	58	42	36	60	40	40	59	41	76
Total, all causes.....	57	43	56	63	37	70	60	40	126
20 TO 24 YEARS.									
Population.....	44	56	4,689	50	50	6,089	47	53	10,778
Deaths:									
Tuberculous.....	59	41	27	72	28	32	66	34	59
Nontuberculous.....	40	60	40	60	40	48	51	49	88
Total, all causes.....	48	52	67	65	35	80	57	43	147
25 TO 29 YEARS.									
Population.....	36	64	4,676	35	65	5,432	36	64	10,108
Deaths:									
Tuberculous.....	38	62	21	59	41	44	52	48	65
Nontuberculous.....	32	68	40	32	68	57	32	68	97
Total, all causes.....	34	66	61	44	56	101	40	60	162
30 TO 34 YEARS.									
Population.....	37	63	4,250	30	70	4,552	33	67	8,802
Deaths:									
Tuberculous.....	44	56	48	49	51	41	46	54	89
Nontuberculous.....	33	67	61	36	64	73	34	66	134
Total, all causes.....	38	62	109	40	60	114	39	61	223
35 TO 39 YEARS.									
Population.....	40	60	3,868	26	74	4,030	33	67	7,898
Deaths:									
Tuberculous.....	33	67	42	57	43	21	41	59	63
Nontuberculous.....	18	82	66	35	65	68	27	73	134
Total, all causes.....	24	76	108	40	60	89	31	69	197
40 TO 44 YEARS.									
Population.....	39	61	3,218	20	80	3,555	29	71	6,773
Deaths:									
Tuberculous.....	57	43	21	71	29	7	61	39	28
Nontuberculous.....	23	77	65	29	71	89	27	73	154
Total, all causes.....	31	69	86	32	68	96	32	68	182
15 TO 44 YEARS.									
Population.....	40	60	26,228	37	63	29,683	38	62	55,911
Deaths:									
Tuberculous.....	46	54	179	61	39	175	53	47	354
Nontuberculous.....	31	69	308	39	61	375	36	64	683
Total, all causes.....	37	63	487	46	54	550	42	58	1,037

AGES 15 TO 44 YEARS.

TABLE 13.—PER CENT OF OPERATIVE AND NONOPERATIVE MALES AND FEMALES IN TOTAL FOR EACH 5-YEAR AGE GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907.

Age group and classified cause of death.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes (100 per cent).
15 TO 19 YEARS.									
Population.....	20	28	48	26	26	52	46	54	11,552
Deaths:									
Tuberculous.....	22	18	40	40	20	60	62	38	50
Nontuberculous.....	27	20	47	32	21	53	59	41	76
Total, all causes.....	25	19	44	35	21	56	60	40	126
20 TO 24 YEARS.									
Population.....	19	25	44	28	28	56	47	53	10,778
Deaths:									
Tuberculous.....	27	19	46	39	15	54	66	34	59
Nontuberculous.....	18	27	45	33	22	55	51	49	88
Total, all causes.....	22	24	46	35	19	54	57	43	147
25 TO 29 YEARS.									
Population.....	17	29	46	19	35	54	36	64	10,108
Deaths:									
Tuberculous.....	12	20	32	40	28	68	52	48	65
Nontuberculous.....	13	28	41	19	40	59	32	68	97
Total, all causes.....	13	25	38	27	35	62	40	60	162
30 TO 34 YEARS.									
Population.....	18	30	48	15	37	52	33	67	8,802
Deaths:									
Tuberculous.....	24	30	54	22	24	46	46	54	89
Nontuberculous.....	15	31	46	19	35	54	34	66	134
Total, all causes.....	18	31	49	21	30	51	39	61	223
35 TO 39 YEARS.									
Population.....	20	29	49	13	38	51	33	67	7,898
Deaths:									
Tuberculous.....	22	45	67	19	14	33	41	59	63
Nontuberculous.....	9	40	49	18	33	51	27	73	134
Total, all causes.....	13	42	55	18	27	45	31	69	197
40 TO 44 YEARS.									
Population.....	19	29	48	10	42	52	29	71	6,773
Deaths:									
Tuberculous.....	43	32	75	18	7	25	61	39	28
Nontuberculous.....	10	32	42	17	41	58	27	73	154
Total, all causes.....	15	32	47	17	36	53	32	68	182
15 TO 44 YEARS.									
Population.....	19	28	47	19	34	53	38	62	55,911
Deaths:									
Tuberculous.....	23	28	51	30	19	49	53	47	354
Nontuberculous.....	14	31	45	22	33	55	36	64	683
Total, all causes.....	17	30	47	25	28	53	42	58	1,037

AGES 15 TO 44 YEARS.

TABLE 14.—PER CENT OF DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS MALES AND FEMALES, FOR EACH 5-YEAR AGE GROUP, FALL PAWTUCKET, 1 YEAR.

Age group, classified cause of death, etc.	Fall River (3 years).								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
15 TO 19 YEARS.									
Per cent of deaths:									
Tuberculous.....	34	37	36	45	38	43	41	38	40
Nontuberculous.....	66	63	64	55	62	57	59	62	60
Number, all causes (100 per cent).....	32	24	56	44	26	70	76	50	126
Death rate per 1,000, all causes.....	4.64	2.48	3.38	4.91	2.85	3.87	4.79	2.66	3.64
20 TO 24 YEARS.									
Per cent of deaths:									
Tuberculous.....	50	31	40	44	32	40	46	32	40
Nontuberculous.....	50	69	60	56	68	60	54	68	60
Number, all causes (100 per cent).....	32	35	67	52	28	80	84	63	147
Death rate per 1,000, all causes.....	5.22	4.41	4.76	5.68	3.07	4.38	5.50	3.69	4.55
25 TO 29 YEARS.									
Per cent of deaths:									
Tuberculous.....	38	32	34	59	32	44	52	32	40
Nontuberculous.....	62	68	66	41	68	56	48	68	60
Number, all causes (100 per cent).....	21	40	61	44	57	101	65	97	162
Death rate per 1,000, all causes.....	4.13	4.47	4.35	7.66	5.40	6.20	6.00	4.98	5.34
30 TO 34 YEARS.									
Per cent of deaths:									
Tuberculous.....	51	40	44	43	31	36	47	35	40
Nontuberculous.....	49	60	56	57	69	64	53	65	60
Number, all causes (100 per cent).....	41	68	109	46	68	114	87	136	223
Death rate per 1,000, all causes.....	8.70	8.46	8.55	11.30	7.09	8.35	9.90	7.72	8.45
35 TO 39 YEARS.									
Per cent of deaths:									
Tuberculous.....	54	34	39	33	17	24	42	27	32
Nontuberculous.....	46	66	61	67	83	76	58	73	68
Number, all causes (100 per cent).....	26	82	108	36	53	89	62	135	197
Death rate per 1,000, all causes.....	5.67	11.69	9.31	11.57	5.90	7.36	8.05	8.44	8.31
40 TO 44 YEARS.									
Per cent of deaths:									
Tuberculous.....	44	15	24	16	3	7	29	9	15
Nontuberculous.....	56	85	76	84	97	93	71	91	85
Number, all causes (100 per cent).....	27	59	86	31	65	96	58	124	182
Death rate per 1,000, all causes.....	7.20	9.99	8.91	14.57	7.61	9.00	9.87	8.50	8.96
15 TO 44 YEARS.									
Per cent of deaths:									
Tuberculous.....	46	32	37	42	23	32	44	27	34
Nontuberculous.....	54	68	63	58	77	68	56	73	66
Number, all causes (100 per cent).....	179	308	4.87	253	297	550	432	605	1,037
Death rate per 1,000, all causes.....	5.74	6.48	6.19	7.63	5.31	6.18	6.72	5.85	6.18

AGES 15 TO 44 YEARS.

BERCULOUS CAUSES AMONG OPERATIVE AND AMONG NONOPERATIVE, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND

Three cities (1 year).								
Males.			Females.			Both sexes.		
Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.
17	26	22	53	31	40	35	29	31
83	74	78	47	69	60	65	71	69
18	27	45	19	29	48	37	56	93
5.33	3.82	4.31	4.02	4.17	4.11	4.57	4.00	4.21
48	33	38	47	56	51	47	42	44
52	67	62	53	44	49	53	58	56
21	45	66	36	27	63	57	72	129
6.88	6.85	6.86	7.63	3.58	5.14	7.33	5.10	5.89
36	18	22	72	28	43	59	23	34
64	82	78	28	72	57	41	77	66
14	45	59	25	50	75	39	95	134
5.70	6.32	6.16	8.11	5.99	6.56	7.04	6.14	6.38
56	40	45	50	32	38	53	38	42
44	60	55	50	68	62	47	62	58
25	72	97	28	53	81	53	125	178
11.51	11.22	11.29	12.81	7.45	8.71	12.16	9.24	9.95
55	24	30	45	24	30	48	24	30
45	76	70	55	76	70	52	76	70
11	50	61	22	55	77	33	105	138
5.24	8.68	7.76	12.05	8.41	9.20	8.41	8.54	8.50
41	27	30	29	13	16	35	21	24
59	73	70	71	87	84	65	79	76
17	63	80	14	47	61	31	110	141
9.63	13.67	12.55	11.46	7.83	8.44	10.38	10.36	10.37
42	29	33	51	28	36	47	29	35
58	71	67	49	72	64	53	71	65
106	302	408	144	261	405	250	563	813
7.10	8.05	7.78	8.11	6.14	6.72	7.65	7.03	7.21

AGES 15 TO 44 YEARS.

TABLE 15.—PER CENT OF MALES AND FEMALES IN EACH 5-YEAR AGE GROUP OF TOTAL OPERATIVES AND OF TOTAL NONOPERATIVES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907.

Age group and classified cause of death.	Operatives.			Nonoperatives.			Both classes.		
	Males.	Fe-males.	Both sexes.	Males.	Fe-males.	Both sexes.	Males.	Fe-males.	Both sexes.
15 TO 19 YEARS.									
Population.....	11	14	25	9	9	18	10	11	21
Deaths:									
Tuberculous.....	6	10	16	6	6	12	6	8	14
Nontuberculous.....	9	9	18	3	4	7	5	6	11
Total, all causes.....	8	10	18	4	4	8	5	7	12
20 TO 24 YEARS.									
Population.....	9	14	23	7	9	16	8	11	19
Deaths:									
Tuberculous.....	9	12	21	7	5	12	7	9	16
Nontuberculous.....	7	11	18	6	4	10	6	7	13
Total, all causes.....	7	12	19	6	5	11	6	8	14
25 TO 29 YEARS.									
Population.....	8	9	17	9	10	19	8	10	18
Deaths:									
Tuberculous.....	4	14	18	7	11	18	6	13	19
Nontuberculous.....	5	8	13	6	9	15	6	8	14
Total, all causes.....	5	10	15	7	9	16	6	9	15
30 TO 34 YEARS.									
Population.....	7	7	14	8	9	17	8	8	16
Deaths:									
Tuberculous.....	11	11	22	16	13	29	14	11	25
Nontuberculous.....	8	11	19	9	11	20	9	11	20
Total, all causes.....	9	11	20	11	11	22	11	11	22
35 TO 39 YEARS.									
Population.....	7	5	12	7	9	16	7	7	14
Deaths:									
Tuberculous.....	8	6	14	16	6	22	12	6	18
Nontuberculous.....	5	10	15	12	10	22	10	10	20
Total, all causes.....	6	9	15	13	9	22	10	9	19
40 TO 44 YEARS.									
Population.....	6	3	9	6	8	14	6	6	12
Deaths:									
Tuberculous.....	6	3	9	6	1	7	6	2	8
Nontuberculous.....	6	11	17	12	14	26	9	13	22
Total, all causes.....	6	7	13	10	11	21	9	9	18
15 TO 44 YEARS.									
Population.....	48	52	a21,444	46	54	a34,467	47	53	a55,911
Deaths:									
Tuberculous.....	44	56	a188	58	42	a166	51	49	a354
Nontuberculous.....	40	60	a244	48	52	a439	45	55	a683
Total, all causes.....	41	59	a432	51	49	a605	47	53	a1,037

a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 16.—PER CENT OF OPERATIVES AND NONOPERATIVES IN EACH 5-YEAR AGE GROUP OF TOTAL MALES AND OF TOTAL FEMALES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NON-TUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907.

Age group and classified cause of death.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
15 TO 19 YEARS.									
Population.....	9	12	21	10	10	20	10	11	21
Deaths:									
Tuberculous.....	6	5	11	11	6	17	8	6	14
Nontuberculous.....	7	5	12	7	4	11	6	5	11
Total, all causes.....	7	5	12	8	5	13	7	5	12
20 TO 24 YEARS.									
Population.....	8	10	18	10	10	20	9	10	19
Deaths:									
Tuberculous.....	9	6	15	13	5	18	11	5	16
Nontuberculous.....	5	8	13	8	5	13	6	7	13
Total, all causes.....	7	7	14	10	5	15	8	6	14
25 TO 29 YEARS.									
Population.....	6	12	18	6	12	18	6	12	18
Deaths:									
Tuberculous.....	5	7	12	15	10	25	10	9	19
Nontuberculous.....	4	9	13	5	10	15	5	9	14
Total, all causes.....	4	8	12	8	10	18	6	9	15
30 TO 34 YEARS.									
Population.....	6	10	16	5	11	16	5	11	16
Deaths:									
Tuberculous.....	12	15	27	12	12	24	11	14	25
Nontuberculous.....	6	14	20	6	13	19	7	13	20
Total, all causes.....	8	14	22	9	12	21	9	13	22
35 TO 39 YEARS.									
Population.....	6	9	15	4	10	14	5	9	14
Deaths:									
Tuberculous.....	7	16	23	7	5	12	8	10	18
Nontuberculous.....	4	17	21	6	12	18	6	14	20
Total, all causes.....	5	17	22	6	10	16	6	13	19
40 TO 44 YEARS.									
Population.....	5	7	12	2	10	12	3	9	12
Deaths:									
Tuberculous.....	7	5	12	3	1	4	5	3	8
Nontuberculous.....	5	16	21	7	17	24	6	16	22
Total, all causes.....	6	12	18	5	12	17	6	12	18
15 TO 44 YEARS.									
Population.....	40	60	a26,228	37	63	a29,683	38	62	a55,911
Deaths:									
Tuberculous.....	46	54	a179	61	39	a175	53	47	a354
Nontuberculous.....	31	69	a308	39	61	a375	36	64	a683
Total, all causes.....	37	63	a487	46	54	a550	42	58	a1,037

a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 17.—PER CENT OF OPERATIVES AND NONOPERATIVES OF EACH SEX AND AGE GROUP IN TOTAL FOR ALL CLASSES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907.

Age group and classified cause of death.	Fall River (3 years).									Three cities (1 year): Both sexes and both classes.
	Males.			Females.			Both sexes.			
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	
15 TO 19 YEARS.										
Population.....	4	6	10	6	5	11	10	11	21	20
Deaths:										
Tuberculous.....	3	3	6	5	3	8	8	6	14	10
Nontuberculous.....	3	2	5	3	3	6	6	5	11	12
Total, all causes.....	3	2	5	4	3	7	7	5	12	11
20 TO 24 YEARS.										
Population.....	4	4	8	5	6	11	9	10	19	20
Deaths:										
Tuberculous.....	4	3	7	7	2	9	11	5	16	20
Nontuberculous.....	2	4	6	4	3	7	6	7	13	14
Total, all causes.....	3	3	6	5	3	8	8	6	14	16
25 TO 29 YEARS.										
Population.....	3	5	8	3	7	10	6	12	18	18
Deaths:										
Tuberculous.....	2	4	6	8	5	13	10	9	19	16
Nontuberculous.....	2	4	6	3	5	8	5	9	14	17
Total, all causes.....	2	4	6	4	5	9	6	9	15	17
30 TO 34 YEARS.										
Population.....	3	5	8	2	6	8	5	11	16	16
Deaths:										
Tuberculous.....	6	8	14	5	6	11	11	14	25	27
Nontuberculous.....	3	6	9	4	7	11	7	13	20	19
Total, all causes.....	4	7	11	5	6	11	9	13	22	22
35 TO 39 YEARS.										
Population.....	3	4	7	2	5	7	5	9	14	14
Deaths:										
Tuberculous.....	4	8	12	4	2	6	8	10	18	15
Nontuberculous.....	2	8	10	4	6	10	6	14	20	18
Total, all causes.....	2	8	10	4	5	9	6	13	19	17
40 TO 44 YEARS.										
Population.....	2	4	6	1	5	6	3	9	12	12
Deaths:										
Tuberculous.....	4	2	6	1	1	2	5	3	8	12
Nontuberculous.....	2	7	9	4	9	13	6	16	22	20
Total, all causes.....	3	6	9	3	6	9	6	12	18	17

AGES 15 TO 44 YEARS.

TABLE 17.—PER CENT OF OPERATIVES AND NONOPERATIVES OF EACH SEX AND AGE GROUP IN TOTAL FOR ALL CLASSES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907—Concluded.

Age group and classified cause of death.	Fall River (3 years).									Three cities (1 year): Both sexes and both classes.
	Males.			Females.			Both sexes.			
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	
15 TO 44 YEARS.										
Population.....	19	28	47	19	34	53	38	62	55,911	112,725
Deaths:										
Tuberculous.....	23	28	51	30	19	49	53	47	354	281
Nontuberculous.....	14	31	45	22	33	55	36	64	683	532
Total, all causes	17	30	47	25	28	53	42	58	1,037	813

*Total on which per cents are based.

[This section contains a very faint and illegible table, likely a continuation of mortality data for other age groups or causes of death.]

AGES 15 TO 44 YEARS.

TABLE 18.—POPULATION, NUMBER OF DEATHS, AND DEATH RATES AND NONTUBERCULOUS CAUSES, FOR OPERATIVES AND NONOPER (FALL RIVER, MANCHESTER, AND PAWTUCKET).

POPULATION.

Race and locality.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
All non-Irish races:									
Fall River.....	8,882	13,202	22,084	8,641	15,372	24,013	17,523	28,574	46,097
3 cities.....	12,858	30,703	43,561	13,917	34,246	48,163	26,775	64,949	91,724
Irish:									
Fall River.....	1,506	2,638	4,144	2,415	3,255	5,670	3,921	5,893	9,814
3 cities.....	2,064	6,828	8,892	3,847	8,262	12,109	5,911	15,090	21,001
American:									
Fall River.....	598	4,228	4,826	732	4,699	5,431	1,330	8,927	10,257
3 cities.....	1,152	12,068	13,220	1,167	13,752	14,919	2,319	25,820	28,139
English:									
Fall River.....	2,988	2,940	5,928	2,893	3,757	6,650	5,881	6,697	12,578
3 cities.....	3,571	6,346	9,917	4,060	7,277	11,337	7,631	13,623	21,254

DEATHS, TUBERCULOUS.

Race, locality, and period.	Number of deaths.								
	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
All non-Irish races:									
Fall River.....	25	20	45	33	19	52	58	39	97
{ 1 year... 3 years..	62	53	115	71	50	121	133	103	236
3 cities.....	35	46	81	49	48	97	84	94	178
{ 1 year... 3 years..	83	131	214	116	128	244	199	259	458
Irish:									
Fall River.....	8	20	28	11	11	22	19	31	50
{ 1 year... 3 years..	20	44	64	35	19	54	55	63	118
3 cities.....	10	43	53	24	26	50	34	69	103
{ 1 year... 3 years..	27	112	139	62	54	116	89	166	255
American:									
Fall River.....	4	3	7	3	3	6	7	6	13
{ 1 year... 3 years..	6	13	19	5	8	13	11	21	32
3 cities.....	4	13	17	5	8	13	9	21	30
{ 1 year... 3 years..	8	42	50	12	29	41	20	71	91
English:									
Fall River.....	5	7	12	9	4	13	14	11	25
{ 1 year... 3 years..	16	15	31	14	10	24	30	25	55
3 cities.....	7	14	21	13	7	20	20	21	41
{ 1 year... 3 years..	20	30	50	23	19	42	43	49	92
French Canadian:									
Fall River.....	10	7	17	16	7	23	26	14	40
{ 1 year... 3 years..	26	15	41	39	19	58	65	34	99
3 cities.....	14	14	28	25	24	49	39	38	77
{ 1 year... 3 years..	34	39	73	65	61	126	99	100	199
Other races:									
Fall River.....	6	3	9	5	5	10	11	8	19
{ 1 year... 3 years..	14	10	24	13	13	26	27	23	50
3 cities.....	10	5	15	6	9	15	16	14	30
{ 1 year... 3 years..	21	20	41	16	19	35	37	39	76
Total, all races:									
Fall River.....	33	40	73	44	30	74	77	70	147
{ 1 year... 3 years..	82	97	179	106	69	175	188	166	354
3 cities.....	45	89	134	73	74	147	118	163	281
{ 1 year... 3 years..	110	243	353	178	182	360	288	425	713

AGES 15 TO 44 YEARS.

PER 1,000 POPULATION 15 TO 44 YEARS OF AGE FROM TUBERCULOUS ATIVES OF SPECIFIED RACES, BY SEX, FALL RIVER AND 3 CITIES

POPULATION.

Race and locality.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
French Canadian:									
Fall River.....	3,503	3,658	7,161	3,498	4,427	7,925	7,001	8,085	15,086
3 cities.....	4,836	9,096	13,932	6,202	9,415	15,617	11,038	18,511	29,549
Other races:									
Fall River.....	1,793	2,376	4,169	1,518	2,489	4,007	3,311	4,865	8,176
3 cities.....	3,299	3,193	6,492	2,488	3,802	6,290	5,737	6,995	12,782
Total, all races:									
Fall River.....	10,388	15,840	26,228	11,056	18,627	29,683	21,444	34,467	55,911
3 cities.....	14,922	37,531	52,453	17,764	42,508	60,272	32,686	80,039	112,725

DEATHS, TUBERCULOUS.

Death rate per 1,000 population 15 to 44 years of age.

Males.			Females.			Both sexes.		
Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
2.81	1.51	2.04	3.82	1.24	2.17	3.31	1.37	2.10
2.33	1.34	1.74	2.74	1.09	1.68	2.53	1.20	1.70
2.72	1.50	1.86	3.52	1.40	2.02	3.14	1.45	1.94
2.15	1.42	1.64	2.78	1.25	1.69	2.48	1.33	1.66
5.31	7.58	6.75	4.55	3.38	3.88	4.85	5.26	5.09
4.43	5.56	5.15	4.83	1.94	3.17	4.67	3.56	4.01
4.84	6.30	5.96	6.24	3.15	4.13	5.75	4.57	4.91
4.36	5.47	5.21	5.37	2.18	3.19	5.02	3.67	4.05
6.69	.71	1.45	4.10	.64	1.10	5.26	.67	1.27
3.34	1.03	1.31	2.28	.57	.80	2.76	.79	1.04
3.47	1.08	1.29	4.28	.58	.87	3.88	.81	1.07
2.32	1.16	1.26	3.43	.70	.92	2.87	.92	1.08
1.67	2.38	2.02	3.11	1.06	1.95	2.38	1.64	1.99
1.78	1.70	1.74	1.61	.89	1.20	1.70	1.25	1.46
1.96	2.21	2.12	3.20	.96	1.77	2.62	1.54	1.93
1.86	1.58	1.68	1.89	.87	1.23	1.88	1.20	1.44
2.85	1.91	2.37	4.58	1.58	2.90	3.71	1.73	2.65
2.47	1.37	1.91	3.72	1.43	2.44	3.10	1.40	2.19
2.89	1.54	2.01	4.03	2.55	3.14	3.53	2.05	2.61
2.34	1.43	1.75	3.49	2.16	2.69	2.99	1.80	2.24
3.35	1.26	2.16	3.29	2.01	2.50	3.32	1.64	2.32
2.61	1.40	1.92	2.86	1.74	2.16	2.72	1.53	2.04
3.03	1.57	2.31	2.41	2.37	2.38	2.76	2.00	2.35
2.12	2.09	2.11	2.15	1.67	1.85	2.13	1.86	1.98
3.18	2.52	2.78	3.98	1.61	2.49	3.59	2.03	2.63
2.63	2.04	2.28	3.20	1.23	1.97	2.92	1.60	2.11
3.01	2.37	2.56	4.11	1.74	2.44	3.61	2.03	2.49
2.46	2.16	2.24	3.34	1.43	1.99	2.94	1.77	2.11

AGES 15 TO 44 YEARS.

TABLE 18.—POPULATION, NUMBER OF DEATHS, AND DEATH RATES AND NONTUBERCULOUS CAUSES, FOR OPERATIVES AND NONOPER (FALL RIVER, MANCHESTER AND PAWTUCKET)—Concluded.

DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Number of deaths.								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....	31	57	88	39	48	87	70	105	175
3 cities.....	73	144	217	108	167	275	181	311	492
1 year.....	50	150	200	51	136	187	101	286	387
Irish:									
Fall River.....	8	28	36	12	15	27	20	43	63
3 cities.....	24	67	91	39	61	100	63	128	191
1 year.....	11	63	74	20	51	71	31	114	145
American:									
Fall River.....	5	12	17	3	16	19	8	28	36
3 cities.....	9	24	33	10	43	53	19	67	86
1 year.....	10	44	54	4	44	48	14	88	102
English:									
Fall River.....	4	12	16	10	9	19	14	21	35
3 cities.....	18	39	57	29	37	66	47	76	123
1 year.....	8	32	40	16	26	42	24	58	82
French Canadian:									
Fall River.....	16	20	36	19	15	34	35	35	70
3 cities.....	32	48	80	50	61	111	82	109	191
1 year.....	22	48	70	24	53	77	46	101	147
Other races:									
Fall River.....	6	13	19	7	8	15	13	21	34
3 cities.....	14	33	47	19	28	45	33	59	92
1 year.....	10	26	36	7	13	20	17	39	56
Total, all races:									
Fall River.....	39	85	124	51	63	114	90	148	238
3 cities.....	97	211	308	147	228	375	244	439	683
1 year.....	61	213	274	71	187	258	132	400	532

DEATHS, ALL CAUSES.

All non-Irish races:									
Fall River.....	56	77	133	72	67	139	128	144	272
3 cities.....	135	197	332	179	217	396	314	414	728
1 year.....	85	196	281	100	184	284	185	380	565
Irish:									
Fall River.....	16	48	64	23	26	49	39	74	113
3 cities.....	44	111	155	74	80	154	118	191	309
1 year.....	21	106	127	44	77	121	65	183	248
American:									
Fall River.....	9	15	24	6	19	25	15	34	49
3 cities.....	15	37	52	15	51	66	30	88	118
1 year.....	14	57	71	9	52	61	23	109	132
English:									
Fall River.....	9	19	28	19	13	32	28	32	60
3 cities.....	34	54	88	43	47	90	77	101	178
1 year.....	15	46	61	29	33	62	44	79	123
French Canadian:									
Fall River.....	26	27	53	35	22	57	61	49	110
3 cities.....	58	63	121	89	80	169	147	143	290
1 year.....	36	62	98	49	77	126	85	139	224
Other races:									
Fall River.....	12	16	28	12	13	25	24	29	53
3 cities.....	28	43	71	32	39	71	60	82	142
1 year.....	20	31	51	13	22	35	33	53	86
Total, all races:									
Fall River.....	72	125	197	95	93	188	167	218	385
3 cities.....	179	308	487	253	297	550	432	605	1,037
1 year.....	106	302	408	144	261	405	250	563	813

AGES 15 TO 44 YEARS.

PER 1,000 POPULATION 15 TO 44 YEARS OF AGE FROM TUBERCULOUS ATIVES OF SPECIFIED RACES, BY SEX, FALL RIVER AND 3 CITIES

DEATHS, NONTUBERCULOUS.

Death rate per 1,000 population 15 to 44 years of age.								
Males.			Females.			Both sexes.		
Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
3.49	4.32	3.98	4.51	3.12	3.62	3.99	3.67	3.80
2.74	3.63	3.27	4.17	3.62	3.82	3.44	3.63	3.56
3.89	4.83	4.59	3.67	3.97	3.88	3.77	4.40	4.22
5.31	10.62	8.69	4.97	4.61	4.76	5.10	7.30	6.42
5.31	8.47	7.32	5.38	6.25	5.88	5.36	7.24	6.49
5.33	9.22	8.32	5.20	6.17	5.86	5.25	7.56	6.90
8.36	2.84	3.52	4.10	3.40	3.50	6.02	3.14	3.51
5.02	1.89	2.28	4.55	3.05	3.25	4.76	2.50	2.79
8.68	3.64	4.08	3.43	3.20	3.22	6.04	3.41	3.62
1.34	4.08	2.70	3.46	2.40	2.86	2.38	3.14	2.78
2.01	4.42	3.21	3.34	3.28	3.31	2.66	3.78	3.26
2.24	5.04	4.03	3.94	3.57	3.70	3.15	4.26	3.86
4.57	5.47	5.03	5.43	3.39	4.29	5.00	4.33	4.64
3.05	4.37	3.72	4.76	4.59	4.67	3.90	4.50	4.22
4.55	5.28	5.02	3.87	5.63	4.93	4.17	5.46	4.97
3.34	5.47	4.56	4.61	3.21	3.74	3.93	4.32	4.16
2.60	4.63	3.76	4.17	3.48	3.75	3.32	4.04	3.75
3.03	8.14	5.55	2.82	3.42	3.18	2.94	5.58	4.38
3.75	5.37	4.73	4.61	3.38	3.84	4.20	4.29	4.26
3.11	4.44	3.91	4.43	4.08	4.21	3.80	4.25	4.07
4.09	5.68	5.22	4.00	4.40	4.28	4.05	5.00	4.72

DEATHS, ALL CAUSES.

6.30	5.83	6.02	8.33	4.36	5.79	7.30	5.04	5.90
5.07	4.97	5.01	6.91	4.71	5.50	5.97	4.83	5.26
6.61	6.38	6.45	7.19	5.37	5.90	6.91	5.85	6.16
10.62	18.20	15.44	9.52	7.99	8.64	9.95	12.56	11.51
9.74	14.03	12.47	10.21	8.19	9.05	10.03	10.80	10.50
10.17	15.62	14.28	11.44	9.32	9.99	11.00	12.13	11.81
15.05	3.55	4.97	8.20	4.04	4.60	11.28	3.81	4.78
8.36	2.92	3.59	6.83	3.62	4.05	7.52	3.29	3.83
12.15	4.72	5.37	7.71	3.78	4.09	9.92	4.22	4.69
3.01	6.46	4.72	6.57	3.46	4.81	4.76	4.78	4.77
3.79	6.12	4.95	4.95	4.17	4.51	4.36	5.03	4.72
4.20	7.25	6.15	7.14	4.53	5.47	5.77	5.80	5.79
7.42	7.38	7.40	10.01	4.97	7.19	8.71	6.06	7.29
5.52	5.74	5.63	8.48	6.02	7.11	7.00	5.90	6.41
7.44	6.82	7.03	7.90	8.18	8.07	7.70	7.51	7.58
6.69	6.73	6.72	7.90	5.22	6.24	7.25	5.96	6.48
5.21	6.03	5.68	7.03	5.22	5.91	6.04	5.62	5.79
6.06	9.71	7.86	5.23	5.79	5.56	5.70	7.58	6.73
6.93	7.89	7.51	8.59	4.99	6.33	7.79	6.32	6.89
5.74	6.48	6.19	7.63	5.31	6.18	6.72	5.85	6.18
7.10	8.05	7.78	8.11	6.14	6.72	7.65	7.03	7.21

AGES 15 TO 44 YEARS.

TABLE 19.—SEX PERCENTAGE DISTRIBUTION OF OPERATIVES AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, OTHER, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, POPULATION.

Race and locality.	Per cent of each sex in specified class.								
	Operatives.			Nonoperatives.			Both classes.		
	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).
	Males.	Fe- males.		Males.	Fe- males.		Males.	Fe- males.	
All non-Irish races:									
Fall River.....	51	49	17,523	46	54	28,574	48	52	46,097
3 cities.....	48	52	26,775	47	53	64,949	47	53	91,724
Irish:									
Fall River.....	38	62	3,921	45	55	5,893	42	58	9,814
3 cities.....	35	65	5,911	45	55	15,090	42	58	21,001
American:									
Fall River.....	45	55	1,330	47	53	8,927	47	53	10,257
3 cities.....	50	50	2,319	47	53	25,820	47	53	28,139
English:									
Fall River.....	51	49	5,881	44	56	6,697	47	53	12,578
3 cities.....	47	53	7,631	47	53	13,623	47	53	21,254

DEATHS, TUBERCULOUS.

Race, locality, and period.	Per cent of each sex in specified class.								
	Operatives.			Nonoperatives.			Both classes.		
	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).
	Males.	Fe- males.		Males.	Fe- males.		Males.	Fe- males.	
All non-Irish races:									
Fall River.....	43	57	58	51	49	39	46	54	97
3 cities.....	42	58	84	49	51	94	46	54	178
Irish:									
Fall River.....	42	58	19	65	35	31	56	44	50
3 cities.....	36	64	55	70	30	63	54	46	118
American:									
Fall River.....	29	71	34	62	38	69	51	49	103
3 cities.....	30	70	89	67	33	166	55	45	255
English:									
Fall River.....	57	43	7	50	50	6	54	46	13
3 cities.....	55	45	11	62	38	21	59	41	32
French Canadian:									
Fall River.....	44	56	9	62	38	21	57	43	30
3 cities.....	40	60	20	59	41	71	55	45	91
Other races:									
Fall River.....	36	64	14	64	36	11	48	52	25
3 cities.....	53	47	30	60	40	25	56	44	55
Total, all races:									
Fall River.....	35	65	20	67	33	21	51	49	41
3 cities.....	47	53	43	61	39	49	54	46	92
Other races:									
Fall River.....	38	62	26	50	50	14	43	57	40
3 cities.....	40	60	65	44	56	34	41	59	99
Other races:									
Fall River.....	36	64	39	37	63	38	36	64	77
3 cities.....	34	66	99	39	61	100	37	63	199
Other races:									
Fall River.....	55	45	11	38	62	8	47	53	19
3 cities.....	52	48	27	43	57	23	48	52	50
3 cities.....	63	37	16	36	64	14	50	50	30
3 cities.....	57	43	37	51	49	39	54	46	76
Total, all races:									
Fall River.....	43	57	77	57	43	70	50	50	147
3 cities.....	44	56	188	58	42	166	51	49	354
3 cities.....	38	62	118	55	45	163	48	52	281
3 cities.....	38	62	288	57	43	425	50	50	713

AGES 15 TO 44 YEARS.

OF NONOPERATIVES IN EACH RACE GROUP, FOR POPULATION AND AND PER CENT OF EXCESS IN DEATH RATE OF ONE SEX OVER THE AND PAWTUCKET).

POPULATION.

Race and locality.	Per cent of each sex in specified class.								
	Operatives.			Nonoperatives.			Both classes.		
	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).
	Males.	Fe- males.		Males.	Fe- males.		Males.	Fe- males.	
French Canadian:									
Fall River.....	50	50	7,001	45	55	8,085	47	53	15,086
3 cities.....	44	56	11,038	49	51	18,511	47	53	29,549
Other races:									
Fall River.....	54	46	3,311	49	51	4,865	51	49	8,176
3 cities.....	57	43	5,787	46	54	6,995	51	49	12,782
Total, all races:									
Fall River.....	48	52	21,444	46	54	34,467	47	53	55,911
3 cities.....	46	54	32,686	47	53	80,039	47	53	112,725

DEATHS, TUBERCULOUS.

Per cent of excess in death rate in specified class of specified sex over the other sex and death rate of both sexes per 1,000 population 15 to 44 years of age.

Operatives.			Nonoperatives.			Both classes.		
Per cent.		Death rate, both sexes.	Per cent.		Death rate, both sexes.	Per cent.		Death rate, both sexes.
Males.	Females.		Males.	Females.		Males.	Females.	
	36	3.31		22	1.37		6	2.10
	18	2.53		23	1.20		4	1.70
	29	3.14		7	1.45		9	1.94
	29	2.48		14	1.33		3	1.66
	17	4.85		124	5.26		74	5.09
	9	4.67		187	3.56		62	4.01
	29	5.75		100	4.57		44	4.91
	23	5.02		151	3.67		63	4.05
	63	5.26		11	.67		27	1.27
	47	2.76		81	.79		64	1.04
	23	3.88		86	.81		48	1.07
	48	2.87		66	.92		37	1.08
	86	2.38		125	1.64		4	1.99
	11	1.70		91	1.25		45	1.46
	63	2.62		130	1.54		20	1.93
	2	1.88		82	1.20		37	1.44
	61	3.71		21	1.73		22	2.65
	51	3.10		5	1.40		28	2.19
	39	3.53		66	2.05		56	2.61
	49	2.99		51	1.80		54	2.24
	2	3.32		60	1.64		16	2.32
	10	2.72		24	1.58		13	2.04
	26	2.76		51	2.00		3	2.35
	1	2.13		25	1.86		14	1.98
	25	3.59		57	2.03		12	2.63
	22	2.92		66	1.60		16	2.11
	37	3.61		36	2.03		5	2.49
	36	2.94		51	1.77		13	2.11

AGES 15 TO 44 YEARS.

TABLE 19.—SEX PERCENTAGE DISTRIBUTION OF OPERATIVES AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, OTHER, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Per cent of each sex in specified class.								
	Operatives.			Nonoperatives.			Both classes.		
	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).	Per cent.		Both sexes (100 per cent).
	Males.	Fe-males.		Males.	Fe-males.		Males.	Fe-males.	
All non-Irish races:									
Fall River.....1 year...	44	56	70	54	46	105	50	50	175
.....3 years...	40	60	181	46	54	311	44	56	492
3 cities.....1 year...	50	50	101	52	48	286	52	48	387
Irish:									
Fall River.....1 year...	40	60	20	65	35	43	57	43	63
.....3 years...	38	62	63	52	48	128	48	52	191
3 cities.....1 year...	36	64	31	55	45	114	51	49	145
American:									
Fall River.....1 year...	63	37	8	43	57	28	47	53	36
.....3 years...	47	53	19	36	64	67	38	62	86
3 cities.....1 year...	71	29	14	50	50	88	53	47	102
English:									
Fall River.....1 year...	29	71	14	57	43	21	46	54	35
.....3 years...	38	62	47	51	49	76	46	54	123
3 cities.....1 year...	33	67	24	55	45	58	49	51	82
French Canadian:									
Fall River.....1 year...	46	54	35	57	43	35	51	49	70
.....3 years...	39	61	82	44	56	109	42	58	191
3 cities.....1 year...	48	52	46	48	52	101	48	52	147
Other races:									
Fall River.....1 year...	46	54	13	62	38	21	56	44	34
.....3 years...	42	58	33	56	44	59	51	49	92
3 cities.....1 year...	59	41	17	67	33	39	64	36	56
Total, all races:									
Fall River.....1 year...	43	57	90	57	43	148	52	48	238
.....3 years...	40	60	244	48	52	439	45	55	683
3 cities.....1 year...	46	54	132	53	47	400	52	48	532

DEATHS, ALL CAUSES.

All non-Irish races:									
Fall River.....1 year...	44	56	128	53	47	144	49	51	272
.....3 years...	43	57	314	48	52	414	46	54	728
3 cities.....1 year...	46	54	185	52	48	380	50	50	565
Irish:									
Fall River.....1 year...	41	59	39	65	35	74	57	43	113
.....3 years...	37	63	118	58	42	191	50	50	309
3 cities.....1 year...	32	68	65	58	42	183	51	49	248
American:									
Fall River.....1 year...	60	40	15	44	56	34	49	51	49
.....3 years...	50	50	30	42	58	88	44	56	118
3 cities.....1 year...	61	39	23	52	48	109	54	46	132
English:									
Fall River.....1 year...	32	68	28	59	41	32	47	53	60
.....3 years...	44	56	77	53	47	101	49	51	178
3 cities.....1 year...	34	66	44	58	42	79	50	50	123
French Canadian:									
Fall River.....1 year...	43	57	61	55	45	49	48	52	110
.....3 years...	39	61	147	44	56	143	42	58	29
3 cities.....1 year...	42	58	85	45	55	139	44	56	224
Other races:									
Fall River.....1 year...	50	50	24	55	45	29	53	47	53
.....3 years...	47	53	60	52	48	82	50	50	142
3 cities.....1 year...	61	39	33	59	41	53	59	41	86
Total, all races:									
Fall River.....1 year...	43	57	167	57	43	218	51	49	385
.....3 years...	41	59	432	51	49	605	47	53	1,037
3 cities.....1 year...	42	58	250	54	46	563	50	50	813

AGES 15 TO 44 YEARS.

OF NONOPERATIVES IN EACH RACE GROUP, FOR POPULATION AND AND PER CENT OF EXCESS IN DEATH RATE OF ONE SEX OVER THE AND PAWTUCKET)—Concluded.

DEATHS, NONTUBERCULOUS.

Per cent of excess in death rate in specified class of specified sex over the other sex and death rate of both sexes per 1,000 population 15 to 44 years of age.

Operatives.			Nonoperatives.			Both classes.		
Per cent.		Death rate, both sexes.	Per cent.		Death rate, both sexes.	Per cent.		Death rate, both sexes.
Males.	Females.		Males.	Females.		Males.	Females.	
	29	3.99	38		3.67	10		3.80
	52	3.44	(a)		3.63		17	3.56
6		3.77	23		4.40	16		4.22
7		5.10	130		7.30	83		6.42
	1	5.36	36		7.24	24		6.49
3		5.25	49		7.56	42		6.90
104		6.02		20	3.14	1		3.51
10		4.76		61	2.50		43	2.79
153		6.04	14		3.41	27		3.62
	158	2.38	66		3.14		6	2.78
	66	2.66	35		3.78		3	3.26
	76	3.15	41		4.26	9		3.86
	19	5.00	61		4.33	17		4.64
	56	3.90		5	4.50		26	4.22
18		4.17		7	5.46	2		4.97
	38	3.93	70		4.32		22	4.16
	60	3.32	33		4.04	(a)		3.75
7		2.94	138		5.53	75		4.38
	23	4.20	59		4.29	23		4.26
	42	3.80	9		4.25		8	4.07
2		4.05	29		5.00	22		4.72

DEATHS, ALL CAUSES.

	32	7.30	34		5.04	4		5.90
	36	5.97	6		4.83		10	5.26
	9	6.91	19		5.85	9		6.16
12		9.95	128		12.56	79		11.51
	5	10.03	71		10.80	38		10.60
	13	11.00	67		12.13	43		11.81
84		11.28		14	3.81	8		4.78
22		7.52		24	3.29		13	3.83
58		9.92	26		4.22	31		4.69
	118	4.76	87		4.78		2	4.77
	31	4.36	47		5.03	10		4.72
	70	5.77	60		5.80	12		5.79
	35	8.71	48		6.06	3		7.29
	54	7.00		5	5.90		26	6.41
	6	7.70		20	7.51		15	7.58
	18	7.25	29		5.96	8		6.48
	35	6.04	16		5.62		4	5.79
16		5.70	68		7.58	46		6.73
	24	7.79	58		6.32		19	6.89
	33	6.72	22		5.85	(a)		6.18
	14	7.65	31		7.03	16		7.21

AGES 15 TO 44 YEARS.

TABLE 20.—PER CENT OF MALES AND FEMALES OF EACH RACE IN TOTAL FOR EACH OCCUPATION GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-TUCKET).

POPULATION.

Race, locality, and period.	Operatives.			Nonoperatives.			Both classes.		
	Males.	Fe- males.	Both sexes.	Males.	Fe- males.	Both sexes.	Males.	Fe- males.	Both sexes.
All non-Irish races:									
Fall River.....	42	40	82	38	45	83	39	43	82
3 cities.....	39	43	82	38	43	81	39	42	81
Irish:									
Fall River.....	7	11	18	8	9	17	8	10	18
3 cities.....	6	12	18	9	10	19	8	11	19
American:									
Fall River.....	3	4	7	12	14	26	8	10	18
3 cities.....	4	3	7	15	17	32	12	13	25
English:									
Fall River.....	14	13	27	9	11	20	10	12	22
3 cities.....	11	12	23	8	9	17	9	10	19
French Canadian:									
Fall River.....	17	16	33	10	13	23	13	14	27
3 cities.....	15	19	34	11	12	23	12	14	26
Other races:									
Fall River.....	8	7	15	7	7	14	8	7	15
3 cities.....	10	8	18	4	5	9	6	5	11
Total, all races:									
Fall River.....	49	51	^a 21,444	46	54	^a 34,467	47	53	^a 55,911
3 cities.....	46	54	^a 32,686	47	53	^a 80,039	47	53	^a 112,725

DEATHS, TUBERCULOUS.

All non-Irish races:									
Fall River.....	{ 1 year... 32	43	75	29	27	56	31	35	66
3 cities.....	{ 1 year... 33	38	71	32	30	62	33	34	67
	{ 3 years... 30	42	72	29	29	58	29	34	65
	{ 3 years... 29	40	69	31	30	61	30	34	64
Irish:									
Fall River.....	{ 1 year... 11	14	25	28	16	44	19	16	34
3 cities.....	{ 1 year... 11	18	29	26	12	38	18	15	33
	{ 3 years... 8	21	29	26	16	42	19	18	37
	{ 3 years... 9	22	31	26	13	39	20	16	36
American:									
Fall River.....	{ 1 year... 5	4	9	5	4	9	5	4	9
3 cities.....	{ 1 year... 3	3	6	8	5	13	5	4	9
	{ 3 years... 4	4	8	8	5	13	6	5	11
	{ 3 years... 3	4	7	10	7	17	7	6	13
English:									
Fall River.....	{ 1 year... 6	12	18	10	6	16	8	9	17
3 cities.....	{ 1 year... 9	7	16	9	6	15	9	7	16
	{ 3 years... 6	11	17	9	4	13	7	7	14
	{ 3 years... 7	8	15	7	4	11	7	6	13
French Canadian:									
Fall River.....	{ 1 year... 13	21	34	10	10	20	12	17	27
3 cities.....	{ 1 year... 14	21	35	9	11	20	12	16	28
	{ 3 years... 12	21	33	9	14	23	10	17	27
	{ 3 years... 12	22	34	9	14	23	11	17	28
Other races:									
Fall River.....	{ 1 year... 8	6	14	4	7	11	6	7	13
3 cities.....	{ 1 year... 7	7	14	6	8	14	7	7	14
	{ 3 years... 8	5	13	3	6	9	6	5	11
	{ 3 years... 7	6	13	5	5	10	5	5	10
Total, all races:									
Fall River.....	{ 1 year... 43	57	^a 77	57	43	^a 70	50	50	^a 147
3 cities.....	{ 1 year... 44	56	^a 188	58	42	^a 166	51	49	^a 354
	{ 3 years... 38	62	^a 118	55	45	^a 163	48	52	^a 281
	{ 3 years... 38	62	^a 288	57	43	^a 425	50	50	^a 713

^a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 20.—PER CENT OF MALES AND FEMALES OF EACH RACE IN TOTAL FOR EACH OCCUPATION GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-TUCKET)—Concluded.

DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Operatives.			Nonoperatives.			Both classes.		
	Males.	Fe- males.	Both sexes.	Males.	Fe- males.	Both sexes.	Males.	Fe- males.	Both sexes.
All non-Irish races:									
Fall River.....	34	44	78	39	32	71	37	37	74
3 cities.....	30	44	74	33	38	71	32	40	72
1 year.....	38	39	77	38	34	72	38	35	73
Irish:									
Fall River.....	9	13	22	19	10	29	15	11	26
3 cities.....	10	16	26	15	14	29	13	15	28
1 year.....	8	15	23	15	13	28	14	13	27
American:									
Fall River.....	5	4	9	8	11	19	7	8	15
3 cities.....	4	4	8	5	10	15	5	8	13
1 year.....	8	3	11	11	11	22	10	9	19
English:									
Fall River.....	4	11	15	8	6	14	7	8	15
3 cities.....	7	12	19	9	8	17	8	10	18
1 year.....	6	12	18	8	7	15	8	7	15
French Canadian:									
Fall River.....	18	21	39	14	10	24	16	14	30
3 cities.....	13	20	33	11	14	25	12	16	28
1 year.....	17	18	35	12	13	25	13	15	28
Other races:									
Fall River.....	7	8	15	9	5	14	7	7	14
3 cities.....	6	8	14	8	6	14	7	6	13
1 year.....	7	6	13	7	3	10	7	4	11
Total, all races:									
Fall River.....	43	57	a 90	58	42	a 148	52	48	a 238
3 cities.....	40	60	a 244	48	52	a 439	45	55	a 683
1 year.....	46	54	a 132	53	47	a 400	52	48	a 532

DEATHS, ALL CAUSES.

All non-Irish races:									
Fall River.....	34	43	77	35	31	66	35	36	71
3 cities.....	31	42	73	33	36	69	32	38	70
1 year.....	34	40	74	35	32	67	34	35	69
Irish:									
Fall River.....	9	14	23	22	12	34	16	13	29
3 cities.....	10	17	27	18	13	31	15	15	30
1 year.....	8	18	26	19	14	33	16	15	31
American:									
Fall River.....	5	4	9	7	9	16	7	6	13
3 cities.....	3	4	7	6	9	15	5	6	11
1 year.....	6	3	9	10	9	19	9	7	16
English:									
Fall River.....	6	11	17	9	6	15	7	8	15
3 cities.....	8	10	18	9	8	17	8	9	17
1 year.....	6	12	18	8	6	14	7	8	15
French Canadian:									
Fall River.....	16	21	37	12	10	22	14	15	29
3 cities.....	13	21	34	11	13	24	12	16	28
1 year.....	19	20	39	11	14	25	12	15	27
Other races:									
Fall River.....	7	7	14	7	6	13	7	7	14
3 cities.....	7	7	14	7	6	13	7	7	14
1 year.....	8	5	13	6	3	9	6	5	11
Total, all races:									
Fall River.....	43	57	a 167	57	43	a 218	51	49	a 385
3 cities.....	41	59	a 432	51	49	a 605	47	53	a 1,037
1 year.....	42	58	a 250	54	46	a 563	50	50	a 813

a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 21.—RACE PERCENTAGE DISTRIBUTION OF MALES AND OF FEMALES IN EACH OCCUPATION GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-TUCKET).

POPULATION.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....	86	83	84	78	83	81	82	83	82
3 cities.....	86	82	83	78	81	80	82	81	81
Irish:									
Fall River.....	14	17	16	22	18	19	18	17	18
3 cities.....	14	18	17	22	20	20	18	19	19
American:									
Fall River.....	6	27	18	6	25	18	7	26	18
3 cities.....	8	32	25	6	32	25	7	32	25
English:									
Fall River.....	29	18	23	26	20	22	27	20	22
3 cities.....	24	17	19	23	17	19	23	17	19
French Canadian:									
Fall River.....	34	23	27	32	24	27	33	23	27
3 cities.....	32	24	27	35	22	26	34	23	26
Other races:									
Fall River.....	17	15	16	14	13	14	15	14	15
3 cities.....	22	9	12	14	9	10	18	9	11
Total all races:									
Fall River.....	a10,388	a15,840	a26,228	a11,056	a18,627	a29,683	a21,444	a34,467	a55,911
3 cities.....	a14,922	a37,531	a52,453	a17,764	a42,508	a60,272	a32,686	a80,039	a112,725

DEATHS, TUBERCULOUS.

All non-Irish races:										
Fall River.....	} 1 year... } 3 years...	76	50	62	75	63	70	75	56	66
3 cities.....		78	55	64	67	72	69	71	62	67
Fall River.....	} 1 year... } 3 years...	76	52	60	67	65	66	72	58	63
3 cities.....		75	54	61	65	70	68	69	61	64
Irish:										
Fall River.....	} 1 year... } 3 years...	24	50	38	25	37	30	25	44	34
3 cities.....		24	45	36	33	28	31	29	38	33
Fall River.....	} 1 year... } 3 years...	22	48	40	33	35	34	29	42	37
3 cities.....		25	46	39	35	30	32	31	39	36
American:										
Fall River.....	} 1 year... } 3 years...	12	7	10	7	10	8	9	9	9
3 cities.....		7	13	10	5	11	7	6	13	9
Fall River.....	} 1 year... } 3 years...	9	14	13	7	11	9	8	13	11
3 cities.....		7	17	14	7	16	11	7	17	13
English:										
Fall River.....	} 1 year... } 3 years...	15	18	17	21	13	17	18	16	17
3 cities.....		20	16	17	13	14	14	16	15	16
Fall River.....	} 1 year... } 3 years...	16	16	15	18	10	14	17	13	14
3 cities.....		18	13	14	13	10	12	15	11	13
French Canadian:										
Fall River.....	} 1 year... } 3 years...	31	18	23	36	23	31	34	20	27
3 cities.....		32	16	23	37	28	33	35	20	28
Fall River.....	} 1 year... } 3 years...	31	16	21	34	32	33	33	23	27
3 cities.....		31	16	21	36	34	35	34	23	28
Other races:										
Fall River.....	} 1 year... } 3 years...	18	7	12	11	17	14	14	11	13
3 cities.....		17	10	14	12	19	15	14	14	14
Fall River.....	} 1 year... } 3 years...	22	6	11	8	12	10	13	9	11
3 cities.....		19	8	12	9	10	10	13	10	10
Total, all races:										
Fall River.....	} 1 year... } 3 years...	a33	a40	a73	a44	a30	a74	a77	a70	a147
3 cities.....		a82	a97	a179	a106	a69	a175	a188	a166	a354
Fall River.....	} 1 year... } 3 years...	a45	a89	a134	a73	a74	a147	a118	a163	a281
3 cities.....		a110	a243	a353	a178	a182	a360	a288	a425	a713

a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 21.—RACE PERCENTAGE DISTRIBUTION OF MALES AND OF FEMALES IN EACH OCCUPATION GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET)—Concluded.

DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....	79	67	71	77	76	76	78	71	74
3 cities.....	75	68	70	74	73	74	74	71	72
1 year.....	82	70	73	72	73	72	77	72	73
Irish:									
Fall River.....	21	33	29	23	24	24	22	29	26
3 cities.....	25	32	30	26	27	26	26	29	28
1 year.....	18	30	27	28	27	28	23	28	27
American:									
Fall River.....	13	14	14	6	25	17	9	19	15
3 cities.....	9	11	11	7	19	15	8	15	13
1 year.....	16	21	20	6	24	19	11	22	19
English:									
Fall River.....	10	14	13	20	14	16	15	14	15
3 cities.....	19	18	18	20	16	18	19	17	18
1 year.....	14	15	15	22	14	16	18	15	15
French Canadian:									
Fall River.....	41	24	29	37	24	30	39	24	30
3 cities.....	33	23	26	34	27	29	33	25	28
1 year.....	36	22	25	34	28	30	35	25	28
Other races:									
Fall River.....	15	15	15	14	13	13	15	14	14
3 cities.....	14	16	15	13	11	12	14	14	13
1 year.....	16	12	13	10	7	7	13	10	11
Total, all races:									
Fall River.....	a 39	a 85	a 124	a 51	a 63	a 114	a 90	a 148	a 238
3 cities.....	a 97	a 211	a 308	a 147	a 228	a 375	a 244	a 439	a 683
1 year.....	a 61	a 213	a 274	a 71	a 187	a 258	a 132	a 400	a 532

DEATHS, ALL CAUSES.

All non-Irish races:									
Fall River.....	78	62	68	76	72	74	77	66	71
3 cities.....	75	64	68	71	73	72	73	69	70
1 year.....	80	65	69	69	70	70	74	67	69
Irish:									
Fall River.....	22	38	32	24	28	26	23	34	29
3 cities.....	25	36	32	29	27	28	27	31	30
1 year.....	20	35	31	31	30	30	26	33	31
American:									
Fall River.....	13	12	12	6	20	13	9	16	13
3 cities.....	8	12	11	6	17	12	7	15	11
1 year.....	13	19	17	6	20	15	9	19	16
English:									
Fall River.....	13	15	15	20	14	17	17	15	15
3 cities.....	19	18	18	17	16	16	18	17	17
1 year.....	14	15	15	20	12	15	18	14	15
French Canadian:									
Fall River.....	36	22	27	37	24	31	37	22	29
3 cities.....	32	20	25	35	27	31	34	24	28
1 year.....	34	21	24	34	30	31	39	25	27
Other races:									
Fall River.....	16	13	14	13	14	13	14	13	14
3 cities.....	16	14	14	13	13	13	14	13	14
1 year.....	19	10	13	9	8	9	13	9	11
Total, all races:									
Fall River.....	a 72	a 120	a 197	a 95	a 93	a 188	a 167	a 218	a 385
3 cities.....	a 179	a 308	a 487	a 253	a 297	a 550	a 432	a 605	a 1,037
1 year.....	a 106	a 302	a 408	a 144	a 261	a 405	a 250	a 563	a 813

a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 22.—PER CENT OF OPERATIVES AND NONOPERATIVES AMONG AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS PATION CLASS OVER THE OTHER, FALL RIVER AND 3 CITIES

POPULATION.

Race and locality.	Per cent of each class in specified sex.								
	Males.			Females.			Both sexes.		
	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).
	Opera-tives.	Non-opera-tives.		Opera-tives.	Non-opera-tives.		Opera-tives.	Non-opera-tives.	
All non-Irish races:									
Fall River.....	40	60	22,084	36	64	24,013	38	62	46,097
3 cities.....	30	70	43,561	29	71	48,163	29	71	91,724
Irish:									
Fall River.....	36	64	4,144	43	57	5,670	40	60	9,814
3 cities.....	23	77	8,892	32	68	12,109	28	72	21,001
American:									
Fall River.....	12	88	4,826	13	87	5,431	13	87	10,257
3 cities.....	9	91	13,220	8	92	14,919	8	92	28,139
English:									
Fall River.....	50	50	5,928	44	56	6,650	47	53	12,578
3 cities.....	36	64	9,917	36	64	11,337	36	64	21,254

DEATHS, TUBERCULOUS.

Race, locality, and period.	Per cent of each class in specified sex.								
	Males.			Females.			Both sexes.		
	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).
	Opera-tives.	Non-opera-tives.		Opera-tives.	Non-opera-tives.		Opera-tives.	Non-opera-tives.	
All non-Irish races:									
Fall River...../1 year...	56	44	45	63	37	52	60	40	97
/3 years...	54	46	115	59	41	121	56	44	236
3 cities...../1 year...	43	57	81	51	49	97	47	53	178
/3 years...	39	61	214	48	52	244	43	57	458
Irish:									
Fall River...../1 year...	29	71	28	50	50	22	38	62	50
/3 years...	31	69	64	65	55	54	47	53	118
3 cities...../1 year...	19	81	53	48	52	50	33	67	103
/3 years...	19	81	139	53	47	116	35	65	255
American:									
Fall River...../1 year...	57	43	7	50	50	6	54	46	13
/3 years...	32	68	19	38	62	13	34	66	32
3 cities...../1 year...	24	76	17	38	62	13	30	70	30
/3 years...	16	84	50	29	71	41	22	78	91
English:									
Fall River...../1 year...	42	58	12	69	31	13	56	44	25
/3 years...	52	48	31	58	42	24	55	45	55
3 cities...../1 year...	33	67	21	65	35	20	49	51	41
/3 years...	40	60	50	55	45	42	47	53	92
French Canadian:									
Fall River...../1 year...	59	41	17	70	30	23	65	35	40
/3 years...	63	37	41	67	33	58	66	34	99
3 cities...../1 year...	50	50	28	51	49	49	51	49	77
/3 years...	47	53	73	52	48	126	50	50	199
Other races:									
Fall River...../1 year...	67	33	9	50	50	10	58	42	19
/3 years...	58	42	24	50	50	26	54	46	50
3 cities...../1 year...	67	33	15	33	67	15	53	47	30
/3 years...	51	49	41	46	54	35	49	51	76
Total, all races:									
Fall River...../1 year...	45	55	73	59	41	74	53	47	147
/3 years...	46	54	179	61	39	175	53	47	354
3 cities...../1 year...	34	66	134	50	50	147	42	58	281
/3 years...	45	55	353	49	51	360	40	60	713

AGES 15 TO 44 YEARS.

MALES AND AMONG FEMALES IN EACH RACE GROUP, FOR POPULATION CAUSES, WITH PER CENT OF EXCESS IN DEATH RATE OF ONE OCCU- (FALL RIVER, MANCHESTER, AND PAWTUCKET).

POPULATION.

Race and locality.	Per cent of each class in specified sex								
	Males.			Females.			Both sexes.		
	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).
	Opera- tives.	Non- opera- tives.		Opera- tives.	Non- opera- tives.		Opera- tives.	Non- opera- tives.	
French Canadian:									
Fall River.....	49	51	7,161	44	56	7,925	46	54	15,086
3 cities.....	35	65	13,932	40	60	15,617	37	63	29,549
Other races:									
Fall River.....	43	57	4,169	38	62	4,007	40	60	8,176
3 cities.....	51	49	6,492	40	60	6,290	45	55	12,782
Total, all races:									
Fall River.....	40	60	26,228	37	63	29,683	38	62	55,911
3 cities.....	28	72	52,453	29	71	60,272	29	71	112,725

DEATHS, TUBERCULOUS.

Per cent of excess in death rate in specified sex of specified class over the other class, and death rate of both classes per 1,000 population 15 to 44 years of age.

Males.			Females.			Both sexes.		
Per cent.		Death rate, both classes.	Per cent.		Death rate, both classes.	Per cent.		Death rate, both classes.
Opera- tives.	Nonopera- tives.		Opera- tives.	Nonopera- tives.		Opera- tives.	Nonopera- tives.	
86	.....	2.04	208	.....	2.17	142	.....	2.10
74	.....	1.74	151	.....	1.68	111	.....	1.70
81	.....	1.86	151	.....	2.02	117	.....	1.94
51	.....	1.64	122	.....	1.69	86	.....	1.66
.....	43	6.75	35	.....	3.88	.....	8	5.09
.....	26	5.15	149	.....	3.17	31	.....	4.01
.....	30	5.96	98	.....	4.13	26	.....	4.91
.....	25	5.21	146	.....	3.19	37	.....	4.05
842	.....	1.45	541	.....	1.10	685	.....	1.27
224	.....	1.31	300	.....	.80	249	.....	1.04
221	.....	1.29	638	.....	.87	379	.....	1.07
100	.....	1.26	390	.....	.92	212	.....	1.08
.....	43	2.02	193	.....	1.95	45	.....	1.99
5	.....	1.74	81	.....	1.20	36	.....	1.46
.....	13	2.12	233	.....	1.77	70	.....	1.93
18	.....	1.68	117	.....	1.23	57	.....	1.44
49	.....	2.37	190	.....	2.90	114	.....	2.65
80	.....	1.91	160	.....	2.44	121	.....	2.19
88	.....	2.01	58	.....	3.14	72	.....	2.61
64	.....	1.75	62	.....	2.69	66	.....	2.24
166	.....	2.16	64	.....	2.50	102	.....	2.32
86	.....	1.92	64	.....	2.16	72	.....	2.04
93	.....	2.31	2	.....	2.38	38	.....	2.35
1	.....	2.11	29	.....	1.85	15	.....	1.98
26	.....	2.78	147	.....	2.49	77	.....	2.63
29	.....	2.28	160	.....	1.97	83	.....	2.11
27	.....	2.56	136	.....	2.44	78	.....	2.49
14	.....	2.24	134	.....	1.99	66	.....	2.11

AGES 15 TO 44 YEARS.

TABLE 22.—PER CENT OF OPERATIVES AND NONOPERATIVES AMONG AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS PATION CLASS OVER THE OTHER, FALL RIVER AND 3 CITIES DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Per cent of each class in specified sex.									
	Males.			Females.			Both sexes.			
	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).	Per cent.		Both classes (100 per cent).	
	Operatives.	Non-operatives.		Operatives.	Non-operatives.		Operatives.	Non-operatives.		
All non-Irish races:										
Fall River.....	1 year...	35	65	88	45	55	87	40	60	175
	3 years..	34	66	217	39	61	275	37	63	492
3 cities.....	1 year...	25	75	200	27	73	187	26	74	387
Irish:										
Fall River.....	1 year...	22	78	36	44	56	27	32	68	63
	3 years..	26	74	91	39	61	100	33	67	191
3 cities.....	1 year...	15	85	74	28	72	71	21	79	145
American:										
Fall River.....	1 year...	29	71	17	16	84	19	22	78	36
	3 years..	27	73	33	19	81	53	22	78	86
3 cities.....	1 year...	19	81	54	8	92	48	14	86	102
English:										
Fall River.....	1 year...	25	75	16	53	47	19	40	60	35
	3 years..	32	68	57	44	56	66	38	62	123
3 cities.....	1 year...	20	80	40	38	62	42	29	71	82
French Canadian:										
Fall River.....	1 year...	44	56	36	56	44	34	50	50	70
	3 years..	40	60	80	45	55	111	43	57	191
3 cities.....	1 year...	31	69	70	31	69	77	31	69	147
Other races:										
Fall River.....	1 year...	32	68	19	47	53	15	38	62	34
	3 years..	30	70	47	42	58	45	36	64	92
3 cities.....	1 year...	28	72	36	35	65	20	30	70	56
Total, all races:										
Fall River.....	1 year...	31	69	124	45	55	114	38	62	238
	3 years..	31	69	308	39	61	375	36	64	683
3 cities.....	1 year...	22	78	274	28	72	258	25	75	532

DEATHS, ALL CAUSES.

All non-Irish races:										
Fall River.....	1 year...	42	58	133	52	48	139	47	53	272
	3 years..	41	59	332	45	55	396	43	57	728
3 cities.....	1 year...	30	70	281	35	65	284	33	67	565
Irish:										
Fall River.....	1 year...	25	75	64	47	53	49	35	65	113
	3 years..	28	72	155	48	52	154	38	62	309
3 cities.....	1 year...	17	83	127	36	64	121	26	74	248
American:										
Fall River.....	1 year...	37	63	24	24	76	25	31	69	49
	3 years..	29	71	52	23	77	66	25	75	118
3 cities.....	1 year...	20	80	71	15	85	61	17	83	132
English:										
Fall River.....	1 year...	32	68	28	59	41	32	46	54	60
	3 years..	39	61	88	48	52	90	43	57	178
3 cities.....	1 year...	25	75	61	47	53	62	36	64	123
French Canadian:										
Fall River.....	1 year...	49	51	53	61	39	57	55	45	110
	3 years..	48	52	121	53	47	169	51	49	290
3 cities.....	1 year...	37	63	98	39	61	126	38	62	224
Other races:										
Fall River.....	1 year...	43	57	28	48	52	25	45	55	53
	3 years..	39	61	71	45	55	71	42	58	142
3 cities.....	1 year...	39	61	51	37	63	35	38	62	86
Total, all races:										
Fall River.....	1 year...	37	63	197	51	49	188	43	57	385
	3 years..	37	63	487	46	54	550	42	58	1,037
3 cities.....	1 year...	26	74	408	36	64	405	31	69	813

• Less than one-half of 1 per cent.

AGES 15 TO 44 YEARS.

MALES AND AMONG FEMALES IN EACH RACE GROUP, FOR POPULATION CAUSES, WITH PER CENT OF EXCESS IN DEATH RATE OF ONE OCCU- (FALL RIVER, MANCHESTER, AND PAWTUCKET)—Concluded.

DEATHS, NONTUBERCULOUS.

Males.			Females.			Both sexes.		
Per cent.		Death rate, both classes.	Per cent.		Death rate, both classes.	Per cent.		Death rate, both classes.
Operatives.	Nonoperatives.		Operatives.	Nonoperatives.		Operatives.	Nonoperatives.	
	24	3.98	45		3.62	9		3.80
	32	3.27	15		3.82		6	3.55
	25	4.59		8	3.88		17	4.22
	100	8.69	8		4.76		43	6.42
	60	7.32		16	5.88		35	6.49
	73	8.32		19	5.86		44	6.90
194		3.52	21		3.50	92		3.51
166		2.28	49		3.25	90		2.79
138		4.08	7		3.22	77		3.62
	204	2.70	44		2.86		32	2.78
	120	3.21	2		3.31		42	3.26
	125	4.03	10		3.70		35	3.86
	18	5.03	60		4.29	15		4.64
	43	3.72	37		4.67		15	4.22
	16	5.02		45	4.93		31	4.97
	64	4.56	44		3.74		10	4.16
	78	3.76	20		3.75		22	3.75
	169	5.55		21	3.18		90	4.38
	43	4.73	36		3.84		2	4.26
	43	3.91	9		4.21		12	4.07
	39	5.22		10	4.28		24	4.72

DEATHS, ALL CAUSES.

