FIFTY-EIGHTH ANNUAL REPORT

OF THE

Department of Health

OF THE

STATE OF NEW JERSEY

1935



PROPERTY
OF THE
STATE DEPT OF HEALTH
OF
NEW JERSEY.

Bureau of Vital Statistic Mr. Scott V.S. 614.091 V.S. 614.091

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Department of Health of the State of New Jersey

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|--|
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J. LYNN MAHAFFEY, M.D., Director

The offices of the Department are in the State House, Trenton

STATE OF NEW JERSEY,

DEPARTMENT OF HEALTH,

TRENTON, N. J., August 16, 1935.

To the Senate and General Assembly of the State of New Jersey:

As required by law, I have the honor of submitting herewith the Annual Report of the Department of Health, together with accompanying important documents, for the fiscal year ending June 30, 1935

S. A. COSGROVE, M.D.,

President,

State Department of Health.

STATE OF NEW JERSEY,

DEPARTMENT OF HEALTH,

TRENTON, N. J., August 16, 1935.

To the Department of Health of the State of New Jersey:

Gentlemen—I have the honor to submit herewith the Annual Report of the Department for the year ending June 30, 1935. The reports of the Bureau Chiefs will give comprehensive accounts of the activities of the ten Bureaus of the Department during the year.

Respectfully submitted,

J. LYNN MAHAFFEY, M.D., Director of Health.

Report of the Director of Health

J. LYNN MAHAFFEY, M.D.

This report shows what can be done with ten cents per capita when expended to give public health service throughout the State. No claim is made that the service rendered was adequate to the needs of the times, but, considering the funds available and the limitations placed upon the use of some of them, the Department feels that it can give a good account of its stewardship.

The functions of the State Department of Health include the enforcement, in whole or in part, of some 175 health laws, the control of thirty-five communicable diseases, the supervision of 311 public water supplies, and 182 sewage disposal plants. Inspections must be made of places where milk, other foods and non-alcoholic beverages are produced, stored, processed and manufactured, numbering many thousands.

Inspections are also required of several thousand barber shops. Another duty of the Department is helping 564 local boards of health solve some of their difficult problems.

In health education, the Department conducts a broad program dealing with child and maternal health and welfare, with preventing and controlling venereal diseases, with developing a constructive attitude toward healthy living on the part of the public generally and with increasing the technical knowledge of public health employees in New Jersey.

To carry out these functions in the year which ended June 30, 1935, the Department used the services of 195 employees and expended \$464,193. Of this amount, \$349,974.21 was spent for salaries. The average yearly salary of thirty-five technically educated and trained employees, including sanitary engineers, epidemiologists, veterinarians, chemists, district health officers and bacteriologists, was \$2,648. The average salary for the Department as a whole, from Director to office boy, was \$1,794.74.

THINGS PREVENTED ARE HARD TO TABULATE

The best results of public health activity are the events that never occur—epidemics averted, sporadic cases of disease prevented, causes of ill health removed and thus having no effect. These achievements cannot be tabulated, but their results can be shown to some extent. For example, had the death rates of 1910 prevailed last year, the following numbers of persons who are alive today would have died in 1934: of diphtheria, 1,158; of tuberculosis, 4,234, and of typhoid fever, 604. Meanwhile, the infant mortality rate has been reduced in New Jersey from 155 to 48 per thousand live births in twenty-five years. These achievements can be viewed with profound satisfaction.

Work done by the Department's staff during the last fiscal year and which can easily be tabulated included:

| 22,800 |
|---------|
| 108,402 |
| 13,666 |
| 65,296 |
| |
| 127,379 |
| 768 |
| |
| 4,978 |
| 384 |
| |
| 180 |
| |

Work of the child hygiene nurses is not included in the summary shown above since most of these nurses are paid from local funds, although their work is supervised by the State Department of Health.

These and numerous other matters are listed and discussed in the reports of the ten Bureau chiefs which follow this record.