8		6.02	91		5.79	45		5.90
2		5.01	47		5.50	24		5.26
4		6.45	34		5.90	18		6.16
	71	15.44	19		8.64		26	11.51
	44	12.47	25		9.05		8	10.50
	53	14.28	23		9.99		10	11.81
324		4.97	103		4.60	196		4.78
186		3.59	89		4.05	129		3.83
157		5.37	104		4.09	135		4.69
	115	4.72	90		4.81		(a)	4.78
	61	4.95	19		4.51		15	4.72
	73	6.15	58		5.47		1	5.79
1		7.40	101		7.19	44		7.29
	4	5.63	41		7.11	19		6.41
9		7.03		4	8.07	3		7.58
	1	6.72	51		6.24	22		6.48
	16	5.68	35		5.91	8		5.79
	60	7.86		11	5.56		33	6.73
	14	7.51	72		6.33	23		6.89
	13	6.19	44		6.18	15		6.18
	13	7.78	32		6.72	9		7.21

AGES 15 TO 44 YEARS.

TABLE 23.—PER CENT OF OPERATIVE AND NONOPERATIVE MALES AND FEMALES IN TOTAL FOR EACH RACE GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).

POPULATION.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes (100 per cent).
All non-Irish races:									
Fall River.....	19	29	48	19	33	52	38	62	46,097
3 cities.....	14	33	47	15	38	53	29	71	91,724
Irish:									
Fall River.....	15	27	42	25	33	58	40	60	9,814
3 cities.....	10	32	42	18	40	58	28	72	21,001
American:									
Fall River.....	6	41	47	7	46	53	13	87	10,257
3 cities.....	4	43	47	4	49	53	8	92	28,139
English:									
Fall River.....	24	23	47	23	30	53	47	53	12,578
3 cities.....	17	30	47	19	34	53	36	64	21,254
French Canadian:									
Fall River.....	23	24	47	23	30	53	46	54	15,086
3 cities.....	16	31	47	21	32	53	37	63	29,549
Other races:									
Fall River.....	22	29	51	19	30	49	41	59	8,176
3 cities.....	26	25	51	19	30	49	45	55	12,782
Total, all races:									
Fall River.....	19	28	47	19	34	53	38	62	55,911
3 cities.....	13	34	47	16	37	53	29	71	112,725

DEATHS, TUBERCULOUS.

All non-Irish races:											
Fall River.....	{	1 year...	26	29	46	34	20	54	60	40	97
3 cities.....		3 years..	26	23	49	30	21	51	56	44	236
Fall River.....	{	1 year...	20	26	46	27	27	54	47	53	178
3 cities.....		3 years..	18	29	47	25	28	53	43	57	458
Irish:											
Fall River.....	{	1 year...	16	40	56	22	22	44	38	62	50
3 cities.....		3 years..	17	37	54	30	16	46	47	53	118
Fall River.....	{	1 year...	9	42	51	24	25	49	33	67	103
3 cities.....		3 years..	11	44	55	24	21	45	35	65	255
American:											
Fall River.....	{	1 year...	31	23	54	23	23	46	54	46	13
3 cities.....		3 years..	19	41	60	15	25	40	34	66	32
Fall River.....	{	1 year...	14	43	57	16	27	43	30	70	30
3 cities.....		3 years..	9	46	55	13	32	45	22	78	91
English:											
Fall River.....	{	1 year...	20	28	48	36	16	52	56	44	25
3 cities.....		3 years..	29	27	56	26	18	44	55	45	55
Fall River.....	{	1 year...	17	34	51	32	17	49	49	51	41
3 cities.....		3 years..	22	32	54	25	21	46	47	53	92
French Canadian:											
Fall River.....	{	1 year...	25	18	43	40	17	57	65	35	40
3 cities.....		3 years..	26	15	41	40	19	59	66	34	99
Fall River.....	{	1 year...	18	18	36	33	31	64	51	49	77
3 cities.....		3 years..	17	20	37	33	30	63	50	50	199
Other races:											
Fall River.....	{	1 year...	32	16	48	26	26	52	58	42	19
3 cities.....		3 years..	28	20	48	26	26	52	54	46	50
Fall River.....	{	1 year...	33	17	50	20	30	50	53	47	30
3 cities.....		3 years..	28	26	54	21	25	46	49	51	76
Total, all races:											
Fall River.....	{	1 year...	23	27	50	30	20	50	53	47	147
3 cities.....		3 years..	23	28	51	30	19	49	53	47	354
Fall River.....	{	1 year...	16	32	48	26	26	52	42	58	281
3 cities.....		3 years..	15	35	50	25	25	50	40	60	713

AGES 15 TO 44 YEARS.

TABLE 23.—PER CENT OF OPERATIVE AND NONOPERATIVE MALES AND FEMALES IN TOTAL FOR EACH RACE GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET)—Concluded.

DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes (100 per cent).
All non-Irish races:									
Fall River.....	18	32	50	22	28	50	40	60	175
3 cities.....	15	29	44	22	34	56	37	63	492
3 cities.....	13	39	52	13	35	48	26	74	387
Irish:									
Fall River.....	13	44	57	19	24	43	32	68	63
3 cities.....	13	35	48	20	32	52	33	67	191
3 cities.....	7	44	51	14	35	49	21	79	145
American:									
Fall River.....	14	33	47	8	45	53	22	78	36
3 cities.....	10	28	38	12	50	62	22	78	86
3 cities.....	10	43	53	4	43	47	14	86	102
English:									
Fall River.....	12	34	46	28	26	54	40	60	35
3 cities.....	14	32	46	24	30	54	38	62	123
3 cities.....	10	39	49	20	31	51	30	70	82
French Canadian:									
Fall River.....	23	28	51	27	22	49	50	50	70
3 cities.....	17	25	42	26	32	58	43	57	191
3 cities.....	15	33	48	16	36	52	31	69	147
Other races:									
Fall River.....	18	38	56	20	24	44	38	62	34
3 cities.....	15	36	51	21	28	49	36	64	92
3 cities.....	18	46	64	12	24	36	30	70	56
Total, all races:									
Fall River.....	16	36	52	22	26	48	38	62	238
3 cities.....	14	31	45	22	33	55	36	64	683
3 cities.....	12	40	52	13	35	48	25	75	532

DEATHS, ALL CAUSES.

All non-Irish races:									
Fall River.....	21	28	49	26	25	51	47	53	272
3 cities.....	19	27	56	24	30	54	43	57	728
3 cities.....	15	35	50	18	32	50	33	67	565
Irish:									
Fall River.....	14	43	57	21	22	43	35	65	113
3 cities.....	14	36	50	24	26	50	38	62	309
3 cities.....	8	43	51	18	31	49	26	74	248
American:									
Fall River.....	18	31	49	13	38	51	31	69	49
3 cities.....	13	31	44	13	43	56	26	74	118
3 cities.....	11	43	54	7	39	46	18	82	132
English:									
Fall River.....	15	32	47	32	21	53	47	53	60
3 cities.....	19	30	49	24	27	51	43	57	178
3 cities.....	13	37	50	23	27	50	26	64	123
French Canadian:									
Fall River.....	23	25	48	32	20	52	55	45	110
3 cities.....	20	22	42	31	27	58	51	49	290
3 cities.....	16	28	44	22	34	56	38	62	224
Other races:									
Fall River.....	23	30	53	23	24	47	46	54	53
3 cities.....	20	30	50	22	28	50	42	58	142
3 cities.....	23	36	59	15	26	41	38	62	86
Total, all races:									
Fall River.....	18	33	51	25	24	49	43	57	385
3 cities.....	17	30	47	25	28	53	42	58	1,037
3 cities.....	13	37	50	18	32	50	31	69	817

AGES 15 TO 44 YEARS.

TABLE 24.—PER CENT OF OPERATIVES AND NONOPERATIVES OF EACH RACE IN TOTAL FOR EACH SEX, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).

POPULATION.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....	34	50	84	29	52	81	31	51	82
3 cities.....	24	59	83	23	57	80	24	57	81
Irish:									
Fall River.....	6	10	16	8	11	19	7	11	18
3 cities.....	4	13	17	7	13	20	5	14	19
American:									
Fall River.....	2	16	18	2	16	18	2	16	18
3 cities.....	2	23	25	2	23	25	2	23	25
English:									
Fall River.....	12	11	23	10	12	22	10	12	22
3 cities.....	7	12	19	7	12	19	7	12	19
French Canadian:									
Fall River.....	13	14	27	12	15	27	13	14	27
3 cities.....	9	18	27	10	16	26	10	16	26
Other races:									
Fall River.....	7	9	16	5	9	14	6	9	15
3 cities.....	6	6	12	4	6	10	5	6	11
Total, all races:									
Fall River.....	40	60	^a 26,228	37	63	^a 29,683	38	62	^a 55,911
3 cities.....	28	72	^a 52,453	30	70	^a 60,272	29	71	^a 112,725

DEATHS, TUBERCULOUS.

All non-Irish races:									
Fall River.....	34	28	62	45	25	70	39	27	66
3 cities.....	26	34	60	33	33	66	30	33	63
Irish:									
Fall River.....	11	27	38	15	15	30	14	20	34
3 cities.....	8	32	40	17	17	34	12	25	37
American:									
Fall River.....	6	4	10	4	4	8	5	4	9
3 cities.....	3	7	10	2	5	7	3	6	9
English:									
Fall River.....	7	10	17	12	5	17	9	8	17
3 cities.....	5	10	15	9	5	14	7	7	14
French Canadian:									
Fall River.....	13	10	23	22	9	31	17	10	27
3 cities.....	11	10	21	17	16	33	14	13	27
Other races:									
Fall River.....	8	4	12	7	7	14	8	5	13
3 cities.....	7	4	11	4	6	10	6	5	11
Total, all races:									
Fall River.....	45	55	^a 73	60	40	^a 74	53	47	^a 147
3 cities.....	46	54	^a 179	61	39	^a 175	53	47	^a 354
Total, all races:	34	66	^a 134	50	50	^a 147	42	58	^a 281
3 cities.....	32	68	^a 353	49	51	^a 360	40	60	^a 713

^aTotal on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 24.—PER CENT OF OPERATIVES AND NONOPERATIVES OF EACH RACE IN TOTAL FOR EACH SEX, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET)—Concluded.

DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....1 year...	25	46	71	34	42	76	30	44	74
3 cities.....3 years...	23	47	70	29	45	74	27	45	72
3 cities.....1 year...	18	55	73	20	52	72	19	54	73
Irish:									
Fall River.....1 year...	6	23	29	11	13	24	8	18	26
3 cities.....3 years...	8	22	30	10	16	26	9	19	28
3 cities.....1 year...	4	23	27	8	20	28	6	21	27
American:									
Fall River.....1 year...	4	10	14	3	14	17	3	12	15
3 cities.....3 years...	3	8	11	3	12	15	3	10	13
3 cities.....1 year...	4	16	20	2	17	19	2	17	19
English:									
Fall River.....1 year...	3	10	13	8	8	16	6	9	15
3 cities.....3 years...	5	13	18	8	10	18	7	11	18
3 cities.....1 year...	3	12	15	6	10	16	4	11	15
French Canadian:									
Fall River.....1 year...	13	16	29	17	13	30	16	14	30
3 cities.....3 years...	11	15	26	13	16	29	12	16	28
3 cities.....1 year...	8	17	25	9	21	30	9	19	28
Other races:									
Fall River.....1 year...	5	10	15	6	7	13	5	9	14
3 cities.....3 years...	4	11	15	5	7	12	5	8	13
3 cities.....1 year...	3	10	13	3	4	7	4	7	11
Total, all races:									
Fall River.....1 year...	31	69	a 124	45	55	a 114	38	62	a 238
3 cities.....3 years...	31	69	a 308	39	61	a 375	36	64	a 683
3 cities.....1 year...	22	78	a 274	28	72	a 258	25	75	a 532

DEATHS, ALL CAUSES.

All non-Irish races:									
Fall River.....1 year...	29	39	68	38	36	74	33	38	71
3 cities.....3 years...	28	40	68	33	39	72	30	40	70
3 cities.....1 year...	21	48	69	25	45	70	23	46	69
Irish:									
Fall River.....1 year...	8	24	32	12	14	26	10	19	29
3 cities.....3 years...	9	23	32	13	15	28	12	18	30
3 cities.....1 year...	5	26	31	11	19	30	8	23	31
American:									
Fall River.....1 year...	5	7	12	3	10	13	4	9	13
3 cities.....3 years...	3	8	11	3	9	12	3	8	11
3 cities.....1 year...	3	14	17	2	13	15	3	13	16
English:									
Fall River.....1 year...	5	10	15	10	7	17	7	8	15
3 cities.....3 years...	7	11	18	8	8	16	7	10	17
3 cities.....1 year...	4	11	15	7	8	15	5	10	15
French Canadian:									
Fall River.....1 year...	13	14	27	19	12	31	16	13	29
3 cities.....3 years...	12	13	25	16	15	31	14	14	28
3 cities.....1 year...	9	15	24	12	19	31	10	17	27
Other races:									
Fall River.....1 year...	6	8	14	6	7	13	6	8	14
3 cities.....3 years...	6	8	14	6	7	13	6	8	14
3 cities.....1 year...	5	8	13	4	5	9	5	6	11
Total, all races:									
Fall River.....1 year...	37	63	a 197	50	50	a 188	43	57	a 385
3 cities.....3 years...	37	63	a 487	46	54	a 550	42	58	a 1,037
3 cities.....1 year...	26	74	a 408	36	64	a 405	31	69	a 813

a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 25.—PER CENT OF OPERATIVES AND NONOPERATIVES OF EACH SEX AND RACE IN TOTAL FOR ALL CLASSES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).

POPULATION.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....	16	23	39	15	28	43	31	51	82
3 cities.....	11	28	39	13	29	42	24	57	81
Irish:									
Fall River.....	3	5	8	4	6	10	7	11	18
3 cities.....	2	6	8	3	8	11	5	14	19
American:									
Fall River.....	1	8	9	1	8	9	2	16	18
3 cities.....	1	11	12	1	12	13	2	23	25
English:									
Fall River.....	5	5	10	5	7	12	10	12	22
3 cities.....	3	6	9	4	6	10	7	12	19
French Canadian:									
Fall River.....	7	6	13	6	8	14	13	14	27
3 cities.....	4	8	12	6	8	14	10	16	26
Other races:									
Fall River.....	3	4	7	3	5	8	6	9	15
3 cities.....	3	3	6	2	3	5	5	6	11
Total, all races:									
Fall River.....	19	28	47	19	34	53	38	62	^a 55,911
3 cities.....	13	34	47	16	37	53	29	71	^a 12,725

DEATHS, TUBERCULOUS.

All non-Irish races:									
Fall River.....	1 year... 17	14	31	22	13	35	39	27	66
	3 years... 18	15	33	20	14	34	38	29	67
3 cities.....	1 year... 13	16	29	17	17	34	30	33	63
	3 years... 12	18	30	16	18	34	28	36	64
Irish:									
Fall River.....	1 year... 6	13	19	8	7	15	14	20	34
	3 years... 5	13	18	10	5	15	15	18	33
3 cities.....	1 year... 3	16	19	9	9	18	12	25	37
	3 years... 3	17	20	9	7	16	12	24	36
American:									
Fall River.....	1 year... 3	2	5	2	2	4	5	4	9
	3 years... 1	4	5	2	2	4	3	6	9
3 cities.....	1 year... 1	5	6	2	3	5	3	8	11
	3 years... 1	6	7	2	4	6	3	10	13
English:									
Fall River.....	1 year... 3	5	8	6	3	9	9	8	17
	3 years... 5	4	9	4	3	7	9	7	16
3 cities.....	1 year... 3	4	7	4	3	7	7	7	14
	3 years... 3	4	7	3	3	6	6	7	13
French Canadian:									
Fall River.....	1 year... 7	5	12	10	5	15	17	10	27
	3 years... 7	5	12	11	5	16	18	10	28
3 cities.....	1 year... 5	5	10	9	8	17	14	13	27
	3 years... 5	6	11	9	8	17	14	14	28
Other races:									
Fall River.....	1 year... 4	2	6	4	3	7	8	5	13
	3 years... 5	2	7	3	4	7	8	6	14
3 cities.....	1 year... 4	2	6	2	3	5	6	5	11
	3 years... 3	2	5	2	3	5	5	5	10
Total, all races:									
Fall River.....	1 year... 23	27	50	30	20	50	53	47	^a 147
	3 years... 23	28	51	30	19	49	53	47	^a 354
3 cities.....	1 year... 16	32	48	26	26	52	42	58	^a 281
	3 years... 15	35	50	25	25	50	40	60	^a 713

^a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 25.—PER CENT OF OPERATIVES AND NONOPERATIVES OF EACH SEX AND RACE IN TOTAL FOR ALL CLASSES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET)—Concluded.

DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....	13	24	37	17	20	37	30	44	74
3 cities.....	11	21	32	16	24	40	27	45	72
1 year.....	10	28	38	9	26	35	19	54	73
Irish:									
Fall River.....	3	12	15	5	6	11	8	18	26
3 cities.....	3	10	13	6	9	15	9	19	28
1 year.....	2	12	14	4	9	13	6	21	27
American:									
Fall River.....	2	5	7	1	7	8	3	12	15
3 cities.....	1	4	5	2	6	8	3	10	13
1 year.....	1	9	10	1	8	9	2	17	19
English:									
Fall River.....	2	5	7	4	4	8	6	9	15
3 cities.....	2	6	8	5	5	10	7	11	18
1 year.....	2	6	8	2	5	7	4	11	15
French Canadian:									
Fall River.....	8	8	16	8	6	14	16	14	30
3 cities.....	5	7	12	7	9	16	12	16	28
1 year.....	4	9	13	5	10	15	9	19	28
Other races:									
Fall River.....	1	6	7	4	3	7	5	9	14
3 cities.....	3	4	7	2	4	6	5	8	13
1 year.....	3	4	7	1	3	4	4	7	11
Total, all races:									
Fall River.....	16	36	52	22	26	48	38	62	a 238
3 cities.....	14	31	45	22	33	55	36	64	a 683
1 year.....	12	40	52	13	35	48	25	75	a 532

DEATHS, ALL CAUSES.

All non-Irish races:									
Fall River.....	15	20	35	18	18	36	33	38	71
3 cities.....	13	19	32	17	21	38	30	40	70
1 year.....	10	24	34	13	22	35	23	46	69
Irish:									
Fall River.....	3	13	16	7	6	13	10	19	29
3 cities.....	4	11	15	8	7	15	12	18	30
1 year.....	3	13	16	5	10	15	8	23	31
American:									
Fall River.....	3	4	7	1	5	6	4	9	13
3 cities.....	2	3	5	1	5	6	3	8	11
1 year.....	2	7	9	1	6	7	3	13	16
English:									
Fall River.....	2	5	7	5	3	8	7	8	15
3 cities.....	3	5	8	4	5	9	7	10	17
1 year.....	1	6	7	4	4	8	5	10	15
French Canadian:									
Fall River.....	7	7	14	9	6	15	16	13	29
3 cities.....	5	7	12	9	7	16	14	14	28
1 year.....	4	8	12	6	9	15	10	17	27
Other races:									
Fall River.....	3	4	7	3	4	7	6	8	14
3 cities.....	3	4	7	3	4	7	6	8	14
1 year.....	3	3	6	2	3	5	5	6	11
Total, all races:									
Fall River.....	18	33	51	25	24	49	43	57	a 385
3 cities.....	17	30	47	25	28	53	42	58	a 1,037
1 year.....	13	37	50	18	32	50	31	69	a 813

a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 26.—PER CENT OF DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES AMONG OPERATIVES AND AMONG NONOPERATIVES IN EACH SEX AND RACE GROUP, AND DEATH RATES FROM ALL CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET)—Continued.

FEMALES.

Race, locality, and period.	Operatives.				Nonoperatives.				Both classes.			
	Per cent of deaths from—		Total deaths from all causes (100 per cent).	Death rate per 1,000 15 to 44 years of age.	Per cent of deaths from—		Total deaths from all causes (100 per cent).	Death rate per 1,000 15 to 44 years of age.	Per cent of deaths from—		Total deaths from all causes (100 per cent).	Death rate per 1,000 15 to 44 years of age.
	Tuber- cu- lo- sis.	Non- tuber- cu- lo- sis.			Tuber- cu- lo- sis.	Non- tuber- cu- lo- sis.			Tuber- cu- lo- sis.	Non- tuber- cu- lo- sis.		
ALL NON-IRISH RACES.												
Fall River.	1 year... 46	54	72	8.33	28	72	67	4.36	37	63	139	5.79
	3 years... 40	60	179	6.91	23	77	217	4.71	31	69	396	5.50
3 cities.....	1 year... 49	51	100	7.19	26	74	184	5.37	34	66	284	5.90
	3 years... 46	54	251	6.01								
IRISH.												
Fall River.	1 year... 48	52	23	9.52	42	58	26	7.99	45	55	49	8.64
	3 years... 47	53	74	10.21	24	76	80	8.19	35	65	154	9.05
3 cities.....	1 year... 55	45	44	11.44	34	66	77	9.32	41	59	121	9.99
	3 years... 52	48	119	10.31								
AMERICAN.												
Fall River.	1 year... 50	50	6	8.20	16	84	19	4.04	24	76	25	4.60
	3 years... 33	67	15	6.83	16	84	51	3.62	20	80	66	4.05
3 cities.....	1 year... 56	44	9	7.71	15	85	52	3.78	21	79	61	4.09
	3 years... 43	57	28	8.00								
ENGLISH.												
Fall River.	1 year... 47	53	19	6.57	31	69	13	3.46	41	59	32	4.81
	3 years... 33	67	43	4.95	21	79	47	4.17	27	73	90	4.51
3 cities.....	1 year... 45	55	29	7.14	21	79	33	4.53	32	68	62	5.47
	3 years... 37	63	62	5.09								
FRENCH CANADIAN.												
Fall River.	1 year... 46	54	35	10.01	32	68	22	4.97	40	60	57	7.19
	3 years... 44	56	89	8.48	24	76	80	6.02	34	66	169	7.11
3 cities.....	1 year... 51	49	49	7.90	31	69	77	8.18	39	61	126	8.07
	3 years... 53	47	122	6.56								
OTHER RACES.												
Fall River.	1 year... 42	58	12	7.90	38	62	13	5.22	40	60	25	6.24
	3 years... 41	59	32	7.03	33	67	39	5.22	37	63	71	5.91
3 cities.....	1 year... 46	54	13	5.23	41	59	22	5.79	43	57	35	5.56
	3 years... 41	59	39	5.23								
TOTAL, FEMALES.												
Fall River.	1 year... 46	54	95	8.59	32	68	93	4.99	39	61	188	6.33
	3 years... 42	58	253	7.63	23	77	297	5.31	32	68	550	6.18
3 cities.....	1 year... 51	49	144	8.11	28	72	261	6.14	36	64	405	6.72
	3 years... 48	52	370	6.94								

AGES 15 TO 44 YEARS.

TABLE 27.—PER CENT OF OPERATIVES AND NONOPERATIVES OF EACH RACE IN TOTAL POPULATION OF EACH SEX, AND PER CENT WHICH DEATHS IN EACH OCCUPATION, RACE, AND CAUSE OF DEATH GROUP FORM OF TOTAL DEATHS OF EACH SEX FROM ALL CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).

POPULATION.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
All non-Irish races:									
Fall River.....	34	50	84	29	52	81	31	51	82
3 cities.....	24	59	83	23	57	80	24	57	81
Irish:									
Fall River.....	6	10	16	8	11	19	7	11	18
3 cities.....	4	13	17	7	13	20	5	14	19
American:									
Fall River.....	2	16	18	2	16	18	2	16	18
3 cities.....	2	23	25	2	23	25	2	23	25
English:									
Fall River.....	12	11	23	10	12	22	10	12	22
3 cities.....	7	12	19	7	12	19	7	12	19
French Canadian:									
Fall River.....	13	14	27	12	15	27	13	14	27
3 cities.....	9	18	27	10	16	26	10	16	26
Other races:									
Fall River.....	7	9	16	5	9	14	6	9	15
3 cities.....	6	6	12	4	6	10	5	6	11
Total, all races:									
Fall River.....	40	60	^a 26,228	37	63	^a 29,683	38	62	^a 55,911
3 cities.....	28	72	^a 52,453	30	70	^a 60,272	29	71	^a 112,725

DEATHS, TUBERCULOUS.

All non-Irish races:									
Fall River.....	12.7	10.2	22.9	17.6	10.1	27.7	15.1	10.1	25.2
3 cities.....	12.7	10.9	23.6	12.9	9.1	22.0	12.8	9.9	22.7
3 cities.....	8.6	11.3	19.9	12.1	11.9	24.0	10.3	11.6	21.9
Irish:									
Fall River.....	4.1	10.1	14.2	5.8	5.9	11.7	4.9	8.1	13.0
3 cities.....	4.1	9.0	13.1	6.4	3.4	9.8	5.3	6.1	11.4
3 cities.....	2.5	10.5	13.0	5.9	6.4	12.3	4.2	8.5	12.7
American:									
Fall River.....	2.1	1.5	3.6	1.6	1.6	3.2	1.8	1.6	3.4
3 cities.....	1.2	2.7	3.9	.9	1.5	2.4	1.1	2.0	3.1
3 cities.....	1.0	3.2	4.2	1.2	2.0	3.2	1.1	2.6	3.7
English:									
Fall River.....	2.5	3.6	6.1	4.8	2.1	6.9	3.6	2.8	6.4
3 cities.....	3.3	3.1	6.4	2.6	1.8	4.4	2.9	2.4	5.3
3 cities.....	1.7	3.4	5.1	3.2	1.8	5.0	2.5	2.6	5.1
French Canadian:									
Fall River.....	5.0	3.6	8.6	8.5	3.7	12.2	6.8	3.6	10.4
3 cities.....	5.3	3.1	8.4	7.1	3.4	10.5	6.2	3.3	9.5
3 cities.....	3.4	3.5	6.9	6.2	5.9	12.1	4.8	4.6	9.4
Other races:									
Fall River.....	3.1	1.5	4.6	2.7	2.7	5.4	2.9	2.1	5.0
3 cities.....	2.9	2.0	4.9	2.3	2.4	4.7	2.6	2.2	4.8
3 cities.....	2.5	1.2	3.7	1.5	2.2	3.7	1.9	1.8	3.7
Total, all races:									
Fall River.....	16.8	20.3	37.1	23.4	16.0	39.4	20.0	18.2	38.2
3 cities.....	16.8	19.9	36.7	19.3	12.5	31.8	18.1	16.0	34.1
3 cities.....	11.1	21.8	32.9	18.0	18.3	36.3	14.5	20.1	34.6

^a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 27.—PER CENT OF OPERATIVES AND NONOPERATIVES OF EACH RACE IN TOTAL POPULATION OF EACH SEX, AND PER CENT WHICH DEATHS IN EACH OCCUPATION, RACE, AND CAUSE OF DEATH GROUP FORM OF TOTAL DEATHS OF EACH SEX FROM ALL CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAW-TUCKET)—Continued.

DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....	15.7	28.9	44.6	20.7	25.5	46.2	18.1	27.3	45.4
3 cities.....	12.2	36.8	49.0	12.6	33.6	46.2	12.5	35.1	47.6
Irish:									
Fall River.....	4.1	14.2	18.3	6.4	8.0	14.4	5.3	11.1	16.4
3 cities.....	2.7	15.4	18.1	4.9	12.6	17.5	3.7	14.1	17.8
American:									
Fall River.....	2.5	6.1	8.6	1.6	8.5	10.1	2.1	7.2	9.3
3 cities.....	1.9	4.9	6.8	1.8	7.8	9.6	1.8	6.5	8.3
English:									
Fall River.....	2.0	6.1	8.1	5.3	4.8	10.1	3.6	5.5	9.1
3 cities.....	2.0	7.8	9.8	4.0	6.4	10.4	3.0	7.1	10.1
French Canadian:									
Fall River.....	8.2	10.1	18.3	10.1	8.0	18.1	9.1	9.1	18.2
3 cities.....	5.4	11.8	17.2	5.9	13.1	19.0	5.7	12.4	18.1
Other races:									
Fall River.....	3.0	6.6	9.6	3.7	4.2	7.9	3.3	5.5	8.8
3 cities.....	2.9	6.8	9.7	3.5	4.7	8.2	3.2	5.7	8.9
Total, all races:									
Fall River.....	19.8	43.1	62.9	27.1	33.5	60.6	23.4	38.4	61.8
3 cities.....	14.9	52.2	67.1	17.5	46.2	63.7	16.2	49.2	65.9

AGES 15 TO 44 YEARS.

TABLE 27.—PER CENT OF OPERATIVES AND NONOPERATIVES OF EACH RACE IN TOTAL POPULATION OF EACH SEX, AND PER CENT WHICH DEATHS IN EACH OCCUPATION, RACE, AND CAUSE OF DEATH GROUP FORM OF TOTAL DEATHS OF EACH SEX FROM ALL CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET)—Concluded.

DEATHS, ALL CAUSES.

Race, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
All non-Irish races:									
Fall River.....{1 year...	28.4	39.1	67.5	38.3	35.6	73.9	33.2	37.4	70.6
Fall River.....{3 years...	27.7	40.5	68.2	32.5	39.5	72.0	30.3	39.9	70.2
3 cities.....1 year...	20.8	48.1	68.9	24.7	45.5	70.2	22.8	46.7	69.5
Irish:									
Fall River.....{1 year...	8.2	24.3	32.5	12.2	13.9	26.1	10.2	19.2	29.4
Fall River.....{3 years...	9.0	22.8	31.8	13.5	14.5	28.0	11.4	18.4	29.8
3 cities.....1 year...	5.2	25.9	31.1	10.8	19.0	29.8	8.9	22.6	30.5
American:									
Fall River.....{1 year...	4.6	7.6	12.2	3.2	10.1	13.3	3.9	8.8	12.7
Fall River.....{3 years...	3.1	7.6	10.7	2.7	9.3	12.0	2.9	8.5	11.4
3 cities.....1 year...	3.4	14.0	17.4	2.2	12.9	15.1	2.8	13.4	16.2
English:									
Fall River.....{1 year...	4.5	9.7	14.2	10.1	6.9	17.0	7.2	8.3	15.5
Fall River.....{3 years...	7.0	11.1	18.1	7.8	8.6	16.4	7.5	9.7	17.2
3 cities.....1 year...	3.7	11.2	14.9	7.2	8.2	15.4	5.5	9.7	15.2
French Canadian:									
Fall River.....{1 year...	13.2	13.7	26.9	18.6	11.7	30.3	15.9	12.7	28.6
Fall River.....{3 years...	11.8	13.0	24.8	16.2	14.5	30.7	14.1	13.8	28.9
3 cities.....1 year...	8.8	15.3	24.1	12.1	19.0	31.1	10.5	17.0	27.5
Other races:									
Fall River.....{1 year...	6.1	8.1	14.2	6.4	6.9	13.3	6.2	7.6	13.8
Fall River.....{3 years...	5.8	8.8	14.6	5.8	7.1	12.9	5.8	7.9	13.7
3 cities.....1 year...	4.9	7.6	12.5	3.2	5.4	8.6	4.0	6.6	10.6
Total, all races:									
Fall River.....{1 year...	36.6	63.4	α 197	50.5	49.5	α 188	43.4	56.6	α 385
Fall River.....{3 years...	36.7	63.3	α 487	46.0	54.0	α 550	41.7	58.3	α 1,037
3 cities.....1 year...	26.0	74.0	α 408	35.5	64.5	α 405	30.7	69.3	α 813

• Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 28.—PER CENT OF OPERATIVES AND NONOPERATIVES OF DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES IN DEATHS FROM ALL CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER, POPULATION.

Race and locality.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....	16	23	39	15	28	43	31	51	82
3 cities.....	11	28	39	13	29	42	24	57	81
Irish:									
Fall River.....	3	5	8	4	6	10	7	11	18
3 cities.....	2	6	8	3	8	11	5	14	19
American:									
Fall river.....	1	8	9	1	8	9	2	16	18
3 cities.....	1	11	12	1	12	13	2	23	25
English:									
Fall River.....	5	5	10	5	7	12	10	12	22
3 cities.....	3	6	9	4	6	10	7	12	19

DEATHS, TUBERCULOUS.

Race, locality, and period.	Per cent of deaths of operatives and of nonoperatives of each specified sex of total deaths from all causes of both classes and both sexes.								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River....(1 year...)	6.5	5.2	11.7	8.6	4.9	13.5	15.1	10.1	25.2
.....(3 years...)	6.0	5.1	11.1	6.8	4.8	11.6	12.8	9.9	22.7
3 cities.....(1 year...)	4.3	5.7	10.0	6.0	5.9	11.9	10.3	11.6	21.9
Irish:									
Fall River....(1 year...)	2.1	5.2	7.3	2.8	2.9	5.7	4.9	8.1	13.0
.....(3 years...)	1.9	4.3	6.2	3.4	1.8	5.2	5.3	6.1	11.4
3 cities.....(1 year...)	1.2	5.3	6.5	3.0	3.2	6.2	4.2	8.5	12.7
American:									
Fall River....(1 year...)	1.0	.8	1.8	.8	.8	1.6	1.8	1.6	3.4
.....(3 years...)	.6	1.2	1.8	.5	.8	1.3	1.1	2.0	3.1
3 cities.....(1 year...)	.5	1.6	2.1	.6	1.0	1.6	1.1	2.6	3.7
English:									
Fall River....(1 year...)	1.3	1.8	3.1	2.3	1.0	3.3	3.6	2.8	6.4
.....(3 years...)	1.6	1.4	3.0	1.3	1.0	2.3	2.9	2.4	5.3
3 cities.....(1 year...)	.9	1.7	2.6	1.6	.9	2.5	2.5	2.6	5.1
French Canadian:									
Fall River....(1 year...)	2.6	1.8	4.4	4.2	1.8	6.0	6.8	3.6	10.4
.....(3 years...)	2.4	1.5	3.9	3.8	1.8	3.6	6.2	3.3	9.5
3 cities.....(1 year...)	1.7	1.7	3.4	3.1	2.9	6.0	4.8	4.6	9.4
Other races:									
Fall River....(1 year...)	1.6	.8	2.4	1.3	1.3	2.6	2.9	2.1	5.0
.....(3 years...)	1.4	1.0	2.4	1.2	1.2	2.4	2.6	2.2	4.8
3 cities.....(1 year...)	1.2	.7	1.9	.7	1.1	1.8	1.9	1.8	3.7
Total, all races:									
Fall River....(1 year...)	8.6	10.4	19.0	11.4	7.8	19.2	20.0	18.2	38.2
.....(3 years...)	7.9	9.4	17.3	10.2	6.6	16.8	18.1	16.0	34.1
3 cities.....(1 year...)	5.5	11.0	16.5	9.0	9.1	18.1	14.5	20.1	34.6

AGES 15 TO 44 YEARS.

EACH RACE AND SEX IN TOTAL POPULATION, AND PER CENT WHICH EACH OCCUPATION, SEX, AND RACE GROUP FORM OF TOTAL MANCHESTER, AND PAWTUCKET).

POPULATION.

Race and locality.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
French Canadian:									
Fall River.....	7	6	13	6	8	14	13	14	27
3 cities.....	4	8	12	6	8	14	10	16	26
Other races:									
Fall River.....	3	5	8	3	4	7	6	9	15
3 cities.....	3	3	6	2	3	5	5	6	11
Total, all races:									
Fall River.....	19	28	47	19	34	53	38	62	a 35,911
3 cities.....	13	34	47	16	37	53	29	71	a 112,725

DEATHS, TUBERCULOUS.

Per cent of difference (+ or -) between death rate from specified causes in each specified class and death rate of both classes and both sexes from all causes.

Males.			Females.			Both sexes.		
Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
-59	-78	-70	-45	-82	-68	-52	-80	-70
-62	-78	-72	-56	-83	-73	-59	-81	-72
-62	-79	-74	-51	-81	-72	-56	-80	-73
-23	+10	-2	-34	-51	-44	-30	-24	-26
-28	-11	-17	-22	-69	-49	-24	-42	-35
-33	-13	-17	-13	-56	-43	-20	-37	-32
-3	-90	-79	-40	-91	-84	-24	-90	-82
-46	-83	-79	-63	-91	-87	-55	-87	-83
-52	-85	-82	-41	-92	-88	-46	-89	-85
-76	-65	-71	-55	-85	-72	-65	-76	-71
-71	-72	-72	-74	-86	-81	-73	-80	-76
-73	-69	-72	-56	-87	-75	-64	-79	-73
-59	-72	-66	-34	-77	-58	-46	-75	-62
-60	-78	-69	-40	-77	-61	-50	-77	-65
-60	-79	-72	-44	-65	-56	-51	-72	-64
-51	-82	-69	-52	-71	-64	-52	-76	-66
-58	-77	-69	-54	-72	-65	-56	-74	-67
-58	-78	-68	-67	-67	-67	-62	-72	-67
-54	-63	-60	-42	-77	-64	-48	-71	-62
-57	-67	-63	-48	-80	-68	-53	-74	-66
-58	-67	-64	-43	-76	-66	-50	-72	-65

a Total on which per cents are based.

AGES 15 TO 44 YEARS.

TABLE 28.—PER CENT OF OPERATIVES AND NONOPERATIVES OF DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES IN DEATHS FROM ALL CAUSES, FALL RIVER AND 3 CITIES (FALL RIVER,

DEATHS, NONTUBERCULOUS.

Race, locality, and period.	Per cent of deaths of operatives and of nonoperatives of each specified sex of total deaths from all causes of both classes and both sexes.								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
All non-Irish races:									
Fall River.....	8.0	14.8	22.8	10.1	12.5	22.6	18.1	27.3	45.4
3 cities.....	7.1	13.9	21.0	10.4	16.1	26.5	17.5	30.0	47.5
.....1 year...	6.1	18.5	24.6	6.4	16.6	23.0	12.5	35.1	47.6
Irish:									
Fall River.....	2.1	7.3	9.4	3.2	3.8	7.0	5.3	11.1	16.4
3 cities.....	2.3	6.4	8.7	3.8	5.9	9.7	6.1	12.3	18.4
.....1 year...	1.4	7.7	9.1	2.3	6.4	8.7	3.7	14.1	17.8
American:									
Fall River.....	1.3	3.1	4.4	.8	4.1	4.9	2.1	7.2	9.3
3 cities.....	.9	2.3	3.2	1.9	4.2	5.1	1.8	6.5	8.3
.....1 year...	1.2	5.4	6.6	.5	5.4	5.9	1.7	10.8	12.5
English:									
Fall River.....	1.0	3.1	4.1	2.6	2.4	5.0	3.6	5.5	9.1
3 cities.....	1.7	3.8	5.5	2.9	3.5	6.4	4.6	7.3	11.9
.....1 year...	1.0	4.0	5.0	2.0	3.1	5.1	3.0	7.1	10.1
French Canadian:									
Fall River.....	4.2	5.1	9.3	4.9	4.0	8.9	9.1	9.1	18.2
3 cities.....	3.1	4.6	7.7	4.8	5.9	10.7	7.9	10.5	18.4
.....1 year...	2.7	5.9	8.6	3.0	6.5	9.5	5.7	12.4	18.1
Other races:									
Fall River.....	1.5	3.5	5.0	1.8	2.0	3.8	3.3	5.5	8.8
3 cities.....	1.4	3.2	4.6	1.8	2.5	4.3	3.2	5.7	8.9
.....1 year...	1.2	3.2	4.4	.9	1.6	2.5	2.1	4.8	6.9
Total, all races:									
Fall River.....	10.1	22.1	32.2	13.3	16.3	29.6	23.4	38.4	61.8
3 cities.....	9.4	20.3	29.7	14.2	22.0	26.2	23.6	42.3	65.9
.....1 year...	7.5	26.2	33.7	8.7	23.0	31.7	16.2	49.2	65.4

DEATHS, ALL CAUSES.

All non-Irish races:									
Fall River.....	14.5	20.0	34.5	18.7	17.4	36.1	33.2	37.4	70.6
3 cities.....	13.1	19.0	32.1	17.2	20.9	38.1	30.3	39.9	70.2
.....1 year...	10.4	24.2	34.6	12.4	22.5	34.9	22.8	46.7	69.5
Irish:									
Fall River.....	4.2	12.5	16.7	6.0	6.7	12.7	10.2	19.2	29.4
3 cities.....	4.2	10.7	14.9	7.2	7.7	14.9	11.4	18.4	29.8
.....1 year...	2.6	13.0	15.6	5.3	9.6	14.9	8.9	22.6	30.5
American:									
Fall River.....	2.3	3.9	6.2	1.6	4.9	6.5	3.9	8.8	12.7
3 cities.....	1.5	3.5	5.0	1.4	5.0	6.4	2.9	8.5	11.4
.....1 year...	1.7	7.0	8.7	1.1	6.4	7.5	2.8	13.4	16.2
English:									
Fall River.....	2.3	4.9	7.2	4.9	3.4	8.3	7.2	8.3	15.5
3 cities.....	3.3	5.2	8.5	4.2	4.5	8.7	7.5	9.7	17.2
.....1 year...	1.9	5.7	7.6	3.6	4.0	7.6	5.5	9.7	15.2
French Canadian:									
Fall River.....	6.8	6.9	13.7	9.1	5.8	14.9	15.9	12.7	28.6
3 cities.....	5.5	6.1	11.6	8.6	7.7	16.3	14.1	13.8	28.9
.....1 year...	4.4	7.6	12.0	6.1	9.4	15.5	10.5	17.0	27.5
Other races:									
Fall River.....	3.1	4.3	7.4	3.1	3.3	6.4	6.2	7.6	13.8
3 cities.....	2.8	4.2	7.0	3.0	3.7	6.7	5.8	7.9	13.7
.....1 year...	2.4	3.9	6.3	1.6	2.7	4.3	4.0	6.6	10.6
Total, all races:									
Fall River.....	18.7	32.5	51.2	24.7	24.1	48.8	43.4	56.6	85.5
3 cities.....	17.3	29.7	47.0	24.4	28.6	53.0	41.7	58.3	85.3
.....1 year...	13.0	37.2	50.2	17.7	32.1	49.8	30.7	69.3	81.7

a Less than one-half of 1 per cent.

b Total on which per cents are based.

AGES 15 TO 44 YEARS.

EACH RACE AND SEX IN TOTAL POPULATION, AND PER CENT WHICH EACH OCCUPATION, SEX, AND RACE GROUP FORM OF TOTAL MANCHESTER, AND PAWTUCKET)—Concluded.

DEATHS, NONTUBERCULOUS.

Per cent of difference (+ or -) between death rate from specified causes in each specified class and death rate of both classes and both sexes from all causes.								
Males.			Females.			Both sexes.		
Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
- 49	- 37	- 42	-35	-55	-47	-42	-47	-45
- 56	- 41	- 47	-33	-41	-38	-44	-41	-42
- 46	- 32	- 36	-49	-45	-46	-48	-39	-41
- 23	+ 54	+ 26	-28	-33	-31	-26	+ 6	- 7
- 14	+ 37	+ 18	-45	+ 1	- 5	-13	+17	+ 5
- 26	+ 28	+ 15	-28	-14	-19	-27	+ 5	- 4
+ 21	- 59	- 49	-40	-51	-49	-13	-54	-49
- 19	- 69	- 63	-26	-51	-47	-23	-60	-55
+ 20	- 50	- 43	-52	-56	-55	-16	-53	-50
- 80	- 41	- 61	-50	-65	-58	-65	-54	-60
- 67	- 28	- 48	-46	-47	-46	-57	-39	-47
- 69	- 30	- 44	-45	-50	-49	-56	-41	-46
- 34	- 21	- 27	-21	-51	-38	-27	-37	-33
- 51	- 29	- 40	-23	-26	-24	-37	-27	-32
- 37	- 27	- 30	-46	-22	-32	-42	-24	-31
- 51	- 21	- 37	-33	-53	-46	-43	-37	-40
- 58	- 25	- 39	-33	-44	-39	-46	-35	-39
- 58	+ 13	- 23	-61	-53	-56	-59	-23	-39
- 46	- 22	- 31	-33	-51	-44	-39	-38	-38
- 50	- 28	- 37	-28	-34	-32	-39	-31	-34
- 43	- 21	- 28	-45	-39	-41	-44	-31	-35

DEATHS, ALL CAUSES.

- 9	- 15	- 13	+21	-37	-16	+ 6	-27	-14
- 18	- 20	- 19	+12	-24	-11	- 3	-22	-15
- 8	- 12	- 11	-(a)	-26	-18	- 4	-19	-15
+ 54	+164	+124	+38	+16	+25	+44	+82	+67
+ 58	+127	+102	+65	+33	+46	+62	+75	+70
+ 41	+115	+ 98	+59	+29	+39	+53	+68	+64
+118	- 48	- 28	+19	-41	-33	+64	-45	-31
+ 35	- 53	- 42	+11	-41	-34	+22	-47	-38
+ 69	- 35	- 26	+ 7	-48	-43	+38	-41	-35
- 56	- 6	- 31	- 5	-50	-30	-31	-31	-31
- 39	- 1	- 20	-20	-33	-27	-29	-19	-24
- 42	+ 1	- 15	- 1	-37	-24	-20	-20	-20
+ 8	+ 7	+ 7	+45	-28	+ 4	+26	-12	+ 6
- 11	- 7	- 9	+37	- 3	+15	+13	- 5	+ 4
+ 3	- 5	- 2	+10	+13	+12	+ 7	+ 4	+ 5
- 3	- 2	- 2	+15	-24	- 9	+ 5	-13	- 6
- 16	- 2	- 8	+14	-16	- 4	- 2	- 9	- 6
- 16	+ 35	+ 9	-27	-20	-23	-21	+ 5	- 7
+ 1	+ 14	+ 9	+25	-28	- 8	+13	- 8	c6.89
- 7	+ 5	+(a)	+23	-14	0	+ 9	- 5	c6.18
- 1	+ 12	+ 8	+12	-15	- 7	+ 6	- 2	c7.21

c Basic death rate.

AGES 15 TO 44 YEARS.

TABLE 29.—DEATHS AND DEATH RATES PER 1,000 POPULATION, 15 TO FEMALES FROM EACH SPECIFIED CAUSE, FALL RIVER, 1905 TO 1907, AND

Cause of death, locality, and period.	Number of deaths.								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	21	27	48	3	13	16	24	40	64
3 cities, 1 year.....	11	33	44	4	7	11	15	40	55
Unclassified diseases:									
Fall River, 3 years.....	9	25	34	10	39	49	19	64	83
3 cities, 1 year.....	3	21	24	2	29	31	5	50	55
Parturition:									
Fall River, 3 years.....				26	31	57	26	31	57
3 cities, 1 year.....				15	24	39	15	24	39
Cancer:									
Fall River, 3 years.....	2	7	9	9	24	33	11	31	42
3 cities, 1 year.....	2	5	7	1	15	16	3	20	23
Diseases of the nervous sys- tem:									
Fall River, 3 years.....	7	13	20	8	12	20	15	25	40
3 cities, 1 year.....	8	19	27	6	18	24	14	37	51
Diseases of the digestive sys- tem:									
Fall River, 3 years.....	17	27	44	23	22	45	40	49	89
3 cities, 1 year.....	9	32	41	10	23	33	19	55	74
Nephritis:									
Fall River, 3 years.....	11	26	37	21	24	45	32	50	82
3 cities, 1 year.....	9	25	34	11	19	30	20	44	64
Apoplexy:									
Fall River, 3 years.....	3	9	12	4	9	13	7	18	25
3 cities, 1 year.....	3	13	16	2	11	13	5	24	29
Heart disease:									
Fall River, 3 years.....	10	34	44	9	29	38	19	63	82
3 cities, 1 year.....	4	21	25	4	15	19	8	36	44
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	17	43	60	34	25	59	51	68	119
3 cities, 1 year.....	12	44	56	16	26	42	28	70	98
Total, nontuberculous diseases:									
Fall River, 3 years.....	97	211	308	147	228	375	244	439	683
3 cities, 1 year.....	61	213	274	71	187	258	132	400	532
Tuberculosis:									
Fall River, 3 years.....	82	97	179	106	69	175	188	166	354
3 cities, 1 year.....	45	89	134	73	74	147	118	163	281
Total, all causes:									
Fall River, 3 years.....	179	308	487	253	297	550	432	605	1,037
3 cities, 1 year.....	106	302	408	144	261	405	250	563	813
Total, respiratory diseases:									
Fall River, 3 years.....	99	140	239	140	94	234	239	234	473
3 cities, 1 year.....	57	133	190	89	100	189	146	233	379
Total, nonrespiratory dis- eases:									
Fall River, 3 years.....	80	168	248	113	203	316	193	371	564
3 cities, 1 year.....	49	169	218	55	161	216	104	330	434
Total, all causes:									
Fall River, 3 years.....	179	308	487	253	297	550	432	605	1,037
3 cities, 1 year.....	106	302	408	144	261	405	250	563	813

AGES 15 TO 44 YEARS.

44 YEARS OF AGE, OF OPERATIVE AND NONOPERATIVE MALES AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

Death rates.								
Males.			Females.			Both sexes.		
Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
0.67	0.57	0.61	0.09	0.23	0.18	0.37	0.39	0.38
.74	.88	.84	.23	.17	.18	.46	.50	.49
.29	.53	.43	.30	.70	.55	.30	.62	.49
.20	.56	.46	.11	.68	.51	.15	.62	.49
			.78	.56	.64	.41	.29	.34
			.84	.57	.65	.46	.30	.34
.06	.15	.12	.27	.43	.37	.17	.30	.25
.13	.13	.13	.06	.35	.27	.09	.25	.20
.22	.27	.25	.24	.21	.22	.23	.24	.24
.54	.51	.51	.34	.42	.40	.43	.46	.45
.55	.57	.56	.70	.39	.51	.62	.48	.53
.60	.85	.78	.56	.54	.55	.58	.69	.66
.35	.55	.47	.64	.43	.51	.50	.48	.49
.60	.67	.65	.62	.45	.50	.61	.55	.57
.10	.19	.15	.12	.16	.14	.11	.18	.15
.20	.35	.31	.11	.26	.21	.15	.30	.26
.32	.71	.56	.27	.52	.43	.30	.61	.49
.27	.56	.48	.23	.35	.31	.25	.45	.39
.55	.90	.76	1.02	.45	.66	.79	.66	.71
.81	1.17	1.06	.90	.61	.70	.86	.88	.87
3.11	4.44	3.91	4.43	4.08	4.21	3.80	4.25	4.07
4.09	5.68	5.22	4.00	4.40	4.28	4.04	5.00	4.72
2.63	2.04	2.28	3.20	1.23	1.97	2.92	1.60	2.11
3.01	2.37	2.56	4.11	1.74	2.44	3.61	2.03	2.49
5.74	6.48	6.19	7.63	5.31	6.18	6.72	5.85	6.18
7.10	8.05	7.78	8.11	6.14	6.72	7.65	7.03	7.21
3.18	2.94	3.04	4.22	1.68	2.63	3.71	2.26	2.82
3.82	3.54	3.62	5.01	2.35	3.14	4.47	2.91	3.36
2.56	3.54	3.15	3.41	3.63	3.55	3.01	3.59	3.36
3.28	4.51	4.16	3.10	3.79	3.58	3.18	4.12	3.85
5.74	6.48	6.19	7.63	5.31	6.18	6.72	5.85	6.18
7.10	8.05	7.78	8.11	6.14	6.72	7.65	7.03	7.21

AGES 15 TO 44 YEARS.

TABLE 30.—DEATHS AND DEATH RATES PER 1,000 POPULATION, 15 TO OCCUPATION GROUPS, AND SPECIFIED

Cause of death and race.	Number of deaths.								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
Accident or violence:									
Irish.....	7	5	12	1	8	9	8	13	21
Aggregate non-Irish.....	14	22	36	2	5	7	16	27	43
Unclassified diseases:									
Irish.....	1	5	6	1	5	6	2	10	12
Aggregate non-Irish.....	8	20	28	9	34	43	17	54	71
Parturition:									
Irish.....				4	7	11	4	7	11
Aggregate non-Irish.....				22	24	46	22	24	46
Cancer:									
Irish.....	1		1	3	8	11	4	8	12
Aggregate non-Irish.....	1	7	8	6	16	22	7	23	30
Diseases of the nervous system:									
Irish.....		1	1	4	3	7	4	4	8
Aggregate non-Irish.....	7	12	19	4	9	13	11	21	32
Diseases of the digestive system:									
Irish.....	5	9	14	4	5	9	9	14	23
Aggregate non-Irish.....	12	18	30	19	17	36	31	35	66
Nephritis:									
Irish.....	4	15	19	11	11	22	15	26	41
Aggregate non-Irish.....	7	11	18	10	13	23	17	24	41
Apoplexy:									
Irish.....	1	4	5	1	2	3	2	6	8
Aggregate non-Irish.....	2	5	7	3	7	10	5	12	17
Heart disease:									
Irish.....	3	12	15	2	9	11	5	21	26
Aggregate non-Irish.....	7	22	29	7	20	27	14	42	56
Respiratory diseases other than tuberculosis:									
Irish.....	2	16	18	8	3	11	10	19	29
Aggregate non-Irish.....	15	27	42	26	22	48	41	49	90
Total, nontuberculous diseases:									
Irish.....	24	67	91	39	61	100	63	128	191
Aggregate non-Irish.....	73	144	217	108	167	275	181	311	492
Tuberculosis:									
Irish.....	20	44	64	35	19	54	55	63	118
Aggregate non-Irish.....	62	53	115	71	50	121	133	103	236
Total, all causes:									
Irish.....	44	111	155	74	80	154	118	191	309
Aggregate non-Irish.....	135	197	332	179	217	396	314	414	728
Total, respiratory diseases:									
Irish.....	22	60	82	43	22	65	65	82	147
Aggregate non-Irish.....	77	80	157	97	72	169	174	152	326
Total, nonrespiratory diseases:									
Irish.....	22	51	73	31	58	89	53	109	162
Aggregate non-Irish.....	58	117	175	82	145	227	140	262	402
Total, all causes:									
Irish.....	44	111	155	74	80	154	118	191	309
Aggregate non-Irish.....	135	197	332	179	217	396	314	414	728

AGES 15 TO 44 YEARS.

44 YEARS OF AGE, OF IRISH AND OF NONIRISH RACES, BY SEX, CAUSE OF DEATH, FALL RIVER, 1905 TO 1907.

Death rates.								
Males.			Females.			Both sexes.		
Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
1.55	0.63	0.97	0.14	0.82	0.53	0.68	0.74	0.71
.53	.56	.54	.08	.11	.10	.30	.31	.31
.22	.63	.48	.14	.51	.35	.17	.57	.41
.30	.50	.42	.35	.74	.60	.32	.63	.52
-----	-----	-----	.55	.72	.65	.34	.40	.37
-----	-----	-----	.85	.52	.64	.42	.28	.33
.22	-----	.08	.41	.82	.65	.34	.45	.41
.04	.17	.12	.23	.35	.30	.13	.27	.22
-----	.12	.08	.55	.30	.41	.34	.23	.27
.26	.30	.29	.15	.19	.18	.21	.25	.23
1.11	1.14	1.13	.55	.51	.53	.77	.80	.78
.45	.45	.45	.73	.37	.50	.59	.41	.48
.89	1.90	1.52	1.52	1.13	1.29	1.28	1.47	1.40
.27	.28	.27	.39	.28	.32	.32	.28	.30
.22	.51	.40	.14	.21	.17	.17	.32	.27
.07	.13	.11	.12	.15	.14	.10	.14	.12
.66	1.52	1.21	.28	.92	.65	.42	1.19	.88
.26	.56	.44	.27	.43	.37	.27	.49	.40
.44	2.02	1.45	1.10	.31	.65	.85	1.07	.99
.56	.68	.63	1.00	.48	.67	.78	.57	.65
5.31	8.47	7.32	5.38	6.25	5.88	5.36	7.24	6.49
2.74	3.63	3.27	4.17	3.62	3.82	3.44	3.63	3.56
4.43	5.56	5.15	4.83	1.94	3.17	4.67	3.56	4.01
2.33	1.34	1.74	2.74	1.09	1.68	2.53	1.20	1.70
9.74	14.03	12.47	10.21	8.19	9.05	10.03	10.80	10.50
5.07	4.97	5.01	6.91	4.71	5.50	5.97	4.83	5.26
4.87	7.58	6.60	5.93	2.25	3.82	5.52	4.63	5.00
2.89	2.02	2.37	3.74	1.57	2.35	3.31	1.77	2.35
4.87	6.45	5.87	4.28	5.94	5.23	4.51	6.17	5.50
2.18	2.95	2.64	3.17	3.14	3.15	2.66	3.06	2.91
9.74	14.03	12.47	10.21	8.19	9.05	10.03	10.80	10.50
5.07	4.97	5.01	6.91	4.71	5.50	5.97	4.83	5.26

AGES 15 TO 44 YEARS.

TABLE 31.—PER CENT OF DECEDENTS 15 TO 44 YEARS OF AGE OF TOTAL DECEDENTS 10 YEARS OF AGE AND OVER, BY SEX, OCCUPATION GROUPS, AND SPECIFIED CAUSE OF DEATH, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

Cause of death, locality, and period.	Per cent of decedents 15 to 44 years of age of total decedents 10 years of age and over.								
	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
POPULATION.									
Fall River, 3 years.....	80	50	65	91	56	66	85	57	65
3 cities.....	80	61	65	90	59	66	85	59	65
DEATHS.									
Accident or violence:									
Fall River, 3 years.....	66	44	52	60	43	46	65	44	50
3 cities, 1 year.....	55	49	50	80	26	35	60	42	46
Unclassified diseases:									
Fall River, 3 years.....	50	24	28	100	36	41	68	30	34
3 cities, 1 year.....	38	29	30	100	35	37	50	32	34
Parturition:									
Fall River, 3 years.....				100	94	97			
3 cities, 1 year.....				100	100	100			
Cancer:									
Fall River, 3 years.....	18	11	12	64	20	24	44	16	20
3 cities, 1 year.....	25	12	15	17	17	17	21	15	16
Diseases of the nervous system:									
Fall River, 3 years.....	78	25	34	80	32	42	79	28	37
3 cities, 1 year.....	89	34	42	67	30	35	78	32	38
Diseases of the digestive system:									
Fall River, 3 years.....	63	29	36	85	17	30	74	22	32
3 cities, 1 year.....	64	33	37	83	28	35	73	30	36
Nephritis:									
Fall River, 3 years.....	42	24	27	64	19	28	54	21	28
3 cities, 1 year.....	53	23	27	69	19	26	61	21	26
Apoplexy:									
Fall River, 3 years.....	27	8	10	50	6	8	37	7	9
3 cities, 1 year.....	25	13	14	50	7	9	31	10	11
Heart disease:									
Fall River, 3 years.....	38	20	23	53	15	18	44	17	20
3 cities, 1 year.....	27	18	19	40	11	13	32	15	16
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	53	32	36	92	15	29	74	23	32
3 cities, 1 year.....	71	34	38	73	18	25	72	26	31
Total, nontuberculous diseases:									
Fall River, 3 years.....	50	22	27	79	19	28	64	20	28
3 cities, 1 year.....	49	26	29	70	19	25	59	22	27
Tuberculosis:									
Fall River, 3 years.....	88	64	73	94	64	79	91	64	76
3 cities, 1 year.....	84	70	74	94	72	83	90	71	78
Total, all causes:									
Fall River, 3 years.....	62	28	35	84	23	35	73	26	35
3 cities, 1 year.....	60	33	36	80	25	33	71	28	35
Total, respiratory diseases:									
Fall River, 3 years.....	79	49	58	94	35	55	87	42	57
3 cities, 1 year.....	81	52	58	89	40	54	86	46	56
Total, nonrespiratory diseases:									
Fall River, 3 years.....	50	21	25	75	20	27	62	20	27
3 cities, 1 year.....	47	25	27	70	20	25	57	22	26
Total, all causes:									
Fall River, 3 years.....	62	28	35	84	23	35	73	26	35
3 cities, 1 year.....	60	33	36	80	25	33	71	28	35

AGES 15 TO 44 YEARS.

TABLE 32.—PER CENT OF IRISH AND OF NONIRISH DECEDENTS 10 YEARS OF AGE AND OVER DYING FROM EACH SPECIFIED CAUSE WHO WERE FROM 15 TO 44 YEARS OF AGE, BY SEX AND OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

Cause of death and race.	Per cent of Irish and non-Irish decedents 10 years of age and over who were from 15 to 44 years of age.								
	Males.			Females.			Both sexes.		
	Oper- atives.	Non- oper- atives.	Both classes.	Oper- atives.	Non- oper- atives.	Both classes.	Oper- atives.	Non- oper- atives.	Both classes.
POPULATION.									
Irish.....	74	61	65	87	55	65	82	58	65
Aggregate non-Irish.....	80	57	65	92	56	66	86	57	65
DEATHS.									
Accident or violence:									
Irish.....	100	36	57	100	47	50	100	42	54
Aggregate non-Irish.....	56	47	50	50	38	41	55	45	48
Unclassified diseases:									
Irish.....	50	20	22	100	16	19	66	18	20
Aggregate non-Irish.....	50	25	29	100	44	49	68	34	39
Parturition:									
Irish.....				100	100	100			
Aggregate non-Irish.....				100	92	96			
Cancer:									
Irish.....	20		4	60	31	35	40	18	22
Aggregate non-Irish.....	17	15	15	67	16	21	47	16	19
Diseases of the nervous system:									
Irish.....		11	10	67	30	44	57	21	30
Aggregate non-Irish.....	88	29	38	100	32	41	92	30	39
Diseases of the digestive system:									
Irish.....	83	25	33	57	10	16	69	16	23
Aggregate non-Irish.....	57	31	38	95	23	38	76	26	38
Nephritis:									
Irish.....	50	31	33	69	18	29	62	24	31
Aggregate non-Irish.....	39	18	23	59	19	27	49	19	25
Apoplexy:									
Irish.....	50	11	13	50	3	5	50	6	8
Aggregate non-Irish.....	22	7	8	50	9	11	33	8	10
Heart disease:									
Irish.....	38	20	22	29	12	13	33	15	17
Aggregate non-Irish.....	39	21	23	70	17	21	50	19	22
Respiratory diseases other than tuberculosis:									
Irish.....	33	31	33	89	6	17	67	18	24
Aggregate non-Irish.....	58	33	39	93	20	35	76	26	37
Total, nontuberculous dis- eases:									
Irish.....	52	21	25	67	15	21	61	17	23
Aggregate non-Irish.....	50	23	28	84	22	32	66	23	30
Tuberculosis:									
Irish.....	83	61	67	90	59	76	87	61	71
Aggregate non-Irish.....	89	66	77	97	66	81	93	66	79
Total, all causes:									
Irish.....	63	29	34	76	18	28	71	23	31
Aggregate non-Irish.....	62	28	36	89	26	39	75	27	37
Total, respiratory diseases:									
Irish.....	73	48	53	90	26	49	83	39	51
Aggregate non-Irish.....	80	50	65	96	39	59	88	44	60
Total, nonrespiratory diseases:									
Irish.....	55	19	24	63	16	21	60	17	23
Aggregate non-Irish.....	48	21	25	81	23	31	63	22	29
Total, all causes:									
Irish.....	63	29	34	76	18	28	71	23	31
Aggregate non-Irish.....	62	28	36	89	26	39	75	27	37

AGES 15 TO 44 YEARS.

TABLE 33.—PER CENT OF DEATHS FROM EACH SPECIFIED CAUSE, IN EACH SEX AND OCCUPATION GROUP, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

Cause of death, locality, and period.	Per cent of decedents in each sex and occupation group dying from each specified cause.								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	12	9	10	1	4	3	6	7	6
3 cities, 1 year.....	10	11	11	3	3	3	6	7	7
Unclassified diseases:									
Fall River, 3 years.....	5	8	7	4	13	9	4	11	8
3 cities, 1 year.....	3	7	6	1	11	8	2	9	7
Parturition:									
Fall River, 3 years.....				10	11	10	6	5	5
3 cities, 1 year.....				10	9	10	6	4	5
Cancer:									
Fall River, 3 years.....	1	2	2	4	8	6	3	5	4
3 cities, 1 year.....	2	2	2	1	6	4	1	4	3
Diseases of the nervous system:									
Fall River, 3 years.....	4	4	4	3	4	4	4	4	4
3 cities, 1 year.....	8	6	6	4	7	6	6	7	6
Diseases of the digestive system:									
Fall River, 3 years.....	9	9	9	9	7	8	9	8	9
3 cities, 1 year.....	9	11	10	7	9	8	8	10	9
Nephritis:									
Fall River, 3 years.....	6	8	8	8	8	8	7	8	8
3 cities, 1 year.....	8	8	8	8	7	7	8	8	8
Apoplexy:									
Fall River, 3 years.....	2	3	2	2	3	2	2	3	2
3 cities, 1 year.....	3	4	4	1	4	3	2	4	3
Heart disease:									
Fall River, 3 years.....	6	11	9	4	10	7	4	10	8
3 cities, 1 year.....	4	7	6	3	6	5	3	6	5
Respiratory diseases, other than tuberculosis:									
Fall River, 3 years.....	9	14	12	13	9	11	11	12	12
3 cities, 1 year.....	11	15	14	11	10	10	11	12	12
Total, nontuberculous dis- eases:									
Fall River, 3 years.....	54	68	63	58	77	68	56	73	66
3 cities, 1 year.....	58	71	67	49	72	64	53	71	65
Tuberculosis:									
Fall River, 3 years.....	46	32	37	42	23	32	44	27	34
3 cities, 1 year.....	42	29	33	51	28	36	47	29	35
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory diseases:									
Fall River, 3 years.....	55	46	49	55	32	43	55	39	46
3 cities, 1 year.....	53	44	47	62	38	46	58	41	47
Total, nonrespiratory diseases:									
Fall River, 3 years.....	45	54	51	45	68	57	45	61	54
3 cities, 1 year.....	47	56	53	38	62	54	42	59	53
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 OF POPULA- TION.									
Total, all causes:									
Fall River, 3 years.....	5.74	6.48	6.19	7.63	5.31	6.18	6.72	5.85	6.18
3 cities, 1 year.....	7.10	8.05	7.78	8.11	6.14	6.72	7.65	7.03	7.21

AGES 15 TO 44 YEARS.

TABLE 34.—PER CENT OF OPERATIVE AND OF NONOPERATIVE IRISH AND NONIRISH DECEDENTS DYING FROM EACH SPECIFIED CAUSE, BY SEX, FALL RIVER, 1905 TO 1907.

Cause of death and race.	Per cent of Irish and non-Irish decedents dying from each specified cause.								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
Accident or violence:									
Irish.....	16	4	8	1	10	6	7	7	7
Aggregate non-Irish.....	10	11	11	1	2	2	5	6	6
Unclassified diseases:									
Irish.....	2	4	4	1	6	4	2	5	4
Aggregate non-Irish.....	6	10	8	5	16	11	5	13	10
Parturition:									
Irish.....				5	9	7	3	4	4
Aggregate non-Irish.....				12	11	12	7	6	6
Cancer:									
Irish.....	2		1	4	10	7	3	4	3
Aggregate non-Irish.....	1	4	2	3	8	5	2	6	4
Diseases of the nervous system:									
Irish.....		1	1	6	4	5	3	2	3
Aggregate non-Irish.....	5	6	6	2	4	3	4	5	4
Diseases of the digestive system:									
Irish.....	11	8	9	6	6	6	8	7	7
Aggregate non-Irish.....	9	9	9	11	8	9	10	8	9
Nephritis:									
Irish.....	9	14	12	15	14	14	13	14	13
Aggregate non-Irish.....	5	6	5	6	6	6	5	6	5
Apoplexy:									
Irish.....	2	4	3	1	2	2	2	3	3
Aggregate non-Irish.....	2	2	2	2	3	2	2	3	2
Heart disease:									
Irish.....	7	11	10	3	11	7	4	11	8
Aggregate non-Irish.....	5	11	9	4	9	7	5	10	8
Respiratory diseases other than tuberculosis:									
Irish.....	5	14	11	11	4	7	8	10	10
Aggregate non-Irish.....	11	14	13	14	10	12	13	12	13
Total, nontuberculous dis- eases:									
Irish.....	54	60	59	53	76	65	53	67	62
Aggregate non-Irish.....	54	73	65	60	77	69	58	75	68
Tuberculosis:									
Irish.....	46	40	41	47	24	35	47	33	38
Aggregate non-Irish.....	46	27	35	40	23	31	42	25	32
Total, all causes:									
Irish.....	100	100	100	100	100	100	100	100	100
Aggregate non-Irish.....	100	100	100	100	100	100	100	100	100
Total, respiratory diseases:									
Irish.....	51	54	52	58	28	42	55	43	48
Aggregate non-Irish.....	57	41	48	54	33	43	55	37	45
Total, nonrespiratory diseases:									
Irish.....	49	46	48	42	72	58	45	57	52
Aggregate non-Irish.....	43	59	52	46	67	57	45	63	55
Total, all causes:									
Irish.....	100	100	100	100	100	100	100	100	100
Aggregate non-Irish.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 OF POPULA- TION.									
Total, all causes:									
Irish.....	9.74	14.03	12.47	10.21	8.19	9.05	10.03	10.80	10.50
Aggregate non-Irish.....	5.07	4.97	5.01	6.91	4.71	5.50	5.97	4.83	5.26

AGES 15 TO 44 YEARS.

TABLE 35.—PER CENT OF OPERATIVE AND NONOPERATIVE DECEDENTS OF TOTAL DYING FROM EACH SPECIFIED CAUSE, BY SEX, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

Cause of death, locality, and period.	Per cent of population, and per cent of decedents dying from each specified cause.								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Deaths and popula- tion, both classes (100 per cent).
POPULATION.									
Fall River.....	19	28	47	19	34	53	38	62	55,911
3 cities.....	13	34	47	16	37	53	29	71	112,725
DEATHS.									
Accident or violence:									
Fall River, 3 years.....	33	42	75	5	20	25	38	62	64
3 cities, 1 year.....	20	60	80	7	13	20	27	73	55
Unclassified diseases:									
Fall River, 3 years.....	11	30	41	12	47	59	23	77	83
3 cities, 1 year.....	6	38	44	3	53	56	9	91	55
Parturition:									
Fall River, 3 years.....				46	54	100	46	54	57
3 cities, 1 year.....				38	62	100	38	62	39
Cancer:									
Fall River, 3 years.....	5	17	22	21	57	78	26	74	42
3 cities, 1 year.....	8	22	30	5	65	70	13	87	23
Diseases of the nervous system:									
Fall River, 3 years.....	17	33	50	20	30	50	37	63	40
3 cities, 1 year.....	16	37	53	12	35	47	28	72	51
Diseases of the digestive system:									
Fall River, 3 years.....	19	30	49	26	25	51	45	55	89
3 cities, 1 year.....	12	43	55	14	31	45	26	74	74
Nephritis:									
Fall River, 3 years.....	13	32	45	26	29	55	39	61	82
3 cities, 1 year.....	14	39	53	17	30	47	31	69	64
Apoplexy:									
Fall River, 3 years.....	12	36	48	16	36	52	28	72	25
3 cities, 1 year.....	10	45	55	7	38	45	17	83	29
Heart disease:									
Fall River, 3 years.....	12	41	53	11	36	47	23	77	82
3 cities, 1 year.....	9	48	57	9	34	43	18	82	44

AGES 15 TO 44 YEARS.

TABLE 35.—PER CENT OF OPERATIVE AND NONOPERATIVE DECEDENTS OF TOTAL DYING FROM EACH SPECIFIED CAUSE, BY SEX, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

Cause of death, locality, and period.	Per cent of population, and per cent of decedents dying from each specified cause.								
	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Deaths and population, both classes (100 per cent).
Respiratory diseases, other than tuberculosis:									
Fall River, 3 years.....	14	36	50	29	21	50	43	57	119
3 cities, 1 year.....	12	45	57	16	27	43	28	72	98
Total, nontuberculous diseases:									
Fall River, 3 years.....	14	31	45	22	33	55	36	64	683
3 cities, 1 year.....	12	40	52	13	35	48	25	75	532
Tuberculosis:									
Fall River, 3 years.....	23	28	51	30	19	49	53	47	354
3 cities, 1 year.....	16	32	48	26	26	52	42	58	281
Total, all causes:									
Fall River, 3 years.....	17	30	47	25	28	53	42	58	1,037
3 cities, 1 year.....	13	37	50	18	32	50	31	69	813
Total, respiratory diseases:									
Fall River, 3 years.....	21	29	50	30	20	50	51	49	473
3 cities, 1 year.....	15	35	50	24	26	50	39	61	379
Total, nonrespiratory diseases:									
Fall River, 3 years.....	14	30	44	20	36	56	34	66	564
3 cities, 1 year.....	11	39	50	13	37	50	24	76	434
Total, all causes:									
Fall River, 3 years.....	17	30	47	25	28	53	42	58	1,037
3 cities, 1 year.....	13	37	50	18	32	50	31	69	813

AGES 15 TO 44 YEARS.

TABLE 36.—DEATH RATES PER 1,000 POPULATION IN EACH 10-YEAR AGE GROUP, FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, BY SEX, OCCUPATION GROUPS, AND RACE, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

MALES.

Race, age group, locality, and period.	Tuberculous.			Nontuberculous.			All causes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
American:									
15 to 24 years—									
Fall River, 3 years.....	3.44	1.56	1.95	4.31	0.90	1.60	7.75	2.46	3.55
3 cities, 1 year.....	4.53	1.36	1.78	7.54	2.28	2.97	12.07	3.64	4.75
25 to 34 years—									
Fall River, 3 years.....	2.38	1.33	1.42	7.14	2.22	2.64	9.52	3.55	4.06
3 cities, 1 year.....	3.28	.70	.87	13.11	4.21	4.81	16.39	4.91	5.68
35 to 44 years—									
Fall River, 3 years.....	4.69	.....	.26	4.70	2.70	2.81	9.39	2.70	3.07
3 cities, 1 year.....	.....	1.18	1.11	5.43	4.70	4.74	5.43	5.88	5.85
English:									
15 to 24 years—									
Fall River, 3 years.....	2.10	1.66	1.88	2.71	2.50	2.60	4.81	4.16	4.48
3 cities, 1 year.....	2.26	2.84	2.64	5.27	2.44	3.43	7.53	5.28	6.07
25 to 34 years—									
Fall River, 3 years.....	1.07	1.85	1.49	1.42	4.32	2.97	2.49	6.17	4.46
3 cities, 1 year.....	2.70	1.29	1.75	.....	5.59	3.78	2.70	6.88	5.53
35 to 44 years—									
Fall River, 3 years.....	2.12	1.52	1.88	1.77	8.11	4.37	3.89	9.63	6.25
3 cities, 1 year.....	.88	2.56	1.86	.89	8.34	5.20	1.77	10.90	7.06
Irish:									
15 to 24 years—									
Fall River, 3 years.....	2.22	1.43	1.65	3.71	2.29	2.69	5.93	3.72	4.34
3 cities, 1 year.....	.....	2.14	1.77	.....	3.57	2.94	.....	5.71	4.71
25 to 34 years—									
Fall River, 3 years.....	8.00	5.03	5.91	8.79	6.04	6.85	16.79	11.07	12.76
3 cities, 1 year.....	6.78	8.04	7.80	8.47	9.24	9.09	15.25	17.28	16.89
35 to 44 years—									
Fall River, 3 years.....	3.65	16.67	9.23	4.17	28.47	14.60	7.82	45.14	23.83
3 cities, 1 year.....	6.86	11.05	9.53	6.87	19.49	14.92	13.73	30.54	24.45
French Canadian:									
15 to 24 years—									
Fall River, 3 years.....	1.90	.....	.96	3.33	1.68	2.51	5.23	1.68	3.47
3 cities, 1 year.....	.99	.31	.56	4.93	4.24	4.51	5.92	4.55	5.07
25 to 34 years—									
Fall River, 3 years.....	3.18	1.98	2.60	2.39	5.36	3.83	5.57	7.34	6.43
3 cities, 1 year.....	4.84	3.47	3.94	5.44	5.68	5.59	10.28	9.15	9.53
35 to 44 years—									
Fall River, 3 years.....	2.37	2.44	2.41	3.56	6.72	5.34	5.93	9.16	7.75
3 cities, 1 year.....	3.46	.76	1.59	2.60	6.10	5.02	6.06	6.86	6.61
Other races:									
15 to 24 years—									
Fall River, 3 years.....	1.68	1.06	1.44	1.34	5.82	3.08	3.02	6.88	4.52
3 cities, 1 year.....	2.76	2.98	2.82	2.21	14.90	5.64	4.97	17.88	8.46
25 to 34 years—									
Fall River, 3 years.....	1.94	2.22	2.11	3.87	2.58	3.06	5.81	4.80	5.17
3 cities, 1 year.....	3.10	.78	1.78	2.06	5.47	4.00	5.16	6.25	5.78
35 to 44 years—									
Fall River, 3 years.....	7.07	.79	2.37	4.71	5.92	5.62	11.78	6.71	7.99
3 cities, 1 year.....	3.85	1.61	2.27	7.71	7.24	7.38	11.56	8.85	9.65
Total, 15 to 24 years:									
Fall River, 3 years.....	2.07	1.14	1.53	2.84	2.21	2.48	4.91	3.35	4.01
3 cities, 1 year.....	2.02	1.61	1.75	4.05	3.67	3.79	6.07	5.28	5.54
Total, 25 to 34 years:									
Fall River, 3 years.....	2.96	2.36	2.58	3.37	4.00	3.77	6.33	6.36	6.35
3 cities, 1 year.....	4.11	2.81	3.14	4.32	5.83	5.45	8.43	8.64	8.59
Total, 35 to 44 years:									
Fall River, 3 years.....	3.12	2.86	2.97	3.24	8.05	6.16	6.36	10.91	9.13
3 cities, 1 year.....	3.36	2.80	2.95	3.88	8.10	6.95	7.24	10.90	9.90

AGES 15 TO 44 YEARS.

TABLE 36.—DEATH RATES PER 1,000 POPULATION IN EACH 10-YEAR AGE GROUP, FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, BY SEX, OCCUPATION GROUPS, AND RACE, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

FEMALES.

Race, age group, locality, and period.	Tuberculous.			Nontuberculous.			All causes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
American:									
15 to 24 years—									
Fall River, 3 years.....	2.50	0.79	1.20	5.00	1.78	2.56	7.50	2.57	3.76
3 cities, 1 year.....	5.06	.59	1.18	2.53	2.14	2.19	7.59	2.73	3.37
25 to 34 years—									
Fall River, 3 years.....		.60	.55	4.57	2.97	3.10	4.57	3.57	3.65
3 cities, 1 year.....		.20	.20	7.78	3.08	3.31	7.78	3.28	3.51
35 to 44 years—									
Fall River, 3 years.....	6.29	.25	.48	.....	4.74	4.56	6.29	4.99	5.04
3 cities, 1 year.....	8.33	1.07	1.30	.....	4.81	4.66	8.33	5.88	5.96
English:									
15 to 24 years—									
Fall River, 3 years.....	.91	1.07	.98	2.04	.81	1.48	2.95	1.88	2.46
3 cities, 1 year.....	1.99	1.20	1.55	1.49	1.61	1.56	3.48	2.81	3.11
25 to 34 years—									
Fall River, 3 years.....	2.51	1.53	1.94	3.58	2.04	2.68	6.09	3.57	4.62
3 cities, 1 year.....	5.34	1.55	2.82	4.58	2.70	3.33	9.92	4.25	6.15
35 to 44 years—									
Fall River, 3 years.....	2.04	.....	.59	6.79	7.17	7.06	8.83	7.17	7.65
3 cities, 1 year.....	2.71	.....	.68	9.47	6.84	7.50	12.18	6.84	8.18
Irish:									
15 to 24 years—									
Fall River, 3 years.....	3.09	.92	1.73	1.54	2.07	1.87	4.63	2.99	3.60
3 cities, 1 year.....	2.29	1.43	1.66	2.29	1.14	1.46	4.58	2.57	3.12
25 to 34 years—									
Fall River, 3 years.....	6.57	4.24	5.42	4.50	7.07	5.77	11.07	11.31	11.19
3 cities, 1 year.....	8.60	5.27	6.48	3.97	7.16	6.00	12.57	12.43	12.48
35 to 44 years—									
Fall River, 3 years.....	4.54	1.16	2.53	12.47	12.39	12.42	17.01	13.55	14.95
3 cities, 1 year.....	7.81	3.32	4.79	10.73	13.28	12.45	18.54	16.60	17.24
French Canadian:									
15 to 24 years—									
Fall River, 3 years.....	2.95	.83	2.16	3.11	1.95	2.68	6.06	2.78	4.84
3 cities, 1 year.....	3.38	4.14	3.71	3.94	4.90	4.35	7.32	9.04	8.06
25 to 34 years—									
Fall River, 3 years.....	6.38	2.51	3.88	4.96	6.19	5.75	11.34	8.70	9.63
3 cities, 1 year.....	6.59	2.16	3.54	3.60	7.02	5.95	10.19	9.18	9.49
35 to 44 years—									
Fall River, 3 years.....	1.92	.66	.99	10.88	4.88	6.42	12.80	5.54	7.41
3 cities, 1 year.....	2.03	1.64	1.73	4.07	4.58	4.46	6.10	6.22	6.19
Other races:									
15 to 24 years—									
Fall River, 3 years.....	2.64	2.67	2.65	3.82	4.68	4.08	6.46	7.35	6.73
3 cities, 1 year.....	2.24	2.81	2.40	3.36	.....	2.40	5.60	2.81	4.80
25 to 34 years—									
Fall River, 3 years.....	2.30	1.68	1.73	5.77	3.46	3.96	8.07	5.04	5.69
3 cities, 1 year.....	1.91	2.44	2.31	1.91	3.04	2.77	3.82	5.48	5.08
35 to 45 years—									
Fall River, 3 years.....	7.17	1.43	1.95	3.58	2.87	2.93	10.75	4.30	4.88
3 cities, 1 year.....	5.59	2.07	2.46	.....	5.53	4.92	5.59	7.60	7.38
Total, 15 to 24 years:									
Fall River, 3 years.....	2.37	1.04	1.71	2.93	1.92	2.42	5.30	2.96	4.13
3 cities, 1 year.....	2.86	1.65	2.13	2.96	2.21	2.51	5.82	3.86	4.64
Total, 25 to 34 years:									
Fall River, 3 years.....	4.69	1.94	2.84	4.48	4.27	4.34	9.17	6.21	7.18
3 cities, 1 year.....	6.07	2.00	3.04	3.99	4.66	4.48	10.06	6.66	7.52
Total, 35 to 44 years:									
Fall River, 3 years.....	3.24	.63	1.23	9.55	6.11	6.90	12.79	6.74	8.13
3 cities, 1 year.....	4.59	1.51	2.12	7.22	5.62	6.73	11.81	8.13	8.85

AGES 15 TO 44 YEARS.

TABLE 36.—DEATH RATES PER 1,000 POPULATION IN EACH 10-YEAR AGE GROUP, FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, BY SEX, OCCUPATION GROUPS, AND RACE. FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

BOTH SEXES.

Race, age group, locality, and period.	Tuberculous.			Nontuberculous.			All causes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
American:									
15 to 24 years—									
Fall River, 3 years.....	2.90	1.16	1.55	4.71	1.36	2.11	7.61	2.52	3.66
3 cities, 1 year.....	4.82	.95	1.46	4.82	2.20	2.55	9.64	3.15	4.01
25 to 34 years—									
Fall River, 3 years.....	1.16	.94	.96	5.83	2.62	2.88	6.99	3.56	3.84
3 cities, 1 year.....	1.78	.43	.51	10.68	3.61	4.02	12.46	4.04	4.53
35 to 44 years—									
Fall River, 3 years.....	5.37	.13	.37	2.69	3.76	3.72	8.06	3.89	4.09
3 cities, 1 year.....	3.29	1.12	1.21	3.29	4.76	4.70	6.58	5.88	5.91
English:									
15 to 24 years—									
Fall River, 3 years.....	1.42	1.36	1.39	2.33	1.64	1.99	3.75	3.00	3.38
3 cities, 1 year.....	2.10	2.02	2.05	2.99	2.02	2.41	5.09	4.04	4.46
25 to 34 years—									
Fall River, 3 years.....	1.78	1.68	1.72	2.50	3.07	2.82	4.28	4.75	4.54
3 cities, 1 year.....	4.13	1.42	2.32	2.48	4.07	3.54	6.61	5.49	5.86
35 to 44 years—									
Fall River, 3 years.....	2.09	.54	1.21	3.49	7.50	5.76	5.58	8.04	6.97
3 cities, 1 year.....	1.60	1.07	1.24	4.28	7.46	6.40	5.88	8.53	7.64
Irish:									
15 to 24 years—									
Fall River, 3 years.....	2.79	1.15	1.70	2.29	2.16	2.20	5.08	3.31	3.90
3 cities, 1 year.....	1.57	1.75	1.71	1.57	2.22	2.07	3.14	3.97	3.78
25 to 34 years—									
Fall River, 3 years.....	7.00	4.65	5.62	5.79	6.54	6.23	12.79	11.19	11.85
3 cities, 1 year.....	8.09	6.61	7.04	5.24	8.16	7.31	13.33	14.77	14.35
35 to 44 years—									
Fall River, 3 years.....	4.07	6.71	5.45	8.15	18.15	13.37	12.22	24.86	18.82
3 cities, 1 year.....	7.37	6.58	6.85	8.95	15.90	13.53	16.32	22.48	20.38
French Canadian:									
15 to 24 years—									
Fall River, 3 years.....	2.52	.39	1.61	3.20	1.80	2.60	5.72	2.19	4.21
3 cities, 1 year.....	2.51	2.02	2.26	4.30	4.53	4.42	6.81	6.55	6.68
25 to 34 years—									
Fall River, 3 years.....	4.55	2.30	3.27	3.49	5.85	4.83	8.04	8.15	8.10
3 cities, 1 year.....	5.72	2.76	3.73	4.51	6.40	5.78	10.23	9.16	9.51
35 to 44 years—									
Fall River, 3 years.....	2.20	1.41	1.69	6.35	5.65	5.89	8.55	7.06	7.58
3 cities, 1 year.....	2.80	1.23	1.66	3.27	5.28	4.73	6.07	6.51	6.39
Other races:									
15 to 24 years—									
Fall River, 3 years.....	2.19	1.77	2.05	2.66	5.32	3.58	4.85	7.09	5.63
3 cities, 1 year.....	2.50	2.89	2.61	2.78	7.23	4.02	5.28	10.12	6.63
25 to 34 years—									
Fall River, 3 years.....	2.07	1.87	1.93	4.56	3.06	3.49	6.63	4.93	5.42
3 cities, 1 year.....	2.68	1.71	2.04	2.01	4.11	3.40	4.69	5.82	5.44
35 to 44 years—									
Fall River, 3 years.....	7.09	1.13	2.17	4.43	4.32	4.34	11.52	5.45	6.51
3 cities, 1 year.....	4.30	1.86	2.36	5.73	6.32	6.20	10.03	8.18	8.56
Total, 15 to 24 years:									
Fall River, 3 years.....	2.25	1.09	1.63	2.89	2.06	2.45	5.14	3.15	4.08
3 cities, 1 year.....	2.52	1.63	1.96	3.40	2.92	3.09	5.92	4.55	5.05
Total, 25 to 34 years:									
Fall River, 3 years.....	3.82	2.18	2.72	3.93	4.15	4.07	7.75	6.28	6.79
3 cities, 1 year.....	5.16	2.38	3.08	4.14	5.21	4.94	9.30	7.59	8.02
Total, 35 to 44 years:									
Fall River, 3 years.....	3.17	1.58	2.07	5.67	6.93	6.54	8.84	8.51	8.61
3 cities, 1 year.....	3.91	2.09	2.51	5.35	7.29	6.84	9.26	9.38	9.35

AGES 15 TO 44 YEARS.

TABLE 37.—DEATH RATES PER 1,000 POPULATION IN SPECIFIED AGE GROUPS, FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, OF IRISH AND NONIRISH, BY SEX AND OCCUPATION GROUPS, AND PER CENT BY WHICH DEATH RATES OF IRISH ARE MORE OR LESS THAN THOSE OF NONIRISH, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR AND 3 YEARS.

IRISH.

Cause of death, age group, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
TUBERCULOUS.									
15 to 24 years:									
Fall River.....	{ 1 year.....	1.72	1.24	2.32	2.07	2.16	1.52	1.91	1.78
	{ 3 years.....	2.22	1.43	1.65	3.09	.92	1.73	2.79	1.15
3 cities.....	{ 1 year.....		2.14	1.77	2.29	1.43	1.66	1.57	1.75
	{ 3 years.....	2.22	2.14	2.16	3.31	.86	1.52	2.97	1.43
25 to 44 years:									
Fall River.....	{ 1 year.....	7.58	12.21	10.27	5.80	4.44	5.06	6.52	7.93
	{ 3 years.....	5.36	8.82	7.38	5.80	2.77	4.17	5.63	5.49
3 cities.....	{ 1 year.....	6.83	9.18	8.56	8.28	4.41	5.75	7.75	6.90
	{ 3 years.....	5.24	7.78	7.10	6.44	3.15	4.29	6.00	5.27
30 to 39 years:									
Fall River.....	{ 1 year.....	8.76	15.45	12.47	3.96	4.54	4.27	6.02	9.41
	{ 3 years.....	6.42	13.58	10.39	5.28	3.78	4.47	5.77	8.16
3 cities.....	{ 1 year.....	7.68	12.45	11.12	7.88	5.70	6.48	7.80	8.86
	{ 3 years.....	5.55	9.96	8.72	6.57	3.80	4.79	6.18	6.69
NONTUBERCULOUS.									
15 to 24 years:									
Fall River.....	{ 1 year.....		3.43	2.48		.69		.43	
	{ 3 years.....	3.71	2.29	2.69	1.54	2.07	1.87	2.29	2.16
3 cities.....	{ 1 year.....		3.57	2.94	2.29	1.14	1.46	1.57	2.22
	{ 3 years.....	3.34			2.28			2.61	
25 to 44 years:									
Fall River.....	{ 1 year.....	7.57	16.28	12.65	7.73	7.76	7.75	7.67	11.59
	{ 3 years.....	6.00	13.34	10.27	7.52	9.61	8.64	6.90	11.19
3 cities.....	{ 1 year.....	7.51	13.16	11.65	6.70	9.87	8.77	7.00	11.37
	{ 3 years.....	5.92			6.31			6.17	
30 to 39 years:									
Fall River.....	{ 1 year.....	7.00	22.47	15.59	9.25	4.53	6.71	8.29	12.55
	{ 3 years.....	7.01	16.85	12.47	7.93	7.56	7.73	7.53	11.71
3 cities.....	{ 1 year.....	7.68	16.43	13.97	7.88	7.90	7.89	7.81	11.90
	{ 3 years.....	7.68			6.30			6.83	
ALL CAUSES.									
15 to 24 years:									
Fall River.....	{ 1 year.....		5.15	3.72	2.32	2.76	2.59	1.52	3.82
	{ 3 years.....	5.93	3.72	4.34	4.63	2.99	3.60	5.08	3.31
3 cities.....	{ 1 year.....		5.71	4.71	4.58	2.57	3.12	3.14	3.97
	{ 3 years.....	5.56			5.59			5.58	
25 to 44 years:									
Fall River.....	{ 1 year.....	15.15	28.49	22.92	13.53	12.20	12.81	14.19	19.52
	{ 3 years.....	11.36	22.16	17.65	13.32	12.38	12.81	12.53	16.78
3 cities.....	{ 1 year.....	14.34	22.34	20.21	14.98	14.28	14.52	14.75	17.97
	{ 3 years.....	11.16			12.75			12.17	
30 to 39 years:									
Fall River.....	{ 1 year.....	15.76	37.92	28.06	13.21	9.07	10.98	14.31	21.96
	{ 3 years.....	13.43	30.43	22.86	13.21	11.34	12.20	13.30	19.87
3 cities.....	{ 1 year.....	15.36	28.88	25.09	15.76	13.60	14.37	15.61	20.76
	{ 3 years.....	13.23			12.87			13.01	

AGES 15 TO 44 YEARS.

TABLE 37.—DEATH RATES PER 1,000 POPULATION IN SPECIFIED AGE GROUPS, FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, OF IRISH AND NONIRISH, BY SEX AND OCCUPATION GROUPS, AND PER CENT BY WHICH DEATH RATES OF IRISH ARE MORE OR LESS THAN THOSE OF NONIRISH, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR AND 3 YEARS—Continued.

NONIRISH.

Cause of death, age group, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
TUBERCULOUS.									
15 to 24 years:									
Fall River.....	1 year... 2.57	1.27	1.86	2.70	1.73	2.24	2.65	1.50	2.06
	3 years... 2.06	1.06	1.51	2.25	1.08	1.70	2.17	1.07	1.61
3 cities.....	1 year... 2.23	1.48	1.74	2.95	1.73	2.25	2.65	1.60	2.01
	3 years... 1.72	1.17	1.36	2.50	1.27	1.79	2.17	1.22	1.59
25 to 44 years:									
Fall River.....	1 year... 3.01	1.65	2.15	5.48	1.02	2.11	4.02	1.30	2.13
	3 years... 2.54	1.49	1.88	3.46	1.09	1.67	2.92	1.27	1.77
3 cities.....	1 year... 3.13	1.51	1.93	4.33	1.25	1.86	3.67	1.37	1.90
	3 years... 2.51	1.56	1.81	3.17	1.23	1.62	2.81	1.38	1.71
30 to 39 years:									
Fall River.....	1 year... 3.95	1.86	2.63	6.72	1.32	2.59	5.04	1.56	2.61
	3 years... 3.16	2.01	2.44	4.07	1.26	1.92	3.52	1.60	2.18
3 cities.....	1 year... 4.01	1.67	2.27	5.11	1.49	2.20	4.49	1.58	2.23
	3 years... 3.05	1.77	2.10	3.28	1.35	1.72	3.15	1.55	1.91
NONTUBERCULOUS.									
15 to 24 years:									
Fall River.....	1 year... 4.88	2.55	3.60	3.68	1.51	2.66	4.19	2.04	3.10
	3 years... 2.74	2.20	2.44	3.16	1.88	2.55	2.98	2.04	2.50
3 cities.....	1 year... 4.46	3.69	3.96	3.07	2.54	2.77	3.65	3.12	3.32
	3 years... 2.40			2.70			2.58		
25 to 44 years:									
Fall River.....	1 year... 2.40	5.30	4.23	5.78	3.82	4.29	3.79	4.47	4.26
	3 years... 2.74	4.44	3.81	5.68	4.37	4.69	3.94	4.40	4.26
3 cities.....	1 year... 3.41	5.53	4.98	4.49	4.64	4.62	3.90	5.05	4.79
	3 years... 2.94			3.98			3.41		
30 to 39 years:									
Fall River.....	1 year... 1.98	4.41	3.51	7.94	4.52	5.33	4.32	4.47	4.43
	3 years... 2.64	4.57	3.85	6.52	4.46	4.95	4.16	4.50	4.40
3 cities.....	1 year... 2.86	4.62	4.17	5.83	5.28	5.38	4.17	4.97	4.79
	3 years... 2.77			4.50			3.53		
ALL CAUSES.									
15 to 24 years:									
Fall River.....	1 year... 7.45	3.82	5.46	6.38	3.24	4.90	6.84	3.54	5.16
	3 years... 4.80	3.26	3.95	5.41	2.96	4.25	5.15	3.11	4.11
3 cities.....	1 year... 6.69	5.17	5.70	6.02	4.27	5.02	6.30	4.72	5.34
	3 years... 4.12			5.20			4.75		
25 to 44 years:									
Fall River.....	1 year... 5.41	6.95	6.38	11.26	4.84	6.40	7.81	5.77	6.39
	3 years... 5.28	5.93	5.69	9.14	5.46	6.36	6.86	5.67	6.03
3 cities.....	1 year... 6.54	7.04	6.91	8.82	5.89	6.48	7.57	6.42	6.69
	3 years... 5.45			7.15			6.22		
30 to 39 years:									
Fall River.....	1 year... 5.93	6.27	6.14	14.66	5.84	7.92	9.36	6.03	7.04
	3 years... 5.80	6.58	6.29	10.59	5.72	6.87	7.68	6.10	6.58
3 cities.....	1 year... 6.87	6.29	6.44	10.94	6.77	7.58	8.66	6.55	7.02
	3 years... 5.82			7.78			6.68		

AGES 15 TO 44 YEARS.

TABLE 37.—DEATH RATES PER 1,000 POPULATION IN SPECIFIED AGE GROUPS, FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, OF IRISH AND NONIRISH, BY SEX AND OCCUPATION GROUPS, AND PER CENT BY WHICH DEATH RATES OF IRISH ARE MORE OR LESS THAN THOSE OF NONIRISH, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR AND 3 YEARS—Concluded.

PER CENT OF DIFFERENCE.

Cause of death, age group, locality, and period.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
TUBERCULOUS.									
15 to 24 years:									
Fall River.....	1 year.....	+ 35	- 33	- 14	+ 20	- 4	- 43	+ 27	- 14
	3 years.....	+ 8	+ 35	+ 9	+ 37	+ 2	+ 29	+ 7	+ 6
3 cities.....	1 year.....		+ 45	+ 2	- 22	- 17	- 26	+ 9	- 15
	3 years.....	+ 29	+ 83	+ 59	+ 32	- 32	- 15	+ 37	+ 13
25 to 44 years:									
Fall River.....	1 year.....	+152	+640	+378	+ 6	+335	+140	+ 62	+510
	3 years.....	+111	+492	+293	+ 68	+154	+150	+ 93	+332
3 cities.....	1 year.....	+118	+508	+344	+ 91	+253	+209	+111	+382
	3 years.....	+109	+399	+292	+103	+156	+165	+114	+282
30 to 39 years:									
Fall River.....	1 year.....	+122	+731	+374	- 41	+244	+ 65	+ 19	+503
	3 years.....	+103	+576	+326	+ 30	+200	+133	+ 64	+410
3 cities.....	1 year.....	+ 92	+646	+390	+ 54	+283	+195	+ 74	+461
	3 years.....	+ 82	+463	+315	+100	+181	+178	+ 96	+332
NONTUBERCULOUS.									
15 to 24 years:									
Fall River.....	1 year.....	+ 35	- 31	.....	- 54	- 84	.....	- 6	- 59
	3 years.....	+ 35	+ 4	+ 10	- 51	+ 10	- 27	+ 6	- 12
3 cities.....	1 year.....		- 3	- 26	- 25	- 55	- 47	- 29	- 38
	3 years.....	+ 39	.....	.....	- 16	.....	+ 1	.....	.....
25 to 44 years:									
Fall River.....	1 year.....	+215	+207	+199	+ 34	+103	+ 81	+102	+159
	3 years.....	+119	+200	+170	+ 32	+120	+ 84	+ 75	+157
3 cities.....	1 year.....	+120	+138	+134	+ 49	+113	+ 90	+ 79	+125
	3 years.....	+101	.....	.....	+ 59	.....	+ 81	.....	.....
30 to 39 years:									
Fall River.....	1 year.....	+254	+410	+344	+ 16	(a)	+ 26	+ 92	+181
	3 years.....	+166	+269	+224	+ 22	+ 70	+ 56	+ 81	+160
3 cities.....	1 year.....	+169	+256	+235	+ 35	+ 50	+ 47	+ 87	+139
	3 years.....	+177	.....	.....	+ 40	.....	+ 93	.....	.....
ALL CAUSES.									
15 to 24 years:									
Fall River.....	1 year.....	+ 35	- 32	- 64	- 15	- 47	- 78	+ 8	- 41
	3 years.....	+ 24	+ 10	- 14	+ 1	- 15	- 1	+ 6	- 5
3 cities.....	1 year.....		+ 10	- 17	- 24	- 40	- 38	- 16	- 29
	3 years.....	+ 35	.....	+ 8	.....	.....	+ 17	.....	.....
25 to 44 years:									
Fall River.....	1 year.....	+180	+310	+259	+ 20	+152	+100	+ 82	+238
	3 years.....	+115	+274	+210	+ 46	+127	+101	+ 83	+196
3 cities.....	1 year.....	+119	+217	+192	+ 70	+142	+124	+ 95	+180
	3 years.....	+105	.....	.....	+ 78	.....	+ 96	.....	.....
30 to 39 years:									
Fall River.....	1 year.....	+166	+505	+357	- 10	+ 55	+ 39	+ 53	+264
	3 years.....	+132	+362	+263	+ 25	+ 98	+ 78	+ 73	+226
3 cities.....	1 year.....	+124	+359	+290	+ 44	+101	+ 90	+ 80	+217
	3 years.....	+127	.....	.....	+ 65	.....	+ 95	.....	.....

• Less than one-half of 1 per cent.

AGES 15 TO 44 YEARS.

DECEDENTS DYING FROM TUBERCULOUS AND NONTUBERCULOUS DEATH RATES, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER,

PER CENT BY WHICH DEATH RATES IN EACH OCCUPATION GROUP ARE MORE OR LESS THAN FOR TOTAL ALL OCCUPATIONS, BY SEX.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
POPULATION.									
Fall River.....									
3 cities.....									
DEATHS.									
Tuberculous:									
Fall River, 3 years.....	+15	-11	b 2.28	+62	-38	b 1.97	+38	-24	b 2.11
3 cities, 1 year.....	+18	-7	b 2.56	+68	-29	b 2.44	+45	-18	b 2.49
Nontuberculous:									
Fall River, 3 years.....	-20	+14	b 3.91	+5	-3	b 4.21	-7	+4	b 4.07
3 cities, 1 year.....	-22	+9	b 5.22	-7	+4	b 4.28	-14	+6	b 4.72
All causes:									
Fall River, 3 years....	-7	+5	b 6.19	+23	-14	b 6.18	+9	-5	b 6.18
3 cities, 1 year.....	-9	+3	b 7.78	+21	-9	b 6.72	+6	-2	b 7.21

PER CENT BY WHICH DEATH RATES IN EACH SEX AND OCCUPATION GROUP ARE MORE OR LESS THAN FOR TOTAL ALL OCCUPATIONS, BOTH SEXES.

POPULATION.									
Fall River.....									
3 cities.....									
DEATHS.									
Tuberculous:									
Fall River, 3 years.....	+25	-3	+8	+52	-42	-7	+38	-24	b 2.11
3 cities, 1 year.....	+21	-5	+3	+65	-30	-2	+45	-18	b 2.49
Nontuberculous:									
Fall River, 3 years.....	-24	+9	-4	+9	+(c)	+3	-7	+4	b 4.07
3 cities, 1 year.....	-13	+20	+11	-15	-7	-9	-14	+6	b 4.72
All causes:									
Fall River, 3 years....	-7	+5	+(c)	+23	-14	0	+9	-5	b 6.18
3 cities, 1 year.....	-2	+12	+8	+12	-15	-7	+6	-2	b 7.21

PER CENT BY WHICH DEATH RATES IN EACH OCCUPATION AND CAUSE OF DEATH GROUP ARE MORE OR LESS THAN FOR ALL CAUSES AND OCCUPATIONS, BY SEX.

DEATHS.									
Tuberculous:									
Fall River, 3 years.....	-49	-59	-55	-28	-34	-32	-53	-74	-66
3 cities, 1 year.....	-62	-70	-67	-39	-74	-69	-50	-72	-65
Nontuberculous:									
Fall River, 3 years.....	-40	-13	-24	-48	-80	-68	-39	-31	-34
3 cities, 1 year.....	-35	-27	-33	-41	-35	-36	-44	-31	-35
All causes:									
Fall River, 3 years....	-7	+5	b 6.19	+23	-14	b 6.18	+9	-5	b 6.18
3 cities, 1 year.....	-9	+3	b 7.78	+21	-9	b 6.72	+6	-2	b 7.21

PER CENT BY WHICH DEATH RATES IN EACH SEX, OCCUPATION, AND CAUSE OF DEATH GROUP ARE MORE OR LESS THAN FOR TOTAL ALL CLASSES.

DEATHS.									
Tuberculous:									
Fall River, 3 years.....	-57	-67	-63	-48	-80	-68	-53	-74	-66
3 cities, 1 year.....	-58	-67	-64	-43	-76	-66	-50	-72	-65
Nontuberculous:									
Fall River, 3 years.....	-50	-28	-37	-28	-34	-32	-39	-31	-34
3 cities, 1 year.....	-43	-21	-28	-45	-39	-41	-44	-31	-35
All causes:									
Fall River, 3 years....	-7	+5	+(c)	+23	-14	0	+9	-5	b 6.18
3 cities, 1 year.....	-2	+12	+8	+12	-15	-7	+6	-2	b 7.21

c Less than one-tenth of 1 per cent.

AGES 15 TO 44 YEARS.

TABLE 39.—PER CENT IN EACH SEX AND RACE GROUP OF TOTAL POPULOUS CAUSES, FOR AGE GROUPS 15 TO 44 YEARS AND 10 YEARS AND PAWTUCKET).

POPULATION.

Race and locality.	Males.		Females.		Both sexes.	
	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.
All non-Irish races:						
Fall River.....	42	44	40	37	82	81
3 cities.....	39	41	43	40	82	81
Irish:						
Fall River.....	7	8	11	11	18	19
3 cities.....	6	7	12	12	18	19
American:						
Fall River.....	3	3	4	3	7	6
3 cities.....	4	4	3	3	7	7
English:						
Fall River.....	14	16	13	13	27	29
3 cities.....	11	13	12	12	23	25

DEATHS.

Race, locality, and period.	Tuberculous.					
	Males.		Females.		Both sexes.	
	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.
All non-Irish races:						
Fall River.....	f1 year... 32	33	43	39	75	72
	3 years... 33	34	38	35	71	69
3 cities.....	f1 year... 30	30	42	39	72	69
	3 years... 29	30	40	38	69	68
Irish:						
Fall River.....	f1 year... 11	13	14	15	25	28
	3 years... 11	12	18	19	29	31
3 cities.....	f1 year... 8	10	21	21	29	31
	3 years... 9	11	22	21	31	32
American:						
Fall River.....	f1 year... 5	4	4	4	9	8
	3 years... 3	3	3	2	6	5
3 cities.....	f1 year... 4	3	4	5	8	8
	3 years... 3	3	4	4	7	7
English:						
Fall River.....	f1 year... 6	8	12	11	18	19
	3 years... 9	9	7	8	16	17
3 cities.....	f1 year... 6	8	11	10	17	18
	3 years... 7	8	8	8	15	16
French Canadian:						
Fall River.....	f1 year... 13	14	21	18	34	32
	3 years... 14	14	21	19	35	33
3 cities.....	f1 year... 12	12	21	19	33	31
	3 years... 12	11	22	21	34	32
Other races:						
Fall River.....	f1 year... 8	7	6	6	14	13
	3 years... 7	8	7	6	14	14
3 cities.....	f1 year... 8	7	5	5	13	12
	3 years... 7	8	6	5	13	13
Total, all races:						
Fall River.....	f1 year... 43	46	57	54	a 77	a 87
	3 years... 44	46	56	54	a 188	a 206
3 cities.....	f1 year... 38	40	62	60	a 118	a 131
	3 years... 38	41	62	59	a 288	a 319

a Total on which per cents are based.

AGES 15 TO 44 YEARS.

ULATION AND OF TOTAL DEATHS FROM TUBERCULOUS AND NONTU-
AND OVER, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER,

POPULATION.

Race and locality.	Males.		Females.		Both sexes.	
	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.
French Canadian:						
Fall River.....	17	17	16	15	33	32
3 cities.....	15	15	19	18	34	33
Other races:						
Fall River.....	8	8	7	6	15	14
3 cities.....	10	9	8	7	18	16
All races:						
Fall River.....	49	52	51	48	a 21,444	a 25,158
3 cities.....	46	48	54	52	a 32,686	a 38,445

DEATHS.

Nontuberculous.						All causes.					
Males.		Females.		Both sexes.		Males.		Females.		Both sexes.	
15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.
34	40	44	34	78	74	34	37	43	36	77	73
30	39	44	34	74	73	31	37	42	34	73	71
38	41	39	31	77	72	34	37	40	34	74	71
32	41	41	31	73	72	30	37	41	34	71	71
9	13	13	13	22	26	9	13	14	14	23	27
10	12	16	15	26	27	10	12	17	17	27	29
8	13	15	15	23	28	8	12	18	17	26	29
10	12	17	16	27	28	10	11	19	18	29	29
5	4	4	4	9	8	5	4	4	4	9	8
4	3	4	4	8	7	3	3	4	3	7	6
8	6	3	4	11	10	6	5	3	4	9	9
4	6	5	4	9	10	4	5	4	4	8	9
4	16	11	10	15	26	6	13	11	11	17	24
7	17	12	11	19	28	8	14	10	10	18	24
6	15	12	11	18	26	6	12	12	11	18	23
8	16	12	11	20	27	7	13	11	10	18	23
18	14	21	15	39	29	16	14	21	16	37	30
13	13	20	14	33	27	13	13	21	16	34	29
17	13	18	13	35	26	19	13	20	15	39	28
13	10	17	12	30	22	12	11	20	15	32	26
7	6	8	5	15	11	7	6	7	5	14	11
6	6	8	5	14	11	7	7	7	5	14	12
7	7	6	3	13	10	8	7	5	4	13	11
7	9	7	4	14	13	7	8	6	5	13	13
43	53	57	47	a 90	a 148	43	50	57	50	a 167	a 235
40	51	60	49	a 244	a 380	41	49	59	51	a 432	a 586
46	54	54	46	a 132	a 222	42	49	58	51	a 250	a 353
42	53	58	47	a 328	a 554	40	48	60	52	a 616	a 873

AGES 15 TO 44 YEARS.

TABLE 40.—PER CENT IN EACH SEX, OCCUPATION, AND RACE GROUP FOR AGE GROUPS 15 TO 44 YEARS AND 10 YEARS AND OVER, FALL POPULATION.

Race, locality, and period.	Males.					
	Operatives.		Nonoperatives.		Both classes.	
	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.
All non-Irish races:						
Fall River.....	16	12	23	27	39	39
3 cities.....	11	9	28	30	39	39
Irish:						
Fall River.....	3	3	5	5	8	8
3 cities.....	2	2	6	6	8	8
American:						
Fall River.....	1	1	8	7	9	8
3 cities.....	1	1	11	11	12	12
English:						
Fall River.....	5	4	5	6	10	10
3 cities.....	3	3	6	6	9	9
French Canadian:						
Fall River.....	7	5	6	8	13	13
3 cities.....	4	3	8	9	12	12
Other races:						
Fall River.....	3	2	4	6	7	8
3 cities.....	3	2	3	4	6	6
Total, all races:						
Fall River.....	19	15	28	32	47	47
3 cities.....	13	11	34	36	47	47

DEATHS FROM TUBERCULOSIS.

All non-Irish races:						
Fall River.....	1 year... 17	16	14	14	31	30
	3 years... 18	15	15	17	33	32
3 cities.....	1 year... 13	11	16	9	29	30
	3 years... 12	10	18	21	30	31
Irish:						
Fall River.....	1 year... 6	6	13	17	19	23
	3 years... 5	6	13	15	18	21
3 cities.....	1 year... 3	3	16	17	19	20
	3 years... 3	4	17	16	20	20
American:						
Fall River.....	1 year... 3	2	2	3	5	5
	3 years... 1	1	4	5	5	6
3 cities.....	1 year... 1	1	5	6	6	7
	3 years... 1	1	6	7	7	8
English:						
Fall River.....	1 year... 3	4	5	5	8	9
	3 years... 5	4	4	5	9	9
3 cities.....	1 year... 3	3	4	5	7	8
	3 years... 3	2	4	5	7	7
French Canadian:						
Fall River.....	1 year... 7	7	5	4	12	11
	3 years... 7	6	5	4	12	10
3 cities.....	1 year... 5	4	5	6	10	10
	3 years... 5	4	6	6	11	10
Other races:						
Fall River.....	1 year... 4	3	2	2	6	5
	3 years... 5	4	2	3	7	7
3 cities.....	1 year... 4	3	2	2	6	5
	3 years... 3	3	2	3	5	6
Total, all races:						
Fall River.....	1 year... 23	22	27	31	50	53
	3 years... 23	21	28	32	51	53
3 cities.....	1 year... 16	14	32	36	48	50
	3 years... 15	14	35	37	50	51

* Total on which per cents are based.

AGES 15 TO 44 YEARS.

OF TOTAL POPULATION AND OF TOTAL DEATHS FROM TUBERCULOSIS
RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).

POPULATION.

Females.						Both sexes.					
Operatives.		Nonoperatives.		Both classes.		Operatives.		Nonoperatives.		Both classes.	
15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.	15 to 44 years.	10 years and over.
15	11	28	32	43	43	31	23	51	59	82	82
13	9	29	33	42	42	24	18	57	63	81	81
4	3	6	7	10	10	7	6	11	12	18	18
3	2	8	9	11	11	5	4	14	15	19	19
1	1	8	9	9	10	2	2	16	16	18	18
1	1	12	12	13	13	2	2	23	23	25	25
5	4	7	8	12	12	10	8	12	14	22	22
4	3	6	7	10	10	7	6	12	13	19	19
6	4	8	10	14	14	13	9	14	18	27	27
6	4	8	10	14	14	10	7	16	19	26	26
3	2	5	5	8	7	6	4	9	11	15	15
2	1	3	4	5	5	5	3	6	8	11	11
19	14	34	39	53	53	38	29	62	71	85,911	85,666
16	11	37	42	53	53	29	22	71	78	112,725	172,861

DEATHS FROM TUBERCULOSIS.

22	19	13	13	35	32	39	35	27	27	66	62
20	16	14	16	34	32	38	31	29	33	67	64
17	14	17	18	34	32	30	25	33	37	63	62
16	13	18	20	34	33	28	23	36	41	64	64
8	7	7	8	15	15	14	13	20	25	34	38
10	8	5	7	15	15	15	14	18	22	33	36
9	8	9	10	18	18	12	11	25	27	37	38
9	7	7	9	16	16	12	11	24	25	36	36
2	2	2	3	4	5	5	4	4	6	9	10
2	1	2	3	4	4	3	2	6	8	9	10
2	2	3	4	5	6	3	3	8	10	11	13
2	1	4	6	6	7	3	2	10	13	13	15
6	6	3	3	9	9	9	10	8	8	17	18
4	4	3	4	7	8	9	8	7	9	16	17
4	4	3	3	7	7	7	7	7	8	14	15
3	3	3	4	6	7	6	5	7	9	13	14
10	8	5	4	15	12	17	15	10	8	27	23
11	8	5	5	16	13	18	14	10	9	28	23
9	7	8	8	17	15	14	11	13	14	27	25
9	7	8	8	17	15	14	11	14	14	28	25
4	3	3	3	7	6	8	6	5	5	13	11
3	3	4	4	7	7	8	7	6	7	14	14
2	1	3	3	5	4	6	4	5	5	11	9
2	2	3	2	5	4	5	5	5	5	10	10
30	26	20	21	50	47	53	48	47	52	147	182
30	24	19	23	49	47	53	45	47	55	234	466
26	22	26	28	52	50	42	36	58	64	281	360
25	20	25	29	50	49	40	34	60	66	713	953

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 41.—POPULATION, DEATHS, AND DEATH RATES PER 1,000 POP TUBERCULOUS CAUSES, OF OPERATIVES AND NONOPERATIVES, FOR CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

POPULATION.

Age group and locality.	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
10 to 14 years:									
Fall River.....	291	4,985	5,276	232	5,161	5,393	523	10,146	10,669
3 cities.....	340	9,825	10,165	302	9,929	10,231	642	19,754	20,396
15 to 24 years:									
Fall River.....	4,342	5,874	10,216	6,039	6,075	12,114	10,381	11,949	22,330
3 cities.....	6,428	13,625	20,053	9,448	14,496	23,944	15,876	28,121	43,997
25 to 34 years:									
Fall River.....	3,267	5,659	8,926	3,271	6,713	9,984	6,538	12,372	18,910
3 cities.....	4,628	13,536	18,164	5,269	15,465	20,734	9,897	29,001	38,898
35 to 44 years:									
Fall River.....	2,779	4,307	7,086	1,746	5,839	7,585	4,525	10,146	14,671
3 cities.....	3,866	10,370	14,236	3,047	12,547	15,594	6,913	22,917	29,830
45 to 54 years:									
Fall River.....	1,619	2,940	4,559	682	4,464	5,146	2,301	7,404	9,705
3 cities.....	2,331	7,107	9,438	1,290	9,296	10,586	3,621	16,403	20,024
55 to 64 years:									
Fall River.....	574	2,092	2,666	161	2,904	3,065	735	4,996	5,731
3 cities.....	891	4,464	5,355	316	5,971	6,287	1,207	10,435	11,642

DEATHS, TUBERCULOUS.

Age group, locality, and period.	Number of deaths.								
	Males.			Females.			Both sexes.		
	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.	Opera- tives.	Non- opera- tives.	Both classes.
10 to 14 years:									
Fall River, 3 years.....					8	8		8	8
3 cities, 1 year.....				1	3	4	1	3	4
15 to 24 years:									
Fall River, 3 years.....	27	20	47	43	19	62	70	39	109
3 cities, 1 year.....	13	22	35	27	24	51	40	46	86
25 to 34 years:									
Fall River, 3 years.....	29	40	69	46	39	85	75	79	154
3 cities, 1 year.....	19	38	57	32	31	63	51	69	120
35 to 44 years:									
Fall River, 3 years.....	26	37	63	17	11	28	43	48	91
3 cities, 1 year.....	13	29	42	14	19	33	27	48	75
45 to 54 years:									
Fall River, 3 years.....	7	28	35	6	17	23	13	45	58
3 cities, 1 year.....	6	19	25	4	6	10	10	25	35
55 to 64 years:									
Fall River, 3 years.....	5	15	20		10	10	5	25	30
3 cities, 1 year.....	2	11	13		13	13	2	24	26
65 years and over:									
Fall River, 3 years.....		12	12		4	4		16	16
3 cities, 1 year.....		8	8		6	6		14	14
Total 10 years and over:									
Fall River, 3 years.....	94	152	246	112	108	220	206	260	466
3 cities, 1 year.....	53	127	180	78	102	180	131	229	360
15 to 44 years:									
Fall River, 3 years.....	82	97	179	106	69	175	188	166	354
3 cities, 1 year.....	45	89	134	73	74	147	118	163	281
45 to 64 years:									
Fall River, 3 years.....	12	43	55	6	27	33	18	70	88
3 cities, 1 year.....	8	30	38	4	19	23	12	49	61

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

ULATION 10 YEARS OF AGE AND OVER FROM TUBERCULOUS AND NON-TUBERCULOUS, EACH 10-YEAR AGE GROUP, BY SEX, FALL RIVER, 1905 TO 1907, AND 3

POPULATION.

Age group and locality.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
65 years and over:									
Fall River.....	138	1,468	1,606	17	2,027	2,044	155	3,495	3,650
3 cities.....	247	3,268	3,515	45	4,514	4,559	292	7,782	8,074
Total 10 years and over:									
Fall River.....	13,010	27,325	40,335	12,148	33,183	45,331	25,158	60,508	85,666
3 cities.....	18,731	62,195	80,926	19,717	72,218	91,935	38,448	134,413	172,861
15 to 44 years:									
Fall River.....	10,388	15,840	26,228	11,056	18,627	29,683	21,444	34,467	55,911
3 cities.....	14,922	37,531	52,453	17,764	42,508	60,272	32,686	80,039	112,725
45 to 64 years:									
Fall River.....	2,193	5,032	7,225	843	7,368	8,211	3,036	12,400	15,436
3 cities.....	3,222	11,571	14,793	1,606	15,267	16,873	4,828	26,838	31,666

DEATHS, TUBERCULOUS.

Death rate per 1,000 population.								
Males.			Females.			Both sexes.		
Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.
				0.52	0.50		0.26	0.25
			3.31	.30	.39	1.56	.15	.20
2.07	1.14	1.53	2.37	1.04	1.71	2.25	1.09	1.63
2.02	1.61	1.75	2.86	1.65	2.13	2.52	1.63	1.96
2.96	2.36	2.58	4.69	1.94	2.84	3.82	2.13	2.72
4.11	2.81	3.14	6.07	2.00	3.04	5.16	2.38	3.08
3.12	2.86	2.97	3.24	.63	1.23	3.17	1.58	2.07
3.36	2.80	2.95	4.59	1.51	2.12	3.91	2.09	2.51
1.44	3.17	2.56	2.93	1.27	1.49	1.89	2.03	1.99
2.58	2.67	2.65	3.10	.65	.95	2.76	1.52	1.75
2.90	2.39	2.50	.....	1.15	1.09	2.27	1.67	1.75
2.24	2.46	2.43	.....	2.18	2.07	1.66	2.30	2.23
	2.72	2.49	.....	.66	.65	.....	1.53	1.46
	2.45	2.27	.....	1.33	1.32	.....	1.80	1.73
2.41	1.85	2.03	3.07	1.09	1.62	2.73	1.43	1.81
2.83	2.04	2.22	3.96	1.41	1.96	3.41	1.71	2.08
2.63	2.04	2.23	3.20	1.23	1.97	2.92	1.60	2.11
3.01	2.37	2.56	4.11	1.74	2.44	3.61	2.03	2.49
1.82	2.85	2.54	2.37	1.22	1.34	1.98	1.88	1.90
2.48	2.59	2.57	2.49	1.24	1.36	2.49	1.83	1.93

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 41.—POPULATION, DEATHS, AND DEATH RATES PER 1,000 POP TUBERCULOUS CAUSES, OF OPERATIVES AND NONOPERATIVES, FOR CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—

DEATHS, NONTUBERCULOUS.

Age group, locality, and period.	Number of deaths.								
	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
10 to 14 years:									
Fall River, 3 years.....	3	33	36	1	23	24	4	56	60
3 cities, 1 year.....	3	23	26	1	24	25	4	47	51
15 to 24 years:									
Fall River, 3 years.....	37	39	76	53	35	88	90	74	164
3 cities, 1 year.....	26	50	76	28	32	60	54	82	136
25 to 34 years:									
Fall River, 3 years.....	33	68	101	44	86	130	77	154	231
3 cities, 1 year.....	20	79	99	21	72	93	41	151	192
35 to 44 years:									
Fall River, 3 years.....	27	104	131	50	107	157	77	211	288
3 cities, 1 year.....	15	84	99	22	83	105	37	167	204
45 to 54 years:									
Fall River, 3 years.....	36	142	178	24	171	195	60	313	373
3 cities, 1 year.....	18	112	130	19	134	153	37	246	283
55 to 64 years:									
Fall River, 3 years.....	37	224	261	13	301	314	50	525	575
3 cities, 1 year.....	21	182	203	9	189	198	30	371	401
65 years and over:									
Fall River, 3 years.....	20	335	355	2	440	442	22	775	797
3 cities, 1 year.....	18	293	311	1	411	412	19	704	723
Total 10 years and over:									
Fall River, 3 years.....	193	945	1,138	187	1,163	1,350	380	2,108	2,488
3 cities, 1 year.....	121	823	944	101	945	1,046	222	1,768	1,990
15 to 44 years:									
Fall River, 3 years.....	97	211	308	147	228	375	244	439	683
3 cities, 1 year.....	61	213	274	71	187	258	132	400	532
45 to 64 years:									
Fall River, 3 years.....	73	366	439	37	472	509	110	838	948
3 cities, 1 year.....	39	294	333	28	323	351	67	617	684

DEATHS, ALL CAUSES.

10 to 14 years:									
Fall River, 3 years.....	3	33	36	1	31	32	4	64	68
3 cities, 1 year.....	3	23	26	2	27	29	5	50	55
15 to 24 years:									
Fall River, 3 years.....	64	59	123	96	54	150	160	113	273
3 cities, 1 year.....	39	72	111	55	56	111	94	128	222
25 to 34 years:									
Fall River, 3 years.....	62	108	170	90	125	215	152	233	385
3 cities, 1 year.....	39	117	156	53	103	156	92	220	312
35 to 44 years:									
Fall River, 3 years.....	53	141	194	67	118	185	120	259	379
3 cities, 1 year.....	28	113	141	36	102	138	64	215	279
45 to 54 years:									
Fall River, 3 years.....	43	170	213	30	188	218	73	358	431
3 cities, 1 year.....	24	131	155	23	140	163	47	271	318
55 to 64 years:									
Fall River, 3 years.....	42	239	281	13	311	324	55	550	605
3 cities, 1 year.....	23	193	216	9	202	211	32	395	427
65 years and over:									
Fall River, 3 years.....	20	347	367	2	444	446	22	791	813
3 cities, 1 year.....	18	301	319	1	417	418	19	718	737
Total 10 years and over:									
Fall River, 3 years.....	287	1,097	1,384	299	1,271	1,570	586	2,368	2,954
3 cities, 1 year.....	174	950	1,124	179	1,047	1,226	353	1,997	2,350
15 to 44 years:									
Fall River, 3 years.....	179	308	487	253	297	550	432	605	1,037
3 cities, 1 year.....	106	302	408	144	261	405	250	563	813
45 to 64 years:									
Fall River, 3 years.....	85	409	494	43	499	542	128	908	1,036
3 cities, 1 year.....	47	324	371	32	342	374	79	666	745

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

ULATION 10 YEARS OF AGE AND OVER FROM TUBERCULOUS AND NON-TUBERCULOUS DEATHS, EACH 10-YEAR AGE GROUP, BY SEX, FALL RIVER, 1905 TO 1907, AND 3 YEARS CONCLUDED.

DEATHS, NONTUBERCULOUS.

Death rate per 1,000 population.								
Males.			Females.			Both sexes.		
Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.	Operatives.	Nonoperatives.	Both classes.
3.44	2.21	2.27	1.44	1.48	1.48	2.55	1.84	1.87
8.82	2.34	2.56	3.31	2.42	2.44	6.23	2.38	2.50
2.84	2.21	2.48	2.93	1.92	2.42	2.89	2.06	2.45
4.05	3.67	3.79	2.96	2.21	2.51	3.40	2.92	3.09
3.37	4.00	3.77	4.48	4.27	4.34	3.93	4.15	4.07
4.32	5.83	5.45	3.99	4.66	4.48	4.14	5.21	4.94
3.24	8.05	6.16	9.55	6.11	6.90	5.67	6.93	6.54
3.88	8.10	6.95	7.22	6.62	6.73	5.35	7.29	6.84
7.41	16.10	13.01	11.73	12.77	12.63	8.69	14.09	12.81
7.72	15.76	13.77	14.73	14.41	14.45	10.22	15.00	14.13
21.49	35.69	32.63	26.92	34.55	34.15	22.67	35.03	33.44
23.57	40.77	37.91	28.48	31.65	31.49	24.85	35.55	34.45
48.31	76.07	73.08	39.22	72.35	72.08	47.31	73.91	72.79
72.87	89.66	88.48	22.22	91.05	90.37	65.07	90.46	89.55
4.94	11.53	9.41	5.13	11.68	9.92	5.03	11.62	9.68
6.46	13.23	11.67	5.12	13.09	11.38	5.77	13.15	11.51
3.11	4.44	3.91	4.43	4.08	4.21	3.80	4.25	4.07
4.09	5.68	5.22	4.00	4.40	4.28	4.05	5.00	4.72
11.10	24.24	20.25	14.63	21.35	20.66	12.07	22.53	20.47
12.11	25.41	22.51	17.44	21.16	20.81	13.87	22.59	21.60

DEATHS, ALL CAUSES.

3.44	2.21	2.27	1.44	2.00	1.88	2.55	2.10	2.12
8.82	2.34	2.56	6.62	2.72	2.83	7.79	2.53	2.70
4.91	3.35	4.01	5.30	2.96	4.13	5.14	3.15	4.08
6.07	5.28	5.54	5.82	3.86	4.64	5.92	4.55	5.05
6.33	6.36	6.35	9.17	6.21	7.18	7.75	6.28	6.79
8.43	8.64	8.59	10.06	6.66	7.52	9.30	7.59	8.02
6.36	10.91	9.13	12.79	6.74	8.13	8.84	8.51	8.61
7.24	10.90	9.90	11.81	8.13	8.85	9.26	9.38	9.35
8.85	19.27	15.57	14.66	14.04	14.12	10.58	16.12	14.80
10.30	18.43	16.42	17.53	15.06	15.40	12.98	16.52	15.88
24.39	38.08	35.13	26.92	35.70	35.24	24.94	36.70	35.19
25.81	43.23	40.34	28.48	33.83	33.56	26.51	37.85	36.68
48.31	78.79	76.17	39.22	73.01	72.73	47.31	75.44	74.25
72.87	92.11	90.75	22.22	92.38	91.69	65.07	92.26	91.28
7.35	13.38	11.44	8.20	12.77	11.54	7.76	13.05	11.49
9.29	15.27	13.89	9.08	14.50	13.34	9.18	14.86	13.59
5.74	6.48	6.19	7.63	5.31	6.18	6.72	5.85	6.18
7.10	8.05	7.78	8.11	6.14	6.72	7.65	7.03	7.21
12.92	27.09	22.79	17.00	22.58	22.00	14.05	24.41	22.37
14.59	28.00	25.08	19.93	22.40	22.17	16.36	24.82	23.53

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 42.—AGE PERCENTAGE DISTRIBUTION OF OPERATIVE AND OF NONOPERATIVE MALES AND FEMALES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

POPULATION.

Age group and locality.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
10 to 14 years:									
Fall River.....	2	18	13	2	16	12	2	17	13
3 cities.....	2	16	13	2	14	11	2	15	12
15 to 24 years:									
Fall River.....	34	22	25	50	18	27	41	20	26
3 cities.....	34	22	25	48	20	26	41	21	25
25 to 34 years:									
Fall River.....	25	21	22	27	20	22	26	20	22
3 cities.....	25	22	22	27	22	23	26	21	23
35 to 44 years:									
Fall River.....	21	16	18	14	18	17	18	17	17
3 cities.....	21	17	18	15	17	17	18	17	17
45 to 54 years:									
Fall River.....	13	11	11	6	13	11	9	12	11
3 cities.....	12	11	12	7	13	11	9	12	12
55 to 64 years:									
Fall River.....	4	7	7	1	9	7	3	8	7
3 cities.....	5	7	6	1	8	7	3	8	6
65 years and over:									
Fall River.....	1	5	4	.....	6	4	1	6	4
3 cities.....	1	5	4	.....	6	5	1	6	5
Total population 10 years and over:									
Fall River.....	13,010	27,325	40,335	12,148	33,183	45,331	25,158	60,508	85,666
3 cities.....	18,731	62,195	80,926	19,717	72,218	91,935	38,448	134,413	172,861
15 to 44 years:									
Fall River.....	80	59	65	91	56	66	85	57	65
3 cities.....	80	61	65	90	59	66	85	59	65
45 to 64 years:									
Fall River.....	17	18	18	7	22	18	12	20	18
3 cities.....	17	18	18	8	21	18	12	20	18

DEATHS, TUBERCULOUS.

10 to 14 years:									
Fall River, 3 years.....	.....	.....	.....	.....	7	4	.....	3	2
3 cities, 1 year.....	.....	.....	.....	1	3	2	1	1	1
15 to 24 years:									
Fall River, 3 years.....	29	13	19	39	18	28	34	15	23
3 cities, 1 year.....	25	17	20	35	24	29	31	20	24
25 to 34 years:									
Fall River, 3 years.....	31	27	28	42	36	39	36	31	33
3 cities, 1 year.....	35	30	31	41	30	35	39	30	34
35 to 44 years:									
Fall River, 3 years.....	28	24	26	13	10	12	21	18	20
3 cities, 1 year.....	24	23	23	18	18	19	20	21	20
45 to 54 years:									
Fall River, 3 years.....	7	18	14	6	16	10	6	17	13
3 cities, 1 year.....	12	15	14	5	6	5	8	11	10
55 to 64 years:									
Fall River, 3 years.....	5	10	8	.....	9	5	3	10	6
3 cities, 1 year.....	4	9	7	.....	13	7	1	11	7
65 years and over:									
Fall River, 3 years.....	.....	8	5	.....	4	2	.....	6	3
3 cities, 1 year.....	.....	6	5	.....	6	3	.....	6	4
Total deaths from tuberculosis of persons 10 years and over:									
Fall River, 3 years.....	94	152	246	112	108	220	206	260	466
3 cities, 1 year.....	53	127	180	78	102	180	131	229	360
15 to 44 years:									
Fall River, 3 years.....	88	64	73	94	64	79	91	64	76
3 cities, 1 year.....	84	70	74	94	73	83	90	71	78
45 to 64 years:									
Fall River, 3 years.....	12	28	22	6	25	15	9	27	19
3 cities, 1 year.....	16	24	21	5	19	12	9	22	17

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 42.—AGE PERCENTAGE DISTRIBUTION OF OPERATIVE AND OF NONOPERATIVE MALES AND FEMALES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

DEATHS, NONTUBERCULOUS.

Age, group, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
10 to 14 years:									
Fall River, 3 years.....	2	3	3	1	2	2	1	3	2
3 cities, 1 year.....	3	3	3	1	2	2	2	3	3
15 to 24 years:									
Fall River, 3 years.....	19	4	7	23	3	7	24	3	7
3 cities, 1 year.....	21	6	8	23	3	6	24	4	7
25 to 34 years:									
Fall River, 3 years.....	17	7	8	24	7	9	20	7	9
3 cities, 1 year.....	16	10	10	21	8	9	18	8	10
35 to 44 years:									
Fall River, 3 years.....	14	11	12	27	9	12	20	10	12
3 cities, 1 year.....	12	10	11	21	8	10	17	10	10
45 to 54 years:									
Fall River, 3 years.....	19	15	16	12	15	14	16	15	15
3 cities, 1 year.....	15	13	14	19	14	14	17	14	14
55 to 64 years:									
Fall River, 3 years.....	19	24	23	7	26	23	13	25	23
3 cities, 1 year.....	18	23	21	9	20	19	13	21	20
65 years and over:									
Fall River, 3 years.....	10	36	31	1	38	33	6	37	32
3 cities, 1 year.....	15	35	33	1	45	40	9	40	36
Total deaths from non-tuberculous causes of persons 10 years and over:									
Fall River, 3 years.....	193	945	1,138	187	1,163	1,350	380	2,108	2,488
3 cities, 1 year.....	121	823	944	101	945	1,046	222	1,768	1,990
15 to 44 years:									
Fall River, 3 years.....	50	22	27	79	19	28	64	20	28
3 cities, 1 year.....	49	26	29	70	19	25	59	22	27
45 to 64 years:									
Fall River, 3 years.....	38	39	39	19	41	37	29	40	38
3 cities, 1 year.....	33	36	35	28	34	33	30	35	34

DEATHS, ALL CAUSES.

10 to 14 years:									
Fall River, 3 years.....	1	3	3	2	2	1	3	2	
3 cities, 1 year.....	2	2	2	1	3	2	1	2	
15 to 24 years:									
Fall River, 3 years.....	22	5	9	32	4	10	27	5	9
3 cities, 1 year.....	22	8	10	31	5	9	27	7	10
25 to 34 years:									
Fall River, 3 years.....	21	10	12	30	10	13	26	10	13
3 cities, 1 year.....	22	13	14	29	10	13	26	11	13
35 to 44 years:									
Fall River, 3 years.....	19	13	14	22	9	12	20	11	13
3 cities, 1 year.....	16	12	12	20	10	11	18	10	12
45 to 54 years:									
Fall River, 3 years.....	15	15	16	10	15	14	13	15	15
3 cities, 1 year.....	14	14	14	13	13	14	13	13	14
55 to 64 years:									
Fall River, 3 years.....	15	22	20	5	25	21	9	23	21
3 cities, 1 year.....	13	20	19	5	19	17	9	20	18
65 years and over:									
Fall River, 3 years.....	7	32	26	1	35	28	4	33	27
3 cities, 1 year.....	11	31	29	1	40	34	6	36	31
Total deaths from all causes of persons 10 years and over:									
Fall River, 3 years.....	287	1,097	1,384	299	1,271	1,570	586	2,368	2,954
3 cities, 1 year.....	174	950	1,124	179	1,047	1,226	353	1,997	2,350
15 to 44 years:									
Fall River, 3 years.....	62	28	35	84	23	35	73	26	35
3 cities, 1 year.....	60	33	36	80	25	33	71	28	35
45 to 64 years:									
Fall River, 3 years.....	30	37	36	15	40	35	22	38	36
3 cities, 1 year.....	27	34	33	18	32	31	22	33	32

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 43.—SEX PERCENTAGE DISTRIBUTION OF OPERATIVES AND AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS OVER THE OTHER, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL POPULATION.