NOTEWORTHY FACTS

Some events of the year should receive special mention. The two principal epidemics of the year were: One caused by eating cream puffs and one of cowpox. At least 100 persons were made

ill by the infected puffs. Great care had been used in manufacturing these articles of food, including chilling the filler as soon as it was made, but the long period intervening between the filling of the shells at a great modern bakery and the consuming of the puffs permitted bacteria to multiply and possibly toxic products to be formed. The baking company abandoned the manufacture of this product.

Mild cowpox is not unusual in dairy districts, but the recent outbreak was severe, affecting 48 milkers and 334 cows, and making both man and beast acutely ill. In general, vaccinated milkers escaped and unvaccinated ones were affected.

No smallpox has occurred in New Jersey for three years.

Only one small outbreak was caused by milk during the year, this comprising eighteen cases of septic sore throat.

New Jersey stands first among the States in the percentage of population served by sewers and second in the percentage served by sewage treatment plants, according to a tabulation appearing recently in a national engineering publication. In a densely populated region like New Jersey, drained by many rivers and bordered on nine-tenths of its circumference by water, providing as it does for the recreation of millions of persons, great care is needed to avoid dangerous pollution of streams and ocean beaches. Aggressive steps taken by the Department has reduced sewage contamination of the northern beaches to only five per cent of its former degree. Tests made in 1934 and 1935 indicated only 2.56 B. coli per cubic centimeter as the average of several hundred flood and ebb tide samples at sixty bathing beaches. In 1928 the average was approximately 53 per cubic centimeter.

Experiments made during the year to improve the operation of sewage treatment plants yielded important and useful data.

MILK SANITATION

Administration of the milk sanitation act in such a manner as to avoid duplicate inspections as far as possible and to use the services of local health departments prepared to do inspection work, brought about a much smoother control organization than heretofore. This Department made, during the fiscal year, 6,134

inspections of dairies and milk plants in New Jersey and 4,364 in other States from which milk and cream were shipped into New Jersey. Local health departments made 5,160 such inspections in other States in the same period. A great improvement in sanitation at dairy farms has been noted since the milk law was enacted in 1932.

Added funds have allowed the Department to improve its inspection service of ice cream manufacture, particularly at numerous small plants and at booths in resort towns. For the same reason, more attention has been given to shellfish sanitation.

ENLARGED LABORATORIES GIVE MORE SERVICE

Forty-seven thousand Wassermann tests for evidence of syphilitic infection comprised the largest single item in the work of the Department's laboratories for the year. Physicians and health departments increase their use of the bacteriological laboratory annually, and with more room and added personnel the chemical laboratory was able to increase its service twenty per cent over the previous record year. Both laboratories carried on a small amount of research. Tests of 132 public water supplies for the presence of fluorine showed that in only three did the amount exceed one part per million and in these only slightly more than one part was found. Fluorides much in excess of this quantity cause mottled teeth in children and may lead to endemic defective teeth. New Jersey waters are apparently free from undesirable quantities of these salts.

Since the child hygiene program is supported in most municipalities by local funds, it seemed likely that a number of nurses might be dropped because of difficulties in collecting taxes. Fortunately, in most cases when the work of the nurses was explained to the governing body or board of education by someone from the Department and its value shown, retrenchment was made elsewhere. During the winter and spring, the fifteen child hygiene supervisors and seventy-five nurses about the State enlarged their knowledge of child welfare by taking courses at Dana College in Parent-Child Relationship.

A SIGN OF GOOD SENSE

The time seems to have arrived at last when the problems of venereal diseases can be discussed in much the same manner as other communicable diseases and the word "syphilis" may be printed in a newspaper. It is indeed a sign of the triumph of good sense when facts which may be distasteful but are nevertheless extremely serious, are faced frankly.

Both in news columns and editorially, the press continues to give public health and the work of health departments the important places they have earned in public affairs. As the years pass, the news deals less with the scourge of epidemics and more with the triumphs of preventive medicine.

FREE BIOLOGICALS

Physicians to the number of 1,290 obtained free diphtheria toxoid or smallpox vaccine or both from the fifty-eight distributing stations set up about the State and 973 reported on the use of this material. These reports indicated that 18,676 children were given the toxoid and 9,811 persons vaccinated during the fiscal year. As a result of experience a few changes may well be considered to insure more general immunization with these biologicals.

PROBLEMS

Satisfactory as the year's work has been in many respects, important problems demand solution. The death rate from tuberculosis is four times as great among colored residents of New Jersey as among whites. Various reasons for this are apparent, but the presence of active cases of tuberculosis in any group of the population is a menace to all. This problem should be attacked in a practical way throughout the State.

Experience has shown that the barber law, even as amended, is extremely hard to administer.

With large sums of Federal money made available for public health activities by the passage of the Social Security Act, it is encumbent upon health officials to have ready carefully consid-

ered programs so that this contribution to be paid for by future generations may not be frittered away in the present. This matter has received much thought in the Department during recent months and challenges the best efforts we can put forth.

Legislation which the Department has approved and for which there is an obvious need, namely, an act to regulate public swimming pools and an act to permit some financial assistance for needy typhoid carriers, was again introduced but failed to pass. These two forms of protection for the public would require very little appropriation annually and might in any one year save many times their cost. As it is, no practical way exists to prevent bathing in polluted waters, and pool operators are without supervision except in a few municipalities.

Report of Bureau of Administration

For the Year Ending June 30, 1935

CHARLES J. MERRELL, CHIEF

In March, 1935, Governor Hoffman appointed Stanley H. Nichols, M.D., of Asbury Park as a member of the Department, to fill the unexpired term of Dr. J. O. McDonald, deceased. The term of Dr. McDonald expired on June 30, 1935. Governor Hoffman later appointed Dr. Nichols as a member of the Department for the full term of four years beginning July 1, 1935.

Governor Hoffman also appointed E. W. Smillie, V.M.D., of Plainsboro, in March, 1935, as a member of the Department in place of H. W. Winter, V.M.D., of Plainfield, whose term expired on June 30, 1934. In June, 1935, the Governor appointed Joseph N. Fowler, of Bivalve, in place of Charles I. Lafferty, of Atlantic City, whose term expired on June 30, 1934. The term of S. A. Cosgrove, M.D., of Jersey City, expired on June 30, 1935, but the Governor has thus far failed to appoint anyone in his place.

At the meeting of the Department on July 9, 1935, the Department reorganized by the election of Irvin E. Deibert, M.D., as President, and Miss Margaret L. MacNaughton as Vice-President. At this meeting J. Lynn Mahaffey, M.D., was re-elected Director of Health for the term of four years beginning July 1, 1935. On July 17, 1934, Mr. William H. MacDonald, who had been serving as Acting Chief of the Bureau of Local Health Administration for a number of years, was appointed Chief of the Bureau.

The following resolutions regarding the death of Mr. Charles A. MacDonald were adopted by the Department on February 26, 1935:

Whereas, It has pleased God in His infinite wisdom to remove from our midst Mr. Charles A. MacDonald on December 1, 1934; and

WHEREAS, Mr. Charles A. MacDonald has devoted twenty-four years of his life to the welfare of the people of this State through his energetic and devoted services in his office as Administrative Clerk in the Bureau of Engineering of the New Jersey State Department of Health; and

Whereas, The qualities we treasured in Mr. Charles A. MacDonald, his loyalty, his genial kindness, his unwearied thoughtfulness for others and his unselfish cooperation in his personal and official relationship, will be long remembered by us; therefore,

Be It Resolved, That the members of the New Jersey State Department of Health do hereby express their deep sorrow at the passing of Mr. Charles A. MacDonald; and,

Be It Further Resolved, That a copy of this resolution, duly attested to by the President and by the Director of the Department, be forwarded to his family.

The following code of ethics for employees of the Department was adopted by the Department on May 14, 1935:

The employees of the Department of Health of the State of New Jersey are to be courteous, patient, and considerate of all persons with whom they transact the business of the Department.

Unless otherwise authorized, the employees of the Department are to approach persons from whom they are to obtain information or specimens without misrepresenting the purpose of the visit. Inspections or investigations of a routine character are to be made during the regular hours of business generally recognized by the industry, profession or establishment under investigation.