Age group and locality.	Operatives.			Nonoperatives.			Both classes.		
	Per cent.		Number, both sexes (100 per cent).	Per cent.		Number, both sexes (100 per cent).	Per cent.		Number, both sexes (100 per cent).
	Males.	Fe-males.		Males.	Fe-males.		Males.	Fe-males.	
10 to 14 years:									
Fall River.....	56	44	523	49	51	10,146	49	51	10,669
3 cities.....	53	47	642	50	50	19,754	50	50	20,396
15 to 24 years:									
Fall River.....	42	58	10,381	49	51	11,949	46	54	22,330
3 cities.....	40	60	15,376	48	52	28,121	46	54	43,997
25 to 34 years:									
Fall River.....	40	50	6,338	46	54	12,372	47	53	18,910
3 cities.....	47	53	9,897	47	53	29,001	47	53	33,898
35 to 44 years:									
Fall River.....	61	39	4,525	42	58	10,146	48	52	14,671
3 cities.....	56	44	6,913	45	55	22,917	48	52	29,830
45 to 54 years:									
Fall River.....	70	30	2,301	40	60	7,404	47	53	9,705
3 cities.....	64	36	3,621	43	57	16,403	47	53	20,024
55 to 64 years:									
Fall River.....	78	22	735	42	58	4,996	47	53	5,731
3 cities.....	74	26	1,207	43	57	10,435	46	54	11,642

DEATHS, TUBERCULOUS.

Age group, locality, and period.	Operatives.			Nonoperatives.			Both classes.		
	Per cent.		Number, both sexes (100 per cent).	Per cent.		Number, both sexes (100 per cent).	Per cent.		Number, both sexes (100 per cent).
	Males.	Fe-males.		Males.	Fe-males.		Males.	Fe-males.	
10 to 14 years:									
Fall River, 3 years.....					100	8		100	8
3 cities, 1 year.....		100	1		100	3		100	4
15 to 24 years:									
Fall River, 3 years.....	39	61	70	51	49	39	43	57	109
3 cities, 1 year.....	52	68	40	43	52	46	41	59	86
25 to 34 years:									
Fall River, 3 years.....	39	61	75	51	49	79	45	55	154
3 cities, 1 year.....	37	63	51	55	45	69	47	53	120
35 to 44 years:									
Fall River, 3 years.....	60	40	43	77	23	48	69	31	91
3 cities, 1 year.....	48	52	27	60	40	48	56	44	75
45 to 54 years:									
Fall River, 3 years.....	54	46	13	62	38	45	60	40	58
3 cities, 1 year.....	60	40	10	76	24	25	71	29	35
55 to 64 years:									
Fall River, 3 years.....	100		5	60	40	25	67	33	30
3 cities, 1 year.....	100		2	46	54	24	50	50	26
65 years and over:									
Fall River, 3 years.....				75	25	16	75	25	16
3 cities, 1 year.....				57	43	14	57	43	14
Total, 10 years and over:									
Fall River, 3 years.....	46	54	206	58	42	260	53	47	466
3 cities, 1 year.....	40	60	131	55	45	229	50	50	260
15 to 44 years:									
Fall River, 3 years.....	44	56	188	58	42	166	51	49	354
3 cities, 1 year.....	38	62	118	55	45	163	48	52	281
45 to 64 years:									
Fall River, 3 years.....	67	33	18	61	39	70	63	37	88
3 cities, 1 year.....	67	33	12	61	39	49	62	38	61

• Less than one-half of 1 per cent.

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

OF NONOPERATIVES IN EACH 10-YEAR AGE GROUP FOR POPULATION CAUSES, WITH PER CENT OF EXCESS IN DEATH RATE OF ONE SEX RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

POPULATION.

Age group and locality.	Operatives.			Nonoperatives.			Both classes.		
	Per cent.		Number, both sexes (100 per cent).	Per cent.		Number, both sexes (100 per cent).	Per cent.		Number, both sexes (100 per cent).
	Males.	Females.		Males.	Females.		Males.	Females.	
65 years and over:									
Fall River.....	89	11	155	42	58	3,425	44	56	3,650
3 cities.....	85	15	292	42	58	7,782	44	56	8,074
Total 10 years and over:									
Fall River.....	52	48	25,158	45	55	60,508	47	53	85,663
3 cities.....	49	51	38,448	46	54	14,413	47	53	172,861
15 to 44 years:									
Fall River.....	48	52	21,444	46	54	34,467	47	53	55,911
3 cities.....	46	54	32,686	47	53	80,039	47	53	112,725
45 to 64 years:									
Fall River.....	72	28	3,036	41	59	12,400	47	53	15,436
3 cities.....	67	33	4,828	43	57	26,838	47	53	31,666

DEATHS, TUBERCULOUS.

Operatives.			Nonoperatives.			Both classes.		
Per cent excess.		Death rate, both sexes.	Per cent excess.		Death rate, both sexes.	Per cent excess.		Death rate, both sexes.
Males.	Females.		Males.	Females.		Males.	Females.	
		1.56			0.26			0.25
		2.25	10		.15			.20
	14	2.25			1.09		12	1.63
	42	2.52		2	1.63		22	1.96
	58	3.82	21		2.13		10	2.72
	48	5.16	41		2.38	3		3.08
	4	3.17	354		1.58	141		2.07
	37	3.91	85		2.09	39		2.51
	103	1.89	150		2.03	72		1.99
	20	2.76	311		1.52	179		1.75
		2.27	108		1.67	129		1.75
		1.66	13		2.30	17		2.23
			312		1.53	283		1.46
			84		1.80	72		1.73
	27	2.73	70		1.43	25		1.81
	40	3.41	45		1.71	13		2.08
	22	2.92	66		1.60	16		2.11
	37	3.61	36		2.03	5		2.49
	30	1.98	134		1.88	90		1.90
	(a)	2.49	109		1.83	87		1.93

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 43.—SEX PERCENTAGE DISTRIBUTION OF OPERATIVES AND AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS OVER THE OTHER, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL

DEATHS, NONTUBERCULOUS.

Age group, locality, and period.	Operatives.			Nonoperatives.			Both classes.		
	Per cent.		Number, both sexes (100 per cent).	Per cent.		Number, both sexes (100 per cent).	Per cent.		Number, both sexes (100 per cent).
	Males.	Fe-males.		Males.	Fe-males.		Males.	Fe-males.	
10 to 14 years:									
Fall River, 3 years.....	75	75	4	59	41	56	60	40	60
3 cities, 1 year.....	75	25	4	49	51	47	51	49	51
15 to 24 years:									
Fall River, 3 years.....	41	59	90	53	47	74	46	54	164
3 cities, 1 year.....	48	52	54	61	39	82	56	44	136
25 to 34 years:									
Fall River, 3 years.....	43	57	77	44	56	154	44	56	231
3 cities, 1 year.....	49	51	41	52	48	151	52	48	192
35 to 44 years:									
Fall River, 3 years.....	35	65	77	49	51	211	45	55	288
3 cities, 1 year.....	41	59	37	50	50	167	49	51	204
45 to 54 years:									
Fall River, 3 years.....	60	40	60	45	55	313	48	52	373
3 cities, 1 year.....	49	51	37	46	54	246	46	54	283
55 to 64 years:									
Fall River, 3 years.....	74	26	50	43	57	525	45	55	575
3 cities, 1 year.....	70	30	30	49	51	371	51	49	401
65 years and over:									
Fall River, 3 years.....	91	9	22	43	57	775	45	55	797
3 cities, 1 year.....	95	5	19	42	58	704	43	57	723
Total, 10 years and over:									
Fall River, 3 years.....	51	49	380	45	55	2,108	46	54	2,488
3 cities, 1 year.....	55	45	222	47	53	1,768	47	53	1,990
15 to 44 years:									
Fall River, 3 years.....	40	60	244	48	52	439	45	55	683
3 cities, 1 year.....	46	54	132	53	47	400	52	48	532
45 to 64 years:									
Fall River, 3 years.....	66	34	110	44	56	838	46	54	948
3 cities, 1 year.....	58	42	67	48	52	617	49	51	684

DEATHS, ALL CAUSES.

10 to 14 years:									
Fall River, 3 years.....	75	25	4	52	48	64	53	47	68
3 cities, 1 year.....	60	40	5	46	54	50	47	53	55
15 to 24 years:									
Fall River, 3 years.....	40	60	160	52	48	113	45	55	273
3 cities, 1 year.....	41	59	94	56	44	128	50	50	222
25 to 34 years:									
Fall River, 3 years.....	41	59	152	46	54	233	44	56	385
3 cities, 1 year.....	42	58	92	53	47	220	50	50	312
35 to 44 years:									
Fall River, 3 years.....	44	56	120	54	46	259	51	49	379
3 cities, 1 year.....	44	56	64	53	47	215	51	49	279
45 to 54 years:									
Fall River, 3 years.....	59	41	73	47	53	358	49	51	431
3 cities, 1 year.....	51	49	47	48	52	271	49	51	318
55 to 64 years:									
Fall River, 3 years.....	76	24	55	43	57	550	46	54	605
3 cities, 1 year.....	72	28	32	49	51	395	51	49	427
65 years and over:									
Fall River, 3 years.....	91	9	22	44	56	791	45	55	813
3 cities, 1 year.....	95	5	19	42	58	718	43	57	737
Total, 10 years and over:									
Fall River, 3 years.....	49	51	586	46	54	2,368	47	53	2,954
3 cities, 1 year.....	49	51	353	48	52	1,997	48	52	2,350
15 to 44 years:									
Fall River, 3 years.....	41	59	432	51	49	605	47	53	1,037
3 cities, 1 year.....	42	58	150	54	46	563	50	50	813
45 to 64 years:									
Fall River, 3 years.....	66	34	128	45	55	908	48	52	1,036
3 cities, 1 year.....	59	41	79	49	51	606	50	50	745

a Less than one-half of 1 per cent.

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

OF NONOPERATIVES IN EACH 10-YEAR AGE GROUP FOR POPULATION CAUSES, WITH PER CENT OF EXCESS IN DEATH RATE OF ONE SEX RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

DEATHS, NONTUBERCULOUS.

Operatives.			Nonoperatives.			Both classes.		
Per cent excess.		Death rate, both sexes.	Per cent excess.		Death rate, both sexes.	Per cent excess.		Death rate, both sexes.
Males.	Females.		Males.	Females.		Males.	Females.	
139	.....	2.55	49	.....	1.84	53	.....	1.87
166	.....	6.23	.....	3	2.38	5	.....	2.50
.....	3	2.89	15	.....	2.06	2	.....	2.45
37	.....	3.40	66	.....	2.92	51	.....	3.09
.....	33	3.93	.....	7	4.15	.....	15	4.07
8	.....	4.14	25	.....	5.21	22	.....	4.94
.....	195	5.67	32	.....	6.93	.....	12	6.54
.....	86	5.35	22	.....	7.29	3	.....	6.84
.....	58	8.69	26	.....	14.09	3	.....	12.81
.....	91	10.22	9	.....	15.00	.....	5	14.13
.....	25	22.67	3	.....	35.03	.....	5	33.44
.....	21	24.85	29	.....	35.55	20	.....	34.45
.....	23	47.31	5	.....	73.91	2	.....	72.79
.....	223	65.07	.....	2	90.46	.....	2	89.55
.....	4	5.03	.....	1	11.62	.....	5	9.68
26	.....	5.77	1	.....	13.15	3	.....	11.51
.....	42	3.80	9	.....	4.25	.....	8	4.07
2	.....	4.05	29	.....	5.00	22	.....	4.72
.....	32	12.07	13	.....	22.53	.....	2	20.47
.....	44	13.87	20	.....	22.99	8	.....	21.60

DEATHS, ALL CAUSES.

139	.....	2.55	11	.....	2.10	15	.....	2.12
33	.....	7.79	.....	16	2.53	.....	11	2.70
.....	8	5.14	13	.....	3.15	.....	3	4.08
4	.....	5.92	37	.....	4.55	19	.....	5.05
.....	45	7.75	2	.....	6.28	.....	13	6.79
.....	19	9.30	30	.....	7.59	14	.....	8.02
.....	101	8.54	62	.....	8.51	12	.....	8.61
.....	63	9.26	34	.....	9.38	12	.....	9.35
.....	66	10.58	37	.....	16.12	10	.....	14.80
.....	73	12.98	22	.....	16.52	7	.....	15.88
.....	10	24.94	7	.....	36.70	.....	(a)	35.19
.....	10	26.51	28	.....	37.85	20	.....	36.68
.....	23	47.31	8	.....	75.44	5	.....	74.25
.....	228	65.07	.....	(a)	92.26	.....	1	91.28
.....	12	7.76	5	.....	13.05	.....	1	11.49
2	.....	9.18	5	.....	14.86	4	.....	13.59
.....	33	6.72	22	.....	5.85	(a)	.....	6.18
.....	14	7.65	31	.....	7.03	16	.....	7.21
.....	32	14.05	20	.....	24.41	4	.....	22.37
.....	37	16.36	25	.....	24.82	13	.....	23.53

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 44.—PER CENT OF OPERATIVES AND NONOPERATIVES AMONG ULLATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBER OCCUPATION CLASS OVER THE OTHER, FALL RIVER, 1905 TO 1907, AND

POPULATION.

Age group and locality.	Males.			Females.			Both sexes.		
	Per cent.		Number, both classes (100 per cent).	Per cent.		Number, both classes (100 per cent).	Per cent.		Number, both classes (100 per cent).
	Operatives.	Non-operatives.		Operatives.	Non-operatives.		Operatives.	Non-operatives.	
10 to 14 years:									
Fall River.....	6	94	5,276	4	96	5,393	5	95	10,669
3 cities.....	3	97	10,165	3	97	10,231	3	97	20,396
15 to 24 years:									
Fall River.....	43	57	10,216	50	50	12,114	46	54	22,330
3 cities.....	32	68	20,053	39	61	23,944	36	64	43,997
25 to 34 years:									
Fall River.....	37	63	8,926	33	67	9,984	35	65	18,910
3 cities.....	25	75	18,164	25	75	20,734	25	75	38,898
35 to 44 years:									
Fall River.....	39	61	7,086	23	77	7,585	31	69	14,671
3 cities.....	27	73	14,236	20	80	15,594	23	77	29,830
45 to 54 years:									
Fall River.....	35	65	4,559	13	87	5,146	24	76	9,705
3 cities.....	25	75	9,438	12	88	10,586	18	82	20,024
55 to 64 years:									
Fall River.....	22	78	2,666	5	95	3,065	13	87	5,731
3 cities.....	17	83	5,355	5	95	6,287	10	90	11,642

DEATHS, TUBERCULOUS.

Age group, locality, and period.	Males.			Females.			Both sexes.		
	Per cent.		Number, both classes (100 per cent).	Per cent.		Number, both classes (100 per cent).	Per cent.		Number, both classes (100 per cent).
	Operatives.	Non-operatives.		Operatives.	Non-operatives.		Operatives.	Non-operatives.	
10 to 14 years:									
Fall River, 3 years.....					100	8		100	8
3 cities, 1 year.....				25	75	4	25	75	4
15 to 24 years:									
Fall River, 3 years.....	57	43	47	69	31	62	64	36	109
3 cities, 1 year.....	37	63	35	53	47	51	47	53	86
25 to 34 years:									
Fall River, 3 years.....	42	58	69	54	46	85	49	51	154
3 cities, 1 year.....	33	67	57	51	49	63	42	58	120
35 to 44 years:									
Fall River, 3 years.....	41	59	63	61	39	28	47	53	91
3 cities, 1 year.....	31	69	42	42	58	33	36	64	75
45 to 54 years:									
Fall River, 3 years.....	20	80	35	26	74	23	22	78	58
3 cities, 1 year.....	24	76	25	40	60	10	29	71	35
55 to 64 years:									
Fall River, 3 years.....	25	75	20		100	10	17	83	30
3 cities, 1 year.....	15	85	13		100	13	8	92	26
65 years and over:									
Fall River, 3 years.....		100	12		100	4		100	16
3 cities, 1 year.....		100	8		100	6		100	14
Total, 10 years and over:									
Fall River, 3 years.....	38	62	246	51	49	220	44	56	466
3 cities, 1 year.....	29	71	180	43	57	180	36	64	360
15 to 44 years:									
Fall River, 3 years.....	46	54	179	61	39	175	53	47	354
3 cities, 1 year.....	34	66	134	50	50	147	42	58	281
45 to 64 years:									
Fall River, 3 years.....	22	78	55	18	82	33	20	80	88
3 cities, 1 year.....	21	79	38	17	83	23	20	80	61

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

MALES AND AMONG FEMALES IN EACH 10-YEAR AGE GROUP, FOR POPULOUS CAUSES, WITH PER CENT OF EXCESS IN DEATH RATE OF ONE 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), FOR 1 YEAR.

POPULATION.

Age group and locality.	Males.			Females.			Both sexes.		
	Per cent.		Number, both classes (100 per cent).	Per cent.		Number, both classes (100 per cent).	Per cent.		Number, both classes (100 per cent).
	Operatives.	Non-operatives.		Operatives.	Non-operatives.		Operatives.	Non-operatives.	
65 years and over:									
Fall River.....	9	91	1,606	1	99	2,044	4	96	3,650
3 cities.....	7	93	3,515	1	99	4,559	4	96	8,074
Total, 10 years and over:									
Fall River.....	32	68	40,335	27	73	45,331	29	71	85,666
3 cities.....	23	77	80,926	21	79	91,935	22	78	172,861
15 to 44 years:									
Fall River.....	40	60	26,228	37	63	29,683	38	62	55,911
3 cities.....	28	72	52,453	29	71	60,272	29	71	112,725
45 to 64 years:									
Fall River.....	30	70	7,225	10	90	8,211	20	80	15,436
3 cities.....	22	78	14,793	10	90	16,873	15	85	31,666

DEATHS, TUBERCULOUS.

Males.			Females.			Both sexes.		
Per cent excess.		Death rate, both classes.	Per cent excess.		Death rate, both classes.	Per cent excess.		Death rate, both classes.
Operatives.	Non-operatives.		Operatives.	Non-operatives.		Operatives.	Non-operatives.	
					0.50			0.25
			1,003		.39	940		.20
82		1.53	128		1.71	106		1.63
25		1.75	73		2.13	55		1.96
25		2.58	142		2.84	79		2.72
46		3.14	204		3.04	117		3.08
9		2.97	414		1.23	101		2.07
20		2.95	204		2.12	87		2.51
	120	2.56	131		1.49		7	1.99
	3	2.65	377		.95	82		1.75
		2.50			1.09	36		1.75
21		2.43			2.07		39	2.23
		2.49			.65			1.46
		2.27			1.32			1.73
		2.03	182		1.62	91		1.81
30		2.22	181		1.96	99		2.08
39								
		2.28	160		1.97	83		2.11
29		2.56	136		2.44	78		2.49
27								
	57	2.54	94		1.34	5		1.90
	4	2.57	101		1.36	36		1.93

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 44.—PER CENT OF OPERATIVES AND NONOPERATIVES AMONG ULLATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBER ONE OCCUPATION CLASS OVER THE OTHER, FALL RIVER, 1905 TO 1907, 1 YEAR—Concluded.

DEATHS, NONTUBERCULOUS CAUSES.

Age group, locality, and period.	Males.			Females.			Both sexes.		
	Per cent.		Number, both classes (100 per cent).	Per cent.		Number, both classes (100 per cent).	Per cent.		Number, both classes (100 per cent).
	Operatives.	Non-operatives.		Operatives.	Non-operatives.		Operatives.	Non-operatives.	
10 to 14 years:									
Fall River, 3 years.....	8	92	36	4	96	24	7	93	60
3 cities, 1 year.....	12	88	26	4	96	25	8	92	51
15 to 24 years:									
Fall River, 3 years.....	49	51	76	60	40	88	55	45	164
3 cities, 1 year.....	34	66	76	47	53	60	40	60	136
25 to 34 years:									
Fall River, 3 years.....	33	67	101	34	66	130	33	67	231
3 cities, 1 year.....	20	80	99	23	77	93	21	79	192
35 to 44 years:									
Fall River, 3 years.....	21	79	131	32	68	157	27	73	288
3 cities, 1 year.....	15	85	99	21	79	105	18	82	204
45 to 54 years:									
Fall River, 3 years.....	20	80	178	12	88	195	16	84	373
3 cities, 1 year.....	14	86	130	12	88	153	13	87	283
55 to 64 years:									
Fall River, 3 years.....	14	86	261	4	96	314	9	91	575
3 cities, 1 year.....	10	90	203	5	95	198	7	93	401
65 years and over:									
Fall River, 3 years.....	6	94	355	.....	100	442	3	97	797
3 cities, 1 year.....	6	94	311	.....	100	412	3	97	723
Total, 10 years and over:									
Fall River, 3 years.....	17	83	1,138	14	86	1,350	15	85	2,488
3 cities, 1 year.....	13	87	944	10	90	1,046	11	89	1,990
15 to 44 years:									
Fall River, 3 years.....	31	69	308	39	61	375	36	64	683
3 cities, 1 year.....	22	78	274	28	72	258	25	75	532
45 to 64 years:									
Fall River, 3 years.....	17	83	439	7	93	509	12	88	948
3 cities, 1 year.....	12	88	333	8	92	351	10	90	684

DEATHS, ALL CAUSES.

10 to 14 years:									
Fall River, 3 years.....	8	92	36	3	97	32	6	94	68
3 cities, 1 year.....	12	88	26	7	93	29	9	91	55
15 to 24 years:									
Fall River, 3 years.....	52	48	123	64	36	150	59	41	273
3 cities, 1 year.....	35	65	111	50	50	111	42	58	222
25 to 34 years:									
Fall River, 3 years.....	36	64	170	42	58	215	39	61	385
3 cities, 1 year.....	25	75	156	34	66	156	29	71	312
35 to 44 years:									
Fall River, 3 years.....	27	73	194	36	64	185	32	68	379
3 cities, 1 year.....	20	80	141	26	74	138	23	77	279
45 to 54 years:									
Fall River, 3 years.....	20	80	213	14	86	218	17	83	431
3 cities, 1 year.....	15	85	155	14	86	163	15	85	318
55 to 64 years:									
Fall River, 3 years.....	15	85	281	4	96	324	9	91	605
3 cities, 1 year.....	11	89	216	4	96	211	7	93	427
65 years and over:									
Fall River, 3 years.....	5	95	367	.....	100	446	3	97	813
3 cities, 1 year.....	6	94	319	.....	100	418	3	97	737
Total, 10 years and over:									
Fall River, 3 years.....	21	79	1,384	19	81	1,570	20	80	2,954
3 cities, 1 year.....	15	85	1,124	15	85	1,226	15	85	2,350
15 to 44 years:									
Fall River, 3 years.....	37	63	487	46	54	550	42	58	1,087
3 cities, 1 year.....	26	74	408	36	64	405	31	69	813
45 to 64 years:									
Fall River, 3 years.....	17	83	494	8	92	542	12	88	1,086
3 cities, 1 year.....	13	87	371	9	91	374	11	89	745

* Less than one-half of 1 per cent.

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

MALES AND AMONG FEMALES IN EACH 10-YEAR AGE GROUP, FOR POPULOUS CAUSES, WITH PER CENT OF EXCESS IN DEATH RATE OF AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), FOR

DEATHS, NONTUBERCULOUS CAUSES.

Males.			Females.			Both sexes.		
Per cent excess.		Death rate, both classes.	Per cent excess.		Death rate, both classes.	Per cent excess.		Death rate, both classes.
Operatives.	Non-operatives.		Operatives.	Non-operatives.		Operatives.	Non-operatives.	
56	.....	2.27	.....	3	1.48	39	.....	1.87
277	.....	2.56	37	.....	2.44	162	.....	2.50
29	.....	2.48	53	.....	2.42	40	.....	2.45
10	.....	3.79	34	.....	2.51	16	.....	3.09
.....	19	3.77	5	.....	4.34	.....	6	4.07
.....	35	5.45	.....	17	4.48	.....	26	4.94
.....	148	6.16	56	.....	6.90	.....	22	6.54
.....	109	6.95	9	.....	6.73	.....	36	6.84
.....	117	13.01	.....	9	12.63	.....	62	12.81
.....	104	13.77	2	.....	14.45	.....	47	14.13
.....	66	32.63	.....	28	34.15	.....	55	33.44
.....	73	37.91	.....	11	31.49	.....	43	34.45
.....	57	73.68	.....	84	72.08	.....	56	72.79
.....	23	88.48	.....	310	90.37	.....	39	89.55
.....	133	9.41	.....	128	9.92	.....	131	9.68
.....	105	11.67	.....	156	11.38	.....	128	11.51
.....	43	3.91	9	.....	4.21	.....	12	4.07
.....	39	5.22	.....	10	4.28	.....	24	4.72
.....	118	20.25	.....	46	20.66	.....	87	20.47
.....	111	22.51	.....	21	20.81	.....	66	21.60

DEATHS, ALL CAUSES.

56	.....	2.27	.....	39	1.98	21	.....	2.12
277	.....	2.56	143	.....	2.83	208	.....	2.70
47	.....	4.01	79	.....	4.13	63	.....	4.08
15	.....	5.54	51	.....	4.64	30	.....	5.05
.....	(a) 2	6.35	48	.....	7.18	23	.....	6.79
.....	.....	8.59	51	.....	7.52	23	.....	8.02
.....	72	9.13	90	.....	8.13	4	.....	8.61
.....	51	9.90	45	.....	8.85	.....	1	9.35
.....	118	15.57	5	.....	14.12	.....	52	14.80
.....	79	16.42	18	.....	15.40	.....	27	15.88
.....	56	35.13	.....	33	35.24	.....	47	35.19
.....	67	40.34	.....	19	33.56	.....	43	36.68
.....	63	76.17	.....	86	72.73	.....	59	74.25
.....	26	90.75	.....	316	91.69	.....	42	91.28
.....	82	11.44	.....	56	11.54	.....	68	11.49
.....	64	13.89	.....	60	13.34	.....	62	13.59
.....	13	6.19	44	.....	6.18	15	.....	6.18
.....	13	7.78	32	.....	6.72	9	.....	7.21
.....	110	22.79	.....	33	22.00	.....	74	22.37
.....	92	25.08	.....	12	22.17	.....	52	23.53

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 45.—PER CENT OF OPERATIVE AND NONOPERATIVE MALES AND FEMALES IN TOTAL FOR EACH 10-YEAR AGE GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

POPULATION.

Age group, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes (100 per cent).
10 to 14 years:									
Fall River.....	3	46	49	2	49	51	5	95	10,669
3 cities.....	2	48	50	1	49	50	3	97	20,396
15 to 24 years:									
Fall River.....	20	26	46	27	27	54	47	53	22,330
3 cities.....	15	31	46	21	33	54	36	64	43,997
25 to 34 years:									
Fall River.....	17	30	47	18	35	53	35	65	18,910
3 cities.....	12	35	47	13	40	53	25	75	38,898
35 to 44 years:									
Fall River.....	19	29	48	12	40	52	31	69	14,671
3 cities.....	13	35	48	10	42	52	23	77	29,830
45 to 54 years:									
Fall River.....	17	30	47	7	46	53	24	76	9,705
3 cities.....	12	35	47	6	47	53	18	82	20,024
55 to 64 years:									
Fall River.....	10	37	47	3	50	53	13	87	5,731
3 cities.....	7	39	46	3	51	54	10	90	11,642
65 years and over:									
Fall River.....	4	40	44	(a)	56	56	4	96	3,650
3 cities.....	3	41	44	1	55	56	4	96	8,074
Total, 10 years and over:									
Fall River.....	15	32	47	14	39	53	29	71	85,666
3 cities.....	11	36	47	11	42	53	22	78	172,861
15 to 44 years:									
Fall River.....	19	28	47	19	34	53	38	62	55,911
3 cities.....	13	34	47	16	37	53	29	71	112,725
45 to 64 years:									
Fall River.....	14	33	47	6	47	53	20	80	15,436
3 cities.....	10	37	47	5	48	53	15	85	31,666

DEATHS, TUBERCULOUS.

10 to 14 years:									
Fall River, 3 years.....					100	100		100	8
3 cities, 1 year.....				25	75	100	25	75	4
15 to 24 years:									
Fall River, 3 years.....	25	18	43	39	18	57	64	36	109
3 cities, 1 year.....	15	26	41	31	28	59	46	54	86
25 to 34 years:									
Fall River, 3 years.....	19	26	45	30	25	55	49	51	154
3 cities, 1 year.....	16	32	48	26	26	52	42	58	120
35 to 44 years:									
Fall River, 3 years.....	29	40	69	18	13	31	47	53	91
3 cities, 1 year.....	17	39	56	19	25	44	36	64	75
45 to 54 years:									
Fall River, 3 years.....	12	48	60	10	30	40	22	78	58
3 cities, 1 year.....	17	54	71	12	17	29	29	71	35
55 to 64 years:									
Fall River, 3 years.....	17	50	67		33	33	17	83	30
3 cities, 1 year.....	8	42	50		50	50	8	92	26
65 years and over:									
Fall River, 3 years.....		75	75		25	25		100	16
3 cities, 1 year.....		57	57		43	43		100	14
Total, 10 years and over:									
Fall River, 3 years.....	21	32	53	24	23	47	45	55	466
3 cities, 1 year.....	14	36	50	22	28	50	36	64	360
15 to 44 years:									
Fall River, 3 years.....	23	28	51	30	19	49	53	47	354
3 cities, 1 year.....	16	32	48	26	26	52	42	58	281
45 to 64 years:									
Fall River, 3 years.....	13	49	62	7	31	38	20	80	88
3 cities, 1 year.....	13	49	62	7	31	38	20	80	61

• Less than one-half of 1 per cent.

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 45.—PER CENT OF OPERATIVE AND NONOPERATIVE MALES AND FEMALES IN TOTAL FOR EACH 10-YEAR AGE GROUP, FOR POPULATION AND FOR DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

DEATHS, NONTUBERCULOUS.

Age group, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes (100 per cent).
10 to 14 years:									
Fall River, 3 years.....	5	55	60	2	38	40	7	93	60
3 cities, 1 year.....	6	45	51	2	47	49	8	92	51
15 to 24 years:									
Fall River, 3 years.....	23	23	46	32	22	54	55	45	164
3 cities, 1 year.....	19	37	56	21	23	44	40	60	136
25 to 34 years:									
Fall River, 3 years.....	14	30	44	19	37	56	33	67	231
3 cities, 1 year.....	10	42	52	11	37	48	21	79	192
35 to 44 years:									
Fall River, 3 years.....	9	36	45	18	37	55	27	73	288
3 cities, 1 year.....	7	42	49	11	40	51	18	82	204
45 to 54 years:									
Fall River, 3 years.....	10	38	48	6	46	52	16	84	373
3 cities, 1 year.....	6	40	46	7	47	54	13	87	283
55 to 64 years:									
Fall River, 3 years.....	7	38	45	2	53	55	9	91	575
3 cities, 1 year.....	5	46	51	2	47	49	7	93	401
65 years and over:									
Fall River, 3 years.....	3	42	45	(a)	55	55	3	97	797
3 cities, 1 year.....	3	40	43	(a)	57	57	3	97	723
Total, 10 years and over:									
Fall River, 3 years.....	8	38	46	7	47	54	15	85	2,488
3 cities, 1 year.....	6	42	48	5	47	52	11	89	1,990
15 to 44 years:									
Fall River, 3 years.....	14	31	45	22	33	55	36	64	683
3 cities, 1 year.....	12	40	52	13	35	48	25	75	532
45 to 64 years:									
Fall River, 3 years.....	8	38	46	4	50	54	12	88	948
3 cities, 1 year.....	6	43	49	4	47	51	10	90	684

DEATHS, ALL CAUSES.

10 to 14 years:									
Fall River, 3 years.....	5	48	53	1	46	47	6	94	68
3 cities, 1 year.....	5	42	47	4	49	53	9	91	55
15 to 24 years:									
Fall River, 3 years.....	23	22	45	36	19	55	59	41	273
3 cities, 1 year.....	17	33	50	25	25	50	42	58	222
25 to 34 years:									
Fall River, 3 years.....	16	28	44	23	33	56	39	61	385
3 cities, 1 year.....	12	38	50	17	33	50	29	71	312
35 to 44 years:									
Fall River, 3 years.....	14	37	51	18	31	49	32	68	379
3 cities, 1 year.....	10	41	51	13	36	49	23	77	279
45 to 54 years:									
Fall River, 3 years.....	10	39	49	7	44	51	17	83	431
3 cities, 1 year.....	8	41	49	7	44	51	15	85	315
55 to 64 years:									
Fall River, 3 years.....	7	39	46	2	52	54	9	91	605
3 cities, 1 year.....	5	46	51	2	47	49	7	93	427
65 years and over:									
Fall River, 3 years.....	3	42	45	(a)	55	55	3	97	813
3 cities, 1 year.....	3	40	43	(a)	57	57	3	97	737
Total, 10 years and over:									
Fall River, 3 years.....	10	37	47	10	43	53	20	80	2,954
3 cities, 1 year.....	7	41	48	8	44	52	15	85	2,350
15 to 44 years:									
Fall River, 3 years.....	17	30	47	25	28	53	42	58	1,037
3 cities, 1 year.....	13	37	50	18	32	50	31	69	813
45 to 64 years:									
Fall River, 3 years.....	8	40	48	4	48	52	12	88	1,036
3 cities, 1 year.....	7	43	50	4	46	50	11	89	745

(a) Less than one-half of 1 per cent.

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 46.—PER CENT OF OPERATIVES AND OF NONOPERATIVES OF EACH SEX AND AGE GROUP IN TOTAL OF ALL CLASSES, FOR POPULATION AND FOR DEATHS FROM TUBERCULOSIS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

POPULATION.

Age group, locality, and period.		Males.			Females.			Both sexes.		
		Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
10 to 14 years.....	{ Fall River..	(a)	6	6	1	6	7	1	12	13
	{ 3 cities.....	(a)	6	6	(a)	6	6	(a)	12	12
15 to 19 years.....	{ Fall River..	3	3	6	3	4	7	6	7	13
	{ 3 cities.....	2	4	6	3	4	7	5	8	13
20 to 24 years.....	{ Fall river...	2	3	5	4	4	8	6	7	13
	{ 3 cities.....	1	4	5	3	4	7	4	8	12
25 to 29 years.....	{ Fall River..	2	4	6	2	4	6	4	8	12
	{ 3 cities.....	2	4	6	2	5	7	4	9	13
30 to 34 years.....	{ Fall River..	2	3	5	1	4	5	3	7	10
	{ 3 cities.....	2	3	5	1	4	5	3	7	10
35 to 39 years.....	{ Fall River..	2	3	5	1	3	4	3	6	9
	{ 3 cities.....	1	3	4	1	4	5	2	7	9
40 to 44 years.....	{ Fall River..	1	3	4	1	3	4	2	6	8
	{ 3 cities.....	1	3	4	1	3	4	2	6	8
45 to 54 years.....	{ Fall River..	2	3	5	1	5	6	3	8	11
	{ 3 cities.....	2	4	6	(b)	6	6	2	10	12
55 to 64 years.....	{ Fall River..	1	2	3	(a)	4	4	1	6	7
	{ 3 cities.....	(b)	3	3	(a)	3	3	(b)	6	6
65 years and over.....	{ Fall River..	(a)	2	2	(a)	2	2	(a)	4	4
	{ 3 cities.....	(a)	2	2	(a)	3	3	(a)	5	5
10 years and over.....	{ Fall River..	15	32	47	14	39	53	29	71	c 85,666
	{ 3 cities.....	11	30	47	11	42	53	22	78	c 172,861

DEATHS FROM TUBERCULOSIS.

10 to 14 years.....	{ Fall River, 3 years..	.....	.....	.....	.....	2	2	.....	2	2
	{ 1 year.....	.....	.....	(a)	1	1	1	(a)	1	1
	{ 3 years.....	.....	(a)	(a)	(a)	2	2	(a)	2	2
15 to 19 years.....	{ Fall River, 3 years..	3	2	5	4	2	6	7	4	11
	{ 1 year.....	(b)	2	2	3	3	6	3	5	8
	{ 3 years.....	2	2	4	3	2	5	5	4	9
20 to 24 years.....	{ Fall River, 3 years..	3	2	5	5	2	7	8	4	12
	{ 1 year.....	3	4	7	5	4	9	8	8	16
	{ 3 years.....	2	4	6	5	2	7	7	6	13
25 to 29 years.....	{ Fall River, 3 years..	2	3	5	6	3	9	8	6	14
	{ 1 year.....	2	2	4	5	4	9	7	6	13
	{ 3 years.....	1	4	5	5	5	10	6	9	15
30 to 34 years.....	{ Fall River, 3 years..	4	6	10	4	5	9	8	11	19
	{ 1 year.....	4	9	13	4	4	8	8	13	21
	{ 3 years.....	3	7	10	3	5	8	6	12	18
35 to 39 years.....	{ Fall River, 3 years..	3	6	9	3	2	5	6	8	14
	{ 1 year.....	1	4	5	3	3	6	4	7	11
	{ 3 years.....	2	5	7	2	3	5	4	8	12
40 to 44 years.....	{ Fall River, 3 years..	3	2	5	1	(a)	1	4	2	6
	{ 1 year.....	2	4	6	1	2	3	3	6	9
	{ 3 years.....	2	3	5	1	1	2	3	4	7
45 to 54 years.....	{ Fall River, 3 years..	2	6	8	1	4	5	3	10	13
	{ 1 year.....	2	5	7	1	2	3	3	7	10
	{ 3 years.....	1	6	7	1	4	5	2	10	12
55 to 64 years.....	{ Fall River, 3 years..	1	3	4	.....	2	2	1	5	6
	{ 1 year.....	(b)	4	4	.....	3	3	(b)	7	7
	{ 3 years.....	1	4	5	(a)	3	3	1	7	8
65 years and over.....	{ Fall River, 3 years..	.....	2	2	.....	1	1	.....	3	3
	{ 1 year.....	.....	2	2	.....	2	2	.....	4	4
	{ 3 years.....	.....	2	2	.....	2	2	.....	4	4
10 years and over.....	{ Fall River, 3 years..	21	32	53	24	23	47	45	55	c 466
	{ 1 year.....	14	36	50	22	28	50	36	64	c 360
	{ 3 years.....	14	37	51	20	29	49	34	66	c 953

a Less than one-half of 1 per cent.

b Less than 1 per cent.

c Total on which per cents are based.

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 47.—PER CENT IN SPECIFIED AGE GROUPS OF TOTAL DEATHS FROM EACH SPECIFIED CAUSE, BY SEX AND OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

MALES.

Cause of death, locality, and period.	Operatives.				Nonoperatives.				Both classes.			
	10 to 14 years.	15 to 44 years.	45 to 64 years.	65 years and over.	10 to 14 years.	15 to 44 years.	45 to 64 years.	65 years and over.	10 to 14 years.	15 to 44 years.	45 to 64 years.	65 years and over.
POPULATION (1906).												
Fall River.....	2	80	17	1	18	59	18	5	13	65	18	4
3 cities.....	2	80	17	1	16	61	18	5	13	65	18	4
DEATHS.												
Accident or violence:												
Fall River, 3 years.....	9	66	19	6	7	44	34	15	7	52	29	12
3 cities, 1 year.....	15	55	15	15	7	49	32	12	9	50	28	13
Senility:												
Fall River, 3 years.....				100			9	91			9	91
3 cities, 1 year.....				100			3	97			3	97
Unclassified diseases:												
Fall River, 3 years.....		50	44	6	7	24	43	26	6	28	43	23
3 cities, 1 year.....		38	37	25	6	29	36	29	5	30	36	29
Cancer:												
Fall River, 3 years.....		18	64	18		11	49	40		12	51	37
3 cities, 1 year.....		25	63	12		12	45	43		15	48	37
Diseases of the nervous system:												
Fall River, 3 years.....		78	22		16	25	24	35	13	34	23	30
3 cities, 1 year.....		89		11	18	34	29	19	15	42	25	18
Diseases of the digestive system:												
Fall River, 3 years.....		63	37		5	29	40	26	4	36	39	21
3 cities, 1 year.....		64	36		2	33	40	25	2	37	39	22
Nephritis:												
Fall River, 3 years.....		42	35	23	1	24	46	29	1	27	44	28
3 cities, 1 year.....		53	35	12		23	40	37		27	39	34
Apoplexy:												
Fall River, 3 years.....		27	64	9	1	8	41	50	1	10	42	47
3 cities, 1 year.....		25	58	17		13	34	53		14	37	49
Heart disease:												
Fall River, 3 years.....		38	46	16	1	20	47	32	1	23	46	30
3 cities, 1 year.....		27	33	40	2	18	43	37	2	19	42	37
Respiratory diseases other than tuberculosis:												
Fall River, 3 years.....		53	38	9	3	32	30	35	2	36	32	30
3 cities, 1 year.....		71	29			34	33	33		38	35	29
Total, nontuberculous causes:												
Fall River, 3 years.....	2	50	38	10	3	22	39	36	3	27	39	31
3 cities, 1 year.....	3	49	33	15	3	26	36	35	3	29	35	33
Tuberculosis:												
Fall River, 3 years.....		88	12			64	28	8		73	22	5
3 cities, 1 year.....		84	16			70	24	6		74	21	5
Total, all causes:												
Fall River, 3 years.....	1	62	30	7	3	28	37	32	3	35	36	26
3 cities, 1 year.....	2	60	27	11	2	33	34	31	2	36	33	29
Total, respiratory causes:												
Fall River, 3 years.....		79	19	2	2	49	29	20	1	58	26	15
3 cities, 1 year.....		81	19			52	28	20		58	27	15
Total, nonrespiratory causes:												
Fall River, 3 years.....	2	50	38	10	3	21	40	36	3	26	40	31
3 cities, 1 year.....	3	47	33	17	3	25	36	36	3	27	36	34
Total, all causes:												
Fall River, 3 years.....	1	62	30	7	3	28	37	32	3	35	36	26
3 cities, 1 year.....	2	60	27	11	2	33	34	31	2	36	33	29

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 47.—PER CENT IN SPECIFIED AGE GROUPS OF TOTAL DEATHS FROM EACH SPECIFIED CAUSE, BY SEX AND OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

FEMALES.

Cause of death, locality, and period.	Operatives.				Nonoperatives.				Both classes.			
	10 to 14 years.	15 to 44 years.	45 to 64 years.	65 years and over.	10 to 14 years.	15 to 44 years.	45 to 64 years.	65 years and over.	10 to 14 years.	15 to 44 years.	45 to 64 years.	65 years and over.
POPULATION (1906).												
Fall River.....	2	91	7	.....	16	56	22	6	12	66	18	4
3 cities.....	2	90	8	.....	14	59	21	6	11	66	18	5
DEATHS.												
Accident or violence:												
Fall River, 3 years.....	20	60	20	.....	43	40	17	3	46	37	14	
3 cities, 1 year.....		80	20	.....	4	26	29	41	3	35	28	34
Senility:												
Fall River, 3 years.....							9	91			9	91
3 cities, 1 year.....							4	96			4	96
Unclassified diseases:												
Fall River, 3 years.....	100				4	36	37	23	4	41	34	21
3 cities, 1 year.....	100				7	35	27	31	7	37	26	30
Parturition:												
Fall River, 3 years.....	100					94	6			97	3	.....
3 cities, 1 year.....	100					100				100		.....
Cancer:												
Fall River, 3 years.....	64	36			1	20	50	29	1	24	49	26
3 cities, 1 year.....	17	83			1	17	55	27	1	17	57	25
Diseases of the nervous system:												
Fall River, 3 years.....	80	20			8	32	29	31	6	42	27	25
3 cities, 1 year.....	11	67	22		10	30	28	32	10	35	28	27
Diseases of the digestive system:												
Fall River, 3 years.....	85	11	4		2	17	44	37	1	30	38	31
3 cities, 1 year.....	83	17			5	28	32	35	4	35	30	31
Nephritis:												
Fall River, 3 years.....	64	33	3		4	19	42	35	3	28	40	29
3 cities, 1 year.....	69	31			1	19	47	33	1	26	45	28
Apoplexy:												
Fall River, 3 years.....	50	50				6	50	44		8	50	42
3 cities, 1 year.....	50	50				7	40	53		9	40	51
Heart disease:												
Fall River, 3 years.....	53	47			2	15	46	37	1	18	46	35
3 cities, 1 year.....	40	50	10		1	11	35	53	1	13	36	50
Respiratory diseases other than tuberculosis:												
Fall River, 3 years.....	92	8			2	15	42	41	2	29	36	33
3 cities, 1 year.....	73	27			3	18	31	48	2	25	31	42
Total nontuberculous causes:												
Fall River, 3 years.....	1	79	19	1	2	19	41	38	2	28	37	33
3 cities, 1 year.....	1	70	28	1	2	19	34	45	2	25	33	40
Tuberculosis:												
Fall River, 3 years.....	94	6			7	64	25	4	4	79	15	2
3 cities, 1 year.....	1	94	5		3	72	19	6	2	83	12	3
Total, all causes:												
Fall River, 3 years.....	1	84	15	1	2	23	40	35	2	35	35	28
3 cities, 1 year.....	1	80	18	1	3	25	32	40	2	33	31	34
Total, respiratory causes:												
Fall River, 3 years.....	94	6			4	35	35	26	3	55	25	17
3 cities, 1 year.....	1	89	10		3	40	26	31	2	54	22	22
Total, nonrespiratory causes:												
Fall River, 3 years.....	1	75	23	1	2	20	41	37	2	27	38	33
3 cities, 1 year.....	1	70	28	1	2	20	35	43	2	25	34	39
Total, all causes:												
Fall River, 3 years.....	1	84	15	1	2	23	40	35	2	35	35	28
3 cities, 1 year.....	1	80	18	1	3	25	32	40	2	33	31	34

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 47.—PER CENT IN SPECIFIED AGE GROUPS OF TOTAL DEATHS FROM EACH SPECIFIED CAUSE, BY SEX AND OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

BOTH SEXES.

Cause of death, locality, and period.	Operatives.				Nonoperatives.				Both classes.			
	10 to 14 years.	15 to 44 years.	45 to 64 years.	65 years and over.	10 to 14 years.	15 to 44 years.	45 to 64 years.	65 years and over.	10 to 14 years.	15 to 44 years.	45 to 64 years.	65 years and over.
POPULATION (1906).												
Fall River.....	2	85	12	1	17	57	20	6	13	65	18	4
3 cities.....	2	85	12	1	15	59	20	6	12	65	18	5
DEATHS.												
Accident or violence:												
Fall River, 3 years.....	11	65	19	5	5	44	36	15	6	50	31	13
3 cities, 1 year.....	12	60	16	12	6	42	32	20	8	46	28	18
Senility:												
Fall River, 3 years.....							9	91			9	91
3 cities, 1 year.....							3	97			3	97
Unclassified diseases:												
Fall River, 3 years.....		68	29	3	6	30	40	24	5	34	39	22
3 cities, 1 year.....		50	30	20	7	32	31	30	6	34	31	29
Parturition:												
Fall River, 3 years.....		100				94	6			97	3	
3 cities, 1 year.....		100				100				100		
Cancer:												
Fall River, 3 years.....		44	48	8	1	16	50	33		20	50	30
3 cities, 1 year.....		21	72	7	1	15	52	32	1	16	54	29
Diseases of the nervous system:												
Fall River, 3 years.....		79	21		12	28	26	34	10	37	25	28
3 cities, 1 year.....	5	78	11	6	14	32	28	26	13	38	26	23
Diseases of the digestive system:												
Fall River, 3 years.....		74	24	2	3	22	43	32	3	32	39	26
3 cities, 1 year.....		73	27		3	30	37	30	3	36	35	26
Nephritis:												
Fall River, 3 years.....		54	34	12	3	21	44	32	2	28	42	28
3 cities, 1 year.....		61	33	6		21	44	35	1	26	42	31
Apoplexy:												
Fall River, 3 years.....		37	58	5		7	46	47		9	47	44
3 cities, 1 year.....		31	56	13		10	37	53		11	39	50
Heart disease:												
Fall River, 3 years.....		44	47	9	2	17	46	35	1	20	47	32
3 cities, 1 year.....		32	40	28	1	15	39	45	1	16	39	44
Respiratory diseases other than tuberculosis:												
Fall River, 3 years.....		74	22	4	3	23	36	38	2	32	34	32
3 cities, 1 year.....		72	28		1	26	32	41	1	31	32	36
Total nontuberculous causes:												
Fall River, 3 years.....	1	64	29	6	3	20	40	37	2	28	38	32
3 cities, 1 year.....	2	59	30	9	3	22	35	40	3	27	34	36
Tuberculosis:												
Fall River, 3 years.....		91	9		3	64	27	6	2	76	19	3
3 cities, 1 year.....	1	90	9		1	71	22	6	1	78	17	4
Total, all causes:												
Fall River, 3 years.....	1	73	22	4	3	26	38	33	2	35	36	27
3 cities, 1 year.....	1	71	22	6	3	28	33	36	2	35	32	31
Total, respiratory causes:												
Fall River, 3 years.....		87	12	1	3	42	32	23	2	57	25	16
3 cities, 1 year.....	1	86	13		2	46	27	25	1	56	24	19
Total, nonrespiratory causes:												
Fall River, 3 years.....	1	62	31	6	3	20	40	37	2	27	39	32
3 cities, 1 year.....	2	57	31	10	3	22	35	40	3	26	35	36
Total, all causes:												
Fall River, 3 years.....	1	73	22	4	3	26	38	33	2	35	36	27
3 cities, 1 year.....	1	71	22	6	3	28	33	36	2	35	32	31

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 48.—DEATHS OF OPERATIVES AND NONOPERATIVES FROM 1907, AND 3 CITIES (FALL RIVER, OPERATIVES.

Cause of death, locality, and period.	Males.						
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
POPULATION.							
Fall River.....	10,980	2,030	690	4,072	4,215	2,003	13,010
3 cities.....	15,937	2,794	1,496	4,868	5,888	3,685	18,731
DEATHS.							
Accident or violence:							
Fall River, 3 years.....	25	7		14	6	5	32
3 cities, 1 year.....	17	3	1	8	4	4	20
Senility:							
Fall River, 3 years.....		1					1
3 cities, 1 year.....		1					1
Unclassified diseases:							
Fall River, 3 years.....	16	2		10	5	1	18
3 cities, 1 year.....	7	1	2	3	1	1	8
Parturition:							
Fall River, 3 years.....							
3 cities, 1 year.....							
Cancer:							
Fall River, 3 years.....	6	5		5	1		11
3 cities, 1 year.....	4	4		2	2		8
Diseases of the nervous system:							
Fall River, 3 years.....	8	1		2	4	2	9
3 cities, 1 year.....	8	1		2	4	2	9
Diseases of the digestive system:							
Fall River, 3 years.....	21	6	2	6	9	4	27
3 cities, 1 year.....	11	3	1	3	3	4	14
Nephritis:							
Fall River, 3 years.....	18	8	4	8	4	2	26
3 cities, 1 year.....	12	5	3	3	4	2	17
Apoplexy:							
Fall River, 3 years.....	9	2	1	5	2	1	11
3 cities, 1 year.....	11	1	2	5	2	2	12
Heart disease:							
Fall River, 3 years.....	18	8	1	8	5	4	26
3 cities, 1 year.....	9	6	1	5	2	1	15
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	26	6	3	7	12	4	32
3 cities, 1 year.....	12	5	3	3	6		17
Total, nontuberculous causes:							
Fall River, 3 years.....	147	46	11	65	48	23	193
3 cities, 1 year.....	91	30	13	34	28	16	121
Tuberculosis:							
Fall River, 3 years.....	70	24	6	19	28	17	94
3 cities, 1 year.....	40	13	4	10	16	10	53
Total, all causes:							
Fall River, 3 years.....	217	70	17	84	76	40	287
3 cities, 1 year.....	131	43	17	44	44	26	174
Total, respiratory causes:							
Fall River, 3 years.....	96	30	9	26	40	21	126
3 cities, 1 year.....	52	18	7	13	22	10	70
Total, nonrespiratory causes:							
Fall River, 3 years.....	121	40	8	58	36	19	161
3 cities, 1 year.....	79	25	10	31	22	16	104
Total, all causes:							
Fall River, 3 years.....	217	70	17	84	76	40	287
3 cities, 1 year.....	131	43	17	44	44	26	174

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

EACH SPECIFIED CAUSE, BY SEX AND RACE, FALL RIVER, 1905 TO MANCHESTER, AND PAWTUCKET, 1 YEAR.

OPERATIVES.

Cause of death, locality, and period.	Females.						
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
POPULATION.							
Fall River.....	9,376	2,772	784	3,254	3,764	1,574	12,148
3 cities.....	15,260	4,457	1,311	4,613	6,720	2,586	19,717
DEATHS.							
Accident or violence:							
Fall River, 3 years.....	4	1	1	2	1		5
3 cities, 1 year.....	5			3	2		5
Senility:							
Fall River, 3 years.....							
3 cities, 1 year.....							
Unclassified diseases:							
Fall River, 3 years.....	9	1		5	3	1	10
3 cities, 1 year.....	1	1		1			2
Parturition:							
Fall River, 3 years.....	22	4		8	7	7	26
3 cities, 1 year.....	13	2		3	6	4	15
Cancer:							
Fall River, 3 years.....	9	5		4	4	1	14
3 cities, 1 year.....	4	2		3	1		6
Diseases of the nervous system:							
Fall River, 3 years.....	4	6		1	2	1	10
3 cities, 1 year.....	4	5			4		9
Diseases of the digestive system:							
Fall River, 3 years.....	20	7	3	5	8	4	27
3 cities, 1 year.....	9	3	2	3	3	1	12
Nephritis:							
Fall River, 3 years.....	17	16	5	7	3	2	33
3 cities, 1 year.....	9	7	3	3	2	1	16
Apoplexy:							
Fall River, 3 years.....	6	2	1	3	2		8
3 cities, 1 year.....	4		1	2	1		4
Heart disease:							
Fall River, 3 years.....	10	7	2	2	5	1	17
3 cities, 1 year.....	4	6	1	2	1		10
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	28	9	2	5	19	2	37
3 cities, 1 year.....	15	7	1	4	9	1	22
Total, nontuberculous causes:							
Fall River, 3 years...	129	58	14	42	54	19	187
3 cities, 1 year.....	68	33	8	24	29	7	101
Tuberculosis:							
Fall River, 3 years.....	73	39	5	16	39	13	112
3 cities, 1 year.....	51	27	6	14	25	6	78
Total, all causes:							
Fall River, 3 years...	202	97	19	58	93	32	299
3 cities, 1 year.....	119	60	14	38	54	13	179
Total, respiratory causes:							
Fall River, 3 years.....	101	48	7	21	58	15	149
3 cities, 1 year.....	66	34	7	18	34	7	100
Total, nonrespiratory causes:							
Fall River, 3 years.....	101	49	12	37	35	17	150
3 cities, 1 year.....	53	26	7	20	20	6	79
Total, all causes:							
Fall River, 3 years...	202	97	19	58	93	32	299
3 cities, 1 year.....	119	60	14	38	54	13	179

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 48.—DEATHS OF OPERATIVES AND NONOPERATIVES FROM 1907, AND 3 CITIES (FALL RIVER, MANCHESTER,

NONOPERATIVES.

Cause of death, locality, and period.	Males.						All races.
	Non-Irish.	Irish.	Amer-ican.	English.	French Canadian.	Other races.	
POPULATION.							
Fall River.....	22,982	4,343	6,732	5,044	6,796	4,410	27,325
3 cities.....	51,270	10,925	18,899	10,433	15,606	6,332	62,195
DEATHS.							
Accident or violence:							
Fall River, 3 years.....	47	14	7	19	14	7	61
3 cities, 1 year.....	55	13	12	18	13	12	68
Senility:							
Fall River, 3 years.....	32	14	9	12	9	2	46
3 cities, 1 year.....	25	6	12	7	6		31
Unclassified diseases:							
Fall River, 3 years.....	80	25	18	21	29	12	105
3 cities, 1 year.....	52	20	17	12	17	6	72
Parturition:							
Fall River, 3 years.....							
3 cities, 1 year.....							
Cancer:							
Fall River, 3 years.....	47	18	11	17	11	8	65
3 cities, 1 year.....	32	8	14	7	8	3	40
Diseases of the nervous system:							
Fall River, 3 years.....	42	9	12	10	15	5	51
3 cities, 1 year.....	48	8	19	5	19	5	56
Diseases of the digestive system:							
Fall River, 3 years.....	59	36	13	21	18	7	95
3 cities, 1 year.....	59	39	23	11	21	4	98
Nephritis:							
Fall River, 3 years.....	61	49	15	22	17	7	110
3 cities, 1 year.....	74	36	30	19	17	8	110
Apoplexy:							
Fall River, 3 years.....	74	37	19	28	23	4	111
3 cities, 1 year.....	76	29	26	21	23	6	105
Heart disease:							
Fall River, 3 years.....	107	61	36	34	25	12	168
3 cities, 1 year.....	78	36	36	16	18	8	114
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	81	52	18	28	22	13	133
3 cities, 1 year.....	80	49	28	25	17	10	129
Total, nontuberculous causes:							
Fall River, 3 years...	630	315	158	212	183	77	945
3 cities, 1 year.....	579	244	217	141	159	62	823
Tuberculosis:							
Fall River, 3 years.....	80	72	20	24	20	16	152
3 cities, 1 year.....	67	60	21	18	21	7	127
Total, all causes:							
Fall River, 3 years...	710	387	178	236	203	93	1,097
3 cities, 1 year.....	646	304	238	159	180	69	950
Total, respiratory causes:							
Fall River, 3 years.....	161	124	38	52	42	29	285
3 cities, 1 year.....	147	109	49	43	38	17	256
Total, nonrespiratory causes:							
Fall River, 3 years.....	549	263	140	184	161	64	812
3 cities, 1 year.....	499	195	189	116	142	52	694
Total, all causes:							
Fall River, 3 years...	710	387	178	236	203	93	1,097
3 cities, 1 year.....	646	304	238	159	180	69	950

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

EACH SPECIFIED CAUSE, BY SEX AND RACE, FALL RIVER, 1905 TO AND PAWTUCKET), 1 YEAR—Concluded.

NONOPERATIVES.

Cause of death, locality, and period.	Females.						
	Non-Irish.	Irish.	Ameri-can.	Englisch.	French Canadian	Other races.	All races.
POPULATION.							
Fall River.....	27,297	5,886	7,512	6,900	8,339	4,546	33,183
3 cities, 1 year.....	58,204	14,014	21,415	12,681	17,100	7,008	72,218
DEATHS.							
Accident or violence:							
Fall River, 3 years.....	13	17	5	4	3	1	30
3 cities, 1 year.....	17	10	8	5	2	2	27
Senility:							
Fall River, 3 years.....	48	27	22	15	8	3	75
3 cities, 1 year.....	39	16	24	7	7	1	55
Unclassified diseases:							
Fall River, 3 years.....	78	31	25	23	20	10	109
3 cities, 1 year.....	63	19	24	9	20	10	82
Parturition:							
Fall River, 3 years.....	26	7	1	3	15	7	33
3 cities, 1 year.....	17	7	2	3	10	2	24
Cancer:							
Fall River, 3 years.....	97	26	24	42	26	5	123
3 cities, 1 year.....	69	20	31	23	13	2	89
Diseases of the nervous system:							
Fall River, 3 years.....	28	10	9	10	7	2	38
3 cities, 1 year.....	42	18	18	8	15	1	60
Diseases of the digestive system:							
Fall River, 3 years.....	75	50	20	21	31	3	125
3 cities, 1 year.....	56	27	22	11	20	3	83
Nephritis:							
Fall River, 3 years.....	67	60	24	20	13	10	127
3 cities, 1 year.....	62	39	25	16	15	6	101
Apoplexy:							
Fall River, 3 years.....	82	61	31	28	16	7	143
3 cities, 1 year.....	99	47	47	26	23	3	146
Heart disease:							
Fall River, 3 years.....	119	76	38	33	34	14	195
3 cities, 1 year.....	88	44	41	15	24	8	132
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	111	54	28	29	39	15	165
3 cities, 1 year.....	90	56	32	19	33	6	146
Total, nontuberculous causes:							
Fall River, 3 years...	744	419	227	228	212	77	1,163
3 cities, 1 year.....	642	303	274	142	182	44	945
Tuberculosis:							
Fall River, 3 years.....	76	32	16	19	24	17	108
3 cities, 1 year.....	66	36	17	12	27	10	102
Total, all causes:							
Fall River, 3 years...	820	451	243	247	236	94	1,271
3 cities, 1 year.....	708	339	291	154	209	54	1,047
Total, respiratory causes:							
Fall River, 3 years.....	187	86	44	48	63	32	273
3 cities, 1 year.....	166	92	49	31	60	16	248
Total, nonrespiratory causes:							
Fall River, 3 years.....	633	365	199	199	173	62	998
3 cities, 1 year.....	552	247	242	123	149	38	799
Total, all causes:							
Fall River, 3 years...	820	451	243	247	236	94	1,271
3 cities, 1 year.....	708	339	291	154	209	54	1,047

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 49.—DEATH RATES OF OPERATIVES AND NONOPERATIVES PER CAUSE, BY SEX AND RACE, FALL RIVER, 1905 TO 1907, AND 3

OPERATIVES.

Cause of death, locality, and period.	Males.						
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
Accident or violence:							
Fall River, 3 years.....	0.76	1.15		1.14	0.47	0.84	0.82
3 cities, 1 year.....	1.07	1.07	0.67	1.64	.68	1.09	1.07
Senility:							
Fall River, 3 years.....		.16					.03
3 cities, 1 year.....		.36					.05
Unclassified diseases:							
Fall River, 3 years.....	.48	.33		.82	.40	.17	.46
3 cities, 1 year.....	.44	.36	1.33	.61	.17	.27	.43
Parturition:							
Fall River, 3 years.....							
3 cities, 1 year.....							
Cancer:							
Fall River, 3 years.....	.18	.82		.41	.08		.28
3 cities, 1 year.....	.25	1.43		.41	.34		.43
Diseases of the nervous system:							
Fall River, 3 years.....	.24	.16		.16	.32	.33	.23
3 cities, 1 year.....	.50	.36		.41	.68	.54	.48
Diseases of the digestive system:							
Fall River, 3 years.....	.64	.99	.97	.49	.71		.66
3 cities, 1 year.....	.69	1.07	.67	.62	.51	1.09	.75
Nephritis:							
Fall River, 3 years.....	.55	1.31	1.93	.66	.31	.33	.67
3 cities, 1 year.....	.76	1.79	2.01	.62	.68	.54	.91
Apoplexy:							
Fall River, 3 years.....	.27	.33	.48	.41	.16	.17	.28
3 cities, 1 year.....	.69	.36	1.33	1.03	.34	.54	.64
Heart disease:							
Fall River, 3 years.....	.55	1.31	.48	.66	.40	.66	.66
3 cities, 1 year.....	.56	2.15	.67	1.03	.34	.27	.80
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	.79	.99	1.45	.57	.95	.67	.82
3 cities, 1 year.....	.75	1.79	2.01	.62	1.02		.91
Total, nontuberculous causes:							
Fall River, 3 years...	4.46	7.55	5.31	5.32	3.80	3.83	4.94
3 cities, 1 year.....	5.71	10.74	8.69	6.99	4.76	4.34	6.46
Tuberculosis:							
Fall River, 3 years.....	2.13	3.94	2.90	1.56	2.21	2.83	2.41
3 cities, 1 year.....	2.51	4.65	2.67	2.05	2.71	2.72	2.83
Total, all causes:							
Fall River, 3 years...	6.59	11.49	8.21	6.88	6.01	6.66	7.35
3 cities, 1 year.....	8.22	15.39	11.36	9.04	7.47	7.06	9.29
Total, respiratory causes:							
Fall River, 3 years.....	2.92	4.93	4.35	2.13	3.16	3.50	3.23
3 cities, 1 year.....	3.26	6.44	4.68	2.67	3.73	2.72	3.74
Total, nonrespiratory causes:							
Fall River, 3 years.....	3.67	6.56	3.86	4.75	2.85	3.16	4.12
3 cities, 1 year.....	4.96	20.18	6.68	6.37	3.74	4.34	5.55
Total, all causes:							
Fall River, 3 years...	6.59	11.49	8.21	6.88	6.01	6.66	7.35
3 cities, 1 year.....	8.22	15.39	11.36	9.04	7.47	7.06	9.29

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

1,000 POPULATION 10 YEARS OF AGE AND OVER FROM EACH SPECIFIED CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

OPERATIVES.

Cause of death, locality, and period.	Females						All races.
	Non-Irish.	Irish.	Ameri-can.	English.	French Canadian.	Other races.	
Accident or violence:							
Fall River, 3 years.....	0.14	0.12	0.42	0.21	0.09		0.14
3 cities, 1 year.....	.33			.65	.30		.25
Senility:							
Fall River, 3 years.....							
3 cities, 1 year.....							
Unclassified diseases:							
Fall River, 3 years.....	.32	.12		.51	.27	0.21	.27
3 cities, 1 year.....	.07	.22		.22			.10
Parturition:							
Fall River, 3 years.....	.78	.48		.82	.62	1.49	.71
3 cities, 1 year.....	.85	.45		.65	.89	1.54	.76
Cancer:							
Fall River, 3 years.....	.32	.60		.41	.35	.21	.38
3 cities, 1 year.....	.26	.45		.65	.15		.30
Diseases of the nervous system:							
Fall River, 3 years.....	.14	.72		.10	.18	.21	.27
3 cities, 1 year.....	.26	1.12			.58		.46
Diseases of the digestive system:							
Fall River, 3 years.....	.71	.84	1.28	.51	.70	.85	.74
3 cities, 1 year.....	.59	.67	1.49	.65	.45	.39	.62
Nephritis:							
Fall River, 3 years.....	.61	1.93	2.13	.71	.27	.42	.91
3 cities, 1 year.....	.59	1.57	2.23	.65	.30	.39	.81
Apoplexy:							
Fall River, 3 years.....	.21	.24	.42	.31	.18		.22
3 cities, 1 year.....	.26		.75	.44	.15		.20
Heart disease:							
Fall River, 3 years.....	.36	.84	.85	.21	.44	.21	.47
3 cities, 1 year.....	.26	1.35	.75	.43	.15		.51
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	1.00	1.08	.85	.51	1.68	.42	1.02
3 cities, 1 year.....	.99	1.57	.75	.86	1.34	.39	1.11
Total, nontuberculous causes:							
Fall River, 3 years...	4.59	6.97	5.95	4.30	4.78	4.02	5.13
3 cities, 1 year.....	4.46	7.40	5.97	5.20	4.32	2.71	5.12
Tuberculosis:							
Fall River, 3 years.....	2.59	4.69	2.13	1.64	3.46	2.76	3.07
3 cities, 1 year.....	3.34	6.06	4.47	3.04	3.72	2.32	3.96
Total, all causes:							
Fall River, 3 years...	7.18	11.66	8.08	5.94	8.24	6.78	8.20
3 cities, 1 year.....	7.80	13.46	10.44	8.24	8.04	5.03	9.08
Total, respiratory causes:							
Fall River, 3 years.....	3.59	5.77	2.98	2.15	5.14	3.18	4.05
3 cities, 1 year.....	4.33	7.63	5.22	3.90	5.06	2.71	5.07
Total, nonrespiratory causes:							
Fall River, 3 years.....	3.59	5.89	5.10	3.79	3.10	3.60	4.11
3 cities, 1 year.....	3.47	5.83	5.22	4.34	2.98	2.32	4.01
Total, all causes:							
Fall River, 3 years...	7.18	11.66	8.08	5.94	8.24	6.78	8.20
3 cities, 1 year.....	7.80	13.46	10.44	8.24	8.04	5.03	9.08

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 49.—DEATH RATES OF OPERATIVES AND NONOPERATIVES PER CAUSE, BY SEX AND RACE, FALL RIVER, 1905 TO 1907, AND 3 CITIES

NONOPERATIVES.