Employees of this Department are instructed to refrain from breaking and forcing entry to premises under investigation and also to refrain from using physical force in case resistance is met in the line of duty, excepting in self-defense. In case of resistance or refusal of persons to furnish information or specimens desired, employees of the Department are to make written report to their superior officer promptly.

Employees are not to be under the influence of alcohol while engaged in the

performance of duty.

Employees of the Department are not to borrow money from persons in professions, organizations, plants, establishments and systems under supervision of the Department and with whom the employee deals in the line of work of the Bureau to which he is assigned.

Unless authorized by the Director of Health or a member of the legislative committee of the Department of Health of this State, no employee shall ap-

proach any member of the Legislature on legislation in which this Department is interested. The authorization for such activity shall issue from the directing authority to the interested employee through the Chief of the Bureau to which he is assigned.

When an employee of one Bureau of this Department performs work or service relating to another Bureau of the Department or to another Department of the State, a detailed report in writing is to be made by the employee to the Chief of the Bureau to which he is attached, who, in turn, is to transmit such report to the Chief of the Bureau concerned or to the Director of Health. Such reports are to include a statement indicating the reason for the unusual work or service and also the time spent on the matter.

BARBER CONTROL DIVISION

On July 17, 1934, Joseph DeFalco was appointed as a member of the Board of Barber Examiners in place of Philip Lamping for the term of three years beginning July 1, 1934.

The resignation of Edwin C. Lanigan as Chief in Charge of the Barber License Control Division was accepted to take effect as of August 24, 1934, and the work of this division was transferred to the Bureau of Local Health Administration and placed under the supervision of William H. MacDonald, Chief of said Bureau.

At the meeting of the Department on June 11, 1935, Adam L. Kuhn was reappointed as a member of the Board of Barber Examiners for another term of three years.

APPROPRIATIONS

An appropriation of \$482,667.84 was granted by the Legislature for the work of the Department during the year ending June 30, 1936.

In this appropriation is included the amount of \$12,310.00 which the Department will be allowed to use of milk plant fees collected; \$3,150.00 allowed of the fees collected for ice cream licenses and \$16,075.00 allowed from the fees collected for barber licenses. An additional appropriation of \$15,145.00 for shell-fish work was granted.

The plan of cooperation with the State Medical Society under which biologicals were furnished last year free of cost to physicians who agree to set aside a health hour in which they will inoculate and vaccinate young children in accordance with the regulations of the medical society and with the rules and regulations adopted by the State Department of Health, will be continued for the coming year and an appropriation of \$17,835.00 was allowed for this purpose.

During the year a special appropriation of \$12,000 was granted by the State House Commission for special shellfish work and it has been agreed that a special appropriation, in addition to the regular appropriation allowed in the appropriation law, will be granted by the State House Commission during the coming year in order that additional funds may be available for this work.

A financial statement showing expenditures by the Bureaus of Department for the year ending June 30, 1935, will be found at the close of the report of this Bureau.

BOARD OF EXAMINERS AND EXAMINATIONS

Four regular examinations on the last Friday of July, October, January and April were held as usual.

At the meeting of the Department on February 26, 1935, James J. Hagan, Jersey City; Patrick J. Monaghan, Newark; Edwin G. Coward, M.D., Pleasantville, together with Wallace T. Eakins and Frank Yates, of the staff of the Department, were reappointed as members of the Board of Examiners for the coming year. The Board reorganized by the election of Mr. Hagan as President and Mr. Eakins as Secretary for one year.

During the year there were filed with the Department 111 applications for examination as health officer or as inspector of the various classes.

Licenses were issued to those receiving a general average of 70 per cent. or more, as follows: Health Officer, 9; Sanitary Inspector of the first class, 22; Sanitary Inspector of the third class, 1; Plumbing Inspector, 23; Food and Drug Inspector, 3; Veterinary Meat Inspector, 1; Lay Meat Inspector, 4; Milk Inspector, 1.

Examinations for sewage and water plant operators were conducted as usual by the Bureau of Engineering of the Department during the year. Information regarding these examinations will be found in the report of the Bureau of Engineering.