Cause of death, locality, and period.	Males.						
	Non-Irish.	Irish.	Ameri-can.	English.	French Canadian.	Other races.	All races.
Accident or violence:							
Fall River, 3 years.....	0.68	1.07	0.35	1.26	0.69	0.53	0.75
3 cities, 1 year.....	1.07	1.19	.63	1.73	.83	1.90	1.09
Senility:							
Fall River, 3 years.....	.47	1.07	.45	.79	.44	.15	.56
3 cities, 1 year.....	.49	.55	.63	.67	.39	.....	.50
Unclassified diseases:							
Fall River, 3 years.....	1.16	1.92	.89	1.39	1.42	.91	1.28
3 cities, 1 year.....	1.02	1.83	.90	1.15	1.09	.95	1.16
Parturition:							
Fall River, 3 years.....	.....	.....	.....	.....	.....	.....	.....
3 cities, 1 year.....	.....	.....	.....	.....	.....	.....	.....
Cancer:							
Fall River, 3 years.....	.68	1.38	.55	1.12	.54	.60	.79
3 cities, 1 year.....	.62	.73	.74	.67	.51	.47	.64
Diseases of the nervous system:							
Fall River, 3 years.....	.61	.69	.59	.66	.74	.38	.62
3 cities, 1 year.....	.94	.73	1.00	.48	1.22	.79	.90
Diseases of the digestive system:							
Fall River, 3 years.....	.86	2.77	.64	1.39	.88	.53	1.16
3 cities, 1 year.....	1.15	3.57	1.22	1.06	1.35	.63	1.57
Nephritis:							
Fall River, 3 years.....	.89	3.76	.74	1.45	.83	.53	1.34
3 cities, 1 year.....	1.44	3.30	1.59	1.82	1.09	1.26	1.77
Apoplexy:							
Fall River, 3 years.....	1.07	2.84	.94	1.85	1.13	.30	1.35
3 cities, 1 year.....	1.48	2.65	1.38	2.01	1.47	.95	1.69
Heart disease:							
Fall River, 3 years.....	1.55	4.68	1.78	2.25	1.23	.91	2.05
3 cities, 1 year.....	1.52	3.30	1.91	1.53	1.15	1.26	1.83
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	1.17	4.00	.89	1.85	1.08	.98	1.63
3 cities, 1 year.....	1.56	4.49	1.48	2.39	1.09	1.53	2.08
Total, nontuberculous causes:							
Fall River, 3 years...	9.14	24.18	7.82	14.01	8.98	5.82	11.53
3 cities, 1 year.....	11.29	22.34	11.48	13.51	10.19	9.79	13.23
Tuberculosis:							
Fall River, 3 years.....	1.16	5.52	.99	1.59	.98	1.21	1.85
3 cities, 1 year.....	1.31	5.49	1.11	1.73	1.34	1.11	2.04
Total, all causes:							
Fall River, 3 years...	10.30	29.70	8.81	15.60	9.96	7.03	13.38
3 cities, 1 year.....	12.60	27.83	12.59	15.24	11.53	10.90	15.27
Total, respiratory causes:							
Fall River, 3 years.....	2.33	9.52	1.88	3.44	2.06	2.19	3.48
3 cities, 1 year.....	2.87	9.98	2.59	4.12	2.43	2.69	4.12
Total, nonrespiratory causes:							
Fall River, 3 years.....	7.97	20.18	6.93	12.16	7.90	4.84	9.90
3 cities, 1 year.....	9.73	17.85	10.00	11.12	9.10	8.21	11.15
Total, all causes:							
Fall River, 3 years...	10.30	29.70	8.81	15.60	9.96	7.03	13.38
3 cities, 1 year.....	12.60	27.83	12.59	15.24	11.53	10.90	15.27

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

1,000 POPULATION 10 YEARS OF AGE AND OVER FROM EACH SPECIFIED (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

NONOPERATIVES.

Cause of death, locality, and period.	Females.						
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
Accident or violence:							
Fall River, 3 years.....	0.16	0.96	0.22	0.19	0.12	0.07	0.30
3 cities, 1 year.....	.29	.71	.37	.40	.12	.29	.37
Senility:							
Fall River, 3 years.....	.59	1.53	.98	.73	.32	.22	.75
3 cities, 1 year.....	.67	1.14	1.12	.55	.41	.14	.76
Unclassified diseases:							
Fall River, 3 years.....	.95	1.76	1.11	1.11	.80	.73	1.09
3 cities, 1 year.....	1.09	1.36	1.12	.71	1.17	1.42	1.14
Parturition:							
Fall River, 3 years.....	.32	.40	.04	.15	.59	.51	.33
3 cities, 1 year.....	.29	.50	.09	.24	.58	.29	.33
Cancer:							
Fall River, 3 years.....	1.18	1.47	1.06	2.03	1.04	.37	1.24
3 cities, 1 year.....	1.19	1.43	1.45	1.81	.76	.29	1.23
Diseases of the nervous system:							
Fall River, 3 years.....	.34	.57	.40	.48	.28	.15	.38
3 cities, 1 year.....	.72	1.29	.84	.63	.88	.14	.83
Diseases of the digestive system:							
Fall River, 3 years.....	.92	2.83	.89	1.02	1.24	.22	1.26
3 cities, 1 year.....	.96	1.93	1.03	.87	1.17	.43	1.15
Nephritis:							
Fall River, 3 years.....	.82	3.40	1.06	.97	.52	.73	1.28
3 cities, 1 year.....	1.06	2.78	1.17	1.26	.88	.85	1.40
Apoplexy:							
Fall River, 3 years.....	1.00	3.45	1.38	1.35	.64	.51	1.44
3 cities, 1 year.....	1.70	3.35	2.20	2.05	1.34	.43	2.02
Heart disease:							
Fall River, 3 years.....	1.45	4.30	1.69	1.59	1.36	1.03	1.96
3 cities, 1 year.....	1.51	3.14	1.91	1.18	1.40	1.14	1.83
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	1.35	3.06	1.24	1.40	1.56	1.10	1.65
3 cities, 1 year.....	1.55	3.99	1.50	1.50	1.93	.86	2.03
Total, nontuberculous causes:							
Fall River, 3 years....	9.08	23.73	10.07	11.01	8.47	5.64	11.68
3 cities, 1 year.....	11.03	21.62	12.80	11.20	10.64	6.28	13.09
Tuberculosis:							
Fall River, 3 years....	.93	1.81	.71	.92	.96	1.25	1.09
3 cities, 1 year.....	1.13	2.57	.79	.94	1.58	1.43	1.41
Total, all causes:							
Fall River, 3 years....	10.01	25.54	10.78	11.93	9.43	6.89	12.77
3 cities, 1 year.....	12.16	24.19	13.59	12.14	12.22	7.71	14.50
Total, respiratory causes:							
Fall River, 3 years.....	2.28	4.87	1.95	2.32	2.52	2.35	2.74
3 cities, 1 year.....	2.68	6.56	2.29	2.44	3.51	2.29	3.44
Total, nonrespiratory causes:							
Fall River, 3 years.....	7.73	20.67	8.83	9.61	6.91	4.54	10.03
3 cities, 1 year.....	9.48	17.63	11.30	9.70	8.71	54.42	11.06
Total, all causes:							
Fall River, 3 years....	10.01	25.54	10.78	11.93	9.43	6.89	12.77
3 cities, 1 year.....	12.16	24.19	13.59	12.14	12.22	7.71	14.50

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 50.—RACE PERCENTAGE DISTRIBUTION OF OPERATIVE AND DEATH, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL

OPERATIVES.

Cause of death, locality, and period.	Males.						Number, all races (100 per cent).
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	
POPULATION.							
Fall River, 3 years.....	84	16	5	31	33	15	13,010
3 cities, 1 year.....	85	15	8	26	31	20	18,731
DEATHS.							
Accident or violence:							
Fall River, 3 years.....	78	22		44	19	15	32
3 cities, 1 year.....	85	15	5	40	20	20	20
Senility:							
Fall River, 3 years.....		100					1
3 cities, 1 year.....		100					1
Unclassified diseases:							
Fall River, 3 years.....	89	11		56	28	5	18
3 cities, 1 year.....	87	13	25	38	12	12	8
Parturition:							
Fall River, 3 years.....							
3 cities, 1 year.....							
Cancer:							
Fall River, 3 years.....	55	45		45	10		11
3 cities, 1 year.....	50	50		25	25		8
Diseases of the nervous system:							
Fall River, 3 years.....	89	11		22	45	22	9
3 cities, 1 year.....	89	11		22	45	22	9
Diseases of the digestive system:							
Fall River, 3 years.....	78	22	8	22	33	15	27
3 cities, 1 year.....	78	22	7	22	22	27	14
Nephritis:							
Fall River, 3 years.....	69	31	15	31	15	8	26
3 cities, 1 year.....	71	29	18	18	23	12	17
Apoplexy:							
Fall River, 3 years.....	82	18	9	46	18	9	11
3 cities, 1 year.....	92	8	17	41	17	17	12
Heart disease:							
Fall River, 3 years.....	69	31	4	31	19	15	26
3 cities, 1 year.....	60	40	7	33	13	7	15
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	81	19	10	22	37	12	32
3 cities, 1 year.....	71	29	18	18	35		17
Total, nontuberculous causes:							
Fall River, 3 years....	76	24	6	33	25	12	193
3 cities, 1 year.....	75	25	11	28	23	13	121
Tuberculosis:							
Fall River, 3 years.....	74	26	6	20	30	18	94
3 cities, 1 year.....	75	25	7	19	30	19	53
Total, all causes:							
Fall River, 3 years....	76	24	6	30	26	14	287
3 cities, 1 year.....	75	25	10	25	25	15	174
Total, respiratory causes:							
Fall River, 3 years.....	76	24	7	20	32	17	126
3 cities, 1 year.....	74	26	10	19	31	14	70
Total, nonrespiratory causes:							
Fall River, 3 years.....	75	25	5	36	22	12	161
3 cities, 1 year.....	76	24	10	30	21	15	104
Total, all causes:							
Fall River, 3 years....	76	24	6	30	26	14	287
3 cities, 1 year.....	75	25	10	25	25	15	174

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

NONOPERATIVE MALE AND FEMALE DECEDENTS, BY CAUSE OF RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

OPERATIVES.

Cause of death, locality, and period.	Females.						Number, all races (100 per cent).
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	
POPULATION.							
Fall River, 3 years.....	77	23	6	27	31	13	12,148
3 cities, 1 year.....	77	23	7	23	34	13	19,717
DEATHS.							
Accident or violence:							
Fall River, 3 years.....		20	20	40	20		5
3 cities, 1 year.....	100				60	40	5
Senility:							
Fall River, 3 years.....							
3 cities, 1 year.....							
Unclassified diseases:							
Fall River, 3 years.....	90	10		50	30	10	10
3 cities, 1 year.....	50	50		50			2
Parturition:							
Fall River, 3 years.....	85	15		31	27	27	26
3 cities, 1 year.....	87	13		20	40	27	15
Cancer:							
Fall River, 3 years.....	64	36		28	28	8	14
3 cities, 1 year.....	67	33		50	17		6
Diseases of the nervous system:							
Fall River, 3 years.....	40	60		10	20	10	10
3 cities, 1 year.....	44	56			44		9
Diseases of the digestive system:							
Fall River, 3 years.....	74	26	11	18	30	15	27
3 cities, 1 year.....	75	25	17	25	25	8	12
Nephritis:							
Fall River, 3 years.....	52	48	15	22	9	6	33
3 cities, 1 year.....	56	44	19	19	12	6	16
Apoplexy:							
Fall River, 3 years.....	75	25	12	38	25		8
3 cities, 1 year.....	100			25	50	25	4
Heart disease:							
Fall River, 3 years.....	59	41	12	12	19	6	17
3 cities, 1 year.....	40	60	10	20	10		10
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	76	24	6	13	51	6	37
3 cities, 1 year.....	68	32	4	19	41	4	22
Total, nontuberculous causes:							
Fall River, 3 years...	69	31	8	22	29	10	187
3 cities, 1 year.....	68	32	8	24	29	7	101
Tuberculosis:							
Fall River, 3 years.....	65	35	4	14	35	12	112
3 cities, 1 year.....	65	35	8	18	32	7	8
Total, all causes:							
Fall River, 3 years ..	67	33	6	19	31	11	299
3 cities, 1 year.....	66	34	8	21	30	7	179
Total, respiratory causes:							
Fall River, 3 years.....	68	32	5	14	39	10	149
3 cities, 1 year.....	66	34	7	18	34	7	100
Total, nonrespiratory causes:							
Fall River, 3 years.....	67	33	8	25	23	11	150
3 cities, 1 year.....	67	33	9	25	25	8	79
Total, all causes:							
Fall River, 3 years...	67	33	6	19	31	11	299
3 cities, 1 year.....	66	34	8	21	30	7	179

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 50.—RACE PERCENTAGE DISTRIBUTION OF OPERATIVE AND DEATH, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL

NONOPERATIVES.

Cause of death, locality, and period.	Males.						Number, all races (100 per cent).
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	
POPULATION.							
Fall River.....	84	16	25	18	25	16	27,325
3 cities.....	82	18	30	17	25	10	62,195
DEATHS.							
Accident or violence:							
Fall River, 3 years.....	77	23	11	31	24	11	61
3 cities, 1 year.....	81	19	18	26	19	18	68
Senility:							
Fall River, 3 years.....	70	30	20	26	20	4	46
3 cities, 1 year.....	81	19	39	23	19		31
Unclassified diseases:							
Fall River, 3 years.....	76	24	17	20	28	11	105
3 cities, 1 year.....	72	28	24	16	24	8	72
Parturition:							
Fall River, 3 years.....							
3 cities, 1 year.....							
Cancer:							
Fall River, 3 years.....	72	28	17	26	17	12	65
3 cities, 1 year.....	80	20	35	18	20	7	40
Diseases of the nervous system:							
Fall River, 3 years.....	82	18	23	20	29	10	51
3 cities, 1 year.....	86	14	34	9	34	9	56
Diseases of the digestive system:							
Fall River, 3 years.....	62	38	14	22	19	7	95
3 cities, 1 year.....	60	40	24	11	21	4	98
Nephritis:							
Fall River, 3 years.....	55	45	14	20	15	6	110
3 cities, 1 year.....	67	33	27	17	16	7	110
Apoplexy:							
Fall River, 3 years.....	67	33	17	25	21	4	111
3 cities, 1 year.....	72	28	25	20	22	5	105
Heart disease:							
Fall River, 3 years.....	64	36	22	20	15	7	168
3 cities, 1 year.....	68	32	31	14	16	7	114
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	61	39	14	21	16	10	133
3 cities, 1 year.....	62	38	22	19	13	8	129
Total, nontuberculous causes:							
Fall River, 3 years....	67	33	17	23	19	8	945
3 cities, 1 year.....	70	30	26	17	19	8	823
Tuberculosis:							
Fall River, 3 years.....	53	47	13	16	13	11	152
3 cities, 1 year.....	53	47	17	14	17	5	127
Total, all causes:							
Fall River, 3 years....	65	35	16	22	19	8	1,097
3 cities, 1 year.....	68	32	25	17	19	7	950
Total, respiratory causes:							
Fall River, 3 years.....	56	44	13	18	15	10	285
3 cities, 1 year.....	57	43	19	17	15	6	256
Total, nonrespiratory causes:							
Fall River, 3 years.....	68	32	17	23	20	8	812
3 cities, 1 year.....	72	28	27	17	20	8	694
Total, all causes:							
Fall River, 3 years....	65	35	16	22	19	8	1,097
3 cities, 1 year.....	68	32	25	17	19	7	950

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

NONOPERATIVE MALE AND FEMALE DECEDENTS, BY CAUSE OF RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

NONOPERATIVES.

Cause of death, locality, and period.	Females.						Number, all races (100 per cent).
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	
POPULATION.							
Fall River.....	82	18	23	21	25	13	33,183
3 cities.....	81	19	30	17	24	10	72,218
DEATHS.							
Accident or violence:							
Fall River, 3 years.....	43	57	17	13	10	3	30
3 cities, 1 year.....	63	37	30	19	7	7	27
Senility:							
Fall River, 3 years.....	64	36	29	20	11	4	75
3 cities, 1 year.....	71	29	43	13	13	2	55
Unclassified diseases:							
Fall River, 3 years.....	77	28	23	21	19	9	109
3 cities, 1 year.....	77	23	29	11	25	12	82
Parturition:							
Fall River, 3 years.....	79	21	3	9	46	21	33
3 cities, 1 year.....	71	29	8	13	42	8	24
Cancer:							
Fall River, 3 years.....	79	21	20	34	21	4	123
3 cities, 1 year.....	78	22	35	26	15	2	89
Diseases of the nervous system:							
Fall River, 3 years.....	74	26	24	26	19	5	38
3 cities, 1 year.....	70	30	30	13	25	2	60
Diseases of the digestive system:							
Fall River, 3 years.....	60	40	16	17	25	2	125
3 cities, 1 year.....	67	33	26	13	24	4	83
Nephritis:							
Fall River, 3 years.....	53	47	19	16	10	8	127
3 cities, 1 year.....	61	39	24	16	15	6	101
Apoplexy:							
Fall River, 3 years.....	57	43	22	19	11	5	143
3 cities, 1 year.....	68	32	32	18	16	2	146
Heart disease:							
Fall River, 3 years.....	61	39	20	17	17	7	195
3 cities, 1 year.....	67	33	31	12	18	6	132
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	67	33	17	17	24	9	165
3 cities, 1 year.....	62	38	22	13	23	4	146
Total, nontuberculous causes:							
Fall River, 3 years....	64	36	19	20	18	7	1,163
3 cities, 1 year.....	68	32	29	15	19	5	945
Tuberculosis:							
Fall River, 3 years.....	70	30	15	17	22	16	108
3 cities, 1 year.....	71	29	20	14	27	10	102
Total, all causes:							
Fall River, 3 years....	64	36	19	19	18	8	1,271
3 cities, 1 year.....	68	32	28	15	20	5	1,047
Total, respiratory causes:							
Fall River, 3 years.....	68	32	16	17	23	12	273
3 cities, 1 year.....	63	37	20	13	24	6	248
Total, nonrespiratory causes:							
Fall River, 3 years.....	63	37	20	20	17	6	998
3 cities, 1 year.....	69	31	30	15	19	5	799
Total, all causes:							
Fall River, 3 years....	64	36	19	19	18	8	1,271
3 cities, 1 year.....	68	32	28	15	20	5	1,047

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 51.—PER CENT THAT MALE AND FEMALE DECEDENTS OF EACH OPERATIVES OF BOTH SEXES DYING FROM EACH SPECIFIED CAUSE, AND PAWTUCKET), 1 YEAR.

OPERATIVES.

Cause of death, locality, and period.	Males.						All races.
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	
POPULATION.							
Fall River, 3 years.....	44	8	3	16	17	8	52
3 cities, 1 year.....	42	7	4	13	15	10	49
DEATHS.							
Accident or violence:							
Fall River, 3 years.....	67	19	.....	38	16	13	86
3 cities, 1 year.....	68	12	4	32	16	16	80
Senility:							
Fall River, 3 years.....	.....	1	.....	.....	.....	.....	100
3 cities, 1 year.....	.....	1	.....	.....	.....	.....	100
Unclassified diseases:							
Fall River, 3 years.....	57	7	.....	36	18	3	64
3 cities, 1 year.....	70	10	20	30	10	10	80
Parturition:							
Fall River, 3 years.....	.....	.....	.....	.....	.....	.....	.....
3 cities, 1 year.....	.....	.....	.....	.....	.....	.....	.....
Cancer:							
Fall River, 3 years.....	24	20	.....	20	4	.....	44
3 cities, 1 year.....	28	29	.....	14	14	.....	57
Diseases of the nervous system:							
Fall River, 3 years.....	42	5	.....	10	22	10	47
3 cities, 1 year.....	44	6	.....	11	22	11	50
Diseases of the digestive system:							
Fall River, 3 years.....	39	11	4	11	17	7	50
3 cities, 1 year.....	42	12	3	12	12	15	54
Nephritis:							
Fall River, 3 years.....	30	14	7	14	7	3	44
3 cities, 1 year.....	37	15	9	9	13	6	52
Apoplexy:							
Fall River, 3 years.....	47	11	5	28	11	5	58
3 cities, 1 year.....	69	6	12	31	13	13	75
Heart disease:							
Fall River, 3 years.....	42	18	2	19	12	9	60
3 cities, 1 year.....	36	24	4	20	8	4	60
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	37	9	4	10	17	6	46
3 cities, 1 year.....	31	13	8	8	15	.....	44
Total, nontuberculous causes:							
Fall River, 3 years.....	39	12	3	17	13	6	51
3 cities, 1 year.....	41	14	6	15	13	7	55
Tuberculosis:							
Fall River, 3 years.....	34	12	3	9	14	8	46
3 cities, 1 year.....	30	10	3	7	13	7	40
Total, all causes:							
Fall River, 3 years.....	37	12	3	14	13	7	49
3 cities, 1 year.....	37	12	4	13	13	7	49
Total, respiratory causes:							
Fall River, 3 years.....	35	11	3	9	15	8	46
3 cities, 1 year.....	31	10	4	8	13	6	41
Total, nonrespiratory causes:							
Fall River, 3 years.....	39	13	2	19	12	6	52
3 cities, 1 year.....	43	14	5	17	12	9	57
Total, all causes:							
Fall River, 3 years.....	37	12	3	14	13	7	49
3 cities, 1 year.....	37	12	4	13	13	7	49

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

SPECIFIED RACE FORM OF TOTAL OPERATIVES AND OF TOTAL NON-FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER,

OPERATIVES.

Cause of death, locality, and period.	Females.							Total population, and total deaths from each specified cause, both sexes and all races (100 per cent).
	Non-Irish.	Irish.	Ameri-can.	Eng-lish.	French Cana-dian.	Other races.	All races.	
POPULATION.								
Fall River, 3 years.....	37	11	3	13	15	6	48	25, 158
3 cities, 1 year.....	40	11	4	12	17	7	51	38, 448
DEATHS.								
Accident or violence:								
Fall River, 3 years.....	11	3	3	5	3		14	37
3 cities, 1 year.....	20			12	8		20	25
Senility:								
Fall River, 3 years.....								1
3 cities, 1 year.....								1
Unclassified diseases:								
Fall River, 3 years.....	32	4		18	11	3	36	28
3 cities, 1 year.....	10	10		10			20	10
Parturition:								
Fall River, 3 years.....	85	15		31	27	27	100	26
3 cities, 1 year.....	87	13		20	40	27	100	15
Cancer:								
Fall River, 3 years.....	36	20		16	16	4	56	25
3 cities, 1 year.....	29	14		22	7		43	14
Diseases of the nervous system:								
Fall River, 3 years.....	21	32		5	11	5	53	19
3 cities, 1 year.....	22	28			22		50	18
Diseases of the digestive system:								
Fall River, 3 years.....	37	13	6	9	15	7	50	54
3 cities, 1 year.....	35	11	7	12	12	4	46	26
Nephritis:								
Fall River, 3 years.....	29	27	9	12	5	3	56	59
3 cities, 1 year.....	27	21	9	9	6	3	48	33
Apoplexy:								
Fall River, 3 years.....	31	11	5	16	10		42	19
3 cities, 1 year.....	25		6	13	6		25	16
Heart disease:								
Fall River, 3 years.....	23	17	5	5	11	2	40	43
3 cities, 1 year.....	16	24	4	8	4		40	25
Respiratory diseases other than tuberculosis:								
Fall River, 3 years.....	41	13	3	7	28	3	54	69
3 cities, 1 year.....	38	18	2	11	23	2	56	39
Total, nontuberculous causes:								
Fall River, 3 years....	34	15	4	11	14	5	49	380
3 cities, 1 year.....	30	15	3	11	13	3	45	222
Tuberculosis:								
Fall River, 3 years.....	35	19	2	8	19	6	54	206
3 cities, 1 year.....	39	21	5	10	19	5	60	131
Total, all causes:								
Fall River, 3 years....	34	17	3	10	16	5	51	586
3 cities, 1 year.....	34	17	4	11	15	4	51	353
Total, respiratory causes:								
Fall River, 3 years.....	37	17	3	8	21	5	54	275
3 cities, 1 year.....	39	20	4	11	20	4	59	170
Total, nonrespiratory causes:								
Fall River, 3 years.....	32	16	4	12	11	5	48	311
3 cities, 1 year.....	29	14	4	11	11	3	43	183
Total, all causes:								
Fall River, 3 years....	34	17	3	10	16	5	51	586
3 cities, 1 year.....	34	17	4	11	15	4	51	353

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 51.—PER CENT THAT MALE AND FEMALE DECEDENTS OF EACH OPERATIVES OF BOTH SEXES DYING FROM EACH SPECIFIED CAUSE, AND PAWTUCKET), 1 YEAR—Concluded.

NONOPERATIVES.

Caus of death, locality, and period.	Males.						
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.
POPULATION.							
Fall River, 3 years.....	38	7	11	9	11	7	45
3 cities, 1 year.....	38	8	14	8	11	5	46
DEATHS.							
Accident or violence:							
Fall River, 3 years.....	52	15	8	21	15	8	67
3 cities, 1 year.....	58	14	13	19	13	13	72
Senility:							
Fall River, 3 years.....	26	12	7	10	7	2	38
3 cities, 1 year.....	29	7	14	8	7		36
Unclassified diseases:							
Fall River, 3 years.....	37	12	8	10	13	6	49
3 cities, 1 year.....	34	13	11	8	11	4	47
Parturition:							
Fall River, 3 years.....							
3 cities, 1 year.....							
Cancer:							
Fall River, 3 years.....	25	10	6	9	6	4	35
3 cities, 1 year.....	25	6	12	5	6	2	31
Diseases of the nervous system:							
Fall River, 3 years.....	47	10	13	11	17	6	57
3 cities, 1 year.....	41	7	17	4	16	4	48
Diseases of the digestive system:							
Fall River, 3 years.....	27	16	6	10	8	3	43
3 cities, 1 year.....	33	21	13	6	12	2	54
Nephritis:							
Fall River, 3 years.....	26	20	7	9	7	3	46
3 cities, 1 year.....	35	17	14	9	8	4	52
Apoplexy:							
Fall River, 3 years.....	29	15	7	11	9	2	44
3 cities, 1 year.....	30	12	10	8	9	3	42
Heart disease:							
Fall River, 3 years.....	29	17	10	9	7	3	46
3 cities, 1 year.....	32	14	15	7	7	3	46
Respiratory diseases other than tuberculosis:							
Fall River, 3 years.....	27	18	6	10	7	4	45
3 cities, 1 year.....	29	18	10	9	6	4	47
Total, nontuberculous causes:							
Fall River, 3 years....	30	15	7	10	9	4	45
3 cities, 1 year.....	33	14	12	8	9	4	47
Tuberculosis:							
Fall River, 3 years.....	31	27	8	9	8	6	58
3 cities, 1 year.....	29	26	9	8	9	3	55
Total, all causes:							
Fall River, 3 years....	30	16	7	10	9	4	46
3 cities, 1 year.....	33	15	12	8	9	4	48
Total, respiratory causes:							
Fall River, 3 years.....	29	22	7	9	8	5	51
3 cities, 1 year.....	29	22	10	9	7	3	51
Total, nonrespiratory causes:							
Fall River, 3 years.....	30	15	8	10	9	3	45
3 cities, 1 year.....	33	13	12	8	9	4	46
Total, all causes:							
Fall River, 3 years....	30	16	7	10	9	4	46
3 cities, 1 year.....	33	15	12	8	9	4	48

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

SPECIFIED RACE FORM OF TOTAL OPERATIVES AND OF TOTAL NON-FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER,

NONOPERATIVES.

Cause of death, locality, and period.	Females.							Total population, and total deaths from each specified cause, both sexes and all races (100 per cent).
	Non-Irish.	Irish.	American.	English.	French Canadian.	Other races.	All races.	
POPULATION.								
Fall River, 3 years.....	45	10	12	11	14	8	55	60,508
3 cities, 1 year.....	44	10	16	10	13	5	54	134,413
DEATHS.								
Accident or violence:								
Fall River, 3 years.....	14	19	6	4	3	1	33	91
3 cities, 1 year.....	18	10	8	6	2	2	28	95
Senility:								
Fall River, 3 years.....	40	22	18	12	7	3	62	121
3 cities, 1 year.....	45	19	28	8	8	1	62	86
Unclassified diseases:								
Fall River, 3 years.....	36	15	12	11	9	4	51	214
3 cities, 1 year.....	41	12	16	6	13	6	53	154
Parturition:								
Fall River, 3 years.....	79	21	3	9	46	21	100	33
3 cities, 1 year.....	71	29	8	13	42	8	100	24
Cancer:								
Fall River, 3 years.....	51	14	13	22	14	2	65	188
3 cities, 1 year.....	53	16	24	18	10	1	69	129
Diseases of the nervous system:								
Fall River, 3 years.....	32	11	10	11	8	3	43	89
3 cities, 1 year.....	36	16	15	7	13	1	52	116
Diseases of the digestive system:								
Fall River, 3 years.....	34	23	9	10	14	1	57	220
3 cities, 1 year.....	31	15	12	6	11	2	46	181
Nephritis:								
Fall River, 3 years.....	28	26	10	8	6	4	54	237
3 cities, 1 year.....	30	18	12	8	7	3	48	211
Apoplexy:								
Fall River, 3 years.....	32	24	12	11	6	3	56	254
3 cities, 1 year.....	39	19	19	10	9	1	58	251
Heart disease:								
Fall River, 3 years.....	33	21	11	9	9	4	54	363
3 cities, 1 year.....	36	18	17	6	10	3	54	246
Respiratory diseases other than tuberculosis:								
Fall River, 3 years.....	37	18	10	10	12	5	55	298
3 cities, 1 year.....	33	20	12	7	12	2	53	275
Total, nontuberculous causes:								
Fall River, 3 years....	35	20	11	11	10	3	55	2,108
3 cities, 1 year.....	36	17	16	8	10	2	53	1,768
Tuberculosis:								
Fall River, 3 years.....	29	13	6	7	9	7	42	260
3 cities, 1 year.....	29	16	8	5	12	4	45	229
Total, all causes:								
Fall River, 3 years....	35	19	10	11	10	4	54	2,368
3 cities, 1 year.....	35	17	14	8	10	3	52	1,997
Total, respiratory causes:								
Fall River, 3 years.....	34	15	8	9	11	6	49	558
3 cities, 1 year.....	31	18	10	6	12	3	49	504
Total, nonrespiratory causes:								
Fall River, 3 years.....	35	20	11	11	10	3	55	1,810
3 cities, 1 year.....	37	17	16	8	10	3	54	1,493
Total, all causes:								
Fall River, 3 years....	35	19	10	11	10	4	54	2,368
3 cities, 1 year.....	35	17	14	8	10	3	52	1,997

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 52.—PER CENT OF DEATHS DUE TO EACH SPECIFIED CAUSE WITHIN EACH SPECIFIED AGE GROUP, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

11 TO 14 YEARS.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Oper-atives.	Non-oper-atives.	Both classes.	Oper-atives.	Non-oper-atives.	Both classes.	Oper-atives.	Non-oper-atives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	100	12	19	100	.....	3	100	6	12
3 cities, 1 year.....	100	22	31	.....	3	4	60	12	16
Senility:									
Fall River, 3 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3 cities, 1 year.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Unclassified diseases:									
Fall River, 3 years.....	.....	25	22	.....	16	16	.....	20	19
3 cities, 1 year.....	.....	17	15	.....	22	21	.....	20	18
Parturition:									
Fall River, 3 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3 cities, 1 year.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cancer:									
Fall River, 3 years.....	.....	.....	.....	.....	3	3	.....	2	1
3 cities, 1 year.....	.....	.....	.....	.....	4	3	.....	2	2
Diseases of the nervous system:									
Fall River, 3 years.....	.....	24	22	.....	10	9	.....	17	16
3 cities, 1 year.....	.....	43	38	.....	22	24	.....	32	31
Diseases of the digestive system:									
Fall River, 3 years.....	.....	15	14	.....	6	6	.....	11	10
3 cities, 1 year.....	.....	9	8	.....	15	14	.....	12	11
Nephritis:									
Fall River, 3 years.....	.....	3	3	.....	16	16	.....	9	9
3 cities, 1 year.....	.....	.....	.....	.....	4	3	.....	2	2
Apoplexy:									
Fall River, 3 years.....	.....	3	3	.....	.....	.....	.....	2	1
3 cities, 1 year.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Heart disease:									
Fall River, 3 years.....	.....	6	6	.....	10	9	.....	8	8
3 cities, 1 year.....	.....	9	8	.....	4	3	.....	6	5
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	.....	12	11	.....	13	13	.....	12	12
3 cities, 1 year.....	.....	.....	.....	.....	15	14	.....	8	8
Total, nontuberculous causes:									
Fall River, 3 years.....	100	100	100	100	74	75	100	87	88
3 cities, 1 year.....	100	100	100	50	89	86	80	94	93
Tuberculosis:									
Fall River, 3 years.....	.....	.....	.....	.....	26	25	.....	13	12
3 cities, 1 year.....	.....	.....	.....	.....	50	11	.....	20	6
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory causes:									
Fall River, 3 years.....	.....	12	11	.....	39	38	.....	25	24
3 cities, 1 year.....	.....	.....	.....	.....	50	26	.....	28	14
Total, nonrespiratory causes:									
Fall River, 3 years.....	100	88	89	100	61	62	100	75	76
3 cities, 1 year.....	100	100	100	50	74	72	80	86	85
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 POPULATION.									
Total, all causes:									
Fall River, 3 years.....	3.44	2.21	2.27	1.44	2.00	1.98	2.55	2.10	2.12
3 cities, 1 year.....	8.82	2.34	2.56	6.62	2.72	2.83	7.79	2.53	2.70

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 52.—PER CENT OF DEATHS DUE TO EACH SPECIFIED CAUSE WITHIN EACH SPECIFIED AGE GROUP, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

15 TO 24 YEARS.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Oper-atives.	Non-oper-atives.	Both classes.	Oper-atives.	Non-oper-atives.	Both classes.	Oper-atives.	Non-oper-atives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	15	7	12	1	4	2	7	5	6
3 cities, 1 year.....	13	8	10	2	2	2	6	5	6
Senility:									
Fall River, 3 years.....									
3 cities, 1 year.....									
Unclassified diseases:									
Fall River, 3 years.....	8	7	7	6	13	9	7	10	8
3 cities, 1 year.....	5	4	5	2	5	3	3	5	4
Parturition:									
Fall River, 3 years.....				11	2	7	6	1	4
3 cities, 1 year.....				15	2	8	9	1	4
Cancer:									
Fall River, 3 years.....				1	2	1	1	1	1
3 cities, 1 year.....									
Diseases of the nervous system:									
Fall River, 3 years.....	6	10	8	4	7	5	5	9	7
3 cities, 1 year.....	15	14	14	7	14	11	11	14	12
Diseases of the digestive system:									
Fall River, 3 years.....	9	7	8	10	7	9	9	7	8
3 cities, 1 year.....	10	14	13	5	16	11	7	15	12
Nephritis:									
Fall River, 3 years.....	5	10	7	7	8	8	6	9	7
3 cities, 1 year.....	5	7	6	5	7	6	5	7	6
Apoplexy:									
Fall River, 3 years.....				1	2	1	1	1	1
3 cities, 1 year.....		3	2	2	2	2	1	2	2
Heart disease:									
Fall River, 3 years.....	5	18	12	3	9	5	4	14	8
3 cities, 1 year.....	8	7	7	2	4	3	4	6	5
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	10	7	8	11	11	12	10	8	10
3 cities, 1 year.....	11	12	11	11	5	8	11	9	10
Total, nontuberculous causes:									
Fall River, 3 years.....	58	66	62	55	65	59	56	65	60
3 cities, 1 year.....	67	69	68	51	57	54	57	64	61
Tuberculosis:									
Fall River, 3 years.....	42	34	38	45	35	41	44	35	40
3 cities, 1 year.....	33	31	32	49	43	46	43	36	39
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory causes:									
Fall River, 3 years.....	52	41	46	56	46	53	54	43	50
3 cities, 1 year.....	44	43	43	60	48	54	53	45	49
Total, nonrespiratory causes:									
Fall River, 3 years.....	48	59	54	44	54	47	46	57	50
3 cities, 1 year.....	56	57	57	40	52	46	47	55	51
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 POPULATION.									
Total, all causes:									
Fall River, 3 years.....	4.91	3.35	4.01	5.30	2.96	4.13	5.14	3.15	4.08
3 cities, 1 year.....	6.07	5.28	5.54	5.82	3.86	4.64	5.92	4.55	5.05

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 52.—PER CENT OF DEATHS DUE TO EACH SPECIFIED CAUSE WITHIN EACH SPECIFIED AGE GROUP, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

25 TO 34 YEARS.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Oper- atives.	Non- oper- atives.	Both classes.	Oper- atives.	Non- oper- atives.	Both classes.	Oper- atives.	Non- oper- atives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	8	9	9	2	3	2	3	6	5
3 cities, 1 year.....	13	11	12	2	3	3	7	7	7
Senility:									
Fall River, 3 years.....									
3 cities, 1 year.....									
Unclassified diseases:									
Fall River, 3 years.....	6	13	11	3	14	10	5	14	10
3 cities, 1 year.....	3	9	8	3	13	9	1	11	8
Parturition:									
Fall River, 3 years.....				12	17	15	7	9	8
3 cities, 1 year.....				8	13	11	5	6	6
Cancer:									
Fall River, 3 years.....	2	1	1	1	4	3	1	3	2
3 cities, 1 year.....		2	1		3	2		2	2
Diseases of the nervous system:									
Fall River, 3 years.....	5	4	4	5	3	4	5	3	4
3 cities, 1 year.....	2	3	3	4	5	4	3	4	4
Diseases of the digestive system:									
Fall River, 3 years.....	5	6	6	9	5	6	7	6	6
3 cities, 1 year.....	2	7	6	7	7	7	5	7	6
Nephritis:									
Fall River, 3 years.....	8	7	7	6	8	7	7	7	7
3 cities, 1 year.....	10	10	10	11	9	10	11	10	10
Apoplexy:									
Fall River, 3 years.....	3	2	2	1	2	1	2	2	2
3 cities, 1 year.....	8	4	5	2	1	1	4	3	3
Heart disease:									
Fall River, 3 years.....	5	7	6	2	3	3	3	5	5
3 cities, 1 year.....		6	4	2	3	3	1	5	3
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	11	14	13	10	10	9	11	11	11
3 cities, 1 year.....	13	16	14	4	13	10	8	14	13
Total, nontuberculous causes:									
Fall River, 3 years.....	53	63	59	49	69	60	51	66	60
3 cities, 1 year.....	51	68	63	40	70	60	45	69	62
Tuberculosis:									
Fall River, 3 years.....	47	37	41	51	31	40	49	34	40
3 cities, 1 year.....	49	32	37	60	30	40	55	31	38
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory causes:									
Fall River, 3 years.....	58	51	54	61	41	49	60	45	51
3 cities, 1 year.....	62	48	51	64	43	50	63	45	51
Total, nonrespiratory causes:									
Fall River, 3 years.....	42	49	46	39	51	51	40	55	49
3 cities, 1 year.....	38	52	49	36	57	50	37	55	49
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 POPULATION.									
Total, all causes:									
Fall River, 3 years.....	6.33	6.36	6.35	9.17	6.21	7.18	7.75	6.28	6.79
3 cities, 1 year.....	8.43	8.64	8.59	10.06	6.66	7.52	9.30	7.59	8.02

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 52.—PER CENT OF DEATHS DUE TO EACH SPECIFIED CAUSE WITHIN EACH SPECIFIED AGE GROUP, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

35 TO 44 YEARS.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Oper-atives.	Non-oper-atives.	Both classes.	Oper-atives.	Non-oper-atives.	Both classes.	Oper-atives.	Non-oper-atives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	11	9	10	3	6	5	7	8	7
3 cities, 1 year.....	4	12	11	6	3	4	5	8	7
Senility:									
Fall River, 3 years.....									
3 cities, 1 year.....									
Unclassified diseases:									
Fall River, 3 years.....		5	4	2	12	8	1	8	6
3 cities, 1 year.....		6	5	3	11	9	1	9	7
Parturition:									
Fall River, 3 years.....				8	8	8	4	3	4
3 cities, 1 year.....				8	9	9	5	4	4
Cancer:									
Fall River, 3 years.....	2	5	4	10	15	14	7	9	9
3 cities, 1 year.....	7	3	3	3	12	9	5	7	7
Diseases of the nervous system:									
Fall River, 3 years.....		2	1		3	2		3	2
3 cities, 1 year.....	3	5	5		5	4	1	5	4
Diseases of the digestive system:									
Fall River, 3 years.....	15	11	12	9	10	10	12	11	11
3 cities, 1 year.....	14	13	13	8	7	7	11	10	10
Nephritis:									
Fall River, 3 years.....	6	9	8	13	9	10	10	9	9
3 cities, 1 year.....	11	7	8	6	6	6	8	6	7
Apoplexy:									
Fall River, 3 years.....	2	5	4	3	5	4	2	5	4
3 cities, 1 year.....		5	4		9	6		7	5
Heart disease:									
Fall River, 3 years.....	7	11	10	6	17	13	6	13	11
3 cities, 1 year.....	4	8	7	5	10	9	5	9	8
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	8	17	15	21	6	11	15	12	13
3 cities, 1 year.....	11	15	14	22	9	13	17	13	14
Total, nontuberculous causes:									
Fall River, 3 years.....	51	74	68	75	91	85	64	81	76
3 cities, 1 year.....	54	74	70	61	81	76	58	78	73
Tuberculosis:									
Fall River, 3 years.....	49	26	32	25	9	15	36	19	24
3 cities, 1 year.....	46	26	30	39	19	24	42	22	27
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory causes:									
Fall River, 3 years.....	57	43	47	46	15	26	51	31	37
3 cities, 1 year.....	57	41	44	61	28	37	59	35	41
Total, nonrespiratory causes:									
Fall River, 3 years.....	43	57	53	54	85	74	49	69	63
3 cities, 1 year.....	43	59	56	39	72	63	41	65	59
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 POPULATION.									
Total, all causes:									
Fall River, 3 years.....	6.36	10.91	9.13	12.79	6.74	8.13	8.84	8.51	8.61
3 cities, 1 year.....	7.24	10.90	9.90	11.81	8.13	8.85	9.26	9.38	9.35

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 52.—PER CENT OF DEATHS DUE TO EACH SPECIFIED CAUSE WITHIN EACH SPECIFIED AGE GROUP, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

45 TO 64 YEARS.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Oper- atives.	Non- opera- tives.	Both classes.	Oper- atives.	Non- opera- tives.	Both classes.	Oper- atives.	Non- opera- tives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	7	5	5	2	2	3	5	4	4
3 cities, 1 year.....	6	7	7	3	2	2	5	5	4
Senility:									
Fall River, 3 years.....		1	1		1	1		1	1
3 cities, 1 year.....					1	1			
Unclassified diseases:									
Fall River, 3 years.....	10	11	11		8	7	6	9	9
3 cities, 1 year.....	6	8	8		6	6	4	7	7
Parturition:									
Fall River, 3 years.....									
3 cities, 1 year.....									
Cancer:									
Fall River, 3 years.....	8	8	8	12	13	12	9	10	10
3 cities, 1 year.....	11	6	6	16	14	14	13	10	10
Diseases of the nervous system:									
Fall River, 3 years.....	2	3	3	5	2	3	3	3	3
3 cities, 1 year.....		5	4	6	5	5	2	5	5
Diseases of the digestive system:									
Fall River, 3 years.....	12	9	10	7	11	11	10	10	10
3 cities, 1 year.....	11	12	12	6	8	8	9	10	10
Nephritis:									
Fall River, 3 years.....	11	12	12	25	11	12	16	11	12
3 cities, 1 year.....	13	14	13	16	14	14	14	14	14
Apoplexy:									
Fall River, 3 years.....	8	11	11	9	14	14	9	13	13
3 cities, 1 year.....	15	11	12	6	17	16	11	14	14
Heart disease:									
Fall River, 3 years.....	14	19	18	19	18	18	16	19	18
3 cities, 1 year.....	11	15	15	16	14	14	13	14	14
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	14	10	10	7	14	13	12	12	12
3 cities, 1 year.....	10	13	13	19	14	14	14	14	14
Total, nontuberculous causes:									
Fall River, 3 years.....	86	89	89	86	94	94	86	92	92
3 cities, 1 year.....	83	91	90	88	95	94	85	93	92
Tuberculosis:									
Fall River, 3 years.....	14	11	11	14	6	6	14	8	8
3 cities, 1 year.....	17	9	10	12	5	6	15	7	8
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory causes:									
Fall River, 3 years.....	28	21	21	21	20	19	26	20	20
3 cities, 1 year.....	27	22	23	31	19	20	29	21	22
Total, nonrespiratory causes:									
Fall River, 3 years.....	72	79	79	79	80	81	74	80	80
3 cities, 1 year.....	73	78	77	69	81	80	71	79	78
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 POPULATION.									
Total, all causes:									
Fall River, 3 years.....	12.92	27.09	22.79	17.00	22.58	22.00	14.05	24.41	22.37
3 cities, 1 year.....	14.59	28.00	25.08	19.93	22.40	22.17	16.36	24.82	23.53

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 52.—PER CENT OF DEATHS DUE TO EACH SPECIFIED CAUSE WITHIN EACH SPECIFIED AGE GROUP, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

65 YEARS AND OVER.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Oper-atives.	Non-oper-atives.	Both classes.	Oper-atives.	Non-oper-atives.	Both classes.	Oper-atives.	Non-oper-atives.	Both classes.
Accident and violence:									
Fall River, 3 years.....	10	3	3	1	1	1	9	2	2
3 cities, 1 year.....	17	3	3	3	3	3	16	3	3
Senility:									
Fall River, 3 years.....	5	12	12	15	15	4	14	14	14
3 cities, 1 year.....	6	10	10	13	13	5	11	11	12
Unclassified diseases:									
Fall River, 3 years.....	5	8	8	6	6	4	6	6	6
3 cities, 1 year.....	11	7	7	6	6	10	6	6	7
Parturition:									
Fall River, 3 years.....									
3 cities, 1 year.....									
Cancer:									
Fall River, 3 years.....	10	8	8	8	8	9	8	8	8
3 cities, 1 year.....	6	6	6	6	6	5	6	6	6
Diseases of the nervous system:									
Fall River, 3 years.....		5	5	3	3		4	4	4
3 cities, 1 year.....	5	4	4	4	4	5	4	4	4
Diseases of the digestive system:									
Fall River, 3 years.....		7	7	50	10	11	5	9	9
3 cities, 1 year.....		8	8	7	7		8	8	7
Nephritis:									
Fall River, 3 years.....	30	9	10	50	10	10	32	10	10
3 cities, 1 year.....	11	13	13	8	8	11	10	10	10
Apoplexy:									
Fall River, 3 years.....	5	16	15	14	14	5	15	15	15
3 cities, 1 year.....	11	18	18	18	18	11	18	18	18
Heart disease:									
Fall River, 3 years.....	20	16	16	17	16	18	16	16	16
3 cities, 1 year.....	33	14	15	100	17	17	37	16	16
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	15	13	13	15	15	14	14	14	14
3 cities, 1 year.....		14	13	17	17		16	16	15
Total, nontuberculous causes:									
Fall River, 3 years.....	100	97	97	100	99	99	100	98	98
3 cities, 1 year.....	100	97	97	100	99	99	100	98	98
Tuberculosis:									
Fall River, 3 years.....		3	3	1	1		2	2	2
3 cities, 1 year.....		3	3	1	1		2	2	2
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory causes:									
Fall River, 3 years.....	15	16	16	16	16	14	16	16	16
3 cities, 1 year.....		17	16	18	18		18	18	17
Total, nonrespiratory causes:									
Fall River, 3 years.....	85	84	84	100	84	84	86	84	84
3 cities, 1 year.....	100	83	84	100	82	82	100	82	83
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 POPULATION.									
Total, all causes:									
Fall River, 3 years.....	48.31	78.79	76.17	39.22	73.01	72.73	47.31	75.44	74.25
3 cities, 1 year.....	72.87	92.11	90.75	22.22	92.38	91.69	65.07	92.26	91.28

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 52.—PER CENT OF DEATHS DUE TO EACH SPECIFIED CAUSE WITHIN EACH SPECIFIED AGE GROUP, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

10 YEARS AND OVER.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	11	5	7	1	2	2	7	4	5
3 cities, 1 year.....	11	7	8	3	2	3	7	5	5
Senility:									
Fall River, 3 years.....		4	3		6	5		5	4
3 cities, 1 year.....	1	3	3		5	4		4	4
Unclassified diseases:									
Fall River, 3 years.....	6	10	9	3	9	7	5	9	8
3 cities, 1 year.....	5	8	7	1	8	7	3	8	7
Parturition:									
Fall River, 3 years.....				9	3	4	5	1	2
3 cities, 1 year.....				8	2	3	4	1	2
Cancer:									
Fall River, 3 years.....	4	6	5	5	10	9	4	8	7
3 cities, 1 year.....	4	4	4	3	8	8	4	6	6
Diseases of the nervous system:									
Fall River, 3 years.....	3	5	4	3	3	3	3	4	4
3 cities, 1 year.....	5	6	6	5	6	6	5	6	6
Diseases of the digestive system:									
Fall River, 3 years.....	10	9	9	9	10	10	9	9	9
3 cities, 1 year.....	8	10	10	7	8	8	8	9	9
Nephritis:									
Fall River, 3 years.....	9	10	10	11	10	10	10	10	10
3 cities, 1 year.....	10	12	11	9	10	9	9	11	10
Apoplexy:									
Fall River, 3 years.....	4	10	9	3	11	10	3	11	9
3 cities, 1 year.....	7	11	10	2	14	12	5	13	11
Heart disease:									
Fall River, 3 years.....	9	15	14	6	15	13	7	13	14
3 cities, 1 year.....	9	12	12	6	13	12	7	12	11
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	11	12	12	13	13	13	12	13	12
3 cities, 1 year.....	10	14	13	12	14	13	11	14	11
Total, nontuberculous causes:									
Fall River, 3 years.....	67	86	82	63	92	86	65	89	84
3 cities, 1 year.....	70	87	84	56	90	85	63	89	85
Tuberculosis:									
Fall River, 3 years.....	33	14	18	37	8	14	35	11	16
3 cities, 1 year.....	30	13	16	44	10	15	37	11	15
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory causes:									
Fall River, 3 years.....	44	26	30	50	21	27	47	24	28
3 cities, 1 year.....	40	27	29	56	24	28	48	25	29
Total, nonrespiratory causes:									
Fall River, 3 years.....	56	74	70	50	79	73	53	76	72
3 cities, 1 year.....	60	73	71	44	76	72	52	75	71
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 POPULATION.									
Total, all causes:									
Fall River, 3 years.....	7.35	13.38	11.44	8.20	12.77	11.54	7.76	13.05	11.49
3 cities, 1 year.....	9.29	15.27	13.89	9.08	14.50	13.34	9.18	14.86	13.59

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 52.—PER CENT OF DEATHS DUE TO EACH SPECIFIED CAUSE WITHIN EACH SPECIFIED AGE GROUP, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Continued.

15 YEARS AND OVER.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	10	6	6	1	2	2	6	4	4
3 cities, 1 year.....	10	7	7	3	3	3	6	5	5
Senility:									
Fall River, 3 years.....	1	4	3	6	5	5	5	4	4
3 cities, 1 year.....		3	3	5	5	5	4	4	4
Unclassified diseases:									
Fall River, 3 years.....	6	9	9	3	8	7	5	9	8
3 cities, 1 year.....	5	7	7	1	7	6	3	7	7
Parturition:									
Fall River, 3 years.....				9	3	4	5	1	2
3 cities, 1 year.....				8	2	3	4	1	2
Cancer:									
Fall River, 3 years.....	4	6	6	5	10	9	4	8	7
3 cities, 1 year.....	5	4	4	3	9	8	4	7	6
Diseases of the nervous system:									
Fall River, 3 years.....	3	4	4	3	3	3	3	3	4
3 cities, 1 year.....	5	5	5	5	5	5	5	5	5
Diseases of the digestive system:									
Fall River, 3 years.....	10	9	9	9	10	10	9	9	9
3 cities, 1 year.....	8	11	10	7	8	8	7	9	9
Nephritis:									
Fall River, 3 years.....	9	10	10	11	10	10	10	10	10
3 cities, 1 year.....	10	12	11	9	10	10	10	11	10
Apoplexy:									
Fall River, 3 years.....	4	10	9	3	12	10	3	11	10
3 cities, 1 year.....	7	11	11	2	14	12	5	13	11
Heart disease:									
Fall River, 3 years.....	9	16	14	6	15	13	8	16	14
3 cities, 1 year.....	9	12	12	6	13	12	7	12	12
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	11	12	12	12	13	13	12	13	12
3 cities, 1 year.....	10	14	14	12	14	13	12	14	13
Total, nontuberculous causes:									
Fall River, 3 years.....	67	86	82	62	92	86	65	89	84
3 cities, 1 year.....	69	86	84	56	90	85	63	88	84
Tuberculosis:									
Fall River, 3 years.....	33	14	18	38	8	14	35	11	16
3 cities, 1 year.....	31	14	16	44	10	15	37	12	16
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory causes:									
Fall River, 3 years.....	44	26	30	50	21	27	47	24	28
3 cities, 1 year.....	41	28	30	56	24	28	49	26	29
Total, nonrespiratory causes:									
Fall River, 3 years.....	56	74	70	50	79	73	53	76	72
3 cities, 1 year.....	59	72	70	44	76	72	51	74	71
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 POPULATION.									
Total, all causes:									
Fall River, 3 years.....	7.44	15.88	12.82	8.34	14.75	12.84	7.87	15.25	12.83
3 cities, 1 year.....	9.30	17.70	15.52	9.12	16.38	14.65	9.20	16.98	15.05

AGES 10 YEARS AND OVER—POPULATION AND DEATHS.

TABLE 52.—PER CENT OF DEATHS DUE TO EACH SPECIFIED CAUSE WITHIN EACH SPECIFIED AGE GROUP, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR—Concluded.

30 TO 39 YEARS.

Cause of death, locality, and period.	Males.			Females.			Both sexes.		
	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.	Operatives.	Non-operatives.	Both classes.
Accident or violence:									
Fall River, 3 years.....	9	8	8	6	3	4	7	6	6
3 cities, 1 year.....	5	11	10	1	1	2	6	6	5
Senility:									
Fall River, 3 years.....									
3 cities, 1 year.....									
Unclassified diseases:									
Fall River, 3 years.....	3	6	6	4	14	10	3	10	7
3 cities, 1 year.....		7	5	2	14	10	1	10	8
Parturition:									
Fall River, 3 years.....				14	13	14	8	6	7
3 cities, 1 year.....				12	12	12	7	6	6
Cancer:									
Fall River, 3 years.....	3	3	3	4	7	5	3	4	4
3 cities, 1 year.....	3	3	2	2	7	6	2	5	4
Diseases of the nervous system:									
Fall River, 3 years.....		3	2	3	4	4	1	4	3
3 cities, 1 year.....		4	3	2	6	4	1	5	4
Diseases of the digestive system:									
Fall River, 3 years.....	10	9	9	11	4	7	11	7	8
3 cities, 1 year.....	6	6	6	10	5	7	8	5	6
Nephritis:									
Fall River, 3 years.....	6	5	6	7	7	7	7	6	6
3 cities, 1 year.....	11	8	9	10	8	9	11	8	9
Apoplexy:									
Fall River, 3 years.....	4	3	3	1	3	3	3	3	3
3 cities, 1 year.....	6	5	5	2	5	4	4	5	4
Heart disease:									
Fall River, 3 years.....	5	11	9	5	9	7	5	10	8
3 cities, 1 year.....		7	6	2	4	3	1	6	5
Respiratory diseases other than tuberculosis:									
Fall River, 3 years.....	8	15	13	12	8	9	10	12	12
3 cities, 1 year.....	13	15	15	10	10	10	12	13	12
Total, nontuberculous causes:									
Fall River, 3 years.....	48	63	59	61	75	69	55	69	64
3 cities, 1 year.....	44	66	61	52	72	66	49	69	63
Tuberculosis:									
Fall River, 3 years.....	52	37	41	39	25	31	45	31	36
3 cities, 1 year.....	56	34	39	48	28	34	51	31	37
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
Total, respiratory causes:									
Fall River, 3 years.....	60	52	54	51	33	40	55	43	48
3 cities, 1 year.....	69	49	54	58	38	44	63	44	49
Total, nonrespiratory causes:									
Fall River, 3 years.....	40	48	46	49	67	60	45	57	52
3 cities, 1 year.....	31	51	46	42	62	56	37	56	51
Total, all causes:									
Fall River, 3 years.....	100	100	100	100	100	100	100	100	100
3 cities, 1 year.....	100	100	100	100	100	100	100	100	100
DEATH RATE PER 1,000 POPULATION.									
Total, all causes:									
Fall River, 3 years.....	7.20	9.96	8.91	11.42	6.52	7.88	9.04	8.06	8.38
3 cities, 1 year.....	8.42	10.02	9.61	12.47	7.91	8.94	10.38	8.90	9.26

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 54.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS HAVING TUBERCULOUS KINDRED, BY RACE AND SEX, AND BY OCCUPATION GROUPS, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 to 1907.

Classified cause of death, occupation group, and locality.	American.						English.					
	Males.			Females.			Males.			Females.		
	Number of decedents.	Decedents having tu- berculous kindred.		Number of decedents.	Decedents having tu- berculous kindred.		Number of decedents.	Decedents having tu- berculous kindred.		Number of decedents.	Decedents having tu- berculous kindred.	
		Num- ber.	Per cent.		Num- ber.	Per cent.		Num- ber.	Per cent.		Num- ber.	Per cent.
TUBERCULOUS.												
Operatives:												
Fall River.....	6	4	66.7	5	1	20.0	19	5	26.3	16	9	56.3
3 cities.....	9	6	66.7	14	6	42.9	25	7	28.0	25	15	60.0
Nonoperatives:												
Fall River.....	20	13	65.0	16	2	12.5	24	10	41.7	19	6	31.6
3 cities.....	65	25	38.5	57	16	28.1	45	17	37.8	39	11	28.2
Both classes:												
Fall River.....	26	17	65.4	21	3	14.3	43	15	34.9	35	15	42.9
3 cities.....	74	31	41.9	71	22	31.0	70	24	34.3	64	26	40.6
NONTUBERCULOUS.												
Operatives:												
Fall River.....	11	2	18.2	14	4	28.6	65	5	7.7	42	5	11.9
3 cities.....	31	4	12.9	22	4	18.2	86	6	7.0	61	6	9.8
Nonoperatives, Fall River..	158	18	11.4	227	17	7.5	212	9	4.2	228	8	3.5
Both classes:												
Fall River.....	169	20	11.8	241	21	8.7	277	14	5.1	270	13	4.8
ALL CAUSES.												
Operatives:												
Fall River.....	17	6	35.3	19	5	26.3	84	10	11.9	58	14	24.1
3 cities.....	40	10	25.0	36	10	27.8	111	13	11.7	86	21	24.4
Nonoperatives, Fall River..	178	31	17.4	243	19	7.8	236	19	8.1	247	14	5.7
Both classes:												
Fall River.....	195	37	19.0	262	24	9.2	320	29	9.1	305	28	9.2
Irish.						French Canadian.						
TUBERCULOUS.												
Operatives:												
Fall River.....	24	9	37.5	39	15	38.5	28	13	46.4	39	18	46.2
3 cities.....	33	12	36.4	68	31	45.6	37	14	37.8	66	34	51.5
Nonoperatives:												
Fall River.....	72	27	37.5	32	19	59.4	20	6	30.0	24	12	50.0
3 cities.....	159	69	43.4	81	39	48.1	58	28	48.3	75	29	38.7
Both classes:												
Fall River.....	96	36	37.5	71	34	47.9	48	19	39.6	63	30	47.6
3 cities.....	192	81	42.2	149	70	47.0	95	42	44.2	141	63	44.7
NONTUBERCULOUS.												
Operatives:												
Fall River.....	46	3	6.5	58	7	12.1	48	9	18.8	54	19	35.2
3 cities.....	68	10	14.7	89	14	15.7	60	11	18.3	64	19	29.7
Nonoperatives, Fall River..	315	8	2.5	419	21	5.0	183	4	2.2	212	11	5.2
Both classes:												
Fall River.....	361	11	3.0	477	28	5.9	231	13	5.6	266	30	11.3
ALL CAUSES.												
Operatives:												
Fall River.....	70	12	17.1	97	22	22.7	76	22	28.9	93	37	39.8
3 cities.....	101	22	21.8	157	45	28.7	97	25	25.8	130	53	40.8
Nonoperatives, Fall River..	387	35	9.0	451	40	8.9	203	10	4.9	236	23	9.7
Both classes:												
Fall River.....	457	47	10.3	548	62	11.3	279	32	11.5	329	60	18.2

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 54.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS HAVING TUBERCULOUS KINDRED, BY RACE AND SEX, AND BY OCCUPATION GROUPS, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907—Concl'd.

Classified cause of death, occupation group, and locality.	Other races.						All races.					
	Males.			Females.			Males.			Females.		
	Number of dece- dents.	Decedents having tu- berculous kindred.		Number of dece- dents.	Decedents having tu- berculous kindred.		Number of dece- dents.	Decedents having tu- berculous kindred.		Number of dece- dents.	Decedents having tu- berculous kindred.	
		Num- ber.	Per cent.		Num- ber.	Per cent.		Num- ber.	Per cent.		Num- ber.	Per cent.
TUBERCULOUS.												
Operatives:												
Fall River.....	17	8	47.1	13	7	53.8	94	39	41.4	112	50	44.6
3 cities.....	26	10	38.5	16	8	50.0	130	49	37.7	189	94	49.7
Nonoperatives:												
Fall River.....	16	4	25.0	17	7	41.2	152	60	39.5	108	46	42.6
3 cities.....	28	7	25.0	27	9	33.3	355	146	41.1	279	104	37.3
Both classes:												
Fall River.....	33	12	36.4	30	14	46.7	246	99	40.2	220	96	43.6
3 cities.....	54	17	31.5	43	17	39.5	485	195	40.2	468	198	42.3
NONTUBERCULOUS.												
Operatives:												
Fall River.....	23	3	13.0	19	2	10.5	193	22	11.4	187	37	19.8
3 cities.....	48	7	14.6	25	2	8.0	293	38	13.0	261	45	17.2
Nonoperatives, Fall River..	77	1	1.3	77	2	2.6	945	40	4.2	1,163	59	5.1
Both classes:												
Fall River.....	100	4	4.0	96	4	4.2	1,138	62	5.4	1,350	96	7.1
ALL CAUSES.												
Operatives:												
Fall River.....	40	11	27.5	32	9	28.1	287	61	21.3	299	87	29.1
3 cities.....	74	17	23.0	41	10	24.4	423	87	20.6	450	139	30.9
Nonoperatives, Fall River..	93	5	5.4	94	9	9.6	1,097	100	9.1	1,271	105	8.3
Both classes:												
Fall River.....	133	16	12.0	126	18	14.3	1,384	161	11.6	1,570	192	12.2

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 55.—AVERAGE NUMBER OF TUBERCULOUS KINDRED TO EACH TUBERCULOUS AND NONTUBERCULOUS DECEDENT, BY RACE AND SEX, AND BY OCCUPATION GROUPS, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Classified cause of death, occupation group, and locality.	American.						English.					
	Males.			Females.			Males.			Females.		
	Number of decedents with tuber- culous kindred.	Tuber- culous kindred.		Number of decedents with tuber- culous kindred.	Tuber- culous kindred.		Number of decedents with tuber- culous kindred.	Tuber- culous kindred.		Number of decedents with tuber- culous kindred.	Tuber- culous kindred.	
		Number.	Average per decedent.		Number.	Average per decedent.		Number.	Average per decedent.		Number.	Average per decedent.
TUBERCULOUS.												
Operatives:												
Fall River.....	4	7	1.75	1	1	1.00	5	6	1.20	9	13	1.44
3 cities.....	6	9	1.50	6	7	1.17	7	8	1.14	15	20	1.33
Nonoperatives:												
Fall River.....	13	24	1.85	2	28	14.00	10	20	2.00	6	13	2.17
3 cities.....	25	41	1.64	16	50	3.13	17	28	1.65	11	23	2.09
Both classes:												
Fall River.....	17	31	1.82	3	29	9.67	15	26	1.73	15	26	1.73
3 cities.....	31	50	1.61	22	57	2.59	24	36	1.50	26	43	1.65
NONTUBERCULOUS.												
Operatives:												
Fall River.....	2	2	1.00	4	6	1.50	5	7	1.40	5	7	1.40
3 cities.....	4	4	1.00	4	6	1.50	6	11	1.83	6	8	1.33
Nonoperatives, Fall River.	18	23	1.28	17	56	3.29	9	10	1.11	8	25	3.13
Both classes, Fall River.....	20	25	1.25	21	62	2.95	14	17	1.21	13	32	2.46
ALL CAUSES.												
Operatives:												
Fall River.....	6	9	1.50	5	7	1.40	10	13	1.30	14	20	1.43
3 cities.....	10	13	1.30	10	13	1.30	13	19	1.46	21	28	1.33
Nonoperatives, Fall River..	31	47	1.52	19	84	4.42	19	30	1.58	14	38	2.71
Both classes, Fall River.....	37	56	1.51	24	91	3.79	29	43	1.48	28	58	2.07
Irish.						French.						
TUBERCULOUS.												
Operatives:												
Fall River.....	9	10	1.11	15	26	1.73	13	18	1.38	18	18	1.00
3 cities.....	12	13	1.08	31	44	1.42	14	19	1.36	34	37	1.09
Nonoperatives:												
Fall River.....	27	57	2.11	19	25	1.32	6	9	1.50	12	17	1.08
3 cities.....	69	117	1.70	39	64	1.64	28	47	1.68	29	45	1.55
Both classes:												
Fall River.....	36	65	1.81	34	51	1.50	19	27	1.42	30	31	1.03
3 cities.....	81	130	1.60	70	108	1.54	42	66	1.57	63	82	1.30
NONTUBERCULOUS.												
Operatives:												
Fall River.....	3	3	1.00	7	8	1.14	9	10	1.11	19	56	2.95
3 cities.....	10	10	1.00	14	19	1.36	11	12	1.09	19	56	2.95
Nonoperatives, Fall River..	8	16	2.00	21	51	2.43	4	11	2.75	11	35	3.18
Both classes, Fall River.....	11	19	1.73	28	59	2.11	13	21	1.62	30	91	3.03
ALL CAUSES.												
Operatives:												
Fall River.....	12	13	1.08	22	34	1.55	22	28	1.27	37	74	2.00
3 cities.....	22	23	1.05	45	63	1.40	25	31	1.24	53	93	1.75
Nonoperatives, Fall River..	35	71	2.03	40	76	1.90	10	20	2.00	23	48	2.09
Both classes, Fall River.....	47	84	1.79	62	110	1.77	32	48	1.50	60	122	2.03

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 55.—AVERAGE NUMBER OF TUBERCULOUS KINDRED TO EACH TUBERCULOUS AND NONTUBERCULOUS DECEDENT, BY RACE AND SEX, AND BY OCCUPATION GROUPS, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907—Concl'd.

Classified cause of death, occupation group, and locality.	Other races.						All races.					
	Males.			Females.			Males.			Females.		
	Number of decedents with tuber- cu- lous kind- red.	Tuber- cu- lous kindred.		Number of decedents with tuber- cu- lous kind- red.	Tuber- cu- lous kindred.		Number of decedents with tuber- cu- lous kind- red.	Tuber- cu- lous kindred.		Number of decedents with tuber- cu- lous kind- red.	Tuber- cu- lous kindred.	
		Num- ber.	Aver- age per dece- dent.		Num- ber.	Aver- age per dece- dent.		Num- ber.	Aver- age per dece- dent.		Num- ber.	Aver- age per dece- dent.	Num- ber.	Aver- age per dece- dent.
TUBERCULOUS.												
Operatives:												
Fall River.....	8	8	1.00	7	7	1.00	39	49	1.26	50	65	1.30
3 cities.....	10	10	1.00	8	8	1.00	49	59	1.20	94	116	1.23
Nonoperatives:												
Fall River.....	4	8	2.00	7	8	1.14	60	116	1.93	46	87	1.89
3 cities.....	7	13	1.86	9	12	1.33	146	246	1.68	104	194	1.87
Both classes:												
Fall River.....	12	16	1.33	14	15	1.07	99	165	1.67	96	152	1.58
3 cities.....	17	23	1.35	17	20	1.18	195	305	1.56	198	310	1.57
NONTUBERCULOUS.												
Operatives:												
Fall River.....	3	3	1.00	2	2	1.00	22	25	1.14	37	79	2.14
3 cities.....	7	7	1.00	2	2	1.00	38	44	1.16	45	91	2.02
Nonoperatives, Fall River..	1	1	1.00	2	7	3.50	40	61	1.53	59	174	2.95
Both classes, Fall River.....	4	4	1.00	4	9	2.25	62	86	1.39	96	253	2.64
ALL CAUSES.												
Operatives:												
Fall River.....	11	11	1.00	9	9	1.00	61	74	1.21	87	144	1.66
3 cities.....	17	17	1.00	10	10	1.00	87	103	1.18	139	207	1.49
Nonoperatives, Fall River..	5	9	1.80	9	15	1.67	100	177	1.77	105	261	2.49
Both classes, Fall River.....	16	20	1.25	16	20	1.25	161	251	1.56	192	405	2.11

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 56.—NUMBER AND PERCENTAGE DISTRIBUTION OF TUBERCULOUS DECEDENTS IN EACH SEX, OCCUPATION, AND CAUSE (PAWTUCKET), 1905 TO 1907.