Tuberculosis Hospitals

At the meeting of the Department held on July 17, 1934, the Special Committee of the Department reported regarding hearing given at the Hudson County Court House, Jersey City, on June 26, 1934, concerning application of the Board of Freeholders of Hudson County for approval of the site for the new county hospital to be located at Medical Centre in Jersey City. The report of the committee with recommendations was accepted by the Department and the following preamble and resolution adopted:

Whereas, Application has been made to the Department of Health of the State of New Jersey by the Board of Chosen Freeholders of Hudson County, New Jersey, for approval of the site of the new Hudson County Tuberculosis Hospital to be located at Medical Centre, Jersey City, New Jersey; and

WHEREAS, A public hearing was given by a special committee of this Department at Jersey City, New Jersey, on June 26, 1934, at which time full opportunity was given to all present to speak for or against the location of the hospital at the site selected; and

Whereas, Although no one appeared to make any objection at the time of the hearing, a petition was later forwarded to the Department, signed by about eighty persons, protesting against the erection of a hospital at the site proposed on account of the overloading of the sewer on Cornelison Avenue; and

Whereas, It was stated at the hearing that sewage from the proposed hospital will be discharged not only into the Cornelison Avenue sewer, but also into the sewer on Clifton Place, and a letter from the Chief Engineer of Jersey City dated July 16, 1934, states that he has carefully checked the sewer sizes and from his examination is convinced that there is absolutely no reason to believe that the sewage discharged into the sewer from the proposed hospital will back up and overflow any section of the area in question; therefore,

Be It Resolved, That the application of the Board of Chosen Freeholders of Hudson County for permission to erect and maintain a new County Tuberculosis Hospital at Medical Centre, Jersey City, New Jersey, be and the same is hereby granted.

Report was presented by the Special Committee of the Department at the meeting held on December 4, 1934, concerning hearing given by said Committee on November 27, 1934, at Brown's Mills, N. J., relative to application of Caroline M. and Walter H.

Stull to establish a sanatorium for the care and treatment of cases of pulmonary tuberculosis in Sycamore Hall, Brown's Mills, N. J. The committee stated that no objections to the establishment of the sanatorium were presented at the time of the hearing and no communications opposing the same had been filed with the Department. A permit to establish a tuberculosis sanatorium at the place named was therefore granted to Mr. and Mrs. Stull.

Application was received from the Board of Freeholders of Middlesex County for permission to erect a county tuberculosis hospital in Roosevelt Park, Raritan Township, near the Borough of Metuchen in Middlesex County, N. J. A hearing regarding said application was given by a special committee of the Department on February 28, 1935, and report regarding said hearing was presented by said committee at the meeting of the Department on April 9, 1935. On recommendation of the committee a permit was granted by the Department for the erection of a hospital at the site named.

CEMETERIES

Application was received from citizen freeholders of the City of Newark requesting reversal of the action of the Commissioners of said city in granting a permit to the New Montefiore Cemetery Company to establish a cemetery in Newark. A special committee of the Department was appointed and a hearing relative to said application was given by the committee at Newark on September 7, 1934, at which time evidence was presented showing that a number of persons who had signed the application to the Department for reversal of the decision of the local officials of the City of Newark were not citizen freeholders and as there were less than ten citizen freeholders who had signed the application, as required by the statute, the application for action by the Department in the case was withdrawn.

At the meeting of the Department held on September 11, 1934, report was presented by a Special Committee of the Department regarding hearing held by said committee at Mt. Bethel, Warren Township, Somerset County, on November 23, 1934, concerning application of Maurice I. Klein, M.D., of Newark, for reversal

of the decision of the local officials of Warren Township, Somerset County, in refusing to grant consent to Dr. Klein to establish a cemetery on his property in South Stirling in said township. It was reported by the committee that at the time of the hearing no one spoke in favor of the cemetery excepting a member of the legal firm representing Dr. Klein and in accordance with the recommendation of the committee it was decided that the application for reversal of the decision of the local officials of Warren Township, Somerset County, in refusing to grant consent to Dr. Klein to establish a cemetery on his property in Warren Township, be denied and that no permit be granted by the Department for the establishment of the cemetery.

Application was received by the Department from citizen freeholders of Hohokus Township, Bergen County, for reversal of the decision of the local officials of said township in granting permission to the Roman Catholic Diocese of Newark to establish a cemetery on lands owned by the Diocese in Hohokus Township. A special committee of the Department held a hearing relative to said application in the Town Hall at Mahwah, Hohokus Township, on April 25, 1935. In consideration of the large number of interested citizen freeholders supporting the project; of the local need of a considerable portion of the population of the township for a Catholic cemetery; of its proposed operation by a bona fide and already established local religious body; of the favorable action of the local officials; of the lack of demonstration of sanitary objections; and of the small number and apparently wholly selfish interest of the objectors to the project, the Department, on recommendation of the committee, denied the application for reversal of the action of the local officials and sustained said officials in granting a permit for the establishment of the cemetery.

Application of the Bridgewater-Somerset Realty Corporation for reversal of the decision of the local officials of Branchburg Township, Somerset County, in refusing to grant consent to said corporation to establish a cemetery in said township was filed with the Department and a special committee of the Department conducted a hearing concerning said application at North Branch,

N. J., on May 2, 1935. In view of the fact that the officials of Branchburg Township denied the application of the Bridgewater-Somerset Realty Corporation on the grounds that there is no need of more burying facilities in the township; that the dedication of the proposed tract as a cemetery would reduce the tax ratables of the township; that it would tend to lower the value of adjacent property; and because of a failure of the corporation to give any assurance of a satisfactory plan of development or of financial ability to complete the project, the application for reversal of the decision of the local officials in refusing to grant consent for the establishment of the cemetery, on recommendation of the majority of the members of the special committee, was denied and the action of the township officials was sustained.

Annual Conferences

The twenty-fifth Annual Conference of State and Local Health Officials was called to order by Dr. S. A. Cosgrove, President of the State Department of Health, in the State House, Trenton, at 2 P. M., on February 15, 1935.

The President welcomed the various representatives from local boards of health to the conference and gave a short address. The first paper of the afternoon session was read by Mr. William H. MacDonald, Chief of the Bureau of Local Health Administration of the State Department of Health. The paper was entitled, "Use of Free Toxoid and Vaccine by New Jersey Physicians." A paper entitled "Gain Local Support With Your Yearly Report" was read by Cecil K. Blanchard, Assistant Epidemiologist of the New Jersey State Department of Health.

A roll call of the counties showing the number of representatives from each county then took place, after which a paper was read by Irvin E. Deibert, M.D., Chairman of the Shellfish Committee of the State Department of Health, on the subject of "New Jersey's Program for Keeping Its Shellfish Safe as a Food." The last paper of the afternoon session, entitled "Aiding Health Officials in Venereal Disease Problems," was presented by Carl Daines, Supervisor, Social Hygiene Education, New Jersey State Department of Health.

This was followed by a general discussion of the papers presented at the afternoon session.

The evening session was opened with a motion picture entitled "Public Enemy Number One." This picture was loaned by the Motor Vehicle Department and presented a graphic demonstration of the careless auto driver. The first paper of the evening session on the subject of "Bacillary Dysentery" was read by Wade H. Frost, M.D., Professor of Epidemiology and Dean of the School of Hygiene and Public Health. Johns Hopkins University. The second paper was read by Maurice Brodie, M.D., Assistant Professor of Bacteriology, New York University, on the subject of "Immunization Against Infantile Paralysis." A very interesting and spirited discussion of these papers closed the final session of the conference.

The Annual Meeting of the Health Officers' Association of New Jersey was held in the State House on Saturday morning, February 16, 1935. Following the address of the retiring President, Mr. Dennis J. Sullivan, of Jersey City, the usual business session of the Annual Meeting was held. The following officers were elected for the coming year: President, R. C. Errickson, Long Branch; Vice-President, Edwin F. Stewart, M.D., Fair Haven; Secretary-Treasurer, William C. Blake, Princeton; members of the Executive Committee, Amos Field, Jr., Kearny; William H. MacDonald, Trenton; George N. Golding, Verona; H. R. H. Nicholas, Englewood; A. J. Krog, Plainfield; John N. Ryan, M.D., Passaic; Marie A. Harrison, Maplewood. Amos Field, Jr., was later elected Chairman of the Executive Committee.