Relationship.	Tuberculous relatives and intimates of decedent male—								
	Operatives whose deaths were due to—			Nonoperatives whose deaths were due to—			Operatives and nonoperatives whose deaths were due to—		
	Tuberculosis.	Other causes.	All causes.	Tuberculosis.	Other causes.	All causes.	Tuberculosis.	Other causes.	All causes.
Grandfathers.....		1	1					1	1
Grandmothers.....				2		2	2		2
Fathers.....	8	6	14	18	8	26	26	14	40
Mothers.....	8	2	10	18	1	19	26	3	29
Husbands.....									
Wives.....	6	4	10	12	2	14	18	6	24
Sons.....	3	6	9	35	25	61	38	32	70
Daughters.....	6	7	13	25	50	75	31	57	88
Brothers.....	14	10	24	56	34	90	70	44	114
Sisters.....	13	5	18	67	14	81	80	19	99
Uncles.....				1		1	1		1
Aunts.....		1	1	4		4	4		1
Nephews.....				2	2	3	1	2	3
Nieces.....	1		1	2		2	3		3
Cousins, male.....		2	2	2		2	2	2	4
Cousins, female.....				3		3	3		3
Males in same house.....	3	3	6	19		19	22	3	25
Females in same house.....	7	3	10	17		17	24	3	27
Other male intimates.....	2		2	3	1	4	5	1	6
Other female intimates.....		1	1					1	1
Total males.....	30	28	58	135	71	206	165	99	264
Total females.....	41	23	64	150	67	217	191	90	281
Grand total.....	71	51	122	285	138	423	356	189	545

Relationship.	Tuberculous relatives and intimates of decedent female—								
	Operatives whose deaths were due to—			Nonoperatives whose deaths were due to—			Operatives and nonoperatives whose deaths were due to—		
	Tuberculosis.	Other causes.	All causes.	Tuberculosis.	Other causes.	All causes.	Tuberculosis.	Other causes.	All causes.
Grandfathers.....		1	1	1		2	1	2	3
Grandmothers.....		3	3	2	1	3	2	4	6
Fathers.....	17	5	22	22	15	37	39	20	59
Mothers.....	25	7	32	21	17	38	46	24	70
Husbands.....		1	1	8	9	17	8	10	18
Wives.....									
Sons.....	5	3	8	14	53	67	19	56	75
Daughters.....	4	3	7	22	71	93	26	74	100
Brothers.....	25	22	47	31	22	53	56	44	100
Sisters.....	34	31	65	46	52	98	80	83	163
Uncles.....		1	1	3	4	7	3	5	8
Aunts.....	2	4	6	14	9	23	16	13	29
Nephews.....					2	2		2	2
Nieces.....	4		4	2	8	10	6	8	14
Cousins, male.....		4	4	3		3	3	4	7
Cousins, female.....		6	6	5	1	6	5	7	12
Males in same house.....	3	1	4	16	5	21	19	6	25
Females in same house.....	11	19	30	18	8	26	29	27	56
Other male intimates.....	3	4	7	1	4	5	4	8	12
Other female intimates.....	8	5	13	5	6	11	13	11	24
Total males.....	53	42	95	99	115	214	152	157	309
Total females.....	88	78	166	135	173	308	223	251	474
Grand total.....	141	120	261	234	288	522	375	408	783

• Less than one-half of 1 per cent.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 56.—NUMBER AND PERCENTAGE DISTRIBUTION OF TUBERCULOUS DECEDENTS IN EACH SEX, OCCUPATION, AND CAUSE (PAWTUCKET), 1905 TO 1907—Concluded.

Relationship.	Tuberculous relatives and intimates of decedent male and female—								
	Operatives whose deaths were due to—			Nonoperatives whose deaths were due to—			Operatives and nonoperatives whose deaths were due to—		
	Tuberculosis.	Other causes.	All causes.	Tuberculosis.	Other causes.	All causes.	Tuberculosis.	Other causes.	All causes.
Grandfathers.....		2	2	1	1	2	1	3	4
Grandmothers.....		3	3	4	1	5	4	4	8
Fathers.....	25	11	36	40	23	63	65	34	99
Mothers.....	33	9	42	39	18	57	72	27	99
Husbands.....		1	1	8	9	17	8	10	18
Wives.....	6	4	10	12	2	14	18	6	24
Sons.....	8	9	17	49	79	128	57	88	145
Daughters.....	10	10	20	47	121	168	57	131	188
Brothers.....	39	32	71	87	56	143	126	88	214
Sisters.....	47	36	83	113	66	179	160	102	262
Uncles.....		1	1	4	4	8	4	5	9
Aunts.....	2	5	7	18	9	27	20	14	34
Nephews.....				1	4	5	1	4	5
Nieces.....	5		5	4	8	12	9	8	17
Cousins, males.....		6	6	5		5	5	6	11
Cousins, female.....		6	6	8	1	9	8	7	15
Males in same house.....	6	4	10	35	5	40	41	9	50
Females in same house.....	18	22	40	35	8	43	53	30	83
Other male intimates.....	5	4	9	4	5	9	9	9	18
Other female intimates.....	8	6	14	5	6	11	13	12	25
Total males.....	83	70	153	234	186	420	317	256	573
Total females.....	129	101	230	285	240	525	414	341	755
Grand total.....	212	171	383	519	426	945	731	597	1,328

• Less than one-half of 1 per cent.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 57.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHO HAD TUBERCULOUS RELATIVES AND INTIMATES, FOR OPERATIVES AND NONOPERATIVES, BY SEX, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Items.	Males.								
	Operatives.			Nonoperatives.			Total.		
	Tuber- culous.	Non- tuber- culous.	All causes.	Tuber- culous.	Non- tuber- culous.	All causes.	Tuber- culous.	Non- tuber- culous.	All causes.
Decedents having tuberculous rela- tives and intimates	49	49	98	146	60	206	195	109	304
Per cent of all decedents.....	38	17	23	41	3	8	40	4	10
	Females.								
Decedents having tuberculous rela- tives and intimates	96	46	142	108	80	188	204	126	330
Per cent of all decedents.....	51	18	32	39	3	7	44	4	10
	Both sexes.								
Decedents having tuberculous rela- tives and intimates	145	95	240	254	140	394	399	235	634
Per cent of all decedents.....	45	17	28	40	3	7	42	4	10

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 58.—AVERAGE NUMBER OF TUBERCULOUS RELATIVES AND INTIMATES TO EACH TUBERCULOUS AND NONTUBERCULOUS DECEDENT, BY SEX AND BY OCCUPATION GROUPS, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Sex.	Average number of tuberculous relatives and intimates of decedent male—								
	Operatives whose deaths were due to—			Nonoperatives whose deaths were due to—			Persons whose deaths were due to—		
	Tuber- culosis.	Other causes.	All causes.	Tuber- culosis.	Other causes.	All causes.	Tuber- culosis.	Other causes.	All causes.
Males.....	0.6	0.6	0.6	0.9	1.2	1.0	0.8	0.9	0.9
Females.....	.8	.4	.6	1.1	1.1	1.1	1.0	.8	.9
Total.....	1.4	1.0	1.2	2.0	2.3	2.1	1.8	1.7	1.8
	Average number of tuberculous relatives and intimates of decedent female—								
Males.....	0.6	0.9	0.7	0.9	1.4	1.1	0.7	1.2	1.0
Females.....	.9	1.7	1.1	1.3	2.2	1.7	1.1	2.0	1.4
Total.....	1.5	2.6	1.8	2.2	3.6	2.8	1.8	3.2	2.4
	Average number of tuberculous relatives and intimates of decedent male and female—								
Males.....	0.6	0.7	0.6	0.9	1.3	1.1	0.8	1.1	0.9
Females.....	.9	1.1	1.0	1.1	1.7	1.3	1.0	1.4	1.2
Total.....	1.5	1.8	1.6	2.0	3.0	2.4	1.8	2.5	2.1

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 59.—NUMBER AND PER CENT OF OPERATIVES OF THREE NEW IN SPECIFIED WORKROOM AND

THREE NEW ENGLAND CITIES.

Workroom and occupation or trade.	Number.												
	Males.				Females.				Both sexes.				
	Under 16 years of age.		All ages.		Under 16 years of age.		All ages.		Under 16 years of age.		All ages.		
	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	
Picker room:													
Bosses.....			71	87							71	87	
Picker tenders.....			317	540							317	540	
Total.....			388	627							388	627	
Card room:													
Bosses.....			277	376							277	376	
Roving men.....	1		105	179						1	105	179	
Grinders.....			122	208							122	208	
Strippers.....			347	513							347	513	
Drawing-frame tenders.....	9	19	286	364	1	146	267	9	20	432	631		
Slubber tenders.....			216	310			141	187			357	497	
Speeder tenders.....			458	544	4	1,366	1,882	4	1,824	2,426	625		
Doffers.....	22	22	103	131	131	145	422	494	153	167	525	625	
Unclassified.....	12	12	240	445			2	29	12	12	242	474	
Total.....	43	54	2,154	3,070	135	150	2,077	2,859	178	204	4,231	5,929	
Spinning room:													
Bosses.....			1	521	693						1	521	693
Roving men.....			3	184	274						3	184	274
Spinners.....	184	294	1,160	1,581	168	231	2,536	3,527	352	525	3,696	5,108	
Doffers.....	61	101	1,029	1,235	47	56	49	236	108	157	1,078	1,471	
Unclassified.....	64	120	476	712	15	17	34	63	79	137	510	775	
Total.....	309	519	3,370	4,495	230	304	2,619	3,826	539	823	5,989	8,321	
Spooler room:													
Bosses.....			2	146	236				4		2	146	240
Spooler tenders.....			4	329	381	94	136	1,473	2,478	94	140	1,802	2,859
Warper tenders.....	18	18	67	78	17	17	406	651	35	35	473	729	
Unclassified.....					2	7	73	171	2	7	73	171	
Total.....	18	24	542	695	113	160	1,952	3,304	131	184	2,494	3,999	
Drawing-in room:													
Bosses.....			6	7				1			6	8	
Drawing-in girls.....				2	16	58	471	676	16	58	471	678	
Machine drawing in.....	7	44	71	71			1	41			7	45	
Unclassified.....	5	45	78	78	3	3	37	56	3	8	82	134	
Total.....	12	95	158	19	61	509	774	19	73	604	932		
Slasher room:													
Bosses.....			22	42							22	42	
Slasher tenders.....			198	321							198	321	
Unclassified.....	2		90	218					2		90	218	
Total.....	2	310	581						2	310	581		
Weave room:													
Bosses.....			137	239							137	239	
Loom fixers.....			604	1,017							604	1,017	
Weavers.....	155	155	4,678	6,394	243	243	4,307	7,676	398	398	8,985	14,070	
Spare hands.....	32	32	121	127	11	11	18	36	43	43	139	163	
Unclassified.....		10	350	482		40	1	99		50	351	581	
Total.....	187	197	5,890	8,259	254	294	4,326	7,811	441	491	10,216	16,070	

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

ENGLAND AND THREE SOUTHERN COTTON-MILL CITIES, EMPLOYED OCCUPATION, BY SEX AND BY AGE GROUPS.

THREE NEW ENGLAND CITIES.

Per cent.											
Males.				Females.				Both sexes.			
Under 16 years of age.		All ages.		Under 16 years of age.		All ages.		• Under 16 years of age.		All ages.	
Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.
.....	.....	0.54	0.47	.....	.....	.....	.....	.....	.....	6.28	0.23
.....	.....	2.44	2.88	.....	.....	.....	.....	.....	.....	1.26	1.40
.....	.....	2.98	3.35	.....	.....	.....	.....	.....	.....	1.54	1.63
.....
.....	.....	2.13	2.01	.....	.....	.....	.....	.....	.....	1.10	.98
.....	0.12	.81	.96	.....	.....	.....	.....	.....	0.05	.42	.47
.....	.....	.94	1.11	.....	.....	.....	.....	.....	.....	.48	.54
.....	.....	2.67	2.74	.....	.....	.....	.....	.....	.....	1.38	1.33
.....	.....	2.20	1.94	.....	0.10	1.20	1.35	0.67	1.11	1.72	1.64
.....	.....	1.66	1.65	.....	.....	1.16	.95	.....	.....	1.42	1.29
.....	.....	3.52	2.90	0.52	.40	11.25	9.54	.30	.22	7.25	6.31
3.93	2.71	.79	.70	16.88	14.59	3.47	2.51	11.46	9.24	2.09	1.63
2.15	1.47	1.84	2.38	.....	.....	.02	.15	.90	.67	.96	1.23
7.69	6.64	16.56	16.39	17.40	15.09	17.10	14.50	13.33	11.29	16.82	15.42
.....
.....	.13	4.00	3.70	.....	.....	.....	.....	.....	.05	2.07	1.80
.....	.36	1.41	1.46	.....	.....	.....	.....	.....	.17	.73	.71
32.92	36.16	8.92	8.44	21.65	23.24	20.88	17.89	26.37	29.05	14.69	13.28
10.91	12.43	7.91	6.60	6.06	5.63	.40	1.19	8.09	8.69	4.29	3.83
11.45	14.76	3.66	3.80	1.93	1.71	.28	.32	5.92	7.58	2.03	2.02
55.28	63.84	25.90	24.00	29.64	30.58	21.56	19.40	40.38	45.55	23.81	21.64
.....
.....	.25	1.12	1.26	.....	.....	.....	.02	.....	.11	.58	.62
.....	.49	2.53	2.03	12.11	13.68	12.13	12.57	7.04	7.75	7.16	7.44
3.22	2.21	.52	.42	2.19	1.71	3.34	3.30	2.62	1.93	1.88	1.90
.....	.....	.....	.....	.26	.71	.60	.87	.15	.39	.29	.44
3.22	2.95	4.17	3.71	14.56	16.10	16.07	16.76	9.81	10.18	9.91	10.40
.....
.....	.....	.05	.04	.....	.....	.....	.01	.....	.....	.02	.02
.....	.....	.01	2.06	5.84	3.88	3.43	1.20	3.21	1.87	1.77	1.77
.....	.86	.34	.38	.....	.....	.01	.20	.....	.18	.29	.29
.....	.62	.34	.41	.39	.30	.30	.28	.22	.39	.33	.35
.....	1.48	.73	.84	2.45	6.14	4.19	3.92	1.43	4.04	2.40	2.43
.....
.....	.....	.17	.23	.....	.....	.....	.....	.....	.....	.09	.11
.....	.....	1.52	1.71	.....	.....	.....	.....	.....	.....	.78	.83
.....	.25	.69	1.16	.....	.....	.....	.....	.....	.11	.36	.57
.....	.25	2.38	3.10	.....	.....	.....	.....	.....	.....	1.23	1.51
.....
.....	.....	1.05	1.28	.....	.....	.....	.....	.....	.....	.55	.62
.....	.....	4.64	5.43	.....	.....	.....	.....	.....	.....	2.40	2.65
27.73	19.06	35.96	34.13	31.31	24.45	35.45	38.93	29.81	22.02	35.71	36.60
5.72	3.94	.93	.68	1.42	1.11	.15	.18	3.22	2.38	.57	.42
.....	.....	1.23	2.57	.....	4.02	.01	.51	.....	2.77	1.40	1.51
33.45	24.23	45.27	44.09	32.73	29.58	35.61	39.62	33.03	27.17	40.64	41.80

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 59.—NUMBER AND PER CENT OF OPERATIVES OF THREE NEW IN SPECIFIED WORKROOM AND OCCUPA

THREE NEW ENGLAND CITIES—Concluded.

Workroom and occupation or trade.	Number.											
	Males.				Females.				Both sexes.			
	Under 16 years of age.		All ages.		Under 16 years of age.		All ages.		Under 16 years of age.	All ages.		
	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.		
Cloth room:												
Bosses.....		3	46	57				9		3	46	66
Folders.....	2	2	120	619			53	209	2	2	173	828
Trimmers.....			10	16	9	9	319	549	9	9	329	565
Inspectors.....			7	41	3	3	163	219	3	3	170	260
Unclassified.....			78	113	13	13	130	157	13	13	208	270
Total.....	2	5	261	846	25	25	665	1,143	27	30	926	1,989
Total, all rooms.....	559	813	13,010	18,731	776	994	12,148	19,717	1,335	1,807	25,153	38,448

THREE SOUTHERN CITIES.

Workroom and occupation or trade.	Number.											
	Males.				Females.				Both sexes.			
	Under 16 years of age.		All ages.		Under 16 years of age.		All ages.		Under 16 years of age.	All ages.		
	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.		
Picker room:												
Bosses.....			7	9						7	9	
Picker tenders.....	3	3	49	59	3	3	3	3	6	6	52	62
Total.....	3	3	56	68	3	3	3	3	6	6	59	71
Card room:												
Bosses.....	5	5	31	47					5	5	31	47
Roving men.....			23	32							23	32
Card grinders.....			24	30							24	30
Strippers.....	4	4	44	60					4	4	44	60
Drawing-frame tenders		1	23	45			27	32		1	50	77
Slubber tenders.....	8	8	41	56		1			8	9	41	56
Speeder tenders.....			65	106			66	91			131	197
Dofters.....	1	1	17	23	1	1		5	1	2	17	28
Unclassified.....	12	13	44	64	1	1		12	12	14	44	76
Total.....	30	32	312	463		3	93	140	30	35	405	603
Spinning room:												
Bosses.....			45	71							45	71
Roving men.....		1	26	38		8		28		9	26	66
Spinners.....		12	12	37	43	78	269	396	43	90	281	433
Dofters.....	70	131	164	284		12		12	70	143	164	296
Unclassified.....	4	4	42	77	9	9	9	32	13	13	51	109
Total.....	74	148	289	507	52	107	278	468	126	255	567	975

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

ENGLAND AND THREE SOUTHERN COTTON-MILL CITIES, EMPLOYED TION, BY SEX AND BY AGE GROUPS—Continued.

THREE NEW ENGLAND CITIES—Concluded.

Per cent.											
Males.				Females.				Both sexes.			
Under 16 years of age.		All ages.		Under 16 years of age.		All ages.		Under 16 years of age.		All ages.	
Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.	Fall River.	Fall River, Manchester, Pawtucket.
.....	0.36	0.36	0.31	.....	.....	0.05	.....	0.17	0.18	0.17	0.17
0.36	.25	.92	3.30	.....	.....	0.44	1.06	0.15	.11	.69	2.15
.....	.....	.08	.09	01.16	0.90	2.62	2.78	.67	.49	1.31	1.47
.....	.....	.05	.22	.39	.30	1.34	1.11	.22	.17	.67	.68
.....	.....	.60	.60	1.67	1.31	1.07	.80	.98	.72	.83	.70
.36	.61	2.01	4.52	3.22	2.51	5.47	5.80	2.02	1.66	3.68	5.17
10.000	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

THREE SOUTHERN CITIES.

Per cent.											
Males.				Females.				Both sexes.			
Under 16 years of age.		All ages.		Under 16 years of age.		All ages.		Under 16 years of age.		All ages.	
Augusta.	Augusta, Atlanta, Raleigh.	Augusta.	Augusta, Atlanta, Raleigh.	Augusta.	Augusta, Atlanta, Raleigh.	Augusta.	Augusta, Atlanta, Raleigh.	Augusta.	Augusta, Atlanta, Raleigh.	Augusta.	Augusta, Atlanta, Raleigh.
.....	.....	0.60	0.46	.....	.....	.....	.....	.....	.....	0.32	0.27
2.25	1.39	4.17	3.03	3.62	1.98	0.29	0.21	2.78	1.64	2.37	1.84
2.25	1.39	4.77	3.49	3.62	1.98	.29	.21	2.78	1.64	2.69	2.11
.....
3.76	2.32	2.64	2.41	.....	.....	.....	.....	2.32	1.36	1.41	1.39
.....	.....	1.96	1.64	.....	.....	.....	.....	.....	.....	1.05	.95
.....	.....	2.05	1.54	.....	.....	.....	.....	.....	.....	1.09	.89
3.01	1.85	3.74	3.08	.....	.....	.....	.....	1.85	1.09	2.01	1.78
.....	.46	1.96	2.31	.....	.....	2.65	2.26	.27	.27	2.28	2.29
6.02	3.70	3.49	2.87	.....	.66	.....	.....	3.70	2.45	1.87	1.66
.....	.....	5.54	5.43	.....	.....	6.47	6.42	.....	.....	5.97	5.85
.75	.46	1.45	1.18	.....	.66	.....	.35	.46	.55	.77	.83
9.02	6.02	3.74	3.28	.....	.66	.....	.84	5.56	3.81	2.01	2.26
22.56	14.81	26.57	23.74	.....	1.98	9.12	9.87	13.89	9.53	18.46	17.90
.....
.....	.....	3.83	3.64	.....	.....	.....	.....	.....	.....	2.05	2.11
.....	.46	2.21	1.95	.....	5.30	.....	1.98	.....	2.45	1.19	1.96
.....	5.56	1.02	1.90	51.81	51.65	26.38	27.93	19.91	24.52	12.81	12.85
52.63	60.65	13.97	14.56	.....	7.95	.....	.84	32.40	38.97	7.47	8.79
3.01	1.85	3.58	3.95	10.84	5.96	.88	2.26	6.02	3.54	2.32	3.24
55.64	68.52	24.62	26.00	62.65	70.86	27.26	33.01	58.33	69.48	25.84	28.95

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 59.—NUMBER AND PER CENT OF OPERATIVES OF THREE NEW IN SPECIFIED WORKROOM AND OCCUPA

THREE SOUTHERN CITIES—Concluded.

Workroom and occupation or trade.	Number.											
	Males.				Females.				Both sexes.			
	Under 16 years of age.		All ages.		Under 16 years of age.		All ages.		Under 16 years of age.	All ages.		
	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.	Au-gusta.	Au-gusta, At-lanta, Ra-leigh.		
Spooler room:												
Bosses.....			13	19				6		13	25	
Spooler tenders.....				53	15	15	151	162	15	15	151	215
Warper tenders.....			10	16				11			18	27
Unclassified.....	2	2	6	6	4	4	6	19	6	6	12	25
Total.....	2	2	29	94	19	19	165	198	21	21	194	292
Drawing-in room:												
Bosses.....			1	1							1	1
Drawers in.....				1			21	47			21	48
Machine drawing in.....			5	7				1			5	8
Unclassified.....			6	7		4		8		4	6	15
Total.....			12	16		4	21	56		4	33	72
Slasher room:												
Bosses.....			1	2							1	2
Slasher tenders.....			18	29							18	29
Unclassified.....			6	19				2			6	21
Total.....			25	50				2			25	52
Weave room:												
Bosses.....			12	20							12	20
Loom fixers.....			60	97							60	97
Weavers.....	14	18	243	398	7	13	418	491	21	31	661	889
Spare hands.....			18	33			26	37			44	70
Unclassified.....	6	7	64	116	2	2	3	9	8	9	67	125
Total.....	20	25	397	664	9	15	447	537	29	40	844	1,201
Cloth room:												
Bosses.....			4	6							4	6
Folders.....	4	4	13	32				1	4	4	13	33
Trimmers.....			9	12							9	12
Inspectors.....			11	12			13	13			24	25
Unclassified.....		2	17	26						2	17	26
Total.....	4	6	54	88			13	14	4	6	67	102
Total, all rooms.....	133	216	1,174	1,950	83	151	1,020	1,418	216	367	2,194	3,368

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 60.—NUMBER OF DEATHS OF OPERATIVES FROM EACH SPECI
EMPLOYED, FALL

MALES.

Race and place of work.	Number of deaths from each specified cause.						
	Accident or violence.	Senility.	Unclasi- fied diseases.	Parturi- tion.	Cancer.	Diseases of the nervous system.	Diseases of the digestive system.
OPERATIVES.							
American:							
Picker and card rooms.....							
Spinning room.....							
Spooler and slasher rooms.....							
Weave room.....							1
Cloth room.....							1
Room unspecified.....							
Total.....							2
English:							
Picker and card rooms.....							
Spinning room.....	3						1
Spooler and slasher rooms.....			1				
Weave room.....	10		7		4	2	4
Cloth room.....							
Room unspecified.....	1		2		1		1
Total.....	14		10		5	2	6
Irish:							
Picker and card rooms.....	3				1		1
Spinning room.....	2		1		1		
Spooler and slasher rooms.....							
Weave room.....	2	1	1		1		3
Cloth room.....							1
Room unspecified.....					2	1	1
Total.....	7	1	2		5	1	6
French Canadians:							
Picker and card rooms.....							
Spinning room.....	3		2		1		2
Spooler and slasher rooms.....						1	
Weave room.....	3		2			3	6
Cloth room.....							
Room unspecified.....			1				1
Total.....	6		5		1	4	9
Other races:							
Picker and card rooms.....	2		1			1	2
Spinning room.....	1						1
Spooler and slasher rooms.....							
Weave room.....	1					1	1
Cloth room.....	1						
Room unspecified.....							
Total.....	5		1			2	4
All races:							
Picker and card rooms.....	5		1		1	1	3
Spinning room.....	9		3		2		4
Spooler and slasher rooms.....			1			1	
Weave room.....	16	1	10		5	6	15
Cloth room.....	1						2
Room unspecified.....	1		3		3	1	3
Total.....	32	1	18		11	9	27
NONOPERATIVES.							
American.....	7	9	18		11	12	13
English.....	19	12	21		17	10	21
Irish.....	14	14	25		18	9	36
French Canadian.....	14	9	29		11	15	18
Other races.....	7	2	12		8	5	7
All races.....	61	46	105		65	51	95

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

FIED CAUSE, BY SEX, OCCUPATION, RACE, AND WORKROOM WHERE RIVER, 1905 TO 1907.

MALES.

Number of deaths from each specified cause.									
Ne- phritis.	Apo- plexy.	Heart disease.	Respira- tory dis- eases other than tubercu- losis.	Total, non- tuber- culous causes.	Tuber- culosis.	Total, all causes	Total, respira- tory causes.	Total, non- respira- tory causes.	Total, all causes.
1			2	1		1		1	1
				2	2	4	4		4
1	1		1	4	4	8	5	3	8
2		1		3		3		1	1
						3		3	3
4	1	1	3	11	6	17	9	8	17
2	2	4	2	14	5	19	7	12	19
1			1	3		3	1	2	3
5	2	2	2	38	11	49	13	36	49
			1	1	1	2	2		2
	1	2	1	9	2	11	3	8	11
8	5	8	7	65	19	84	26	58	84
1		1		7		7		7	7
3	2	2	3	14	9	23	12	11	23
1		1		2	1	3	1	2	3
3		3	2	16	10	26	12	14	26
			1	2	2	2	1	1	2
		1		5	4	9	4	5	9
8	2	8	6	46	24	70	30	40	70
1			3	4	2	6	5	1	6
1	1	1	4	15	9	24	13	11	24
			1	1	2	3	2	1	3
2	1	4	3	24	14	38	17	21	38
			2	4	1	5	3	2	5
4	2	5	12	48	28	76	40	36	76
1		3	2	12	6	18	8	10	18
			1	3	5	8	6	2	8
				3	3	6	3	3	6
				1		1		1	1
1	1	1	1	4	3	7	4	3	7
2	1	4	4	23	17	40	21	19	40
4		4	5	24	8	32	13	19	32
6	5	7	12	48	30	78	42	36	78
2		1	1	6	3	9	4	5	9
11	4	9	8	85	42	127	50	77	127
			2	5	1	6	3	3	6
3	2	5	4	25	10	35	14	21	35
26	11	26	32	193	94	287	126	161	287
15	19	36	18	158	20	178	38	140	178
22	28	34	28	212	24	236	52	184	236
49	37	61	52	315	72	387	124	263	387
17	23	25	22	183	20	203	42	161	203
7	4	12	13	77	16	93	29	64	93
110	111	168	133	945	152	1,097	285	812	1,097

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 60.—NUMBER OF DEATHS OF OPERATIVES FROM EACH SPECI EMPLOYED, FALL RIVER, FEMALES.

Race and place of work.	Number of deaths from each specified cause.						
	Accident or violence.	Senility.	Unclassified diseases.	Parturition.	Cancer.	Diseases of the nervous system.	Diseases of the digestive system.
OPERATIVES.							
American:							
Picker and card rooms.....							
Spinning room.....							
Spooler and slasher rooms.....							2
Weave room.....							1
Cloth room.....							
Room unspecified.....	1						
Total.....	1						3
English:							
Picker and card rooms.....			1	1	2		
Spinning room.....							1
Spooler and slasher rooms.....			1				
Weave room.....	2		3	7	2		3
Cloth room.....						1	1
Room unspecified.....							
Total.....	2		5	8	4	1	5
Irish:							
Picker and card rooms.....			1	1	2	2	2
Spinning room.....							
Spooler and slasher rooms.....					1	1	1
Weave room.....	1			2	1	2	4
Cloth room.....				1	1	1	
Room unspecified.....							
Total.....	1		1	4	5	6	7
French Canadian:							
Picker and card rooms.....				1			
Spinning room.....			1	3	1	1	2
Spooler and slasher rooms.....	1		1	1	3	1	1
Weave room.....			1	2			5
Cloth room.....							
Room unspecified.....							
Total.....	1		3	7	4	2	8
Other races:							
Picker and card rooms.....			1	3		1	1
Spinning room.....				2			1
Spooler and slasher rooms.....				1			2
Weave room.....				1			
Cloth room.....							
Room unspecified.....					1		
Total.....			1	7	1	1	4
All races:							
Picker and card rooms.....			3	6	4	3	3
Spinning room.....			1	5	1	1	4
Spooler and slasher rooms.....	1		2	2	4	2	6
Weave room.....	3		4	12	3	2	12
Cloth room.....				1	1	2	2
Room unspecified.....	1				1		
Total.....	5		10	26	14	10	27
NONOPERATIVES.							
American.....	5	22	25	1	24	9	20
English.....	4	15	23	3	42	10	21
Irish.....	17	27	31	7	26	10	50
French Canadian.....	3	8	20	15	26	7	31
Other races.....	1	3	10	7	5	2	3
All races.....	30	75	109	33	123	38	125

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

IFIED CAUSE, BY SEX, OCCUPATION, RACE, AND WORKROOM WHERE
1905 TO 1907—Concluded.

FEMALES.

Number of deaths from each specified cause.									
Ne- phritis.	Apo- plexy.	Heart disease.	Respira- tory dis- eases other than tubercu- losis.	Total, non- tubercu- lous causes.	Tuber- culosis.	Total, all causes.	Total, respira- tory causes.	Total, non- respira- tory causes.	Total, all causes.
1			1	1	1	2	1	1	2
1	1	1	1	5	1	6	1	5	6
3		1	1	4	1	5	1	4	5
			1	2	2	4	3	1	4
				1		1		1	1
5	1	2	2	14	5	19	7	12	19
2			1	7	5	12	6	6	12
				1	1	2	1	1	2
				1	2	3	2	1	3
5	3	2	4	31	7	38	11	27	38
				2	1	3	1	2	3
7	3	2	5	42	16	58	21	37	58
5		3	2	18	15	33	17	16	33
					2	2	2		2
2			1	6	3	9	4	5	9
8	2	4	5	29	18	47	23	24	47
			1	4	1	5	2	3	5
1				1		1		1	1
16	2	7	9	58	39	97	48	49	97
		1	1	3	4	7	5	2	7
2			7	17	13	30	20	10	30
			6	15	14	29	20	9	29
1	1	4	4	18	7	25	11	14	25
			1	1	1	2	2		2
3	2	5	19	54	39	93	58	35	93
		1		7	3	10	3	7	10
1			2	6	6	12	8	4	12
1				4	1	5	1	4	5
				1	1	2	1	1	2
				1	2	3	2	1	3
2		1	2	19	13	32	15	17	32
8		5	4	36	28	64	32	32	64
3			10	25	22	47	32	15	47
4	2	1	7	31	21	52	28	24	52
17	6	11	13	83	34	117	47	70	117
			3	9	5	14	8	6	14
1				3	2	5	2	3	5
33	8	17	37	187	112	299	149	150	299
24	31	38	28	227	16	243	44	199	243
20	28	33	29	228	19	247	48	199	247
60	61	76	54	419	32	451	86	365	451
13	16	34	39	212	24	236	63	173	236
10	7	14	15	77	17	94	32	62	94
127	143	195	165	1,163	108	1,271	273	998	1,271

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 61.—NUMBER AND AVERAGE AGE AT DEATH OF DECEDENT OPERATIVES, BY SEX, CAUSE OF DEATH, AND OCCUPATION, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Sex and cause of death.	Decedent operatives who had been employed as—								Total.	
	Pick-ers.	Card-ers and speed-ers.	Doff-ers.	Spin-ners.	Slash-ers and spool-ers.	Loom fix-ers.	Weav-ers.	Cloth-room hands.		Mis-cella-neous employ-ees.
MALES.										
Accident or violence.....		7	4	7		1	20	1	4	44
Senility.....							1			1
Unclassified diseases.....		3	2	3	2	3	13		4	30
Cancer.....		1		3			8		3	15
Diseases of the nervous system.....	1		1	3	1	3	8		3	20
Diseases of the digestive system.....	1	3	1	4		1	16	3	3	32
Nephritis.....	2	3		8	4	1	17	1	6	42
Apoplexy.....	1	1		6	3	2	6		4	23
Heart disease.....	2	4	2	10	3	3	12		8	44
Nontuberculous respiratory diseases.....	1	6	2	13	1	2	11	2	4	42
Nontuberculous diseases.....	8	28	12	57	14	16	112	7	39	293
Tuberculosis.....	5	8	15	22	5	13	44	3	15	130
Respiratory diseases.....	6	14	17	35	6	15	55	5	19	172
Nonrespiratory diseases.....	7	22	10	44	13	14	101	5	35	251
Total.....	13	36	27	79	19	29	156	10	54	423
FEMALES.										
Accident or violence.....					2		7		2	11
Unclassified diseases.....		2	1	1	2		9		1	16
Parturition.....		6		7	2		14	1	1	31
Cancer.....		6		2	4		7	1	1	21
Diseases of the nervous system.....		4		5	4		3	3		19
Diseases of the digestive system.....		3		4	7		13	2	1	30
Nephritis.....		6	3	4	6		19		2	40
Apoplexy.....		1			2		7	2		12
Heart disease.....		7	1	2	2		16	1		29
Nontuberculous respiratory diseases.....		4		12	12		19	3	2	52
Nontuberculous diseases.....		39	5	37	43		114	13	10	261
Tuberculosis.....		30	8	29	42		56	11	13	189
Respiratory diseases.....		34	8	41	54		75	14	15	241
Nonrespiratory diseases.....		35	5	25	31		95	10	8	209
Total.....		69	13	66	85		170	24	23	450
BOTH SEXES.										
Accident or violence.....		7	4	7	2	1	27	1	6	55
Senility.....							1			1
Unclassified diseases.....		5	3	4	4	3	22		5	46
Parturition.....		6		7	2		14	1	1	31
Cancer.....		7		5	4		15	1	4	36
Diseases of the nervous system.....	1	4	1	8	5	3	11	3	3	39
Diseases of the digestive system.....	1	6	1	8	7	1	29	5	4	62
Nephritis.....	2	9	3	12	10	1	36	1	8	82
Apoplexy.....	1	2		6	5	2	13	2	4	35
Heart disease.....	2	11	3	12	5	3	28	1	8	73
Nontuberculous respiratory diseases.....	1	10	2	25	13	2	30	5	6	94
Nontuberculous diseases.....	8	67	17	94	37	16	226	20	49	554
Tuberculosis.....	5	38	23	51	47	13	100	14	28	319
Respiratory diseases.....	6	48	25	76	60	15	130	19	34	413
Nonrespiratory diseases.....	7	57	15	69	44	14	196	15	43	460
Total.....	13	105	40	145	104	29	326	34	77	873

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 61.—NUMBER AND AVERAGE AGE AT DEATH OF DECEDENT OPERATIVES, BY SEX, CAUSE OF DEATH, AND OCCUPATION, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWUCKET), 1905 TO 1907—Concluded.

AVERAGE AGE AT DEATH.

Sex and cause of death.	Average age at death of operatives who had been employed as—								Total.	
	Pick-ers.	Card-ers and speed-ers.	Doff-ers.	Spin-ners.	Slash-ers and spool-ers.	Loom fix-ers.	Weav-ers.	Cloth-room hands.		Mis-cellaneous employ-ees.
MALES.										
Accident or violence.....		30	22	35		39	40	45	29	35
Senility.....							71			71
Unclassified diseases.....		47	17	47	76	48	49		39	47
Cancer.....		57		55			50			57
Diseases of the nervous system.....	25		16	44	26	46	28			33
Diseases of the digestive system.....	47	33	19	40		37	41	38		40
Nephritis.....	43	48		50	46	46	51	31		48
Apoplexy.....	53	76		49	72	57	55			56
Heart disease.....	42	46	21	51	56	50	47			49
Nontuberculous respiratory diseases.....	36	48	21	42	62	36	43	47	41	42
Nontuberculous diseases.....	41	43	20	46	56	46	45	41	45	44
Tuberculosis.....	44	40	24	32	34	42	35	28	41	35
Respiratory diseases.....	42	44	24	36	39	42	36	36	41	37
Nonrespiratory diseases.....	42	41	20	47	55	48	45	38	45	45
Total.....	42	42	22	42	51	45	42	37	44	41
FEMALES.										
Accident or violence.....					19		43		20	34
Unclassified diseases.....		31	15	18	26		30		38	29
Parturition.....		28		24	29		28	20		27
Cancer.....		49		39	42		46	40	24	44
Diseases of the nervous system.....		31		27	30		31	18		28
Diseases of the digestive system.....		37		28	30		34	15	55	31
Nephritis.....		46	20	22	36		45		46	40
Apoplexy.....		22			39		46	44		42
Heart disease.....		42	13	27	34		43	61		41
Nontuberculous respiratory diseases.....		30		25	35		38	23	49	33
Nontuberculous diseases.....		38	18	26	33		39	28	38	35
Tuberculosis.....		29	20	27	24		31	26	30	28
Respiratory diseases.....		30	20	27	27		33	25	33	29
Nonrespiratory diseases.....		39	19	26	32		39	29	35	35
Total.....		34	19	26	29		36	27	33	32
BOTH SEXES.										
Accident or violence.....		30	22	35	19	39	41	45	26	35
Senility.....							71			71
Unclassified diseases.....		41	16	40	51	48	41		39	41
Parturition.....		28		24	29		28	20	42	27
Cancer.....		50		49	42		48	40	49	48
Diseases of the nervous system.....	25	31	16	33	29	46	29	18	28	31
Diseases of the digestive system.....	47	35	19	34	30	37	38	29	51	36
Nephritis.....	43	47	20	41	40	46	48	31	42	44
Apoplexy.....	53	49		49	59	57	50	44	55	51
Heart disease.....	42	44	18	47	47	50	45	61	55	46
Nontuberculous respiratory diseases.....	36	41	21	34	37	36	40	33	44	37
Nontuberculous diseases.....	41	40	19	38	39	46	42	33	44	40
Tuberculosis.....	44	31	23	29	25	42	33	26	36	31
Respiratory diseases.....	42	34	23	31	28	42	34	28	38	32
Nonrespiratory diseases.....	42	40	20	39	39	48	42	32	43	40
Total.....	42	37	21	35	33	45	39	30	41	36

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 62.—NUMBER OF DEATHS AND DEATH RATE PER 1,000 OF OPER WHICH DECEDENT WAS EMPLOYED, FALL RIVER AND 3 CITIES (FALL

[In a number of cases the workroom in which decedents were employed could not be determined, and this reason the death rates for the workrooms may be too low, excepting those for the female operatives

MALES.

Room in which operatives were employed, locality, and period.	Total persons employed.	Deaths due to—													
		Accident or violence.		Senility.		Un-classified diseases.		Par-turition.		Cancer.		Diseases of the nervous system.		Diseases of the digestive system.	
		No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000
Picker room:															
Fall River.	388														
3 cities.	627														
3 cities.	627														
Card room:															
Fall River.	2,154	1	0.47			1	0.47			11	0.46			1	.47
3 cities.	3,070	3	.98			1	.32				.33			1	.32
3 cities.	3,070	7	2.26			3	.32				.11			3	.33
Spinning room:															
Fall River.	3,370	4	1.19			1	.30			1	.30			2	.59
3 cities.	3,370	9	2.67			3	.90			2	.60			4	1.20
3 cities.	4,495	6	1.33			2	.44			1	.22			2	.44
3 cities.	4,495	11	2.44			5	1.12			3	.67			5	1.12
Spooler room:															
Fall River.	637														
3 cities.	853														
3 cities.	853														
Sasher room:															
Fall River.	310														
3 cities.	581														
3 cities.	581														
Weave room:															
Fall River.	5,890	8	1.35	1	0.17	3	.51			3	.51	4	.68	4	.68
3 cities.	5,890	16	2.72	1	.17	10	1.71			5	.85	6	1.03	15	2.55
3 cities.	8,259	9	1.09	1	.12	3	.36			4	.48	5	.61	4	.48
3 cities.	8,259	21	2.54	1	.12	16	1.94			8	.97	11	1.33	17	2.07
Cloth room:															
Fall River.	261														
3 cities.	261	1	0.38												
3 cities.	846														
3 cities.	846	1	0.12												
Room not specified:															
Fall River.						1				2				3	
3 cities.						3				3				3	
3 cities.						1				1				3	
3 cities.						4				2				3	
Total all work-rooms:															
Fall River.	13,010	13	1.00	1	.08	6	.46			7	.54	5	.38	11	.85
3 cities.	13,010	32	2.42	1	.03	18	1.38			11	.85	9	.69	27	2.07
3 cities.	18,731	20	1.07	1	.05	8	.43			8	.43	9	.48	14	.75
3 cities.	18,731	44	2.35	1	.02	30	1.61			15	.78	20	1.07	32	1.71

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

ATIVES, BY SPECIFIED CAUSE OF DEATH AND BY WORKROOM IN RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR AND 3 YEARS.

In such cases the deaths have been omitted in computing the death rates of the several workrooms. For of Fall River, which are practically correct. See page 136 for detailed explanation.]

MALES.

Deaths due to—																	
Nephritis.		Apoplexy.		Heart disease.		Nontuber- culous respiratory diseases.		Nontuber- culous diseases.		Tubercu- losis.		Respira- tory diseases.		Nonre- spiratory diseases.		All causes.	
No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000
2	5.15							2	5.15	1	2.58	1	2.58	2	5.15	3	7.73
2	1.72			2	1.71	1	0.86	6	5.15	3	2.58	4	3.44	5	4.29	9	7.73
2	3.19	1	1.59					4	6.38	2	3.19	2	3.19	4	6.38	6	9.57
2	1.06	1	.53	2	1.06	1	.53	8	4.25	5	2.66	6	3.19	7	3.72	13	6.91
				1	.46	1	.46	6	2.79	1	.46	2	.93	5	2.32	7	3.25
2	.31			2	.31	4	.62	18	2.79	5	.77	9	1.39	14	2.17	23	3.56
1	.33			2	.65	2	.65	11	3.58	4	1.30	6	1.95	9	2.93	15	4.88
3	.33	1	.11	4	.43	6	.65	28	3.04	8	.87	14	1.52	22	2.39	36	3.91
2	.50	2	.59	1	.30	5	1.48	18	5.34	17	5.05	22	6.53	13	3.86	35	10.39
6	.59	5	.49	7	.69	12	1.19	48	4.75	30	2.97	42	4.16	36	3.56	78	7.72
3	.67	3	.67	4	.89	7	1.56	31	6.89	19	4.23	26	5.78	24	5.34	50	11.12
8	.59	6	.45	12	.89	15	1.11	69	5.12	37	2.74	52	3.86	54	4.00	106	7.86
1	.52							1	.52					1	.52	1	.52
1	.39							1	.39					1	.39	1	.39
								1	3.23					1	3.23	1	3.23
1	1.08			1	1.07	1	1.08	5	5.38	3	3.22	4	4.30	4	4.30	8	8.60
1	1.72	1	1.72	1	1.72	1	1.72	5	8.61	1	1.72	1	1.72	5	8.61	6	10.33
3	1.72	3	1.72	3	1.72	1	.57	13	7.46	5	2.87	6	3.44	12	6.89	18	10.33
4	.68	3	.51	1	.17	3	.51	34	5.77	15	2.55	18	3.06	31	5.26	49	8.32
11	.62	4	.23	9	.51	8	.45	85	4.81	42	2.38	50	2.83	77	4.36	127	7.19
5	.61	5	.61	2	.24	5	.61	43	5.21	19	2.30	24	2.91	38	4.60	62	7.51
18	.73	8	.32	15	.61	13	.52	128	5.17	57	2.30	70	2.82	115	4.64	185	7.47
						1	3.83	2	7.66	1	3.83	2	7.66	1	3.83	3	11.49
						2	2.55	5	6.38	1	1.28	3	3.83	3	3.83	6	7.66
1	1.18			1	1.18	4	4.72	3	3.55	4	4.72	3	3.55	7	3.55	7	8.27
1	.39			2	.79	7	2.76	7	2.76	3	1.18	5	1.97	5	1.97	10	3.94
2		2		3		2		15		5		7		13		20	
3		2		5		4		25		10		14		21		35	
4		2		6		2		23		5		7		21		28	
6		4		8		4		39		15		19		35		54	
10	.77	7	.54	6	.46	12	.62	78	6.00	40	3.07	52	4.00	66	5.07	118	9.07
26	.67	11	.28	26	.67	32	.82	193	4.94	94	2.41	126	3.23	161	4.12	287	7.35
17	.91	12	.64	15	.80	17	.91	121	6.46	53	2.83	70	3.74	104	5.55	174	9.26
42	.75	28	.41	44	.78	42	.75	293	5.22	130	2.31	172	3.06	251	4.47	423	7.53

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 62.—NUMBER OF DEATHS AND DEATH RATE PER 1,000 OF OPERATIVES WHICH DECEDENT WAS EMPLOYED, FALL RIVER AND 3 CITIES (FALL

FEMALES.

Room in which operatives were employed, locality, and period.	Total persons employed.	Deaths due to—													
		Accident or violence.		Senility.		Un-classified diseases.		Parturition.		Cancer.		Diseases of the nervous system.		Diseases of the digestive system.	
		No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000
Card room:															
Fall River...1 year...	2,077						3	1.45	2	0.96	1	0.48	1	0.48	
3 years...	2,077				3	0.48	6	.97	4	.64	3	.48	3	.48	
3 cities...1 year...	2,859						3	1.05	3	1.05	1	.35	1	.35	
3 years...	2,859				3	.35	6	.70	6	.70	4	.46	3	.35	
Spinning room:															
Fall River...1 year...	2,619						3	1.15	1	.38	1	.38	3	1.15	
3 years...	2,619				1	.13	5	.63	1	.13	1	.13	4	.51	
3 cities...1 year...	3,826						5	1.31	1	.26	4	1.05	3	.78	
3 years...	3,826				1	.09	7	.61	2	.17	5	.44	4	.35	
Spooler room:															
Fall River...1 year...	2,461	1	0.41								1	.41	2	.80	
3 years...	2,461	1	.14			2	.27	2	.27	4	.54	2	.27	6	.81
3 cities...1 year...	4,078	1	.25								1	.24	2	.49	
3 years...	4,078	2	.16			2	.17	2	.16	4	.33	4	.33	7	.57
Weave room:															
Fall River...1 year...	4,326	1	.23				6	1.39	2	.46	2	.46	3	.69	
3 years...	4,326	3	.23			4	.31	12	.93	3	.23	2	.15	12	.93
3 cities...1 year...	7,811	3	.38			1	.13	7	.90	2	.26	3	.38	3	.38
3 years...	7,811	7	.30			9	.38	14	.60	7	.30	3	.13	13	.55
Cloth room:															
Fall River...1 year...	665													2	3.01
3 years...	665							1	.50	1	.50	2	1.01	2	1.00
3 cities...1 year...	1,143													2	1.75
3 years...	1,143							1	.29	1	.29	3	.88	2	.59
Room not specified:															
Fall River...1 year...		1								1					
3 years...		1												1	
3 cities...1 year...		1													
3 years...		2				1		1		1				1	
Total, all work-rooms:															
Fall River...1 year...	12,148	2	.16					12	.99	5	.41	5	.41	11	.91
3 years...	12,148	5	.14			10	.27	26	.71	14	.38	10	.27	27	.74
3 cities...1 year...	19,717	5	.25			2	.10	15	.76	6	.30	9	.46	12	.62
3 years...	19,717	11	.19			16	.27	31	.52	21	.36	19	.32	30	.51

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 62.—NUMBER OF DEATHS AND DEATH RATE PER 1,000 OF OPERATIVES WHICH DECEDENT WAS EMPLOYED, FALL RIVER AND 3 CITIES (FALL

BOTH SEXES.

Room in which operatives were employed, locality, and period.	Total persons employed	Deaths due to—														
		Accident or violence.		Senility.		Un-classified diseases.		Par-turition		Cancer.		Diseases of the nervous system.		Diseases of the digestive system.		
		No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	
Picker room:																
Fall River... 1 year...	388															
3 years...	388											1	0.86			
3 cities... 1 year...	627													1	1.59	
3 years...	627											1	.53	1	.53	
Card room:																
Fall River... 1 year...	4,231	1	0.24			1	0.24	3	0.71	3	0.71	1	.24	2	.47	
3 years...	4,231	5	.39			4	.32	6	.48	5	.39	3	.24	6	.48	
3 cities... 1 year...	5,929	3	.51			1	.17	3	.51	4	.67	1	.17	2	.34	
3 years...	5,929	7	.39			6	.34	6	.34	7	.39	4	.23	6	.34	
Spinning room:																
Fall River... 1 year...	5,989	4	.67			1	.17	3	.50	2	.33	1	.17	5	.83	
3 years...	5,989	9	.50			4	.22	5	.28	3	.17	1	.06	8	.44	
3 cities... 1 year...	8,321	6	.72			2	.24	5	.60	2	.24	6	.72	6	.72	
3 years...	8,321	11	.44			6	.24	7	.28	5	.20	9	.36	9	.36	
Spooler room:																
Fall River... 1 year...	3,098	1	.32									1	.32	2	.65	
3 years...	3,098	1	.11			2	.22	2	.21	4	.43	2	.21	6	.65	
3 cities... 1 year...	4,931	1	.20									1	.20	2	.40	
3 years...	4,931	2	.14			2	.13	2	.14	4	.27	4	.27	7	.47	
Slasher room:																
Fall River... 1 year...	310											1	3.23			
3 years...	310					1	1.07					1	1.08			
3 cities... 1 year...	581					1	1.73					1	1.72			
3 years...	581					2	1.15					1	.58			
Weave room:																
Fall River... 1 year...	10,216	9	.88	1	0.10	3	.29	6	.59	5	.49	6	.59	7	.68	
3 years...	10,216	19	.62	1	.03	14	.46	12	.39	8	.26	8	.26	27	.88	
3 cities... 1 year...	16,070	12	.75	1	.06	4	.24	7	.44	6	.37	8	.50	7	.44	
3 years...	16,070	28	.58	1	.02	25	.52	14	.29	15	.31	14	.29	30	.62	
Cloth room:																
Fall River... 1 year...	926													3	3.24	
3 years...	926	1	.36					1	.36	1	.36	2	.72	4	1.44	
3 cities... 1 year...	1,989													4	2.02	
3 years...	1,989	1	.17					1	.17	1	.17	3	.50	5	.84	
Room not specified:																
Fall River... 1 year...						1				2				3		
3 years...						3				4				3		
3 cities... 1 year...						2				2				4		
3 years...						5		1		4				4		
Total, all work-rooms:																
Fall River... 1 year...	25,158	15	.60	1	.04	6	.25	12	.47	12	.47	10	.40	22	.87	
3 years...	25,158	37	.49	1	.01	28	.37	26	.34	25	.33	19	.25	54	.72	
3 cities... 1 year...	38,448	25	.65	1	.03	10	.26	15	.39	14	.36	18	.47	26	.67	
3 years...	38,448	55	.48	1	.01	46	.40	31	.27	36	.31	39	.34	62	.54	

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

ATIVES, BY SPECIFIED CAUSE OF DEATH AND BY WORKROOM IN RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR AND 3 YEARS—Concl'd.

BOTH SEXES.

Deaths due to—																	
Nephritis.		Apoplexy.		Heart disease.		Nontuber- culous respiratory diseases.		Nontuber- culous diseases.		Tubercu- losis.		Respira- tory diseases.		Nonre- spiratory diseases.		All causes.	
No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000	No.	Rate per 1,000
2	5.15							2	5.15	1	2.53	1	2.53	2	5.15	3	7.73
2	1.72			2	1.72	1	0.08	6	5.15	3	2.53	4	3.44	5	4.29	9	7.73
2	3.19	1	1.59					4	6.38	2	3.19	2	3.19	4	6.38	6	9.57
2	1.06	1	.53	2	1.06	1	.53	8	4.25	5	2.66	6	3.19	7	3.72	13	6.91
3	.71			3	.71	1	.24	18	4.26	16	3.78	17	4.02	17	4.02	34	8.04
10	.79			7	.55	8	.63	54	4.25	33	2.60	41	3.23	46	3.62	87	6.85
5	.84			4	.67	2	.33	26	4.33	23	3.88	25	4.21	24	4.05	49	8.26
12	.67	2	.11	12	.67	10	.57	72	4.05	46	2.53	56	3.15	62	3.48	118	6.63
4	.67	2	.33	1	.17	10	1.67	33	5.51	27	4.51	37	6.18	23	3.84	60	10.02
9	.50	5	.28	7	.39	22	1.22	73	4.06	52	2.90	74	4.12	51	2.84	125	6.96
5	.60	3	.37	5	.60	12	1.44	52	6.25	35	3.97	45	5.41	40	4.81	85	10.22
12	.48	6	.24	14	.56	27	1.09	106	4.25	66	2.64	93	3.73	79	3.16	172	6.89
		2	.65	1	.32	4	1.29	11	3.55	7	2.26	11	3.55	7	2.26	18	5.81
5	.54	2	.21	1	.11	7	.75	32	3.44	21	2.26	28	3.01	25	2.69	53	5.70
		2	.41	2	.41	7	1.42	15	3.04	12	2.44	19	3.86	8	1.62	27	5.48
7	.47	2	.14	2	.13	12	.81	44	2.97	42	2.84	54	3.65	32	2.16	86	5.81
								1	3.23					1	3.23	1	3.23
1	1.08			1	1.07	1	1.08	5	5.38	3	3.22	4	4.30	4	4.30	8	8.60
1	1.72	1	1.72	1	1.72			5	8.61	1	1.72	1	1.72	5	8.61	6	10.33
3	1.72	3	1.72	3	1.72	1	.57	13	7.46	5	2.87	6	3.44	12	6.89	18	10.33
12	1.17	4	.39	2	.20	9	.88	64	6.26	26	2.55	35	3.43	55	5.38	90	8.81
28	.92	10	.33	20	.65	21	.68	168	5.48	76	2.48	97	3.16	147	4.80	244	7.96
15	.93	6	.37	7	.44	15	.93	88	5.47	39	2.43	54	3.36	73	4.54	127	7.90
37	.77	15	.31	31	.65	32	.66	242	5.02	113	2.34	145	3.00	210	4.36	355	7.36
						1	1.08	4	4.32	4	4.32	5	5.40	3	3.24	8	8.04
						5	1.80	14	5.04	6	2.16	11	3.96	9	3.24	20	7.20
1	.50			1	.50	6	3.02	7	3.52	8	4.02	5	4.02	5	2.52	13	6.54
1	.17	2	.33	1	.16	5	.84	20	3.35	14	2.35	19	3.19	15	2.51	34	5.70
2		2		3		2		15		6		8		13		21	
4		2		5		4		23		12		16		24		40	
4		2		6		2		26		14		16		24		40	
8		4		8		6		49		23		34		43		77	
23	.91	10	.40	10	.40	27	1.07	148	5.88	87	3.46	114	4.53	121	4.81	235	9.34
59	.79	19	.25	43	.57	69	.91	380	5.03	206	2.73	275	3.64	311	4.12	586	7.76
33	.86	16	.42	25	.65	39	1.01	222	5.77	131	3.41	170	4.42	183	4.76	353	9.18
82	.71	35	.30	73	.63	94	.81	554	4.80	319	2.77	413	3.38	460	3.99	873	9.57

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 63.—NUMBER AND PER CENT OF TUBERCULOUS AND OF NON TUBERCULOUS, BY SEX AND OCCUPATION GROUPS, FOR 3 CITIES

Sex, occupation group, and disease classification.	Number of decedents whose fatal illness lasted—										Average mos. of fatal illness.
	Less than 3 wks.	3 and under 8 wks.	2 and under 5 months.	5 and under 6 months.	7 and under 24 months.	2 and under 3 years.	3 and under 4 years.	4 and under 5 years.	5 and under 6 years.	6 years and over.	
MALES.											
Operatives:											
Tuberculous.....	4	1	15	17	39	19	9	1			13
Nontuberculous.....	97	14	31	11	18	6	6	1	1	1	5
Total, all causes.....	101	15	46	28	57	25	15	1	1	1	7
Nonoperatives:											
Tuberculous.....	3	3	23	38	89	62	16	11	7	13	19
Nontuberculous.....	942	213	283	101	197	114	55	24	38	56	7
Total, all causes.....	945	216	306	139	286	176	71	35	45	69	9
Both classes:											
Tuberculous.....	7	4	38	55	128	81	25	11	8	13	17
Nontuberculous.....	1,039	227	314	112	215	120	61	25	38	57	7
Total, all causes.....	1,046	231	352	167	343	201	86	36	46	70	9
FEMALES.											
Operatives:											
Tuberculous.....	2	1	14	26	62	23	13	2	2	7	16
Nontuberculous.....	65	21	38	21	25	12	1		2		5
Total, all causes.....	67	22	52	47	87	35	14	2	4	7	10
Nonoperatives:											
Tuberculous.....	1	2	13	30	63	34	26	4	6	18	22
Nontuberculous.....	777	195	280	132	227	134	63	40	37	97	10
Total, all causes.....	778	197	293	162	290	168	89	44	43	115	13
Both classes:											
Tuberculous.....	3	3	27	56	125	57	39	6	8	25	20
Nontuberculous.....	842	216	318	153	252	146	64	40	39	97	10
Total, all causes.....	845	219	345	209	377	203	103	46	47	122	11
BOTH SEXES.											
Operatives:											
Tuberculous.....	6	2	29	43	101	42	22	2	3	7	15
Nontuberculous.....	162	35	69	32	43	18	7	1	2	1	6
Total, all causes.....	168	37	98	75	144	60	29	3	5	8	9
Nonoperatives:											
Tuberculous.....	4	5	36	68	152	96	42	15	13	31	20
Nontuberculous.....	1,719	408	563	233	424	248	118	64	75	153	9
Total, all causes.....	1,723	413	599	301	576	344	160	79	88	184	11
Both classes:											
Tuberculous.....	10	7	65	111	253	138	64	17	16	38	18
Nontuberculous.....	1,881	443	632	265	467	266	125	65	77	154	8
Total, all causes.....	1,891	450	697	376	720	404	189	82	93	192	10

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TUBERCULOUS DECEDENTS WHOSE LAST ILLNESS WAS OF SPECIFIED (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Total reported.	Total not reported.	Grand total.	Per cent of decedents whose fatal illness lasted—									
			Less than 3 weeks.	3 and under 8 weeks.	2 and under 5 months.	5 and under 6 months.	7 and under 24 months.	2 and under 3 years.	3 and under 4 years.	4 and under 5 years.	5 and under 6 years.	6 years and over.
105	25	130	4	1	14	16	37	18	9		1	
185	108	293	52	7	17	6	10	3	3	1		1
290	133	423	35	5	16	10	20	9	5			
265	90	355	1	1	9	14	33	24	6	4	3	5
2,023	302	2,325	46	10	14	5	10	6	3	1	2	3
2,288	392	2,680	41	9	13	6	13	8	3	2	2	3
370	115	485	2	1	10	15	35	22	7	3	2	3
2,208	410	2,618	47	10	14	5	10	5	3	1	2	3
2,578	525	3,103	41	9	14	6	13	8	3	1	2	3
152	37	189	1	1	9	17	41	15	9	1	1	5
185	76	261	35	11	21	11	14	6	1		1	
337	113	450	20	7	15	14	26	10	4	1	1	2
197	82	279	1	1	7	15	32	17	13	2	3	9
1,982	624	2,606	39	9	14	7	12	7	3	2	2	5
2,179	706	2,885	36	9	14	7	13	8	4	2	2	5
349	119	468	1	1	8	16	36	16	11	2	2	7
2,167	700	2,867	43	10	14	7	11	6	3	1	1	4
2,516	819	3,335	33	9	14	8	15	8	4	2	2	5
257	62	319	2	1	11	17	39	16	9	1	1	3
370	184	554	44	9	19	9	12	5	2			
627	246	873	27	6	16	12	23	10	4		1	1
462	172	634	1	1	8	15	32	21	9	3	3	7
4,005	926	4,931	43	10	14	6	10	6	3	2	2	4
4,467	1,098	5,565	39	9	13	7	13	8	3	2	2	4
719	234	953	2	1	9	16	35	19	9	2	2	5
4,375	1,110	5,485	43	10	14	6	10	6	3	1	1	6
5,094	1,344	6,438	37	9	14	7	14	8	4	1	2	4

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 64.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS IN SPECIFIED PHYSICAL CONDITION PRIOR TO FATAL ILLNESS, BY SEX AND BY OCCUPATION GROUPS, FOR THREE CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Sex, occupation group, and disease classification.	Number of decedents who, prior to fatal illness, were—					Total reported.	Total not reported.	Grand total.	Per cent of decedents who, prior to fatal illness, were—				
	Affected by—								In good health.	Affected by—			
	In good health.	Earlier disease.	Accident.	Deformity.	Under development.					Earlier disease.	Accident.	Deformity.	Under development.
MALES.													
Operatives:													
Tuberculous.....	77	11	3	3	14	108	22	130	71	10	3	3	13
Nontuberculous .	198	23	11	.....	18	250	43	293	79	9	5	.....	7
Total, allcauses	275	34	14	3	32	358	65	423	77	9	4	1	9
Nonoperatives:													
Tuberculous.....	234	43	11	3	8	299	56	355	78	14	4	1	3
Nontuberculous .	1,010	109	60	3	3	1,185	1,140	2,325	86	9	5	.....	.....
Total, allcauses	1,244	152	71	6	11	1,484	1,196	2,680	84	10	5	.....	1
Both classes:													
Tuberculous.....	311	54	14	6	22	407	78	485	76	13	4	2	5
Nontuberculous .	1,208	132	71	3	21	1,435	1,183	2,618	84	9	5	.....	2
Total, allcauses	1,519	186	85	9	43	1,842	1,261	3,103	82	10	5	1	2
FEMALES.													
Operatives:													
Tuberculous.....	136	9	.....	2	14	161	28	189	84	6	.....	1	9
Nontuberculous .	195	18	4	1	7	225	36	261	87	8	2	.....	3
Total, allcauses	331	27	4	3	21	386	64	450	86	7	1	1	5
Nonoperatives:													
Tuberculous.....	204	27	2	4	6	243	36	279	84	11	1	2	2
Nontuberculous .	1,572	172	26	7	2	1,779	827	2,606	88	10	2	.....	.....
Total, allcauses	1,776	199	28	11	8	2,022	863	2,885	88	10	1	1	.....
Both classes:													
Tuberculous.....	340	36	2	6	20	404	64	468	84	9	1	1	5
Nontuberculous .	1,767	190	30	8	9	2,004	863	2,867	88	10	2	.....	.....
Total, allcauses	2,107	226	32	14	29	2,408	927	3,335	88	9	1	1	1
BOTH SEXES.													
Operatives:													
Tuberculous.....	213	20	3	5	28	269	50	319	79	8	1	2	10
Nontuberculous .	393	41	15	1	25	475	79	554	83	9	3	.....	5
Total, allcauses	606	61	18	6	53	744	129	873	82	8	2	1	7
Nonoperatives:													
Tuberculous.....	438	70	13	7	14	542	92	634	81	13	2	1	3
Nontuberculous .	2,582	281	86	10	5	2,964	1,967	4,931	87	10	3	.....	.....
Total, allcauses	3,020	351	99	17	19	3,506	2,059	5,565	86	10	3	.....	1
Both classes:													
Tuberculous.....	651	90	16	12	42	811	142	953	80	11	2	2	5
Nontuberculous .	2,975	322	101	11	30	3,439	2,046	5,485	87	9	3	.....	1
Total, allcauses	3,626	412	117	23	72	4,250	2,188	6,438	85	10	3	.....	2

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 65.—NUMBER OF MALE TUBERCULOUS AND NONTUBERCULOUS DECEDENTS REPORTED AS ADDICTED TO THE EXCESSIVE USE OF ALCOHOLIC BEVERAGES, BY RACE AND BY AGE AND OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

Age and occupation groups and disease classification.	American.	English.	Irish.	French Canadian.	Other races.	All races.
OPERATIVES.						
10 to 44 years:						
Tuberculous.....	2	4	5	2	2	15
Nontuberculous.....	1	1	5	7	1	15
Total, all causes.....	3	5	10	9	3	30
45 years and over:						
Tuberculous.....		1	2	3		6
Nontuberculous.....	1	12	7	2	1	23
Total, all causes.....	1	13	9	5	1	29
All ages:						
Tuberculous.....	2	5	7	5	2	21
Nontuberculous.....	2	13	12	9	2	38
Total, all causes.....	4	18	19	14	4	59
NONOPERATIVES.						
10 to 44 years: Tuberculous.....	1	1	15	1		18
45 years and over: Tuberculous.....		3	8	1	1	13
Total, all ages: Tuberculous.....	1	4	23	2	1	31
BOTH CLASSES.						
10 to 44 years: Tuberculous....	3	5	20	3	2	33
45 years and over: Tuberculous.....		4	10	4	1	19
Total, all ages: Tuberculous.....	3	9	30	7	3	52

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 66.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS OF EACH CONJUGAL CONDITION, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

MALES.

Occupation group, disease classification, and locality.	Number of decedents of each conjugal condition.			Per cent of decedents of each conjugal condition.		
	Single and unknown.	Married.	Widowed and divorced.	Single and unknown.	Married.	Widowed and divorced.
OPERATIVES.						
Tuberculous:						
Fall River.....	36	51	7	38	54	8
3 cities.....	50	66	14	38	51	11
Nontuberculous:						
Fall River.....	62	108	23	32	56	12
3 cities.....	90	169	34	31	58	11
All causes:						
Fall River.....	98	159	30	34	55	11
3 cities.....	140	235	48	33	56	11
NONOPERATIVES.						
Tuberculous:						
Fall River.....	62	76	14	41	50	9
3 cities.....	155	168	32	44	47	9
Nontuberculous: Fall River.....	164	565	216	17	60	23
All causes: Fall River.....	226	641	230	20	59	21
BOTH CLASSES.						
Tuberculous:						
Fall River.....	98	127	21	40	51	9
3 cities.....	205	234	46	42	48	10
Nontuberculous: Fall River.....	226	673	239	20	59	21
All causes: Fall River.....	324	800	260	23	58	19

FEMALES.