The Sixtieth Annual Meeting of the New Jersey Health and Sanitary Association was held at the Berkeley-Carteret Hotel, Asbury Park, November 16 and 17, 1934. The first session on Friday afternoon, November 16th, was divided in two sections, the general session over which the First Vice-President, I. W. Knight, M.D., of Pitman, presided, and a session devoted to papers on water supplies and sewerage over which the President, James C. Brooks, C.E., presided. At the general session in the afternoon the following papers were presented: "State Planning and Public Welfare," by Russell V. Black, Directing Consultant,

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New Jersey State Planning Board; "The New Jersey School Health Program," by Allen G. Ireland, M.D., Director of Health and Physical Education of the State of New Jersey Department of Public Instruction; "The Medical Society of New Jersey Organizes to Improve Community Health Services," by LeRoy A. Wilkes, M.D., Executive Secretary of the Medical Society of New Jersey.

DEPARTMENT OF HEALTH

At the session on sewage and water supplies the following papers were read: "Trends in Modern Sewage Treatment and Organization," by Willem Rudolfs, Ph.D., State Agricultural Experiment Station; "Control of Coastal Water Pollution in Northern New Jersey," by Stephen Kowalchik and Harry Greenfield, representatives of the Bureau of Engineering of the State Department of Health; "The Tri-State Treaty Commission," by Joseph P. Day, of New York City; "Chlorine in Sewage Treatment," by William J. Orchard, of the firm of Wallace & Tiernan Company, Inc.

At the evening session Mr. John Colt, Chairman of the Administrative Council of the Emergency Relief Administration, spoke on the subject of "The Future of Emergency Relief," and Thomas Parran, Jr., M.D., Commissioner of Health of New York State, spoke on the subject of "Health and Medical Relief in New York State."

The business session of the Association was held on Saturday morning, November 17th, at which time I. W. Knight, M.D., of Pitman, was elected President of the Association for the coming year.

Following the usual practice, a meeting of the Health Officers' Association was held in the hotel immediately following the final session of the New Jersey Health and Sanitary Association on Saturday morning.

LEGISLATION

The following bills of interest to health officials were introduced at sessions of the Legislature last year:

Senate Bill No. 30, enabling Passaic Valley Sewerage Commission to lease to municipalities rights-of-way to build pipe lines for sewerage and to contract with municipalities for sewage disposal. This bill became a law, Chapter 26.

Senate Bill No. 45, permitting the Department of Health to lease properties for shellfish purification work. This bill became a law, Chapter 200.

Senate Bill No. 50, permitting sterilization of mental defectives. This bill failed to pass.

Senate Bill No. 123, making pneumoconiosis (dust disease) compensable under Workmen's Compensation Act. This bill failed to pass.

Senate Bill No. 128, forbidding issuing of birth certificates revealing illegitimacy of children. This bill became a law, Chapter 104.

Senate Bill No. 130, providing for the issuance of restricted information in lieu of birth certificates concerning adopted children. This bill became a law, Chapter 105.

Senate Bill No. 131, repealing sundry acts concerning illegitimacy of children. This bill became a law, Chapter 106.

Senate Bill No. 170, naming commissioners to represent New Jersey on Interstate Sanitation Commission and providing tri-State compact respecting pollution of New York Harbor and adjacent waters. This bill became a law, Chapter 321.

Senate Bill No. 171, creating Interstate Sanitation Commission with New York State and Connecticut. This bill became a law, Chapter 322.

Senate Bill No. 254, requiring milk brought into New Jersey to be pasteurized and bottled in this State; requiring adequate pasturage for cows. This bill failed to pass.

Senate Bill No. 255, making violation of State milk laws a misdemeanor. This bill failed to pass.