OPERATIVES.						
Tuberculous:						
Fall River.....	57	55	.....	51	49	.....
3 cities.....	97	86	6	51	46	3
Nontuberculous:						
Fall River.....	69	105	13	37	56	7
3 cities.....	115	123	23	44	47	9
All causes:						
Fall River.....	126	160	13	42	54	4
3 cities.....	212	209	29	47	47	6
NONOPERATIVES.						
Tuberculous:						
Fall River.....	42	55	11	39	51	10
3 cities.....	105	141	33	38	50	12
Nontuberculous: Fall River.....	156	517	490	13	45	42
All causes: Fall River.....	198	572	501	16	45	39
BOTH CLASSES.						
Tuberculous:						
Fall River.....	99	110	11	45	50	5
3 cities.....	202	227	39	43	49	8
Nontuberculous: Fall River.....	225	622	503	17	46	37
All causes: Fall River.....	324	732	514	21	46	33

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 66.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS OF EACH CONJUGAL CONDITION, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907—Concluded.

BOTH SEXES.

Occupation group, disease classification, and locality.	Number of decedents of each conjugal condition.			Per cent of decedents of each conjugal condition.		
	Single and un- known.	Married.	Widowed and divorced.	Single and un- known.	Married.	Widowed and divorced.
OPERATIVES.						
Tuberculous:						
Fall River.....	93	106	7	45	52	3
3 cities.....	147	152	20	46	48	6
Nontuberculous:						
Fall River.....	131	213	36	35	56	9
3 cities.....	205	292	57	37	53	10
All causes:						
Fall River.....	224	319	43	38	55	7
3 cities.....	352	444	77	40	51	9
NONOPERATIVES.						
Tuberculous:						
Fall River.....	104	131	25	40	50	10
3 cities.....	260	309	65	41	49	10
Nontuberculous: Fall River.....	320	1,082	706	15	51	34
All causes: Fall River.....	424	1,213	731	18	51	31
BOTH CLASSES.						
Tuberculous:						
Fall River.....	197	237	32	42	51	7
3 cities.....	407	461	85	43	48	9
Nontuberculous: Fall River.....	451	1,295	742	18	52	30
All causes: Fall River.....	648	1,532	774	22	52	26

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 67.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEASED, BY SEX AND BY OCCUPATION GROUPS, FOR 3 CITIES

Sex, occupation group, and disease classification.	Number of decedents who were married at the age of—							
	16 years.	17 years.	18 years.	19 and under 21 years.	21 years.	22 years.	23 and under 26 years.	26 years and over.
MALES.								
Operatives:								
Tuberculous.....			3	14	4	7	20	22
Nontuberculous.....	1	1	9	27	28	17	53	38
Total, all causes.....	1	1	12	41	32	24	73	60
Nonoperatives:								
Tuberculous.....		2	4	30	16	13	51	49
Nontuberculous.....	3	2	19	210	168	202	688	253
Total, all causes.....	3	4	23	240	184	215	739	302
Both classes:								
Tuberculous.....		2	7	44	20	20	71	71
Nontuberculous.....	4	3	28	237	196	219	741	291
Total, all causes.....	4	5	35	281	216	239	812	362
FEMALES.								
Operatives:								
Tuberculous.....	6	8	9	15	8	10	19	11
Nontuberculous.....	3	5	9	38	8	16	26	15
Total, all causes.....	9	13	18	53	16	26	45	26
Nonoperatives:								
Tuberculous.....	17	12	13	32	11	10	33	24
Nontuberculous.....	56	60	144	464	105	186	549	244
Total, all causes.....	73	72	157	496	116	196	582	268
Both classes:								
Tuberculous.....	23	20	22	47	19	20	52	35
Nontuberculous.....	59	65	153	502	113	202	575	259
Total, all causes.....	82	85	175	549	132	222	627	294
BOTH SEXES.								
Operatives:								
Tuberculous.....	6	8	12	29	12	17	39	33
Nontuberculous.....	4	6	18	65	36	33	79	53
Total, all causes.....	10	14	30	94	48	50	118	86
Nonoperatives:								
Tuberculous.....	17	14	17	62	27	23	84	73
Nontuberculous.....	59	62	163	674	273	388	1,237	497
Total, all causes.....	76	76	180	736	300	411	1,321	570
Both classes:								
Tuberculous.....	23	22	29	91	39	40	123	106
Nontuberculous.....	63	68	181	739	309	421	1,316	550
Total, all causes.....	86	90	210	830	348	461	1,439	656

• Less than one-half of 1 per cent.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DECEDENTS WHO WERE MARRIED AT EACH SPECIFIED (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Total reported.	Total not reported.	Grand total.	Per cent of decedents who were married at the age of—							
			16 years.	17 years.	18 years.	19 and under 21 years.	21 years.	22 years.	23 and under 26 years.	26 years and over.
70	10	80	.....	.....	4	20	6	10	29	31
174	29	203	1	1	5	15	16	10	30	22
244	39	283	(a)	(a)	5	17	13	10	30	25
165	35	200	.....	1	2	18	10	8	31	30
1,545	286	1,831	(a)	(a)	1	14	11	13	45	16
1,710	321	2,031	(a)	(a)	1	14	11	13	43	18
235	45	280	.....	1	3	18	9	9	30	30
1,719	315	2,034	(a)	(a)	2	14	11	13	43	17
1,954	360	2,314	(a)	(a)	2	14	11	12	42	19
86	6	92	7	9	11	17	9	12	22	13
120	26	146	3	4	7	32	7	13	22	12
206	32	238	4	6	9	25	8	13	22	13
152	22	174	11	8	8	21	7	7	22	16
1,808	379	2,187	3	3	8	26	6	10	30	14
1,960	401	2,361	4	4	8	25	6	10	30	13
238	28	266	10	8	9	20	8	8	22	15
1,928	405	2,333	3	3	8	26	6	11	30	13
2,166	433	2,599	4	4	8	25	6	10	29	14
156	16	172	4	5	8	18	8	11	25	21
294	55	349	2	2	6	22	12	11	27	18
450	71	521	2	3	7	21	11	11	26	19
317	57	374	5	4	5	20	9	7	27	23
3,353	665	4,018	2	2	5	20	8	11	37	15
3,670	722	4,392	2	2	5	20	8	11	36	16
473	73	546	5	5	6	19	8	9	26	22
3,647	720	4,367	2	2	5	20	8	12	36	15
4,120	793	4,913	2	2	5	20	9	11	35	16

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 68.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHOSE AGE AT MARRIAGE WAS REPORTED WHO WERE MARRIED AT OR BEFORE THE AGE OF 18 IN THE CASE OF FEMALES OR THE AGE OF 20 IN THE CASE OF MALES, BY RACE AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

NUMBER.

Sex, occupation group, and disease classification.	Decedents who were married at or before the age of 18 in the case of females or the age of 20 in the case of males.					Total.
	American.	English.	Irish.	French Canadian.	Other races.	
MALES.						
Operatives:						
Tuberculous.....	1	3	2	3	4	13
Nontuberculous.....		9	7	7	5	28
Total, all causes.....	1	12	9	10	9	41
Nonoperatives:						
Tuberculous.....		1	11	3	2	17
Nontuberculous.....	17	20	44	25	9	115
Total, all causes.....	17	21	55	28	11	132
Both classes:						
Tuberculous.....	1	4	13	6	6	30
Nontuberculous.....	17	29	51	32	14	143
Total, all causes.....	18	33	64	38	20	173
FEMALES.						
Operatives:						
Tuberculous.....	1	2	3	7	4	17
Nontuberculous.....		3	4	3	2	12
Total, all causes.....	1	5	7	10	6	29
Nonoperatives:						
Tuberculous.....	2	3	7	2	5	19
Nontuberculous.....	21	23	66	50	24	184
Total, all causes.....	23	26	73	52	29	203
Both classes:						
Tuberculous.....	3	5	10	9	9	36
Nontuberculous.....	21	26	70	53	26	196
Total, all causes.....	24	31	80	62	35	232
BOTH SEXES.						
Operatives:						
Tuberculous.....	2	5	5	10	8	30
Nontuberculous.....		12	11	10	7	40
Total, all causes.....	2	17	16	20	15	70
Nonoperatives:						
Tuberculous.....	2	4	18	5	7	36
Nontuberculous.....	38	43	110	75	33	299
Total, all causes.....	40	47	128	80	40	335
Both classes:						
Tuberculous.....	4	9	23	15	15	66
Nontuberculous.....	38	55	121	85	40	339
Total, all causes.....	42	64	144	100	55	405

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 68.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHOSE AGE AT MARRIAGE WAS REPORTED WHO WERE MARRIED AT OR BEFORE THE AGE OF 18 IN THE CASE OF FEMALES OR THE AGE OF 20 IN THE CASE OF MALES, BY RACE AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907—Concluded.

PER CENT.

Sex, occupation group, and disease classification.	Decedents who were married at or before the age of 18 in the case of females or the age of 20 in the case of males.					
	Ameri- can.	English.	Irish.	French Canadian.	Other races.	Total.
MALES.						
Operatives:						
Tuberculous.....	100	25	15	19	36	25
Nontuberculous.....		21	24	28	36	25
Total, all causes.....	20	22	21	24	36	25
Nonoperatives:						
Tuberculous.....		7	31	30	17	21
Nontuberculous.....	14	13	17	21	22	17
Total, all causes.....	13	12	19	22	21	17
Both classes:						
Tuberculous.....	9	15	27	23	26	22
Nontuberculous.....	14	15	18	22	25	18
Total, all causes.....	13	15	20	22	26	19
FEMALES.						
Operatives:						
Tuberculous.....	100	18	20	32	67	31
Nontuberculous.....		12	15	10	13	12
Total, all causes.....	20	14	17	19	29	18
Nonoperatives:						
Tuberculous.....	40	25	32	14	50	30
Nontuberculous.....	13	13	20	28	46	19
Total, all causes.....	14	14	21	27	47	21
Both classes:						
Tuberculous.....	50	22	27	25	56	31
Nontuberculous.....	13	13	20	26	39	20
Total, all causes.....	17	14	21	26	42	21
BOTH SEXES.						
Operatives:						
Tuberculous.....	100	22	18	26	47	28
Nontuberculous.....		18	20	18	24	19
Total, all causes.....	20	19	19	22	33	22
Nonoperatives:						
Tuberculous.....	13	15	31	19	32	25
Nontuberculous.....	14	13	19	25	35	19
Total, all causes.....	14	13	20	25	35	19
Both classes:						
Tuberculous.....	24	18	27	22	38	26
Nontuberculous.....	13	14	19	24	33	19
Total, all causes.....	14	14	20	24	34	20

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 69.—PER CENT OF TUBERCULOUS AND NONTUBERCULOUS MARRIED DECEDENTS WHO HAD HAD NO CHILDREN, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET).

MALES.

Occupation group, disease classification, and locality.	American.	English.	Irish.	French.	Other races.	All races.
OPERATIVES.						
Tuberculous:						
Fall River.....		17	21	11		12
3 cities.....		13	16	8	11	11
Nontuberculous: Fall River.....	17	19	7	22	13	16
All causes: Fall River.....	14	19	11	18	7	15
NONOPERATIVES.						
Tuberculous:						
Fall River.....	18		16			9
3 cities.....	18	4	19	5		12
Nontuberculous: Fall River.....	21	12	9	11	14	13
All causes: Fall River.....	21	11	10	10	11	12
BOTH CLASSES.						
Tuberculous:						
Fall River.....	17	8	17	6		10
3 cities.....	17	7	18	6	5	12
Nontuberculous: Fall River.....	21	14	9	13	14	13
All causes: Fall River.....	21	13	10	12	10	13

FEMALES.

OPERATIVES.						
Tuberculous:						
Fall River.....		9	13	23	50	20
3 cities.....		21	13	18	38	18
Nontuberculous: Fall River.....	40	16	9	13	13	14
All causes: Fall River.....	33	14	10	17	23	16
NONOPERATIVES.						
Tuberculous:						
Fall River.....		8	5	19		8
3 cities.....		17	6	16	5	11
Nontuberculous: Fall River.....	10	14	9	5	3	9
All causes: Fall River.....	10	14	9	6	3	9
BOTH CLASSES.						
Tuberculous:						
Fall River.....		9	8	21	18	13
3 cities.....		15	8	17	14	14
Nontuberculous: Fall River.....	11	14	9	6	5	10
All causes: Fall River.....	11	14	9	8	7	10

BOTH SEXES.

OPERATIVES.						
Tuberculous:						
Fall River.....		13	17	18	16	16
3 cities.....		17	14	15	19	15
Nontuberculous: Fall River.....	27	18	8	17	13	15
All causes: Fall River.....	23	17	11	17	14	15
NONOPERATIVES.						
Tuberculous:						
Fall River.....	13	4	12	10		8
3 cities.....	17	6	14	11	3	11
Nontuberculous: Fall River.....	15	13	9	7	8	11
All causes: Fall River.....	15	12	9	8	7	10
BOTH CLASSES.						
Tuberculous:						
Fall River.....	11	8	13	14	7	12
3 cities.....	16	10	14	12	9	13
Nontuberculous: Fall River.....	15	14	9	9	9	11
All causes: Fall River.....	15	13	10	10	9	11

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 70.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS FEMALE DECEDENTS WHO HAD BEEN MARRIED LESS THAN 4 YEARS, BY RACE AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

Occupation group and disease classification.	Number of female decedents who had been married less than 4 years.					
	American.	English.	Irish.	French Canadian.	Other races.	Total.
Operatives:						
Tuberculous.....		1	2	9	4	16
Nontuberculous.....	1	3	2	4	9	19
Total, all causes.....	1	4	4	13	13	35
Nonoperatives:						
Tuberculous.....		1	1			2
Nontuberculous.....	3		2	2	3	10
Total, all causes.....	3	1	3	2	3	12
Both classes:						
Tuberculous.....		2	3	9	4	18
Nontuberculous.....	4	3	4	6	12	29
Total, all causes.....	4	5	7	15	16	47

Occupation group and disease classification.	Per cent of female decedents who had been married less than 4 years of those reported as having been married less than 11 years.					
	American.	English.	Irish.	French Canadian.	Other races.	Total.
Operatives:						
Tuberculous.....		20	22	60	67	46
Nontuberculous.....	50	33	29	31	64	42
Total, all causes.....	50	29	25	46	65	44
Nonoperatives:						
Tuberculous.....		17	20			9
Nontuberculous.....	38		20	13	50	21
Total, all causes.....	33	7	20	8	33	17
Both classes:						
Tuberculous.....		18	21	39	44	31
Nontuberculous.....	40	18	24	21	60	31
Total, all causes.....	36	18	23	29	55	31

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 71.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS FEMALES DYING UNDER 11 YEARS AFTER MARRIAGE WHO DIED WITHIN EACH SPECIFIED PERIOD OF TIME, BY OCCUPATION GROUPS, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Occupation group and disease classification.	Number of females dying under 11 years after marriage who died in each specified period.						Total reported.	Total not reported.	Grand total.	Per cent of females dying under 11 years after marriage who died in each specified period.				
	Under 2 yrs.	2 and under 3 yrs.	3 and under 4 yrs.	4 and under 6 yrs.	6 and under 11 yrs.	Total under 11 yrs.				Under 2 yrs.	2 and under 3 yrs.	3 and under 4 yrs.	4 and under 6 yrs.	6 and under 11 yrs.
Operatives:														
Tuberculous.....	15	6	4	12	18	55	86	6	92	27	11	7	22	33
Nontuberculous....	11	6	6	10	18	51	120	26	146	21	12	12	20	35
Total, all causes..	26	12	10	22	36	106	206	32	238	25	11	9	21	34
-Nonoperatives:														
Tuberculous.....	4	1	5	10	31	51	152	22	174	8	2	10	19	61
Nontuberculous....	13	4	8	20	86	131	1,808	379	2,187	10	3	6	15	66
Total, all causes....	17	5	13	30	117	182	1,960	401	2,361	9	3	7	17	64
Both classes:														
Tuberculous.....	19	7	9	22	49	106	238	28	266	18	7	8	21	46
Nontuberculous....	24	10	14	30	104	182	1,928	405	2,333	13	6	8	16	57
Total, all causes..	43	17	23	52	153	288	2,166	433	2,599	15	6	8	18	53

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 72.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DEATHS OCCURRING DURING THE PERIODS OCTOBER TO MARCH AND APRIL TO SEPTEMBER, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR.

Sex, occupation group, locality, and period.	Number of deaths from—						Per cent of deaths from—					
	Tuberculosis.		Causes other than tuberculosis.		All causes.		Tuberculosis.		Causes other than tuberculosis.		All causes.	
	Oct. to Mar.	Apr. to Sept.	Oct. to Mar.	Apr. to Sept.	Oct. to Mar.	Apr. to Sept.	Oct. to Mar.	Apr. to Sept.	Oct. to Mar.	Apr. to Sept.	Oct. to Mar.	Apr. to Sept.
MALES.												
Operatives:												
Fall River, 3 years.....	49	45	97	96	146	141	52	48	50	50	51	49
3 cities, 1 year.....	30	23	61	60	91	83	57	43	50	50	52	48
Nonoperatives:												
Fall River, 3 years.....	72	80	497	448	569	528	47	53	53	47	52	48
3 cities, 1 year.....	71	56	424	399	495	455	56	44	52	48	52	48
Both classes:												
Fall River, 3 years.....	121	125	594	544	715	669	49	51	52	48	52	48
3 cities, 1 year.....	101	79	485	459	586	538	56	44	51	49	52	48
FEMALES.												
Operatives:												
Fall River, 3 years.....	61	51	100	87	161	138	54	46	53	47	54	46
3 cities, 1 year.....	42	36	55	46	97	82	54	46	54	46	54	46
Nonoperatives:												
Fall River, 3 years.....	63	45	653	510	716	555	58	42	56	44	56	44
3 cities, 1 year.....	57	45	557	388	614	433	56	44	59	41	59	41
Both classes:												
Fall River, 3 years.....	124	96	753	597	877	693	56	44	56	44	56	44
3 cities, 1 year.....	99	81	612	434	711	515	55	45	59	41	58	42
BOTH SEXES.												
Operatives:												
Fall River, 3 years.....	110	96	197	183	307	279	53	47	52	48	52	48
3 cities, 1 year.....	72	59	116	106	188	165	55	45	52	48	53	47
Nonoperatives:												
Fall River, 3 years.....	135	125	1,150	958	1,285	1,083	52	48	55	45	54	46
3 cities, 1 year.....	128	101	981	787	1,109	888	56	44	55	45	56	44
Both classes:												
Fall River, 3 years.....	245	221	1,347	1,141	1,592	1,362	53	47	54	46	54	46
3 cities, 1 year.....	200	160	1,097	893	1,297	1,053	56	44	55	45	55	45

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 73.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEASED IN EACH SPECIFIED NUMBER OF APARTMENTS, BY SEX AND BY 1905 TO 1907.

MALES.

Occupation group, disease classification, and locality.	Number of decedents who had lived in buildings containing the specified number of apartments.							
	1.	2.	3.	4.	5 and 6.	7 and under 13.	13 and under 16.	16 and over.
OPERATIVES.								
Tuberculous:								
Fall River.....	4	20	14	22	15	5	1	.....
Manchester.....	2	9	3	2	1	4	1	3
Pawtucket.....	1	4	.....	1	1	.....	.....	.....
Total, 3 cities.....	7	33	17	25	17	9	2	3
Nontuberculous:								
Fall River.....	15	41	40	41	24	14	1	.....
Manchester.....	10	20	11	12	2	3	1	4
Pawtucket.....	4	10	4	2	.....	.....	.....	1
Total, 3 cities.....	29	71	55	55	26	17	2	5
All causes:								
Fall River.....	19	61	54	63	39	19	2	.....
Manchester.....	12	29	14	14	3	7	2	7
Pawtucket.....	5	14	4	3	1	.....	.....	1
Total, 3 cities.....	36	104	72	80	43	26	4	8
NONOPERATIVES.								
Tuberculous:								
Fall River.....	15	37	25	36	16	7	.....	.....
Manchester.....	12	31	20	9	6	11	7	5
Pawtucket.....	21	39	12	9	6	1	.....	.....
Total, 3 cities.....	48	107	57	54	28	19	7	5
Nontuberculous:								
Fall River.....	175	249	151	169	112	34	2	3
Manchester.....	197	145	59	61	13	19	.....	18
Pawtucket.....	196	233	40	30	.....	.....	.....	7
Total, 3 cities.....	568	627	250	260	125	53	2	28
All causes:								
Fall River.....	190	286	176	205	128	41	2	3
Manchester.....	209	176	79	70	19	30	7	23
Pawtucket.....	217	272	52	39	6	1	.....	7
Total, 3 cities.....	616	734	307	314	153	72	9	33
BOTH CLASSES.								
Tuberculous:								
Fall River.....	19	57	39	58	31	12	1	.....
Manchester.....	14	40	23	11	7	15	8	8
Pawtucket.....	22	43	12	10	7	1	.....	.....
Total, 3 cities.....	55	140	74	79	45	28	9	8
Nontuberculous:								
Fall River.....	190	290	191	210	136	48	3	3
Manchester.....	207	165	70	73	15	22	1	22
Pawtucket.....	200	243	44	32	.....	.....	.....	8
Total, 3 cities.....	597	698	305	315	151	70	4	33
All causes:								
Fall River.....	209	347	230	268	167	60	4	3
Manchester.....	221	205	93	84	22	37	9	30
Pawtucket.....	222	286	56	42	7	1	.....	8
Total, 3 cities.....	652	838	379	394	196	98	13	41

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DECEDENTS WHO HAD LIVED IN BUILDINGS CONTAINING OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET,

MALES.

Total reported.	Total not reported.	Grand total.	Per cent of decedents who had lived in buildings containing the specified number of apartments.								
			1.	2.	3.	4.	5 and 6.	7 and under 13.	13 and under 16.	16 and over.	
81	13	94	5	25	17	27	19	6	1	.....
25	4	29	8	36	12	8	4	16	4	12	
7	.....	7	14	58	.....	14	14	.....	.....	.....
113	17	130	6	29	15	22	15	8	2	3	
176	17	193	8	23	23	23	14	8	1	.....
63	9	72	16	32	17	19	3	5	2	6	
21	7	28	19	48	19	9	.....	.....	.....	5
260	33	293	11	28	21	21	10	6	1	2	
257	30	287	7	24	21	25	15	7	1	.....
88	13	101	14	33	16	16	3	8	2	8	
28	7	35	18	50	14	10	4	.....	.....	4
373	50	423	10	28	19	21	12	7	1	2	
136	16	152	11	27	18	27	12	5	.....	.....
101	12	113	12	30	20	9	6	11	7	5	
88	2	90	24	44	14	10	7	1	.....	.....
325	30	355	15	33	17	17	9	6	2	1	
895	50	945	20	28	17	19	12	4	.....	.....
512	196	708	38	28	11	12	3	4	.....	4
506	166	672	39	46	8	6	.....	.....	.....	1
1,913	412	2,325	30	33	13	14	6	3	.....	1
1,031	66	1,097	19	28	17	20	12	4	.....	.....
613	208	821	34	29	13	11	3	5	1	4	
594	168	762	36	46	9	7	1	.....	.....	1
2,238	442	2,680	28	33	14	14	7	3	.....	1
217	29	246	9	26	18	27	14	6	.....	.....
126	16	142	11	32	18	9	6	12	6	6	
95	2	97	23	45	13	11	7	1	.....	.....
438	47	485	13	32	17	18	10	6	2	2	
1,071	67	1,138	18	27	18	20	13	4	.....	.....
575	205	780	36	29	12	13	2	4	.....	4
527	173	700	38	46	8	6	.....	.....	.....	2
2,173	445	2,618	27	32	14	15	7	3	.....	2
1,288	96	1,384	16	27	18	21	13	5	.....	.....
701	221	922	32	30	13	12	3	5	1	4	
622	175	797	36	46	9	7	1	.....	.....	1
2,611	492	3,103	25	32	15	15	7	4	.....	2

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 73.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEASED IN EACH SPECIFIED NUMBER OF APARTMENTS, BY SEX AND BY YEAR, 1905 TO 1907—Continued.

FEMALES.

Occupation group, disease classification, and locality.	Number of decedents who had lived in buildings containing the specified number of apartments.							
	1	2.	3.	4.	5 and 6.	7 and under 13.	13 and under 16.	16 and over.
OPERATIVES.								
Tuberculous:								
Fall River.....	4	22	17	25	30	7	3	1
Manchester.....	7	11	1	7	1	3	3	4
Pawtucket.....	7	25	.....	4	1	.....	.....	.....
Total, 3 cities.....	18	58	18	36	32	10	6	5
Nontuberculous:								
Fall River.....	6	39	33	46	39	18	.....	.....
Manchester.....	5	13	7	5	6	2	3	.....
Pawtucket.....	5	7	1	7	1	1	.....	.....
Total, 3 cities.....	16	59	41	58	46	21	3	.....
All causes:								
Fall River.....	10	61	50	71	69	25	3	1
Manchester.....	12	24	8	12	7	5	6	4
Pawtucket.....	12	32	1	11	2	1	.....	.....
Total, 3 cities.....	34	117	59	94	78	31	9	5
NONOPERATIVES.								
Tuberculous:								
Fall River.....	14	26	20	21	18	5	1	1
Manchester.....	11	28	19	8	10	7	3	2
Pawtucket.....	16	33	8	4	3	.....	.....	1
Total, 3 cities.....	41	87	47	33	31	12	4	4
Nontuberculous:								
Fall River.....	159	285	231	201	141	42	1	3
Manchester.....	225	187	59	34	43	28	3	16
Pawtucket.....	208	187	54	12	.....	.....	.....	1
Total, 3 cities.....	592	659	344	247	184	70	4	20
All causes:								
Fall River.....	173	311	251	222	159	47	2	4
Manchester.....	236	215	78	42	53	35	6	18
Pawtucket.....	224	220	62	16	3	.....	.....	2
Total, 3 cities.....	633	746	391	280	215	82	8	24
BOTH CLASSES.								
Tuberculous:								
Fall River.....	18	48	37	46	48	12	4	2
Manchester.....	18	39	20	15	11	10	6	6
Pawtucket.....	23	58	8	8	4	.....	.....	1
Total, 3 cities.....	59	145	65	69	63	22	10	9
Nontuberculous:								
Fall River.....	165	324	264	247	180	60	1	3
Manchester.....	230	200	66	39	49	30	6	16
Pawtucket.....	213	194	55	19	1	1	.....	1
Total, 3 cities.....	608	718	385	305	230	91	7	20
All causes:								
Fall River.....	183	372	301	293	228	72	5	5
Manchester.....	248	239	86	54	60	40	12	22
Pawtucket.....	236	252	63	27	5	1	.....	2
Total, 3 cities.....	667	863	450	374	293	113	17	29

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DECEDENTS WHO HAD LIVED IN BUILDINGS CONTAINING OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET,

FEMALES.

Total reported.	Total not reported.	Grand total.	Per cent of decedents who had lived in buildings containing the specified number of apartments.								
			1.	2.	3.	4.	5 and 6.	7 and under 13.	13 and under 16.	16 and over.	
109	3	112	4	20	16	23	27	6	3	1	
37	3	40	19	30	3	19	3	8	8	10	
37	.....	37	19	07	.....	11	3	.....	.....	.....
183	6	189	10	32	10	20	17	5	3	3	
181	6	187	3	22	18	25	22	10	.....	.....
41	8	49	12	32	17	12	15	5	7	.....
22	3	25	23	31	5	31	5	5	.....	.....
244	17	261	6	24	17	24	19	9	1	.....
290	9	299	3	21	17	25	24	9	1	.....
78	11	89	15	31	10	15	9	7	8	5	
59	3	62	20	54	2	19	3	2	.....	.....
427	23	450	8	28	14	22	18	7	2	1	
106	2	108	13	24	19	20	17	5	1	1	
88	14	102	13	32	22	9	11	8	3	2	
65	4	69	25	51	12	6	5	.....	.....	1
259	20	279	16	34	18	13	12	5	1	1	
1,063	100	1,163	15	27	22	19	13	4	.....	.....
595	154	749	38	31	10	6	7	5	.....	3
462	232	694	45	40	12	3	.....	.....	.....	.....
2,120	486	2,606	28	31	16	12	9	3	.....	1
1,169	102	1,271	15	27	21	19	14	4	.....	.....
683	168	851	35	31	11	6	8	5	1	3	
527	236	763	42	42	12	3	1	.....	.....	.....
2,379	506	2,885	27	31	16	12	9	4	.....	1
215	5	220	8	22	17	22	22	6	2	1	
125	17	142	14	31	16	12	9	8	5	5	
102	4	106	22	57	8	8	4	.....	.....	1
442	26	468	13	33	15	16	14	5	2	2	
1,244	106	1,350	13	26	21	20	15	5	.....	.....
636	162	798	36	31	10	6	8	5	1	3	
484	235	719	44	40	12	4	.....	.....	.....	.....
2,364	503	2,867	26	30	16	13	10	4	.....	1
1,459	111	1,570	13	25	21	20	16	5	.....	.....
761	179	940	33	31	11	7	8	5	2	3	
586	239	825	40	43	11	5	1	.....	.....	.....
2,806	529	3,335	24	31	16	13	10	4	1	1	

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 73.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS EACH SPECIFIED NUMBER OF APARTMENTS, BY SEX AND BY 1905 TO 1907—Concluded.

BOTH SEXES.

Occupation group, disease classification, and locality.	Number of decedents who had lived in buildings containing the specified number of apartments.							
	1.	2.	3.	4.	5 and 6.	7 and under 13.	13 and under 16.	16 and over.
OPERATIVES.								
Tuberculous:								
Fall River.....	8	42	31	47	45	12	4	1
Manchester.....	9	20	4	9	2	7	4	7
Pawtucket.....	8	29	.....	5	2	.....	.....	.....
Total, 3 cities.....	25	91	35	61	49	19	8	8
Nontuberculous:								
Fall River.....	21	80	73	87	63	32	1	.....
Manchester.....	15	33	18	17	8	5	4	4
Pawtucket.....	9	17	5	9	1	1	.....	1
Total, 3 cities.....	45	130	96	113	72	38	5	5
All causes:								
Fall River.....	29	122	104	134	108	44	5	1
Manchester.....	24	53	22	26	10	12	8	11
Pawtucket.....	17	46	5	14	3	1	.....	1
Total, 3 cities.....	70	221	131	174	121	57	13	13
NONOPERATIVES.								
Tuberculous:								
Fall River.....	29	63	45	57	34	12	1	1
Manchester.....	23	59	39	17	16	18	10	7
Pawtucket.....	37	72	20	13	9	1	.....	1
Total, 3 cities.....	89	194	104	87	59	31	11	9
Nontuberculous:								
Fall River.....	334	534	382	370	253	76	3	6
Manchester.....	422	332	118	95	56	47	3	34
Pawtucket.....	404	420	94	42	.....	.....	.....	8
Total, 3 cities.....	1,160	1,286	594	507	309	123	6	48
All causes:								
Fall River.....	363	597	427	427	287	88	4	7
Manchester.....	445	391	157	112	72	65	13	41
Pawtucket.....	441	492	114	55	9	1	.....	9
Total, 3 cities.....	1,249	1,480	698	594	368	154	17	57
BOTH CLASSES.								
Tuberculous:								
Fall River.....	37	105	76	104	79	24	5	2
Manchester.....	32	79	43	26	18	25	14	14
Pawtucket.....	45	101	20	18	11	1	.....	1
Total, 3 cities.....	114	285	139	148	108	50	19	17
Nontuberculous:								
Fall River.....	355	614	455	457	316	108	4	6
Manchester.....	437	365	136	112	64	52	7	38
Pawtucket.....	413	437	99	51	1	1	.....	9
Total, 3 cities.....	1,205	1,416	690	620	381	161	11	53
All causes:								
Fall River.....	392	719	531	561	395	132	9	8
Manchester.....	469	444	179	138	82	77	21	52
Pawtucket.....	458	538	119	69	12	2	.....	10
Total, 3 cities.....	1,319	1,701	829	768	489	211	30	70

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DEGEDENTS WHO HAD LIVED IN BUILDINGS CONTAINING OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET,

BOTH SEXES.

Total reported.	Total not reported.	Grand total.	Per cent of decedents who had lived in buildings containing the specified number of apartments.								
			1.	2.	3.	4.	5 and 6.	7 and under 13.	13 and under 16.	16 and over.	
190	16	206	4	22	16	25	24	6	2	1	
62	7	69	15	32	7	15	3	11	6	11	
44	.....	44	18	66	.....	11	5	.....	.....	.....
296	23	319	8	31	12	21	16	6	3	3	
357	23	380	6	22	21	24	18	9	.....	.....
104	17	121	14	32	17	16	8	5	4	4	
43	10	53	21	40	12	21	2	2	.....	2
504	50	554	9	26	19	22	14	8	1	1	
547	39	586	5	22	19	25	20	8	1	.....
166	24	190	14	32	13	16	6	7	5	7	
87	10	97	20	53	6	16	3	1	.....	1
800	73	873	9	27	16	22	15	7	2	2	
242	18	260	12	26	19	24	14	5	.....	.....
189	26	215	12	31	21	9	8	10	5	4	
153	6	159	24	47	13	8	6	1	.....	1
584	50	634	15	33	18	15	10	5	2	2	
1,958	150	2,108	17	27	20	19	13	4	.....	1
1,107	350	1,457	38	30	11	9	5	4	.....	3
968	398	1,366	42	43	10	4	.....	.....	.....	1
4,033	898	4,931	29	32	15	12	8	3	.....	1
2,200	168	2,368	17	27	19	19	13	4	.....	1
1,296	376	1,672	34	30	12	9	6	5	1	3	
1,121	404	1,525	39	44	10	5	1	.....	.....	1
4,617	948	5,565	27	32	15	13	8	3	1	1	
432	34	466	9	24	18	24	18	6	1	.....
251	33	284	13	31	17	10	7	10	6	6	
197	6	203	23	51	10	9	5	1	.....	1
880	73	953	13	32	16	17	12	6	2	2	
2,315	173	2,488	15	26	20	20	14	5	.....	.....
1,211	367	1,578	36	30	11	9	5	5	1	3	
1,011	408	1,419	41	43	10	5	.....	.....	.....	1
4,537	948	5,485	27	31	15	14	8	4	.....	1
2,747	207	2,954	14	26	19	21	15	5	.....	.....
1,462	400	1,862	32	30	12	10	6	5	1	4	
1,208	414	1,622	38	44	10	6	1	.....	.....	1
5,417	1,021	6,438	24	32	15	14	9	4	1	1	

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 74.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS REPORTED WHO HAD LIVED IN BUILDINGS CONTAINING 4 OR MORE APARTMENTS, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

Sex, occupation group, and disease classification.	Decedents who had lived in buildings containing 4 or more apartments.					
	American.	English.	Irish.	French Canadian.	Other races.	All races.
MALES.						
Operatives:						
Tuberculous.....	2	8	9	14	10	43
Nontuberculous.....	5	18	20	25	12	80
Total, all causes.....	7	26	29	39	22	123
Nonoperatives:						
Tuberculous.....	6	5	27	11	10	59
Nontuberculous.....	19	47	121	92	41	320
Total, all causes.....	25	52	148	103	51	379
Both classes:						
Tuberculous.....	8	13	36	25	20	102
Nontuberculous.....	24	65	141	117	53	400
Total, all causes.....	32	78	177	142	73	502
FEMALES.						
Operatives:						
Tuberculous.....	2	6	22	27	9	66
Nontuberculous.....	8	18	32	31	14	103
Total, all causes.....	10	24	54	58	23	169
Nonoperatives:						
Tuberculous.....	3	8	11	14	10	46
Nontuberculous.....	29	49	164	94	52	388
Total, all causes.....	32	57	175	108	62	434
Both classes:						
Tuberculous.....	5	14	33	41	19	112
Nontuberculous.....	37	67	196	125	66	491
Total, all causes.....	42	81	229	166	85	603
BOTH SEXES.						
Operatives:						
Tuberculous.....	4	14	31	41	19	109
Nontuberculous.....	13	36	52	56	26	183
Total, all causes.....	17	50	83	97	45	292
Nonoperatives:						
Tuberculous.....	9	13	38	25	20	105
Nontuberculous.....	48	96	285	186	93	708
Total, all causes.....	57	109	323	211	113	813
Both classes:						
Tuberculous.....	13	27	69	66	39	214
Nontuberculous.....	61	132	337	242	119	891
Total, all causes.....	74	159	406	308	158	1,105

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 74.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS REPORTED WHO HAD LIVED IN BUILDINGS CONTAINING 4 OR MORE APARTMENTS, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907—Concluded.

PER CENT.

Sex, occupation group, and disease classification.	Decedents who had lived in buildings containing 4 or more apartments.					
	American.	English.	Irish.	French Canadian.	Other races.	All races.
MALES.						
Operatives:						
Tuberculous.....	33	47	45	64	63	53
Nontuberculous.....	56	30	45	56	67	45
Total, all causes.....	47	34	45	58	65	48
Nonoperatives:						
Tuberculous.....	38	24	42	55	71	43
Nontuberculous.....	13	24	40	53	58	36
Total, all causes.....	15	24	40	53	60	37
Both classes:						
Tuberculous.....	36	34	42	60	67	47
Nontuberculous.....	15	25	40	53	60	37
Total, all causes.....	18	26	41	54	61	39
FEMALES.						
Operatives:						
Tuberculous.....	40	38	58	73	69	61
Nontuberculous.....	67	45	56	57	78	57
Total, all causes.....	59	43	57	64	74	58
Nonoperatives:						
Tuberculous.....	20	42	35	58	59	43
Nontuberculous.....	14	23	43	48	72	37
Total, all causes.....	15	25	43	49	70	37
Both classes:						
Tuberculous.....	25	40	48	67	63	52
Nontuberculous.....	17	27	45	50	73	39
Total, all causes.....	18	29	45	53	71	41
BOTH SEXES..						
Operatives:						
Tuberculous.....	36	42	53	69	66	57
Nontuberculous.....	62	36	51	57	72	51
Total, all causes.....	53	38	52	61	69	53
Nonoperatives:						
Tuberculous.....	29	33	40	57	65	43
Nontuberculous.....	14	24	42	50	65	36
Total, all causes.....	15	24	41	51	65	37
Both classes:						
Tuberculous.....	31	37	44	64	65	50
Nontuberculous.....	16	26	43	51	66	38
Total, all causes.....	18	27	43	54	66	40

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 75.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHO HAD LIVED IN APARTMENTS OF EACH SPECIFIED NUMBER OF ROOMS, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1905 TO 1907.

MALES.

Occupation group, disease classification, and locality.	Number of decedents who had lived in apartments of—				Total report- ed.	Total not report- ed.	Grand total.	Per cent of decedents who had lived in apartments of—			
	Less than 4 rooms.	4 rooms.	5 rooms.	6 rooms and over.				Less than 4 rooms.	4 rooms.	5 rooms.	6 rooms and over.
OPERATIVES.											
Tuberculous:											
Fall River.....	22	30	25	17	94	.....	94	23	32	27	18
Manchester.....	1	9	1	18	29	.....	29	3	31	3	63
Pawtucket.....	1	1	2	3	7	.....	7	14	14	29	43
Total, 3 cities....	24	40	28	38	130	.....	130	18	31	22	29
Nontuberculous:											
Fall River.....	52	39	41	56	188	5	193	27	21	22	30
Manchester.....	5	10	13	35	63	9	72	8	16	21	55
Pawtucket.....	3	3	2	15	23	5	28	13	13	9	65
Total, 3 cities....	60	52	56	106	274	19	293	22	19	20	39
All causes:											
Fall River.....	74	69	66	73	282	5	287	26	25	23	36
Manchester.....	6	19	14	53	92	9	101	6	21	15	58
Pawtucket.....	4	4	4	18	30	5	35	14	13	13	60
Total, 3 cities....	84	92	84	144	404	19	423	21	23	21	35
NONOPERATIVES.											
Tuberculous:											
Fall River.....	39	23	39	49	150	2	152	26	15	26	33
Manchester.....	9	12	28	54	103	10	113	9	12	27	52
Pawtucket.....	9	10	23	44	86	4	90	10	12	27	51
Total, 3 cities....	57	45	90	147	339	16	355	17	13	27	43
Nontuberculous:											
Fall River.....	125	183	199	394	901	44	945	14	20	22	44
Manchester.....	59	45	99	373	576	132	708	10	8	17	65
Pawtucket.....	38	56	85	354	533	139	672	7	11	16	66
Total, 3 cities....	222	284	383	1,121	2,010	315	2,325	11	14	19	56
All causes:											
Fall River.....	164	206	238	443	1,051	46	1,097	16	19	23	42
Manchester.....	68	57	127	427	679	142	821	10	8	19	63
Pawtucket.....	47	66	108	398	619	143	762	8	11	17	64
Total, 3 cities....	279	329	473	1,268	2,349	331	2,680	12	14	20	54
BOTH CLASSES.											
Tuberculous:											
Fall River.....	61	53	64	66	244	2	246	25	22	26	27
Manchester.....	10	21	29	72	132	10	142	8	16	22	54
Pawtucket.....	10	11	25	47	93	4	97	11	12	27	50
Total, 3 cities....	81	85	118	185	469	16	485	17	18	25	40
Nontuberculous:											
Fall River.....	177	222	240	450	1,089	49	1,138	16	21	22	41
Manchester.....	64	55	112	408	639	141	780	10	9	17	64
Pawtucket.....	41	59	87	369	556	144	700	7	11	16	66
Total, 3 cities....	282	336	439	1,227	2,284	334	2,618	12	15	19	54
All causes:											
Fall River.....	238	275	304	516	1,333	51	1,384	18	20	23	39
Manchester.....	74	76	141	480	771	151	922	10	10	18	62
Pawtucket.....	51	70	112	416	649	148	797	8	11	17	64
Total, 3 cities....	363	421	557	1,412	2,753	350	3,103	13	16	20	51

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 75.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHO HAD LIVED IN APARTMENTS OF EACH SPECIFIED NUMBER OF ROOMS, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1905 TO 1907—Continued.

FEMALES.

Occupation group, disease classification, and locality.	Number of decedents who had lived in apartments of—				Total report- ed.	Total not report- ed.	Grand total.	Per cent of decedents who had lived in apartments of—			
	Less than 4 rooms.	4 rooms.	5 rooms.	6 rooms and over.				Less than 4 rooms.	4 rooms.	5 rooms.	6 rooms and over.
OPERATIVES.											
Tuberculous:											
Fall River.....	35	30	24	22	111	1	112	31	27	22	20
Manchester.....	4	3	10	20	37	3	40	11	8	27	54
Pawtucket.....	2	9	10	16	37	.....	37	6	24	27	43
Total, 3 cities....	41	42	44	58	185	4	189	22	23	24	31
Nontuberculous:											
Fall River.....	54	42	49	38	183	4	187	29	23	27	21
Manchester.....	2	11	9	20	42	7	49	5	26	21	48
Pawtucket.....	5	8	5	6	24	1	25	21	33	21	25
Total, 3 cities....	61	61	63	64	249	12	261	24	24	26	26
All causes:											
Fall River.....	89	72	73	60	294	5	299	30	25	25	20
Manchester.....	6	14	19	40	79	10	89	7	18	24	51
Pawtucket.....	7	17	15	22	61	1	62	11	28	25	36
Total, 3 cities....	102	103	107	122	434	16	450	23	24	25	28
NONOPERATIVES.											
Tuberculous:											
Fall River.....	24	23	25	33	105	3	108	23	22	24	31
Manchester.....	5	10	25	48	88	14	102	6	11	28	55
Pawtucket.....	5	13	13	35	66	3	69	7	20	20	53
Total, 3 cities....	34	46	63	116	259	20	279	13	18	24	45
Nontuberculous:											
Fall River.....	143	191	274	499	1,107	56	1,163	13	17	25	45
Manchester.....	32	65	142	391	630	119	749	5	10	23	62
Pawtucket.....	39	80	124	323	571	123	694	7	14	22	57
Total, 3 cities....	214	336	540	1,218	2,308	298	2,606	9	15	23	53
All causes:											
Fall River.....	167	214	299	532	1,212	59	1,271	14	17	25	44
Manchester.....	37	75	167	439	718	133	851	5	11	23	61
Pawtucket.....	44	93	137	363	637	126	763	7	15	21	57
Total, 3 cities....	248	382	603	1,334	2,567	318	2,885	10	15	23	52
BOTH CLASSES.											
Tuberculous:											
Fall River.....	59	53	49	55	216	4	220	27	25	23	25
Manchester.....	9	13	35	68	125	17	142	7	10	28	55
Pawtucket.....	7	22	23	51	103	3	106	7	21	22	50
Total, 3 cities....	75	88	107	174	444	24	468	17	20	24	39
Nontuberculous:											
Fall River.....	197	233	323	537	1,290	60	1,350	15	18	25	42
Manchester.....	34	76	151	411	672	126	798	5	11	23	61
Pawtucket.....	44	88	129	334	595	124	719	7	15	22	56
Total, 3 cities....	275	397	603	1,282	2,557	310	2,867	11	15	24	50
All causes:											
Fall River.....	256	286	372	592	1,506	64	1,570	17	19	25	39
Manchester.....	43	89	186	479	797	143	940	6	11	23	60
Pawtucket.....	51	110	152	385	698	127	825	7	16	22	55
Total, 3 cities....	350	485	710	1,456	3,001	334	3,335	12	16	24	48

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 75.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHO HAD LIVED IN APARTMENTS OF EACH SPECIFIED NUMBER OF ROOMS, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1905 TO 1907—Concluded.

BOTH SEXES.

Occupation group, disease classification, and locality.	Number of decedents who had lived in apartments of—				Total report- ed.	Total not report- ed.	Grand total.	Per cent of decedents who had lived in apartments of—			
	Less than 4 rooms.	4 rooms.	5 rooms.	6 rooms and over.				Less than 4 rooms.	4 rooms.	5 rooms.	6 rooms and over.
OPERATIVES.											
Tuberculous:											
Fall River	57	60	49	39	205	1	206	28	29	24	19
Manchester	5	12	11	38	66	3	69	7	18	17	58
Pawtucket	3	10	12	19	44	.....	44	7	23	27	43
Total, 3 cities....	65	82	72	96	315	4	319	21	26	23	30
Nontuberculous:											
Fall River	106	81	90	94	371	9	380	29	22	24	25
Manchester	7	21	22	55	105	16	121	7	20	21	52
Pawtucket	8	11	7	21	47	6	53	17	23	15	45
Total, 3 cities....	121	113	119	170	523	31	554	23	22	23	32
All causes:											
Fall River	163	141	139	133	576	10	586	28	25	24	23
Manchester	12	33	33	93	171	19	190	7	19	19	55
Pawtucket	11	21	19	40	91	6	97	12	23	21	44
Total, 3 cities....	186	195	191	266	838	35	873	22	23	23	32
NONOPERATIVES.											
Tuberculous:											
Fall River	63	46	64	82	255	5	260	25	18	25	32
Manchester	14	22	53	102	191	24	215	7	12	28	53
Pawtucket	14	23	36	79	152	7	159	9	15	24	52
Total, 3 cities....	91	91	153	263	598	36	634	15	15	26	44
Nontuberculous:											
Fall River	268	374	473	893	2,008	100	2,108	13	19	24	44
Manchester	91	110	241	764	1,206	251	1,457	8	9	20	63
Pawtucket	77	136	209	682	1,104	262	1,366	7	12	19	62
Total, 3 cities....	436	620	923	2,339	4,318	613	4,931	10	14	22	54
All causes:											
Fall River	331	420	537	975	2,263	105	2,368	15	18	24	43
Manchester	105	132	294	866	1,397	275	1,672	8	9	21	62
Pawtucket	91	159	245	761	1,256	269	1,525	7	13	19	61
Total, 3 cities....	527	711	1,076	2,602	4,916	649	5,565	11	14	22	53
BOTH CLASSES.											
Tuberculous:											
Fall River	120	106	113	121	460	6	466	26	23	25	26
Manchester	19	34	64	140	257	27	284	7	13	25	55
Pawtucket	17	33	48	98	196	7	203	9	17	24	50
Total, 3 cities....	156	173	225	359	913	40	953	17	19	25	39
Nontuberculous:											
Fall River	374	455	563	987	2,379	109	2,488	16	19	24	41
Manchester	98	131	263	819	1,311	267	1,578	8	10	20	62
Pawtucket	85	147	216	703	1,151	268	1,419	7	13	19	61
Total, 3 cities....	557	733	1,042	2,509	4,841	644	5,485	11	15	22	52
All causes:											
Fall River	494	561	676	1,108	2,839	115	2,954	17	20	24	39
Manchester	117	165	327	959	1,568	294	1,862	7	11	21	61
Pawtucket	102	180	264	801	1,347	275	1,622	8	13	20	59
Total, 3 cities....	713	906	1,267	2,868	5,754	684	6,438	12	16	22	50

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 76.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS REPORTED WHO HAD LIVED IN APARTMENTS OF LESS THAN 5 ROOMS, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

NUMBER.

Sex, occupation group, and disease classification.	Decedents who had lived in apartments consisting of less than 5 rooms.					
	American.	English.	Irish.	French Canadian.	Other races.	Total.
MALES.						
Operatives:						
Tuberculous.....	3	12	11	13	13	52
Nontuberculous.....	5	30	22	18	16	91
Total, all causes.....	8	42	33	31	29	143
Nonoperatives:						
Tuberculous.....	2	8	31	8	13	62
Nontuberculous.....	26	74	107	58	43	308
Total, all causes.....	28	82	138	66	56	370
Both classes:						
Tuberculous.....	5	20	42	21	26	114
Nontuberculous.....	31	104	129	76	59	399
Total, all causes.....	36	124	171	97	85	513
FEMALES.						
Operatives:						
Tuberculous.....	3	13	23	17	9	65
Nontuberculous.....	9	17	36	20	14	96
Total, all causes.....	12	30	59	37	23	161
Nonoperatives:						
Tuberculous.....	3	9	17	8	10	47
Nontuberculous.....	27	67	137	61	42	334
Total, all causes.....	30	76	154	69	52	381
Both classes:						
Tuberculous.....	6	22	40	25	19	112
Nontuberculous.....	36	84	173	81	56	430
Total, all causes.....	42	106	213	106	75	542
BOTH SEXES.						
Operatives:						
Tuberculous.....	6	25	34	30	22	117
Nontuberculous.....	14	47	58	38	30	187
Total, all causes.....	20	72	92	68	52	304
Nonoperatives:						
Tuberculous.....	5	17	48	16	23	109
Nontuberculous.....	53	141	244	119	85	642
Total, all causes.....	58	158	292	135	108	751
Both classes:						
Tuberculous.....	11	42	82	46	45	226
Nontuberculous.....	67	188	302	157	115	829
Total, all causes.....	78	230	384	203	160	1,055

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 76.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS REPORTED WHO HAD LIVED IN APARTMENTS OF LESS THAN 5 ROOMS, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907—Concluded.

PER CENT.

Sex, occupation group, and disease classification.	Decedents who had lived in apartments consisting of less than 5 rooms.					
	American.	English.	Irish.	French Canadian.	Other races.	Total.
MALES.						
Operatives:						
Tuberculous.....	50	63	46	46	77	55
Nontuberculous.....	45	48	49	38	73	48
Total, all causes.....	47	51	48	41	74	51
Nonoperatives:						
Tuberculous.....	10	33	43	40	93	41
Nontuberculous.....	18	37	35	33	58	34
Total, all causes.....	15	37	36	34	64	35
Both classes:						
Tuberculous.....	19	47	44	44	84	46
Nontuberculous.....	20	40	37	34	61	37
Total, all causes.....	20	41	38	36	67	38
FEMALES.						
Operatives:						
Tuberculous.....	60	81	59	45	69	59
Nontuberculous.....	64	43	63	37	78	52
Total, all causes.....	63	54	61	40	74	55
Nonoperatives:						
Tuberculous.....	19	47	53	36	63	45
Nontuberculous.....	13	31	35	29	56	30
Total, all causes.....	13	34	36	30	57	31
Both classes:						
Tuberculous.....	29	63	56	42	66	52
Nontuberculous.....	16	33	38	31	60	33
Total, all causes.....	17	36	41	33	61	36
BOTH SEXES.						
Operatives:						
Tuberculous.....	55	71	54	45	73	57
Nontuberculous.....	56	46	57	38	75	50
Total, all causes.....	56	52	56	41	74	53
Nonoperatives:						
Tuberculous.....	14	40	46	38	77	43
Nontuberculous.....	15	34	35	31	57	32
Total, all causes.....	15	35	36	32	60	33
Both classes:						
Tuberculous.....	23	54	49	43	75	49
Nontuberculous.....	17	36	38	32	61	35
Total, all causes.....	18	39	40	34	64	37

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 77.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHO HAD LIVED IN APARTMENTS HOUSING EACH SPECIFIED NUMBER OF PERSONS, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1905 TO 1907.

MALES.

Occupation group, disease classification, and locality.	Number of decedents who had lived in apartments housing each specified number of persons.					Total re-reported.	Total not re-reported.	Grand total.	Per cent of decedents who had lived in apartments housing each specified number of persons.				
	Under 3.	3.	4.	5.	6 and over.				Under 3.	3.	4.	5.	5 and over.
OPERATIVES.													
Tuberculous:													
Fall River.....	5	9	19	9	50	92	2	94	5	10	21	10	54
Manchester.....	5	4	5	12	26	26	3	29	19	16	19	19	46
Pawtucket.....	2			2	2	6	1	7	33			33	34
Total, 3 cities.....	5	16	23	16	64	124	6	130	4	13	18	13	52
Nontuberculous:													
Fall River.....	20	20	33	31	81	185	8	193	11	11	18	16	44
Manchester.....	8	14	7	11	21	61	11	72	13	23	12	18	34
Pawtucket.....	3	5	5	3	8	24	4	28	12	21	21	12	34
Total, 3 cities.....	31	39	45	45	110	270	23	293	11	14	17	17	41
All causes:													
Fall River.....	25	29	52	40	131	277	10	287	9	11	19	14	47
Manchester.....	8	19	11	16	33	87	14	101	9	22	13	18	38
Pawtucket.....	3	7	5	5	10	30	5	35	10	23	17	17	33
Total, 3 cities.....	36	55	68	61	174	394	29	423	9	14	17	16	44
NONOPERATIVES.													
Tuberculous:													
Fall River.....	9	20	24	32	62	147	5	152	6	14	16	22	42
Manchester.....	9	14	14	17	43	97	16	113	9	15	15	17	44
Pawtucket.....	5	14	10	7	47	83	7	90	6	16	12	9	57
Total, 3 cities.....	23	48	48	56	152	327	28	355	7	15	15	17	46
Nontuberculous:													
Fall River.....	109	154	154	136	204	877	68	945	19	18	18	15	30
Manchester.....	142	115	93	74	146	570	138	708	25	20	16	13	26
Pawtucket.....	141	95	127	66	116	545	127	672	26	18	23	12	21
Total, 3 cities.....	452	364	374	276	526	1,992	333	2,325	23	18	19	14	26
All causes:													
Fall River.....	178	174	178	168	326	1,024	73	1,097	17	17	17	17	32
Manchester.....	151	129	107	91	189	667	154	821	23	19	16	14	28
Pawtucket.....	146	109	137	73	163	628	134	762	23	17	22	12	26
Total, 3 cities.....	475	412	422	332	678	2,319	361	2,680	21	18	18	14	29
BOTH CLASSES.													
Tuberculous:													
Fall River.....	14	29	43	41	112	239	7	246	6	12	18	17	47
Manchester.....	9	19	18	22	55	123	19	142	7	15	15	18	45
Pawtucket.....	5	16	10	9	49	89	8	97	6	18	11	10	55
Total, 3 cities.....	28	64	71	72	216	451	34	485	6	14	16	16	48
Nontuberculous:													
Fall River.....	189	174	187	167	345	1,062	76	1,138	18	16	18	16	32
Manchester.....	150	129	100	85	167	631	149	780	24	20	16	14	26
Pawtucket.....	144	100	132	69	124	569	131	700	25	18	23	12	22
Total, 3 cities.....	483	403	419	321	636	2,262	356	2,618	21	18	19	14	28
All causes:													
Fall River.....	203	203	230	208	457	1,301	83	1,384	16	16	17	16	35
Manchester.....	159	148	118	107	222	754	168	922	21	20	16	14	29
Pawtucket.....	149	116	142	78	173	658	139	797	23	18	21	12	26
Total, 3 cities.....	511	467	490	393	852	2,713	390	3,103	19	17	18	15	31

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 77.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHO HAD LIVED IN APARTMENTS HOUSING EACH SPECIFIED NUMBER OF PERSONS, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1905 TO 1907—Continued.

FEMALES.

Occupation group, disease classification, and locality.	Number of decedents who had lived in apartments housing each specified number of persons.					Total re-reported.	Total not re-reported.	Grand total.	Per cent of decedents who had lived in apartments housing each specified number of persons.				
	Under 3.	3.	4.	5.	6 and over.				Under 3.	3.	4.	5.	6 and over.
OPERATIVES.													
Tuberculous:													
Fall River.....	15	22	16	16	40	109	3	112	14	20	15	15	36
Manchester.....	1	5	7	1	22	36	4	40	3	14	19	3	61
Pawtucket.....	1	4	5	13	14	37	.....	37	3	11	13	35	38
Total, 3 cities.....	17	31	28	30	76	182	7	189	9	17	15	17	42
Nontuberculous:													
Fall River.....	34	28	31	20	64	177	10	187	19	16	18	11	36
Manchester.....	6	4	6	8	16	40	9	49	15	10	15	20	40
Pawtucket.....	5	2	7	.....	9	23	2	25	22	9	30	.....	39
Total, 3 cities.....	45	34	44	28	89	240	21	261	19	14	18	12	37
All causes:													
Fall River.....	49	50	47	36	104	286	13	299	17	18	16	13	36
Manchester.....	7	9	13	9	38	76	13	89	9	12	17	12	50
Pawtucket.....	6	6	12	13	23	60	2	62	10	10	20	22	38
Total, 3 cities.....	62	65	72	58	165	422	28	450	15	15	17	14	39
NONOPERATIVE.													
Tuberculous:													
Fall River.....	12	13	16	18	46	105	3	108	12	12	15	17	44
Manchester.....	5	11	15	11	43	85	17	102	6	13	17	13	51
Pawtucket.....	4	9	7	11	35	66	3	69	6	14	10	17	53
Total, 3 cities.....	21	33	38	40	124	256	23	279	8	13	15	16	48
Nontuberculous:													
Fall River.....	174	100	198	172	355	1,089	74	1,163	16	17	18	16	33
Manchester.....	153	123	128	98	134	636	113	749	24	19	20	16	21
Pawtucket.....	105	120	101	82	153	561	133	694	19	21	18	15	27
Total, 3 cities.....	432	433	427	352	642	2,286	320	2,606	19	19	19	15	28
All causes:													
Fall River.....	186	203	214	190	401	1,194	77	1,271	15	17	18	16	34
Manchester.....	158	134	143	109	177	721	130	851	22	19	20	15	24
Pawtucket.....	109	129	108	93	188	627	136	763	17	21	17	15	30
Total, 3 cities.....	453	466	465	392	766	2,542	343	2,885	18	18	18	16	30
BOTH CLASSES.													
Tuberculous:													
Fall River.....	27	35	32	34	86	214	6	220	13	16	15	16	40
Manchester.....	6	16	22	12	65	121	21	142	5	13	18	10	54
Pawtucket.....	5	13	12	24	49	103	3	106	5	13	12	23	47
Total, 3 cities.....	38	64	66	70	200	438	30	468	9	14	15	16	46
Nontuberculous:													
Fall River.....	208	218	229	192	419	1,266	84	1,350	17	17	18	15	33
Manchester.....	159	127	134	106	150	676	122	798	23	19	20	16	22
Pawtucket.....	110	122	108	82	162	584	135	719	19	21	18	14	28
Total, 3 cities.....	477	467	471	380	731	2,526	341	2,867	19	18	19	15	29
All classes:													
Fall River.....	235	253	261	226	505	1,480	90	1,570	16	17	18	15	34
Manchester.....	165	143	156	118	215	797	143	940	21	18	19	15	27
Pawtucket.....	115	135	120	106	211	687	138	825	17	20	17	15	31
Total, 3 cities.....	515	531	537	450	931	2,964	371	3,335	17	18	18	15	32

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 77.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHO HAD LIVED IN APARTMENTS HOUSING EACH SPECIFIED NUMBER OF PERSONS, BY SEX AND BY OCCUPATION GROUPS, FALL RIVER, MANCHESTER, AND PAWTUCKET, 1905 TO 1907—Concluded.

BOTH SEXES.

Occupation group, disease classification, and locality.	Number of decedents who had lived in apartments housing each specified number of persons.					Total re-ported.	Total not re-ported.	Grand total.	Per cent of decedents who had lived in apartments housing each specified number of persons.				
	Under 3.	3.	4.	5.	6 and over.				Under 3.	3.	4.	5.	6 and over.
OPERATIVES.													
Tuberculous:													
Fall River.....	20	31	35	25	90	201	5	206	10	15	17	13	45
Manchester.....	1	10	11	6	34	62	7	69	1	16	18	10	55
Pawtucket.....	1	6	5	15	16	43	1	44	2	14	12	35	37
Total, 3 cities.....	22	47	51	46	140	306	13	319	7	15	17	15	46
Nontuberculous:													
Fall River.....	54	48	64	51	145	362	18	380	15	13	18	14	40
Manchester.....	14	18	13	19	37	101	20	121	14	18	13	19	36
Pawtucket.....	8	7	12	3	17	47	6	53	17	15	26	6	36
Total, 3 cities.....	76	73	89	73	199	510	44	554	15	14	18	14	39
All causes:													
Fall River.....	74	79	99	76	235	563	23	586	13	14	18	13	42
Manchester.....	15	28	24	25	71	163	27	190	9	17	15	15	44
Pawtucket.....	9	13	17	18	33	90	7	97	10	14	19	20	37
Total, 3 cities.....	98	120	140	119	339	816	57	873	12	15	17	14	42
NONOPERATIVES.													
Tuberculous:													
Fall River.....	21	33	40	50	108	252	8	260	8	13	16	20	43
Manchester.....	14	25	29	28	86	182	33	215	8	14	16	15	47
Pawtucket.....	9	23	17	18	82	149	10	159	6	16	11	12	55
Total, 3 cities.....	44	81	86	96	276	583	51	634	8	14	15	16	47
Nontuberculous:													
Fall River.....	343	344	352	308	619	1,966	142	2,108	17	17	18	16	32
Manchester.....	295	238	221	172	280	1,206	251	1,457	25	20	18	14	23
Pawtucket.....	246	215	228	148	269	1,106	260	1,366	22	20	21	13	24
Total, 3 cities.....	884	797	801	628	1,168	4,278	653	4,931	21	18	19	15	27
All causes:													
Fall River.....	364	377	392	358	727	2,218	150	2,368	16	17	18	16	33
Manchester.....	309	263	250	200	366	1,388	284	1,672	22	19	18	15	26
Pawtucket.....	255	238	245	166	351	1,255	270	1,525	20	19	20	13	28
Total, 3 cities.....	928	878	887	724	1,444	4,861	704	5,565	19	18	18	15	30
BOTH CLASSES.													
Tuberculous:													
Fall River.....	41	64	75	75	198	453	13	466	9	14	17	17	43
Manchester.....	15	35	40	34	120	244	40	284	6	14	17	14	49
Pawtucket.....	10	29	22	33	98	192	11	203	5	15	12	17	51
Total, 3 cities.....	66	128	137	142	416	889	64	953	8	14	15	16	47
Nontuberculous:													
Fall River.....	397	392	416	359	764	2,328	160	2,488	17	17	18	15	33
Manchester.....	309	256	234	191	317	1,307	271	1,578	24	19	18	15	24
Pawtucket.....	254	222	240	151	286	1,153	266	1,419	22	19	21	13	25
Total, 3 cities.....	960	870	890	701	1,367	4,788	697	5,485	20	18	19	15	28
All causes:													
Fall River.....	438	456	491	434	962	2,781	173	2,954	16	16	18	15	35
Manchester.....	324	291	274	225	437	1,551	311	1,862	21	19	18	14	28
Pawtucket.....	264	251	262	184	384	1,345	277	1,622	20	19	19	14	28
Total, 3 cities.....	1,026	998	1,027	843	1,783	5,677	761	6,438	18	18	18	15	31

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 78.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS REPORTED WHO HAD LIVED IN APARTMENTS HOUSING 4 OR MORE PERSONS, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

NUMBER.

Sex, occupation group, and disease classification.	Decedents who had lived in apartments housing 4 or more persons.					Total.
	American.	English.	Irish.	French Canadian.	Other races.	
MALES.						
Operatives:						
Tuberculous.....	6	15	19	23	15	78
Nontuberculous.....	8	40	37	38	22	145
Total, all causes.....	14	55	56	61	37	223
Nonoperatives:						
Tuberculous.....	13	22	55	15	13	118
Nontuberculous.....	74	100	214	113	53	554
Total, all causes.....	87	122	269	128	66	672
Both classes:						
Tuberculous.....	19	37	74	38	28	196
Nontuberculous.....	82	140	251	151	75	699
Total, all causes.....	101	177	325	189	103	895
FEMALES.						
Operatives:						
Tuberculous.....	4	11	22	26	9	72
Nontuberculous.....	9	23	29	47	7	115
Total, all causes.....	13	34	51	73	16	187
Nonoperatives:						
Tuberculous.....	11	13	24	18	14	80
Nontuberculous.....	103	127	266	169	60	725
Total, all causes.....	114	140	290	187	74	805
Both classes:						
Tuberculous.....	15	24	46	44	23	152
Nontuberculous.....	112	150	295	216	67	840
Total, all causes.....	127	174	341	260	90	992
BOTH SEXES.						
Operatives:						
Tuberculous.....	10	26	41	49	24	150
Nontuberculous.....	17	63	66	85	29	260
Total, all causes.....	27	89	107	134	53	410
Nonoperatives:						
Tuberculous.....	24	35	79	33	27	198
Nontuberculous.....	177	227	480	282	113	1,279
Total, all causes.....	201	262	559	315	140	1,477
Both classes:						
Tuberculous.....	34	61	120	82	51	348
Nontuberculous.....	194	290	546	367	142	1,539
Total, all causes.....	228	351	666	449	193	1,887

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 78.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS REPORTED WHO HAD LIVED IN APARTMENTS HOUSING 4 OR MORE PERSONS, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907—Concluded.

PER CENT.

Sex, occupation group, and disease classification.	Decedents who had lived in apartments housing 4 or more persons.					Total.
	American.	English.	Irish.	French Canadian.	Other races.	
MALES.						
Operatives:						
Tuberculous.....	100	79	79	88	88	85
Nontuberculous.....	73	67	82	81	100	78
Total, all causes.....	82	70	81	84	95	80
Nonoperatives:						
Tuberculous.....	65	96	77	79	93	80
Nontuberculous.....	51	52	70	68	77	63
Total, all causes.....	53	56	72	69	80	66
Both classes:						
Tuberculous.....	73	88	78	84	90	82
Nontuberculous.....	53	55	72	71	82	66
Total, all causes.....	56	57	73	73	84	69
FEMALES.						
Operatives:						
Tuberculous.....	80	69	56	70	75	66
Nontuberculous.....	75	61	53	87	39	65
Total, all causes.....	77	63	54	80	53	65
Nonoperatives:						
Tuberculous.....	75	68	75	82	82	76
Nontuberculous.....	50	60	83	83	81	67
Total, all causes.....	52	61	82	83	81	67
Both classes:						
Tuberculous.....	75	69	65	75	79	71
Nontuberculous.....	51	60	78	84	73	66
Total, all causes.....	53	61	76	83	74	67
BOTH SEXES.						
Operatives:						
Tuberculous.....	91	74	65	78	83	75
Nontuberculous.....	74	64	66	84	73	72
Total, all causes.....	79	67	66	82	73	73
Nonoperatives:						
Tuberculous.....	69	83	77	80	87	79
Nontuberculous.....	51	56	69	76	79	65
Total, all causes.....	52	59	70	77	80	67
Both classes:						
Tuberculous.....	74	79	72	79	85	77
Nontuberculous.....	52	58	68	78	78	66
Total, all causes.....	54	61	69	78	79	68

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 79.—NUMBER AND PER CENT OF DEATHS OF FEMALES FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES REPORTED AS OCCURRING IN APARTMENTS OF EACH SPECIFIED HYGIENIC CONDITION, BY OCCUPATION GROUPS, FALL RIVER, 1907 AND 1905 TO 1907.

Occupation group, disease classification, and period.	Number of deaths occurring in apartments where the hygienic condition was reported as—					Total reported.	Total not reported.	Grand total.	Per cent of deaths occurring in apartments where the hygienic condition was reported as—				
	Bad.	Poor.	Fair.	Good.	Excellent.				Bad.	Poor.	Fair.	Good.	Excellent.
OPERATIVES.													
Tuberculous:													
1907.....	5	18	14	8	1	46	1	47	11	39	31	17	2
1905 to 1907.....	9	49	36	13	2	109	3	112	8	45	33	12	2
Nontuberculous:													
1907.....	8	11	7	6	7	39	.....	39	21	23	18	15	18
1905 to 1907.....	14	22	32	19	21	108	.....	108	13	20	30	18	19
Total, all causes:													
1907.....	13	29	21	14	8	85	1	86	15	34	25	17	9
1905 to 1907.....	23	71	68	32	23	217	3	220	11	32	31	15	11
NONOPERATIVES.													
Tuberculous:													
1907.....	11	21	31	4	1	68	2	70	16	31	46	6	1
1905 to 1907.....	32	46	82	18	6	184	3	187	17	25	45	10	3
Nontuberculous:													
1907.....	32	89	158	79	44	402	7	409	8	22	39	20	11
1905 to 1907.....	114	185	335	304	202	1,140	23	1,163	10	16	29	27	18
Total, all causes:													
1907.....	43	110	189	83	45	470	9	479	9	23	40	18	10
1905 to 1907.....	146	231	417	322	208	1,324	26	1,350	11	17	32	24	16
BOTH CLASSES.													
Tuberculous:													
1907.....	16	39	45	12	2	114	3	117	14	34	39	11	2
1905 to 1907.....	41	95	118	31	8	293	6	299	14	32	40	11	3
Nontuberculous:													
1907.....	40	100	165	85	51	441	7	448	9	23	37	19	12
1905 to 1907.....	128	207	367	323	223	1,248	23	1,271	10	17	29	26	18
Total, all causes:													
1907.....	56	139	210	97	53	555	10	565	10	25	38	17	10
1905 to 1907.....	169	302	485	354	231	1,541	29	1,570	11	20	31	23	15

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 80.—NUMBER AND PER CENT OF TUBERCULOUS DECEDENTS WHO HAD LIVED IN APARTMENTS REPORTED HYGIENICALLY UNSATISFACTORY, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Sex, occupation group, and locality.	Tuberculous decedents who had lived in apartments adjudged hygienically unsatisfactory.					
	American.	English.	Irish.	French Canadian.	Other races.	All races.
NUMBER.						
MALES.						
Operatives:						
Fall River.....	2	5	8	16	12	43
3 cities.....	3	7	12	19	16	57
Nonoperatives:						
Fall River.....	2	6	23	6	11	49
3 cities.....	11	12	58	17	18	116
Both classes:						
Fall River.....	4	11	31	22	23	91
3 cities.....	14	19	70	36	34	173
FEMALES.						
Operatives:						
Fall River.....	1	6	21	17	13	58
3 cities.....	3	8	31	27	14	83
Nonoperatives:						
Fall River.....	4	3	16	4	9	36
3 cities.....	8	3	30	22	14	77
Both classes:						
Fall River.....	5	9	37	21	22	94
3 cities.....	11	11	61	49	28	160
BOTH SEXES.						
Operatives:						
Fall River.....	3	11	29	33	25	101
3 cities.....	6	15	43	46	30	140
Nonoperatives:						
Fall River.....	6	9	39	10	20	84
3 cities.....	19	15	88	39	32	193
Both classes:						
Fall River.....	9	20	68	43	45	185
3 cities.....	25	30	131	85	62	333
PER CENT.						
MALES.						
Operatives:						
Fall River.....	40	33	40	73	92	57
3 cities.....	38	33	41	66	73	52
Nonoperatives:						
Fall River.....	11	27	33	35	85	39
3 cities.....	18	28	38	32	72	35
Both classes:						
Fall River.....	17	30	34	56	88	42
3 cities.....	20	30	39	44	72	39
FEMALES.						
Operatives:						
Fall River.....	20	38	55	46	100	53
3 cities.....	21	32	46	44	88	45
Nonoperatives:						
Fall River.....	25	16	50	17	53	33
3 cities.....	16	8	38	32	52	30
Both classes:						
Fall River.....	24	26	53	34	73	43
3 cities.....	17	17	42	37	65	36
BOTH SEXES.						
Operatives:						
Fall River.....	30	35	50	56	96	55
3 cities.....	27	33	45	51	79	48
Nonoperatives:						
Fall River.....	17	22	38	24	66	34
3 cities.....	17	18	38	32	62	32
Both classes:						
Fall River.....	20	28	43	43	80	43
3 cities.....	19	23	40	40	69	38

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 81.—NUMBER AND PER CENT OF DEATHS FROM TUBERCULOUS AND NONTUBERCULOUS CAUSES OCCURRING IN ILL-VENTILATED OR UNTIDY APARTMENTS, BY SEX AND BY OCCUPATION GROUPS, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Sex, occupation group, and disease classification.	Number of deaths occurring in apartments—				Total.	Per cent of deaths occurring in apartments which were—	
	Which were ill ventilated.	Which were untidy.	Condition of which was reported.	Condition of which was not reported.		Ill ventilated.	Untidy.
MALES.							
Operatives:							
Tuberculous.....	80	46	124	6	130	65	37
Nontuberculous.....	103	69	267	26	293	39	26
Total, all causes.....	183	115	391	32	423	47	29
Nonoperatives:							
Tuberculous.....	132	95	320	35	355	41	30
Nontuberculous.....	304	284	2,228	97	2,325	14	13
Total, all causes.....	436	379	2,548	132	2,680	17	15
Both classes:							
Tuberculous.....	212	141	444	41	485	48	32
Nontuberculous.....	407	353	2,495	123	2,618	16	14
Total, all causes.....	619	494	2,939	164	3,103	21	17
FEMALES.							
Operatives:							
Tuberculous.....	88	43	161	28	189	55	27
Nontuberculous.....	110	77	226	35	261	49	34
Total, all causes.....	198	120	387	63	450	51	31
Nonoperatives:							
Tuberculous.....	73	62	240	39	279	30	26
Nontuberculous.....	316	277	2,484	122	2,606	13	11
Total, all causes.....	389	339	2,724	161	2,885	14	12
Both classes:							
Tuberculous.....	161	105	401	67	468	40	26
Nontuberculous.....	426	354	2,710	157	2,867	16	13
Total, all causes.....	587	459	3,111	224	3,335	19	15
BOTH SEXES.							
Operatives:							
Tuberculous.....	168	89	285	34	319	59	31
Nontuberculous.....	213	146	493	61	554	43	30
Total, all causes.....	381	235	778	95	873	49	30
Nonoperatives:							
Tuberculous.....	205	157	560	74	634	37	28
Nontuberculous.....	620	561	4,712	219	4,931	13	12
Total, all causes.....	825	718	5,272	293	5,565	16	14
Both classes:							
Tuberculous.....	373	246	845	108	953	44	29
Nontuberculous.....	833	707	5,205	280	5,485	16	14
Total, all causes.....	1,206	953	6,050	388	6,438	20	16

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 82.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS REPORTED WHOSE ABODE WAS ILL-VENTILATED, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907.

NUMBER.

Sex, occupation group, and disease classification.	Decedents whose abode was ill-ventilated.					Total.
	American.	English.	Irish.	French Canadian.	Other races.	
MALES.						
Operatives:						
Tuberculous.....	4	10	16	20	16	66
Nontuberculous.....	6	19	22	24	19	90
Total, all causes.....	10	29	38	44	35	156
Nonoperatives:						
Tuberculous.....	5	7	31	17	14	74
Nontuberculous.....	15	32	77	53	48	225
Total, all causes.....	20	39	108	70	62	299
Both classes:						
Tuberculous.....	9	17	47	37	30	140
Nontuberculous.....	21	51	99	77	67	315
Total, all causes.....	30	68	146	114	97	455
FEMALES.						
Operatives:						
Tuberculous.....	3	12	25	20	6	66
Nontuberculous.....	9	19	22	18	9	77
Total, all causes.....	12	31	47	38	15	143
Nonoperatives:						
Tuberculous.....	2	5	9	6	8	30
Nontuberculous.....	7	33	108	51	55	254
Total, all causes.....	9	38	117	57	63	284
Both classes:						
Tuberculous.....	5	17	34	26	14	96
Nontuberculous.....	16	52	130	69	64	331
Total, all causes.....	21	69	164	95	78	427
BOTH SEXES.						
Operatives:						
Tuberculous.....	7	22	41	40	22	132
Nontuberculous.....	15	38	44	42	28	167
Total, all causes.....	22	60	85	82	50	299
Nonoperatives:						
Tuberculous.....	7	12	40	23	22	104
Nontuberculous.....	22	65	185	104	103	479
Total, all causes.....	29	77	225	127	125	583
Both classes:						
Tuberculous.....	14	34	81	63	44	236
Nontuberculous.....	37	103	229	146	131	646
Total, all causes.....	51	137	310	209	175	882

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 82.—NUMBER AND PER CENT OF TUBERCULOUS AND NON-TUBERCULOUS DECEDENTS REPORTED WHOSE ABODE WAS ILL-VENTILATED, BY RACE AND SEX AND BY OCCUPATION GROUPS, FALL RIVER, 1905 TO 1907—Concluded.

PER CENT.

Sex, occupation group, and disease classification.	Decedents whose abode was ill-ventilated.					Total.
	Ameri-can.	Engl-ish.	Irish.	French Canadian.	Other races.	
MALES.						
Operatives:						
Tuberculous.....	80	56	67	71	100	72
Nontuberculous.....	60	32	48	52	95	50
Total, all causes.....	67	38	54	59	97	57
Nonoperatives:						
Tuberculous.....	28	39	51	94	100	57
Nontuberculous.....	10	16	25	31	68	25
Total, all causes.....	12	18	29	37	73	29
Both classes:						
Tuberculous.....	39	47	55	80	100	64
Nontuberculous.....	13	20	28	35	74	29
Total, all causes.....	16	23	33	43	80	35
FEMALES.						
Operatives:						
Tuberculous.....	60	75	81	71	100	77
Nontuberculous.....	69	46	44	39	75	48
Total, all causes.....	67	54	58	51	83	58
Nonoperatives:						
Tuberculous.....	17	29	35	32	67	35
Nontuberculous.....	3	15	28	26	80	23
Total, all causes.....	4	16	28	27	78	24
Both classes:						
Tuberculous.....	29	52	60	55	78	56
Nontuberculous.....	7	20	30	29	79	27
Total, all causes.....	8	24	33	33	79	30
BOTH SEXES.						
Operatives:						
Tuberculous.....	70	65	75	71	100	75
Nontuberculous.....	65	38	46	46	88	49
Total, all causes.....	67	45	56	55	93	58
Nonoperatives:						
Tuberculous.....	23	34	46	62	85	48
Nontuberculous.....	6	16	27	28	74	24
Total, all causes.....	7	17	29	32	75	27
Both classes:						
Tuberculous.....	38	49	57	68	92	60
Nontuberculous.....	9	20	29	32	76	28
Total, all causes.....	12	23	33	38	80	32

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 83.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHOSE SLEEPING ROOM CONTAINED EACH SPECIFIED NUMBER OF WINDOWS, BY SEX AND BY OCCUPATION GROUPS, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Sex, occupation group, and disease classification.	Number of decedents whose sleeping rooms had—			Total re-reported.	Total not re-reported.	Grand total.	Per cent of decedents whose sleeping rooms had—		
	No window.	1 window.	More than 1 window.				No window.	1 window.	More than 1 window.
MALES.									
Operatives:									
Tuberculous.....		118	9	127	3	130		93	7
Nontuberculous.....		235	31	266	27	293		88	12
Total, all causes.....		353	40	393	30	423		90	10
Nonoperatives:									
Tuberculous.....		289	52	341	14	355		85	15
Nontuberculous.....		1,594	421	2,015	310	2,325		79	21
Total, all causes.....		1,883	473	2,356	324	2,680		80	20
Both classes:									
Tuberculous.....		407	61	468	17	485		87	13
Nontuberculous.....		1,829	452	2,281	337	2,618		80	20
Total, all causes.....		2,236	513	2,749	354	3,103		81	19
FEMALES.									
Operatives:									
Tuberculous.....	1	150	31	182	7	189	(a)	83	17
Nontuberculous.....		208	40	248	13	261		84	16
Total, all causes.....	1	358	71	430	20	450	(a)	83	17
Nonoperatives:									
Tuberculous.....	2	191	66	259	20	279	1	74	25
Nontuberculous.....	2	1,303	963	2,268	338	2,606	(a)	57	43
Total, all causes.....	4	1,494	1,029	2,527	358	2,885	(a)	59	41
Both classes:									
Tuberculous.....	3	341	97	441	27	468	1	77	22
Nontuberculous.....	2	1,511	1,003	2,516	351	2,867	(a)	60	40
Total, all causes.....	5	1,852	1,100	2,957	378	3,335	(a)	63	37
BOTH SEXES.									
Operatives:									
Tuberculous.....	1	268	40	309	10	319	(a)	87	13
Nontuberculous.....		443	71	514	40	554	(a)	86	14
Total, all causes.....	1	711	111	823	50	873	(a)	86	14
Nonoperatives:									
Tuberculous.....	2	480	118	600	34	634	(a)	80	20
Nontuberculous.....	2	2,897	1,384	4,283	648	4,931	(a)	68	32
Total, all causes.....	4	3,377	1,502	4,883	682	5,565	(a)	69	31
Both classes:									
Tuberculous.....	3	748	158	909	44	95	(a)	82	18
Nontuberculous.....	2	3,340	1,455	4,797	688	5,485	(a)	70	30
Total, all causes.....	5	4,088	1,613	5,706	732	6,438	(a)	72	28

• Less than one-half of 1 per cent.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 84.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS EACH SPECIFIED AGE, BY SEX AND YEARS OUT OF MILL, FOR 3

Sex, occupation group, and disease classification.	Number of decedents who began work in cotton mill at classified years of age.							Total re-ported.
	Under 13.	13 and under 15.	15 and under 17.	17 and under 21.	21 and under 26.	26 and under 36.	36 and over.	
MALES.								
Operatives: (a)								
Tuberculous	9	51	9	18	10	16	7	120
Nontuberculous	63	57	28	32	20	21	25	246
Total, all causes	72	108	37	50	30	37	32	366
Mill workers out of mill over 2 but less than 6 years: ●								
Tuberculous	1	6	1	1	4	.....	.....	13
Nontuberculous	17	5	5	7	4	7	1	46
Total, all causes	18	11	6	8	8	7	1	59
Ex-operatives (out of mill 6 years and over):								
Tuberculous	7	23	5	2	1	2	.....	40
Nontuberculous	58	10	20	25	7	10	10	140
Total, all causes	65	33	25	27	8	12	10	180
Total males:								
Tuberculous	17	80	15	21	15	18	7	173
Nontuberculous	138	72	53	64	31	38	36	432
Total, all causes	155	152	68	85	46	56	43	605
FEMALES.								
Operatives: (a)								
Tuberculous	27	78	32	21	6	5	1	170
Nontuberculous	37	95	39	32	12	5	2	222
Total, all causes	64	173	71	53	18	10	3	392
Mill workers out of mill over 2 but less than 6 years:								
Tuberculous	3	11	11	6	1	1	.....	33
Nontuberculous	9	16	8	5	3	3	.....	44
Total, all causes	12	27	19	11	4	4	.....	77
Ex-operatives (out of mill 6 years and over):								
Tuberculous	11	17	10	8	1	3	.....	50
Nontuberculous	97	60	40	34	14	10	5	260
Total, all causes	108	77	50	42	15	13	5	310
Total females:								
Tuberculous	41	106	53	35	8	9	1	253
Nontuberculous	143	171	87	71	29	18	7	526
Total, all causes	184	277	140	106	37	27	8	779

● Mill workers out of mill 2 years and less.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DECEDENTS WHO BEGAN WORK IN COTTON MILL AT CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Total not reported.	Grand total.	Per cent of decedents who began work in cotton mill at classified years of age.						
		Under 13.	13 and under 15.	15 and under 17.	17 and under 21.	21 and under 26.	26 and under 36.	36 and over.
10	130	8	42	8	15	8	13	6
47	293	26	23	11	13	8	9	10
57	423	20	29	10	14	8	10	9
4	17	8	46	8	8	30		
13	59	37	11	11	15	9	15	2
17	76	30	18	10	14	14	12	2
1	41	18	58	12	5	2	5	
30	170	42	7	14	18	5	7	7
31	211	36	18	14	15	4	7	6
15	188	10	46	9	12	9	10	4
90	522	32	17	12	15	7	9	8
105	710	26	25	11	14	8	9	7
19	189	16	46	19	12	3	3	1
39	261	17	43	18	14	5	2	1
58	450	16	44	18	13	5	3	1
3	36	9	33	33	19	3	3	
12	56	21	36	18	11	7	7	
15	92	16	35	25	14	5	5	
1	51	22	34	20	16	2	6	
66	326	37	23	16	13	5	4	2
67	377	35	25	16	13	5	4	2
23	276	16	42	21	14	3	4	
117	643	27	33	17	13	6	3	1
140	919	24	35	18	14	5	3	1

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 84.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS SPECIFIED AGE, BY SEX AND YEARS OUT OF MILL, FOR 3 CITIES

Sex, occupation group, and disease classification.	Number of decedents who began work in cotton mill at classified years of age.							Total reported.
	Under 13.	13 and under 15.	15 and under 17.	17 and under 21.	21 and under 26.	26 and under 36.	36 and over.	
BOTH SEXES.								
Operatives: (a)								
Tuberculous.....	36	129	41	39	16	21	8	290
Nontuberculous.....	100	152	67	64	32	26	27	468
Total, all causes.....	136	281	108	103	48	47	35	758
Mill workers out of mill over 2 but less than 6 years:								
Tuberculous.....	4	17	12	7	5	1		46
Nontuberculous.....	26	21	13	12	7	10	1	90
Total, all causes.....	30	38	25	19	12	11	1	136
Ex-operatives (out of mill 6 years and over):								
Tuberculous.....	18	40	15	10	2	5		90
Nontuberculous.....	155	70	60	59	21	20	15	400
Total, all causes.....	173	110	75	69	23	25	15	490
Total, both sexes:								
Tuberculous.....	58	186	68	56	23	27	8	426
Nontuberculous.....	281	243	140	135	60	56	43	958
Total, all causes.....	339	429	208	191	83	83	51	1,384

* Mill workers out of mill 2 years and less.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

CULOUS DECEDENTS WHO BEGAN WORK IN COTTON MILL AT EACH (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907—Concl'd.

Total net reported.	Grand total.	Per cent of decedents who began work in cotton mill at classified years of age.						
		Under 13.	13 and under 15.	15 and under 17.	17 and under 21.	21 and under 26.	26 and under 36.	36 and over.
29	319	12	45	14	13	6	7	3
86	554	21	32	14	14	7	6	6
115	873	18	37	14	14	6	6	5
7	53	9	37	26	15	11	2	.....
25	115	29	23	15	13	8	11	1
32	168	22	28	18	14	9	8	1
2	92	20	44	17	11	2	6	.....
96	496	39	17	15	15	5	5	4
98	588	35	23	15	14	5	5	3
38	464	14	44	16	13	5	6	2
207	1,165	29	25	15	14	6	6	5
245	1,629	24	31	15	14	6	6	4

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

AND NONTUBERCULOUS MILL WORKERS WHO HAD BEEN OUT OF MILL FOR FALL RIVER, MANCHESTER, AND PAWTUCKET, 1905 TO 1907.

Per cent of operatives who had been out of mill previous to death.

Less than 2 wks.	2 and under 8 wks.	2 and under 4 mos.	4 and under 7 mos.	7 and under 13 mos.	13 and including 24 mos.	Total 2 years and under.	Over 2 and under 4 years.	4 and under 6 years.	Total over 2 and under 6 years.	6 and under 11 years.	11 and under 16 years.	16 and under 26 years.	26 years and over.	Total 6 years and over.
4	3	9	19	20	15	70	1	7	8	13	7	1	1	22
3	-----	16	32	24	3	78	3	11	14	3	3	2	-----	8
-----	-----	6	19	13	6	44	-----	6	6	32	6	6	6	50
3	2	10	22	20	12	69	2	7	9	12	7	2	1	22
14	12	8	4	6	7	51	4	8	12	14	8	6	9	37
27	17	9	9	14	2	78	3	4	7	5	2	7	1	15
17	4	8	4	10	14	57	2	8	10	15	6	8	4	33
16	12	8	5	8	7	56	3	8	11	13	7	6	7	33
11	9	9	8	10	9	56	3	8	11	14	8	4	7	33
20	12	11	16	17	2	78	3	6	9	5	2	5	1	13
12	3	8	8	11	12	54	1	8	9	18	6	8	5	37
13	9	9	9	11	8	59	3	8	11	12	7	5	6	30
2	1	12	17	24	16	72	8	9	17	4	3	3	1	11
-----	-----	2	16	28	19	65	3	5	8	18	3	3	3	27
-----	5	7	14	20	17	63	5	3	8	12	10	7	-----	29
1	1	9	16	24	17	68	6	7	13	9	5	4	1	19
5	5	8	6	10	5	39	3	5	8	10	9	19	15	53
12	15	2	5	7	3	44	4	9	13	9	9	10	15	43
16	2	6	-----	16	10	50	6	2	8	14	6	8	14	42
7	7	6	5	10	5	40	3	6	9	11	8	17	15	51
6	4	9	8	13	8	47	4	6	10	9	7	16	11	43
7	10	2	9	14	9	51	3	8	11	12	7	8	11	38
7	4	7	7	18	14	57	5	3	8	13	8	7	7	35
5	5	7	9	14	9	49	4	6	10	10	7	13	11	41
3	2	11	18	22	15	71	5	8	13	8	5	2	1	16
1	-----	7	22	27	13	70	3	7	10	12	3	3	2	20
-----	4	7	15	18	15	59	4	4	8	16	9	7	1	33
2	2	9	18	23	15	69	4	7	11	10	6	3	1	20
9	8	8	5	8	6	44	3	7	10	12	9	13	12	46
19	16	5	7	10	2	59	3	7	10	8	6	8	9	31
17	3	7	2	13	12	54	4	5	9	14	6	8	9	37
11	9	7	5	9	6	47	3	7	10	11	8	12	12	43
7	7	9	8	12	8	51	4	7	11	11	8	10	9	38
13	11	6	12	15	6	63	3	7	10	8	5	7	7	27
9	3	7	8	16	13	56	4	4	8	15	8	8	5	36
9	7	8	9	13	8	54	3	7	10	11	7	10	8	36

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 86.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTU COTTON MILL EACH SPECIFIED PERIOD OF TIME, BY SEX AND BY PAWTUCKET), 1905 TO 1907.

Sex and disease classification.	Number of decedent operatives who had been employed in cotton mill—						Total reported.
	Under 2 years.	2 and under 4 years.	4 and under 6 years.	6 and under 10 years.	10 and under 16 years.	16 and under 26 years.		26 years and over.
MALES.							
Operatives: (a)							
Tuberculous.....	19	14	20	27	21	21	5
Nontuberculous.....	30	40	27	44	31	42	61
Total, all causes.....	49	54	47	71	52	63	66
Mill workers out of mill over 2 but less than 6 years:							
Tuberculous.....	1	1	2	5	3	1	3
Nontuberculous.....	2	3	5	6	6	14	17
Total, all causes.....	3	4	7	11	9	15	20
Ex-operatives (out of mill 6 years and over):							
Tuberculous.....	4	9	11	8	5	1	3
Nontuberculous.....	6	8	17	37	15	32	37
Total, all causes.....	10	17	28	45	20	33	40
Total, males:							
Tuberculous.....	24	24	33	40	29	23	11
Nontuberculous.....	38	51	49	87	52	88	115
Total, all causes.....	62	75	82	127	81	111	126
FEMALES.							
Operatives: (a)							
Tuberculous.....	24	31	37	41	27	16	7
Nontuberculous.....	24	30	37	41	25	57	36
Total, all causes.....	48	61	74	82	52	73	43
Mill workers out of mill over 2 but less than 6 years:							
Tuberculous.....	2	4	4	12	6	5	1
Nontuberculous.....	.....	4	6	12	8	10	10
Total, all causes.....	2	8	10	24	14	15	11
Ex-operatives (out of mill 6 years and over):							
Tuberculous.....	3	3	13	15	4	8	3
Nontuberculous.....	4	23	31	77	40	61	42
Total, all causes.....	7	26	44	92	44	69	45
Total, females:							
Tuberculous.....	29	38	54	68	37	29	11
Nontuberculous.....	28	57	74	130	73	128	88
Total, all causes.....	57	95	128	198	110	157	99

a Mill workers out of mill 2 years and less.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DECEDENT OPERATIVES WHO HAD BEEN EMPLOYED IN TIME OUT OF MILL, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND

Total not reported.	Grand total.	Per cent of decedent operatives who had been employed in cotton mill—						
		Under 2 years.	2 and under 4 years.	4 and under 6 years.	6 and under 10 years.	10 and under 16 years.	16 and under 26 years.	26 years and over.
3	130	15	11	15	21	17	17	4
18	293	11	15	10	16	11	15	22
21	423	12	13	12	18	13	16	16
1	17	6	6	13	31	19	6	19
6	59	4	6	9	11	11	27	32
7	76	4	6	10	16	13	22	29
18	41	10	22	27	20	12	2	7
18	170	4	6	11	34	10	21	24
18	211	5	9	15	23	10	17	21
4	188	13	13	18	22	16	12	6
42	522	8	11	10	18	11	18	24
46	710	9	11	13	19	12	17	19
6	189	13	17	20	22	15	9	4
11	261	10	12	15	16	10	23	14
17	450	11	14	17	19	12	17	10
2	36	6	12	12	35	17	15	3
6	56	.....	8	12	24	16	20	20
8	92	2	9	12	29	17	18	13
2	51	6	6	27	31	8	16	6
48	326	2	8	11	28	14	22	15
50	377	2	8	14	28	14	21	13
10	276	11	14	20	26	14	11	4
65	643	5	10	13	22	13	22	15
75	919	7	11	15	23	13	19	12

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 86.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTU COTTON MILL EACH SPECIFIED PERIOD OF TIME, BY SEX AND BY PAWTUCKET), 1905 TO 1907—Concluded.

Sex and disease classification.	Number of decedent operatives who had been employed in cotton mill—							Total re-ported.
	Under 2 years.	2 and under 4 years.	4 and under 6 years.	6 and under 10 years.	10 and under 16 years.	16 and under 26 years.	26 years and over.	
BOTH SEXES.								
Operatives: (a)								
Tuberculous.....	43	45	57	68	48	37	12	310
Nontuberculous.....	54	70	64	85	56	99	97	525
Total, all causes.....	97	115	121	153	104	136	109	835
Mill workers out of mill over 2 but less than 6 years:								
Tuberculous.....	3	5	6	17	9	6	4	50
Nontuberculous.....	2	7	11	18	14	24	27	103
Total, all causes.....	5	12	17	35	23	30	31	153
Ex-operatives (out of mill 6 years and over):								
Tuberculous.....	7	12	24	23	9	9	6	90
Nontuberculous.....	10	31	48	114	55	93	79	430
Total, all causes.....	17	43	72	137	64	102	85	520
Total, both sexes:								
Tuberculous.....	53	62	87	108	66	52	22	450
Nontuberculous.....	66	108	123	217	125	216	203	1,058
Total, all causes.....	119	170	210	325	191	268	225	1,508

^a Mill workers out of mill 2 years and less.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DECEDENT OPERATIVES WHO HAD BEEN EMPLOYED IN TIME OUT OF MILL, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND

Total not reported.	Grand total.	Per cent of decedent operatives who had been employed in cotton mill—						
		Under 2 years.	2 and under 4 years.	4 and under 6 years.	6 and under 10 years.	10 and under 16 years.	16 and under 26 years.	26 years and over.
9	319	14	15	18	22	15	12	4
29	554	10	13	12	16	11	19	19
38	873	12	14	15	18	12	16	13
3	53	6	10	12	34	18	12	8
12	115	2	7	11	17	14	23	26
15	168	3	8	11	23	15	20	20
2	92	8	13	27	25	10	10	7
66	496	2	7	11	27	13	22	18
68	588	3	8	14	26	12	20	17
14	464	12	14	19	24	15	11	5
107	1,165	6	10	12	21	12	20	19
121	1,629	8	11	14	21	13	18	15

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 87.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTU OCCUPATION GROUPS, AND YEARS OUT OF MILL BEFORE DEATH, CHESTER, AND PAWTUCKET), 1 YEAR.

TUBERCULOUS DECEDENTS.
NUMBER.

Class, locality, and period.	Male decedents aged—							Total, 10 years of age and over.
	10 to 14 years.	15 to 24 years.	25 to 34 years.	35 to 44 years.	45 to 54 years.	55 to 64 years.	65 years and over.	
Operatives: (a)								
Fall River, 3 years.....		27	29	26	7	5		94
3 cities, 1 year.....		13	19	13	6	2		53
Mill workers out of mill over 2 but less than 6 years:								
Fall River, 3 years.....			3	2	2	4		11
3 cities, 1 year.....			3	1		1		5
Total, mill workers out of mill less than 6 years:								
Fall River, 3 years.....		27	32	28	9	9		105
3 cities, 1 year.....		13	22	14	6	3		58
Ex-operatives (out of mill 6 years and over):								
Fall River, 3 years.....			10	13	1	3	3	30
3 cities, 1 year.....			2	10	2	4	1	19
Never in mill:								
Fall River, 3 years.....			20	27	22	25	8	111
3 cities, 1 year.....			20	25	20	15	9	103
Total, ex-operatives and never in mill:								
Fall River, 3 years.....			20	37	35	26	11	141
3 cities, 1 year.....			22	35	28	19	10	122
Operatives: (a)								
Fall River, 3 years.....		27	29	26	7	5		94
3 cities, 1 year.....		13	19	13	6	2		53
Others than operatives:								
Fall River, 3 years.....		20	40	37	28	15	12	152
3 cities, 1 year.....		22	38	29	19	11	8	127
Total, operatives and others:								
Fall River, 3 years.....		47	69	63	35	20	12	246
3 cities, 1 year.....		35	57	42	25	13	8	180

PER CENT.

Operatives: (a)								
Fall River, 3 years.....		28.7	30.9	27.7	7.4	5.3		100.0
3 cities, 1 year.....		24.5	35.9	24.5	11.3	3.8		100.0
Mill workers out of mill over 2 but less than 6 years:								
Fall River, 3 years.....			27.3	18.2	18.2	36.3		100.0
3 cities, 1 year.....			60.0	20.0		20.0		100.0
Total, mill workers out of mill less than 6 years:								
Fall River, 3 years.....		25.7	30.5	26.6	8.6	8.6		100.0
3 cities, 1 year.....		22.4	37.9	24.1	10.4	5.2		100.0
Ex-operatives (out of mill 6 years and over):								
Fall River, 3 years.....			33.3	43.4	3.3	10.0	10.0	100.0
3 cities, 1 year.....			10.5	52.6	10.5	21.1	5.3	100.0
Never in mill:								
Fall River, 3 years.....			18.0	24.4	19.8	22.5	7.2	100.0
3 cities, 1 year.....			19.4	24.3	25.2	14.6	8.7	100.0
Total, ex-operatives and never in mill:								
Fall River, 3 years.....			14.2	26.3	24.8	18.4	7.8	100.0
3 cities, 1 year.....			18.0	28.7	22.9	15.6	8.2	100.0
Operatives: (a)								
Fall River, 3 years.....		28.7	30.9	27.7	7.4	5.3		100.0
3 cities, 1 year.....		24.5	35.9	24.5	11.3	3.8		100.0
Others than operatives:								
Fall River, 3 years.....		13.2	26.3	24.3	18.4	9.9	7.9	100.0
3 cities, 1 year.....		17.3	29.9	22.8	15.0	8.7	6.3	100.0
Total, operatives and others:								
Fall River, 3 years.....		19.1	28.1	25.6	14.2	8.1	4.9	100.0
3 cities, 1 year.....		19.5	31.7	23.3	13.9	7.2	4.4	100.0

* Mill workers out of mill 2 years and less.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DECEDENTS IN EACH SPECIFIED AGE GROUP, BY SEX,
FOR FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MAN-TUBERCULOUS DECEDENTS.
NUMBER.

Female decedents aged—							Total, 10 years of age and over.	Total, male and female decedents aged—							Total, 10 years of age and over.
10 to 14 years.	15 to 24 years.	25 to 34 years.	35 to 44 years.	45 to 54 years.	55 to 64 years.	65 years and over.		10 to 14 years.	15 to 24 years.	25 to 34 years.	35 to 44 years.	45 to 54 years.	55 to 64 years.	65 years and over.	
1	43 27	46 32	17 14	6 4	.....	.....	112 78	1	70 40	75 51	43 27	13 10	5 2	.....	206 131
.....	2 1	16 9	3 1	2	3 1	.....	26 12	.....	2 1	19 12	5 2	4	7 2	.....	37 17
1	45 28	62 41	20 15	8 4	3 1	.....	138 90	1	72 41	94 63	48 29	17 10	12 4	.....	243 148
.....	.....	6 6	1 3	4 1	4 4	2 2	17 16	.....	.....	16 16	14 5	5 5	7 5	5 2	47 35
8 3	17 23	17 16	7 15	11 5	3 8	2 4	65 74	8 3	37 43	44 41	29 41	36 20	11 17	11 12	176 177
8 3	17 23	23 22	8 18	15 6	7 12	4 6	82 90	8 3	37 45	60 57	43 46	41 25	18 22	16 14	223 212
1	43 27	46 32	17 14	6 4	.....	.....	112 78	1	70 40	75 51	43 27	13 10	5 2	.....	206 131
8 3	19 24	39 31	11 19	17 6	10 13	4 6	108 102	8 3	39 46	79 69	48 48	45 25	24 24	16 14	260 229
8 4	62 51	85 63	28 33	23 10	10 13	4 6	220 180	8 4	109 86	154 120	91 75	58 35	30 26	16 14	460 360

PER CENT.

1.3	38.4 34.6	41.1 41.0	15.2 18.0	5.3 5.1	.....	.....	100.0 100.0	0.8	34.0 30.6	36.4 38.9	20.9 20.6	6.3 7.6	2.4 1.5	.....	100.0 100.0
.....	7.7 8.3	61.6 75.0	11.5 8.3	7.7	11.5 8.4	.....	100.0 100.0	.....	5.4 5.8	51.4 70.6	13.5 11.8	10.8	18.9 11.8	.....	100.0 100.0
1.1	32.6 31.1	44.9 45.6	14.5 16.7	5.8 4.4	2.2 1.1	.....	100.0 100.0	.....	29.6 27.7	38.7 42.6	19.8 19.6	7.0 6.7	4.9 2.7	.....	100.0 100.0
.....	.....	35.3 37.5	5.9 18.8	23.5 6.2	23.5 25.0	11.8 12.5	100.0 100.0	.....	.....	34.1 45.7	29.8 14.3	10.6 14.3	14.9 14.3	10.6 5.7	100.0 100.0
12.3 4.0	26.2 31.1	26.2 21.6	10.7 20.3	16.9 6.8	4.6 10.8	3.1 5.4	100.0 100.0	4.5 1.7	21.0 24.3	25.0 23.2	16.4 23.2	20.5 11.3	6.3 9.6	6.3 6.7	100.0 100.0
9.8 3.3	20.7 25.6	28.0 24.4	9.8 20.0	18.3 6.7	8.5 13.3	4.9 6.7	100.0 100.0	3.6 1.4	16.6 21.2	26.9 26.9	19.3 21.7	18.4 11.8	8.0 10.4	7.2 6.6	100.0 100.0
1.3	38.4 34.6	41.1 41.0	15.2 18.0	5.3 5.1	.....	.....	100.0 100.0	.....	34.0 30.6	36.4 38.9	20.9 20.6	6.3 7.6	2.4 1.5	.....	100.0 100.0
7.4 2.9	17.6 23.5	36.1 30.4	10.2 18.6	15.7 5.9	9.3 12.8	3.7 5.9	100.0 100.0	3.1 1.3	15.0 20.1	30.4 30.1	18.5 21.0	17.3 10.9	9.6 10.5	6.1 6.1	100.0 100.0
3.6 2.2	28.2 28.4	38.6 35.0	12.7 18.3	10.5 5.6	4.6 7.2	1.8 3.3	100.0 100.0	1.7 1.1	23.4 23.9	33.1 33.3	19.5 20.9	12.5 9.7	6.4 7.2	3.4 3.9	100.0 100.0

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 87.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTU OCCUPATION GROUPS, AND YEARS OUT OF MILL BEFORE DEATH, CHESTER AND PAWTUCKET, 1 YEAR—Continued.

NONTUBERCULOUS DECEDENTS.

NUMBER.

Class, locality, and period.	Male decedents aged—							Total, 10 years of age and over.
	10 to 14 years.	15 to 24 years.	25 to 34 years.	35 to 44 years.	45 to 54 years.	55 to 64 years.	65 years and over.	
Operatives: (a)								
Fall River, 3 years.....	3	37	33	27	36	37	20	193
3 cities, 1 year.....	3	26	20	15	18	21	18	121
Mill workers out of mill over 2 but less than 6 years:								
Fall River, 3 years.....			6	5	8	10	18	47
3 cities, 1 year.....		1	2	2	2	5	10	22
Total, mill workers out of mill less than 6 years:								
Fall River, 3 years.....	3	37	39	32	44	47	38	240
3 cities, 1 year.....	3	27	22	17	20	26	28	143
Ex-operatives (out of mill 6 years and over):								
Fall River, 3 years.....		3	7	8	18	34	70	140
3 cities, 1 year.....		2	5	5	12	17	40	81
Never in mill:								
Fall River, 3 years.....	33	36	55	91	116	180	247	758
3 cities, 1 year.....	23	47	72	77	98	160	243	720
Total, ex-operatives and never in mill:								
Fall River, 3 years.....	33	39	62	99	134	214	317	898
3 cities, 1 year.....	23	49	77	82	110	177	283	801
Operatives: (a)								
Fall River, 3 years.....	3	37	33	27	36	37	20	193
3 cities, 1 year.....	3	26	20	15	18	21	18	121
Others than operatives:								
Fall River, 3 years.....	33	39	68	104	142	224	335	945
3 cities, 1 year.....	23	50	79	84	112	182	293	823
Total, operatives and others:								
Fall River, 3 years.....	36	76	101	131	178	261	355	1,138
3 cities, 1 year.....	26	76	99	99	130	203	311	944

PER CENT.

Operatives: (a)								
Fall River, 3 years.....	1.5	19.2	17.1	14.0	18.6	19.2	10.4	100.0
3 cities, 1 year.....	2.5	21.5	16.5	12.4	14.9	17.3	14.9	100.0
Mill workers out of mill over 2 but less than 6 years:								
Fall River, 3 years.....			12.8	10.6	17.0	21.3	38.3	100.0
3 cities, 1 year.....		4.5	9.1	9.1	9.1	22.7	45.5	100.0
Total, mill workers out of mill less than 6 years:								
Fall River, 3 years.....	1.3	15.4	16.3	13.3	18.3	19.6	15.8	100.0
3 cities, 1 year.....	2.1	18.9	15.4	11.9	14.0	18.2	19.5	100.0
Ex-operatives (out of mill 6 years and over):								
Fall River, 3 years.....		2.1	5.0	5.7	12.9	24.3	50.0	100.0
3 cities, 1 year.....		2.4	6.2	6.2	14.8	21.0	49.4	100.0
Never in mill:								
Fall River, 3 years.....	4.4	4.7	7.3	12.0	15.3	23.7	32.6	100.0
3 cities, 1 year.....	3.2	6.5	10.0	10.7	13.6	22.2	33.8	100.0
Total, ex-operatives and never in mill:								
Fall River, 3 years.....	3.7	4.4	6.9	11.0	14.9	23.8	35.3	100.0
3 cities, 1 year.....	2.9	6.1	9.6	10.3	13.7	22.1	35.3	100.0
Operatives: (a)								
Fall River, 3 years.....	1.5	19.2	17.1	14.0	18.6	19.2	10.4	100.0
3 cities, 1 year.....	2.5	21.5	16.5	12.4	14.9	17.3	14.9	100.0
Others than operatives:								
Fall River, 3 years.....	3.5	4.1	7.2	11.0	15.0	23.7	35.5	100.0
3 cities, 1 year.....	2.8	6.1	9.6	10.2	13.6	22.1	35.6	100.0
Total, operatives and others:								
Fall River, 3 years.....	3.2	6.7	8.9	11.5	15.6	22.9	31.2	100.0
3 cities, 1 year.....	2.8	8.0	10.5	10.5	13.8	21.5	32.9	100.0

* Mill workers out of mill 2 years and less.

AGES 10 YEAR AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DECEDENTS IN EACH SPECIFIED AGE GROUP, BY SEX, FOR FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MAN-

NONTUBERCULOUS DECEDENTS.

NUMBER.

Female decedents aged—							Total, 10 years of age and over.	Total, male and female decedents aged—							Total, 10 years of age and over.
10 to 14 years.	15 to 24 years.	25 to 34 years.	35 to 44 years.	45 to 54 years.	55 to 64 years.	65 years and over.		10 to 14 years.	15 to 24 years.	25 to 34 years.	35 to 44 years.	45 to 54 years.	55 to 64 years.	65 years and over.	
1	53	44	50	24	13	2	187	4	90	77	77	60	50	22	380
1	28	21	22	19	9	1	101	4	54	41	37	37	30	19	222
.....	1	12	10	6	5	4	38	.....	1	18	15	14	15	22	85
.....	1	8	5	4	4	2	24	.....	2	10	7	6	9	12	46
1	54	56	60	30	18	6	225	4	91	95	92	74	65	44	465
1	29	29	27	23	13	3	125	4	56	51	44	43	39	31	268
.....	.....	17	25	41	88	86	257	.....	3	24	33	59	122	156	397
.....	.....	14	11	34	39	93	191	.....	2	19	16	46	56	133	272
23	34	57	72	124	208	350	868	56	70	112	163	240	388	597	1,626
24	31	50	67	96	146	316	730	47	78	122	144	194	306	559	1,450
23	34	74	97	165	296	436	1,125	56	73	136	196	299	510	753	2,023
24	31	64	78	130	185	409	921	47	80	141	160	240	362	692	1,722
1	53	44	50	24	13	2	187	4	90	77	77	60	50	22	380
1	28	21	22	19	9	1	101	4	54	41	37	37	30	19	222
23	35	86	107	171	301	440	1,163	56	74	154	211	313	525	775	2,108
24	32	72	83	134	189	411	945	47	82	151	167	246	371	704	1,768
24	88	130	157	195	314	442	1,350	60	164	231	288	373	575	797	2,488
25	60	93	105	153	198	412	1,046	51	136	192	204	283	401	723	1,990

PER CENT.

0.5	28.4	23.5	26.7	12.8	7.0	1.1	100.0	1.0	23.7	20.3	20.3	15.8	13.1	5.8	100.0
1.0	27.7	20.8	21.8	18.8	8.9	1.0	100.0	1.8	24.3	18.4	16.7	16.7	13.5	8.6	100.0
.....	2.6	31.6	26.3	15.8	13.2	10.5	100.0	.....	1.2	21.2	17.6	16.5	17.6	25.9	100.0
.....	4.2	33.3	20.8	16.7	16.7	8.3	100.0	.....	4.3	21.7	15.2	13.1	19.6	26.1	100.0
.4	24.0	24.9	26.7	13.3	8.0	2.7	100.0	.9	19.6	20.4	19.8	15.9	14.0	9.4	100.0
.8	23.2	23.2	21.6	18.4	10.4	2.4	100.0	1.5	20.9	19.0	16.4	16.0	14.6	11.6	100.0
.....	.....	6.6	9.7	16.0	34.2	33.5	100.0	.....	.8	6.0	8.3	14.9	30.7	39.3	100.0
.....	.....	7.3	5.8	17.8	20.4	48.7	100.0	.....	.7	7.0	5.9	16.9	20.6	48.9	100.0
2.6	3.9	6.6	8.3	14.3	24.0	40.3	100.0	3.4	4.3	6.9	10.0	14.8	23.9	36.7	100.0
3.3	4.2	6.8	9.2	13.2	20.0	43.3	100.0	3.2	5.4	8.4	9.9	13.4	21.1	38.6	100.0
2.0	3.0	6.6	8.6	14.7	26.3	38.8	100.0	2.8	3.6	6.7	9.7	14.8	25.2	37.2	100.0
2.6	3.4	6.9	8.5	14.1	20.1	44.4	100.0	2.7	4.7	8.2	9.3	13.9	21.0	40.2	100.0
.5	28.4	23.5	26.7	12.8	7.0	1.1	100.0	1.0	23.7	20.3	20.3	15.8	13.1	5.8	100.0
1.0	27.7	20.8	21.8	18.8	8.9	1.0	100.0	1.8	24.3	18.4	16.7	16.7	13.5	8.6	100.0
2.0	3.0	7.4	9.2	14.7	25.9	37.8	100.0	2.6	3.5	7.3	10.0	14.9	24.9	36.8	100.0
2.5	3.4	7.6	8.8	14.2	20.0	43.5	100.0	2.7	4.6	8.5	9.5	13.9	21.0	39.8	100.0
1.8	6.5	9.6	11.6	14.5	23.3	32.7	100.0	2.4	6.6	9.3	11.6	15.0	23.1	32.0	100.0
2.4	5.7	8.9	10.1	14.6	18.9	39.4	100.0	2.6	6.8	9.6	10.3	14.2	20.2	36.3	100.0

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 87.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS OCCUPATION GROUPS, AND YEARS OUT OF MILL BEFORE DEATH, CHESTER AND PAWTUCKET), 1 YEAR—Concluded.

TUBERCULOUS AND NONTUBERCULOUS DECEDENTS.

NUMBER.

Class, locality, and period.	Male decedents aged—							Total, 10 years of age and over.
	10 to 14 years.	15 to 24 years.	25 to 34 years.	35 to 44 years.	45 to 54 years.	55 to 64 years.	65 years and over.	
Operatives: (a)								
Fall River, 3 years.....	3	64	62	53	43	42	20	287
3 cities, 1 year.....	3	39	39	28	24	23	18	174
Mill workers out of mill over 2 but less than 6 years:								
Fall River, 3 years.....			9	7	10	14	18	58
3 cities, 1 year.....		1	5	3	2	6	10	27
Total, mill workers out of mill less than 6 years:								
Fall River, 3 years.....	3	64	71	60	53	56	38	345
3 cities, 1 year.....	3	40	44	31	26	29	28	201
Ex-operatives (out of mill 6 years and over):								
Fall River, 3 years.....		3	17	21	19	37	73	170
3 cities, 1 year.....		4	15	7	16	18	40	100
Never in mill:								
Fall River, 3 years.....	33	56	82	113	141	188	256	869
3 cities, 1 year.....	23	67	97	103	113	160	251	823
Total, ex-operatives and never in mill:								
Fall River, 3 years.....	33	59	99	134	160	225	329	1,039
3 cities, 1 year.....	23	71	112	110	129	187	291	923
Operatives: (a)								
Fall River, 3 years.....	3	64	62	53	43	42	20	287
3 cities, 1 year.....	3	39	39	28	24	23	18	174
Others than operatives:								
Fall River, 3 years.....	33	59	108	141	170	239	347	1,097
3 cities, 1 year.....	23	72	117	113	131	193	301	950
Total, operatives and others:								
Fall River, 3 years.....	36	123	170	194	213	281	367	1,384
3 cities, 1 year.....	26	111	156	141	155	216	319	1,124

PER CENT.

Operatives: (a)								
Fall River, 3 years.....	1.0	22.3	21.6	18.5	15.0	14.6	7.0	100.0
3 cities, 1 year.....	1.7	22.4	22.4	16.1	13.8	13.2	10.4	100.0
Mill workers out of mill over 2 but less than 6 years:								
Fall River, 3 years.....			15.5	12.1	17.3	24.1	31.0	100.0
3 cities, 1 year.....		3.7	18.5	11.1	7.4	22.2	37.0	100.0
Total, mill workers out of mill less than 6 years:								
Fall River, 3 years.....	.9	18.5	20.6	17.4	15.4	16.2	11.0	100.0
3 cities, 1 year.....	1.5	19.9	21.9	15.4	13.0	14.4	13.9	100.0
Ex-operatives (out of mill 6 years and over):								
Fall River, 3 years.....		1.8	10.0	12.3	11.2	21.8	42.9	100.0
3 cities, 1 year.....		4.0	15.0	7.0	16.0	18.0	40.0	100.0
Never in mill:								
Fall River, 3 years.....	3.8	6.5	9.4	13.0	16.2	21.6	29.5	100.0
3 cities, 1 year.....	2.8	8.2	11.8	12.5	13.7	20.5	30.5	100.0
Total, ex-operatives and never in mill:								
Fall River, 3 years.....	3.2	5.7	9.5	12.9	15.4	21.6	31.7	100.0
3 cities, 1 year.....	2.5	7.7	12.1	11.9	14.0	20.3	31.5	100.0
Operatives: (a)								
Fall River, 3 years.....	1.0	22.3	21.6	18.5	15.0	14.6	7.0	100.0
3 cities, 1 year.....	1.7	22.4	22.4	16.1	13.8	13.2	10.4	100.0
Others than operatives:								
Fall River, 3 years.....	3.0	5.4	9.8	12.9	15.5	21.8	31.6	100.0
3 cities, 1 year.....	2.4	7.6	12.3	11.9	13.8	20.3	31.7	100.0
Total, operatives and others:								
Fall River, 3 years.....	2.6	8.9	12.3	14.0	15.4	20.3	26.5	100.0
3 cities, 1 year.....	2.3	9.9	13.9	12.5	13.8	19.2	28.4	100.0

* Mill workers out of mill 2 years and less.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

BERCULOUS DECEDENTS IN EACH SPECIFIED AGE GROUP, BY SEX, FOR FALL RIVER, 1905 TO 1907, AND 3 CITIES (FALL RIVER, MAN-

TUBERCULOUS AND NONTUBERCULOUS DECEDENTS.
NUMBER.

Female decedents aged—							Total, 10 years of age and over.	Total, male and female decedents aged—							Total, 10 years of age and over.
10 to 14 years.	15 to 24 years.	25 to 34 years.	35 to 44 years.	45 to 54 years.	55 to 64 years.	65 years and over.		10 to 14 years.	15 to 24 years.	25 to 34 years.	35 to 44 years.	45 to 54 years.	55 to 64 years.	65 years and over.	
1	96	90	67	30	13	2	299	4	160	152	120	73	55	22	586
2	55	53	36	23	9	1	179	5	94	92	64	47	32	19	353
.....	3	28	13	8	8	4	64	.....	3	37	20	18	22	22	122
.....	2	17	6	4	5	2	36	.....	3	22	9	6	11	12	63
1	99	118	80	38	21	6	363	4	163	189	140	91	77	44	708
2	57	70	42	27	14	3	215	5	97	114	73	53	43	31	416
.....	.....	23	26	45	92	88	274	.....	3	40	47	64	129	161	444
.....	.....	20	14	35	43	95	207	.....	4	35	21	51	61	135	307
31	51	74	79	135	211	352	933	64	107	156	192	276	399	008	1,802
27	54	66	82	101	154	320	804	50	121	163	185	214	323	571	1,627
31	51	97	105	180	303	440	1,207	64	110	196	239	340	528	769	2,246
27	54	86	96	136	197	415	1,011	50	125	198	206	265	384	706	1,934
1	96	90	67	30	13	2	299	4	160	152	120	73	55	22	586
2	55	53	36	23	9	1	179	5	94	92	64	47	32	19	363
31	54	125	118	188	311	444	1,271	64	113	233	259	358	550	791	2,368
27	56	103	102	140	202	417	1,047	50	128	220	215	271	395	718	1,997
32	150	215	185	218	324	446	1,570	68	273	385	379	431	605	813	2,954
29	111	156	138	163	211	418	1,226	55	222	312	279	318	427	737	2,350

PER CENT.

0.3	32.1	30.1	22.4	10.0	4.4	0.7	100.0	0.7	27.3	25.9	20.5	12.5	9.4	3.7	100.0
1.1	30.7	29.6	20.1	12.9	5.0	.6	100.0	1.4	26.6	26.1	18.1	13.3	9.1	5.4	100.0
.....	4.6	43.8	20.3	12.5	12.5	6.3	100.0	.....	2.5	30.3	16.4	14.8	18.0	18.0	100.0
.....	5.6	47.2	16.6	11.1	13.9	5.6	100.0	.....	4.8	34.9	14.3	9.5	17.5	19.0	100.0
.3	27.3	32.5	22.0	10.5	5.8	1.6	100.0	.6	23.0	26.7	19.8	12.8	10.9	6.2	100.0
.9	26.5	32.6	19.5	12.6	6.5	1.4	100.0	1.2	23.3	27.4	17.6	12.7	10.3	7.5	100.0
.....	.....	8.4	9.5	16.4	33.6	32.1	100.0	.....	.7	9.0	10.6	14.4	29.0	36.3	100.0
.....	.....	9.6	6.8	16.9	20.8	45.9	100.0	.....	1.3	11.4	6.8	16.6	19.9	44.0	100.0
3.3	5.5	7.9	8.5	14.5	22.6	37.7	100.0	3.6	5.9	8.7	10.7	15.3	22.1	33.7	100.0
3.4	6.7	8.2	10.2	12.6	19.1	39.8	100.0	3.1	7.4	10.0	11.4	13.2	19.8	35.1	100.0
2.6	4.2	8.0	8.7	14.9	25.1	36.5	100.0	2.9	4.9	8.7	10.7	15.1	23.5	34.2	100.0
2.7	5.3	8.5	9.5	13.5	19.5	41.0	100.0	2.6	6.5	10.2	10.6	13.7	19.9	36.5	100.0
.3	32.1	30.1	22.4	10.0	4.4	.7	100.0	.7	27.3	25.9	20.5	12.5	9.4	3.7	100.0
1.1	30.7	29.6	20.1	12.9	5.0	.6	100.0	1.4	26.6	26.1	18.1	13.3	9.1	5.4	100.0
2.4	4.3	9.8	9.3	14.8	24.5	34.9	100.0	2.7	4.8	9.9	10.9	15.1	23.2	33.4	100.0
2.6	5.4	9.8	9.7	13.4	19.3	39.8	100.0	2.5	6.4	11.0	10.8	13.6	19.8	35.9	100.0
2.0	9.6	13.7	11.8	13.9	20.6	28.4	100.0	2.3	9.3	13.0	12.8	14.6	20.5	27.5	100.0
2.4	9.0	12.7	11.3	13.3	17.2	34.1	100.0	2.3	9.4	13.3	11.9	13.5	18.2	31.4	100.0

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 88.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHOSE CHILDHOOD ENVIRONMENT WAS URBAN, BY RACE AND SEX AND BY OCCUPATION GROUPS, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

NUMBER.

Sex, occupation group, and disease classification.	Decedents whose childhood environment was urban.					
	American.	English.	Irish.	French Canadian.	Other races.	All races.
MALES.						
Operatives:						
Tuberculous.....	6	11	13	3	6	39
Nontuberculous.....	12	31	19	7	7	76
Total, all causes.....	18	42	32	10	13	115
Nonoperatives:						
Tuberculous.....	36	22	80	9	6	153
Nontuberculous.....	210	144	134	46	24	558
Total, all causes.....	246	166	214	55	30	711
Both classes:						
Tuberculous.....	42	33	93	12	12	192
Nontuberculous.....	222	175	153	53	31	634
Total, all causes.....	264	208	246	65	43	826
FEMALES.						
Operatives:						
Tuberculous.....	8	9	39	11	2	69
Nontuberculous.....	11	29	32	10	3	85
Total, all causes.....	19	38	71	21	5	154
Nonoperatives:						
Tuberculous.....	25	16	31	10	4	86
Nontuberculous.....	304	193	222	52	20	791
Total, all causes.....	329	209	253	62	24	877
Both classes:						
Tuberculous.....	33	25	70	21	6	155
Nontuberculous.....	315	222	254	62	23	876
Total, all causes.....	348	247	324	83	29	1,03
BOTH SEXES.						
Operatives:						
Tuberculous.....	14	20	52	14	8	108
Nontuberculous.....	23	60	51	17	10	161
Total, all causes.....	37	80	103	31	18	269
Nonoperatives:						
Tuberculous.....	61	38	111	19	10	239
Nontuberculous.....	514	337	356	98	44	1,349
Total, all causes.....	575	375	467	117	54	1,588
Both classes:						
Tuberculous.....	75	58	163	33	18	347
Nontuberculous.....	537	397	407	115	54	1,510
Total, all causes.....	612	455	570	148	72	1,857

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 88.—NUMBER AND PER CENT OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS WHOSE CHILDHOOD ENVIRONMENT WAS URBAN, BY RACE AND SEX AND BY OCCUPATION GROUPS, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907—Concluded.

PER CENT.

Sex, occupation group, and disease classification.	Decedents whose childhood environment was urban.					
	American.	English.	Irish.	French Canadian.	Other races.	All races.
MALES.						
Operatives:						
Tuberculous.....	75	52	50	11	30	38
Nontuberculous.....	40	51	32	16	20	33
* Total, all causes.....	47	51	38	14	24	35
Nonoperatives:						
Tuberculous.....	61	55	58	18	30	50
Nontuberculous.....	40	42	23	13	18	29
Total, all causes.....	42	44	29	14	20	32
Both classes:						
Tuberculous.....	63	54	56	16	30	47
Nontuberculous.....	40	44	24	14	18	29
Total, all causes.....	42	45	30	14	21	32
FEMALES.						
Operatives:						
Tuberculous.....	67	39	66	19	15	42
Nontuberculous.....	58	59	45	19	14	40
Total, all causes.....	61	53	55	19	15	41
Nonoperatives:						
Tuberculous.....	57	47	46	18	20	39
Nontuberculous.....	46	55	33	12	20	36
Total, all causes.....	46	55	34	13	20	36
Both classes:						
Tuberculous.....	59	44	55	18	18	40
Nontuberculous.....	46	56	34	13	19	36
Total, all causes.....	47	54	37	14	19	37
BOTH SEXES.						
Operatives:						
Tuberculous.....	70	45	61	16	24	40
Nontuberculous.....	47	55	39	17	18	36
Total, all causes.....	54	52	48	17	20	38
Nonoperatives:						
Tuberculous.....	59	51	54	18	25	45
Nontuberculous.....	43	49	28	13	19	33
Total, all causes.....	44	49	32	13	20	34
Both classes:						
Tuberculous.....	61	49	56	17	25	43
Nontuberculous.....	43	50	29	13	19	33
Total, all causes.....	45	50	34	14	20	34

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 89.—NUMBER AND AVERAGE AGE AT DEATH OF DECEDENT OPERATIVES, BY SEX AND BY SPECIFIED CAUSE OF DEATH, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR AND 3 YEARS.

Cause of death, locality, and period.	Number of deaths.			Average age at death.		
	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.
Accident or violence:						
Fall River.....	13	2	15	31	32	31
3 cities.....	32	5	37	34	34	34
Fall River.....	20	5	25	35	36	35
3 cities.....	44	11	55	35	34	35
Senility:						
Fall River.....	1		1	71		71
3 cities.....	1		1	71		71
Fall River.....	1		1	71		71
3 cities.....	1		1	71		71
Unclassified diseases:						
Fall River.....	6		6	46		46
3 cities.....	18	10	28	41	23	35
Fall River.....	8	2	10	46	31	43
3 cities.....	30	16	46	47	29	41
Parturition:						
Fall River.....		12	12		28	28
3 cities.....		26	26		28	28
Fall River.....		15	15		27	27
3 cities.....		31	31		27	27
Cancer:						
Fall River.....	7	5	12	55	44	50
3 cities.....	11	14	25	55	38	45
Fall River.....	8	6	14	54	44	50
3 cities.....	15	21	36	54	44	48
Diseases of the nervous system:						
Fall River.....	5	5	10	19	34	27
3 cities.....	9	10	19	28	29	29
Fall River.....	9	9	18	27	28	28
3 cities.....	20	19	39	33	28	31
Diseases of the digestive system:						
Fall River.....	11	11	22	40	29	35
3 cities.....	27	27	54	40	32	36
Fall River.....	14	12	26	41	31	36
3 cities.....	32	30	62	40	31	36
Nephritis:						
Fall River.....	10	13	23	44	33	38
3 cities.....	26	33	59	46	40	43
Fall River.....	17	16	33	43	36	40
3 cities.....	42	40	82	48	40	44
Apoplexy:						
Fall River.....	7	3	10	51	37	47
3 cities.....	11	8	19	52	44	49
Fall River.....	12	4	16	50	33	46
3 cities.....	23	12	35	56	42	51
Heart disease:						
Fall River.....	6	4	10	52	51	52
3 cities.....	26	17	43	47	40	44
Fall River.....	15	-10	25	52	44	49
3 cities.....	44	22	73	49	41	46

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 89.—NUMBER AND AVERAGE AGE AT DEATH OF DECEDENT OPERATIVES, BY SEX AND BY SPECIFIED CAUSE OF DEATH, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1 YEAR AND 3 YEARS—Concluded.

Cause of death, locality, and period.	Number of deaths.			Average age at death.		
	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.
Nontuberculous respiratory diseases:						
Fall River.....	12	15	27	33	33	33
3 cities.....	32	37	69	42	31	36
	17	22	39	35	37	36
	42	52	94	42	33	37
Total, nontuberculous diseases:						
Fall River.....	78	70	148	40	34	37
3 cities.....	193	187	380	42	34	38
	121	101	222	42	34	38
	293	261	554	44	35	40
Tuberculosis:						
Fall River.....	40	47	87	34	28	31
3 cities.....	94	112	206	34	28	31
	53	78	131	34	28	30
	130	189	319	35	28	31
Total, respiratory diseases:						
Fall River.....	52	62	114	34	29	31
3 cities.....	126	149	275	36	29	32
	70	100	170	34	30	32
	172	241	413	37	29	32
Total, nonrespiratory diseases:						
Fall River.....	66	55	121	42	34	38
3 cities.....	161	150	311	43	35	39
	104	79	183	43	34	39
	251	209	460	45	35	40
Total, all causes:						
Fall River.....	118	117	235	38	32	35
3 cities.....	287	299	586	40	32	36
	174	179	353	40	32	36
	423	450	873	41	32	36

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 90.—NUMBER AND AVERAGE AGE AT DEATH OF TUBERCULOUS AND NONTUBERCULOUS DECEDENTS, BY SEX AND BY YEARS OUT OF MILL, FALL RIVER AND 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Classified cause of death and locality.	Number.			Average age.		
	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.
OPERATIVES. (a)						
Tuberculous:						
Fall River.....	94	112	206	34	28	31
3 cities.....	130	189	319	35	28	31
Nontuberculous:						
Fall River.....	193	187	380	42	34	38
3 cities.....	293	261	554	44	35	40
Total, all causes:						
Fall River.....	287	299	586	40	32	36
3 cities.....	423	450	873	41	32	36
MILL WORKERS OUT OF MILL OVER 2 BUT LESS THAN 6 YEARS.						
Tuberculous:						
Fall River.....	11	26	37	45	34	37
3 cities.....	17	36	53	42	33	34
Nontuberculous:						
Fall River.....	47	38	85	56	43	50
3 cities.....	59	56	115	57	41	49
Total, all causes:						
Fall River.....	58	64	122	54	39	47
3 cities.....	76	92	168	54	38	44
EX-OPERATIVES (OUT OF MILL 6 YEARS AND OVER.)						
Tuberculous:						
Fall River.....	30	17	47	35	47	39
3 cities.....	41	51	92	36	44	40
Nontuberculous:						
Fall River.....	140	257	397	61	59	60
3 cities.....	170	326	496	62	59	60
Total, all causes:						
Fall River.....	170	274	444	61	59	60
3 cities.....	211	377	588	57	57	57
NEVER IN MILL.						
Tuberculous:						
Fall River.....	111	65	176	39	31	36
3 cities.....	297	192	489	38	35	36
Nontuberculous:						
Fall River.....	758	868	1,626	(b)	58	56
3 cities.....	(b)	(b)	(b)	(b)	(b)	(b)
Total, all causes:						
Fall River.....	869	933	1,802	53	56	54
3 cities.....	(b)	(b)	(b)	(b)	(b)	(b)
ALL CLASSES.						
Tuberculous:						
Fall River.....	246	220	466	37	31	34
3 cities.....	485	468	953	37	33	35
Nontuberculous:						
Fall River.....	1,138	1,350	2,488	53	54	54
3 cities.....	(b)	(b)	(b)	(b)	(b)	(b)
Total, all causes:						
Fall River.....	1,384	1,570	2,954	50	51	51
3 cities.....	(b)	(b)	(b)	(b)	(b)	(b)

a Mill workers out of mill 2 years and less.

b Not reported.

AGES 10 YEARS AND OVER—MISCELLANEOUS FACTORS.

TABLE 91.—AVERAGE AGE AT DEATH OF TUBERCULOUS AND NON-TUBERCULOUS DECEDENT MILL WORKERS, BY SEX, LENGTH OF TIME OUT OF MILL, AND OCCUPATION, FOR 3 CITIES (FALL RIVER, MANCHESTER, AND PAWTUCKET), 1905 TO 1907.

Sex and classified cause of death.	Average age at death of decedents who had been employed as—								Total.	
	Pick-ers.	Card-ers and speed-ers.	Dof-ers.	Spin-ers.	Slash-ers and spool-ers.	Loom fix-ers.	Weav-ers.	Cloth-room hands.		Un-specified employ-ees.
MALES.										
Tuberculous:										
Operatives (a).....	44	40	24	32	34	42	35	28	41	35
Workers out of mill over 2 and under 6 years.....		42		51			42	42	35	42
Ex-operatives (out of mill 6 years and over).....	39	36	33	40	39		37		35	36
Nontuberculous:										
Operatives (a).....	41	43	20	46	57	46	45	41	45	44
Workers out of mill over 2 and under 6 years.....	60	52		54	61	57	64	48	52	57
Ex-operatives (out of mill 6 years and over).....	63	61	37	63	59	64	60	70	68	62
Tuberculous and nontuberculous:										
Operatives (a).....	42	42	22	42	51	44	42	37	44	41
Workers out of mill over 2 and under 6 years.....	60	49		54	61	57	58	45	44	54
Ex-operatives (out of mill 6 years and over).....	60	57	34	61	52	64	56	70	57	57
FEMALES.										
Tuberculous:										
Operatives (a).....		29	20	27	24		31	26	30	28
Workers out of mill over 2 and under 6 years.....		43	28	31	28		34	27	51	33
Ex-operatives (out of mill 6 years and over).....		50		32	41		45	44	44	44
Nontuberculous:										
Operatives (a).....		38	18	26	33		39	28	38	37
Workers out of mill over 2 and under 6 years.....		42		35	35		44	39	56	42
Ex-operatives (out of mill 6 years and over).....		58	28	52	58		60	54	64	59
Tuberculous and nontuberculous:										
Operatives (a).....		34	19	28	29		36	28	34	33
Workers out of mill over 2 and under 6 years.....		42	28	33	30		42	33	54	38
Ex-operatives (out of mill 6 years and over).....		57	28	51	53		59	53	60	57
BOTH SEXES.										
Tuberculous:										
Operatives (a).....	44	31	23	29	25	42	33	26	36	31
Workers out of mill over 2 and under 6 years.....		43	28	38	28		37	35	42	34
Ex-operatives (out of mill 6 years and over).....	39	46	33	39	41		41	44	40	40
Nontuberculous:										
Operatives (a).....	41	40	19	37	39	46	42	33	44	40
Workers out of mill over 2 and under 6 years.....	60	46		48	39	57	51	44	54	49
Ex-operatives (out of mill 6 years and over).....	63	59	34	60	58	64	60	56	65	60
Tuberculous and nontuberculous:										
Operatives (a).....	42	37	21	37	33	44	39	30	41	36
Workers out of mill over 2 and under 6 years.....	60	45	28	45	32	57	43	40	48	44
Ex-operatives (out of mill 6 years and over).....	60	57	33	58	53	64	58	55	59	57

* Mill workers out of mill 2 years and less.

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