Senate Bill No. 256, requiring milk licensees to keep records and prohibiting secret price fixing agreements. This bill failed to pass.

Senate Bill No. 257, requiring milk dealers to buy from New Jersey producers at least 40 per cent of milk for distribution in this State. This bill failed to pass.

Senate Bill No. 258, permitting refilling of beverage and other containers by owners thereof regardless of markings thereon. This bill failed to pass.

Senate Bill No. 259, including cream cheese in list of products regulated by Chapter 131, Laws of 1932, and Chapter 243, Laws of 1933. This bill became a law, Chapter 216.

Senate Bill No. 285, repealing Chapter 50, laws of 1933, allowing municipalities to postpone sewage disposal plant installation because of financing difficulties. This bill failed to pass.

Senate Bill No. 296, repealing 1874 act providing Board of Health and Vital Statistics in Hudson County. This bill failed to pass.

Senate Bill No. 299, making it misdemeanor for barbers or beauticians to sell substitute cosmetics for standard products. This bill became a law, Chapter 181.

Assembly Bill No. 29, empowering Juvenile and Domestic Relations Court Judges to perform marriage ceremonies. This bill became a law, Chapter 115.

Assembly Bill No. 42, changing effective date in act regulating construction and sanitation of cow stables from January 1, 1936, to January 1, 1933. This bill failed to pass.

Assembly Bill No. 67, providing medical examination for normal school pupils and teacher candidates to guard against tuberculosis. This bill failed to pass.

Assembly Bill No. 68, providing more detailed physical examination for public school pupils. This bill failed to pass.

Assembly Bill No. 69, allowing Boards of Education to require physical examination of teachers believed to have communicable diseases. This bill failed to pass.

Assembly Bill No. 89, providing financial aid for carriers of certain communicable diseases. This bill failed to pass.

Assembly Bill No. 110, licensing beauty culturists; providing examinations and creating commission of three to enforce act. This bill failed to pass.

Assembly Bill No. 142, setting up method for compensating for industrial dust diseases under Workmen's Compensation Act. This bill failed to pass.

Assembly Bill No. 143, companion to Assembly Bill 132. This bill failed to pass.

Assembly Bill No. 144, companion to Assembly Bill No. 142. This bill failed to pass.

Assembly Bill No. 150, defining practice of chiropody. This bill failed to pass.

Assembly Bill No. 151, creating State Board of Chiropody Examiners. This bill failed to pass.

Assembly Bill No. 153, licensing persons engaged in the business of beauty culture. This bill failed to pass.

Assembly Bill No. 238, licensing osteopathic physicians and surgeons and providing new definitions. This bill became a law, Chapter 226.

Assembly Bill No. 272, allowing Boards of Freeholders in counties maintaining county tubercular hospitals to appoint business managers of hospitals. This bill failed to become a law.

Assembly Bill No. 314, increasing number of yearly barbers' examinations by State Health Department to three; providing registering of barbers in interim of examinations. This bill became a law, Chapter 266.

Assembly Bill No. 320, requiring dogs to be vaccinated against rabies. This bill failed to pass.

Assembly Bill No. 346, repealing Chapter 427, Laws of 1933, which made owners liable for dog bites. This bill failed to pass.

Assembly Bill No. 366, repealing 1874 act providing Board of Health and Vital Statistics in Hudson County. This bill failed to pass.

Assembly Bill No. 373, requiring municipal Registrars of Vital Statistics to keep records of deceased veterans. This bill was filed in the State Library without signature by the Governor.

Assembly Bill No. 414, establishing State Department of Beauty Culture Control and providing license for practitioners. This bill became a law, Chapter 307.

| STATEMENT SHOWING EX | EXPENDITURES BY BUREAUS OF THE DEPARTMENT OF NEW JERSEY FOR THE YEAR ENDING JUNE 30, | NDITURES BY NEW JERSEY | BUREAUS FOR THE | US OF TE | HE DEPA ENDING | PARTME | 30, 1935 | HEALTH OF | H 0F | тне зт | STATE |
|--|--|---|---|---|-------------------|---|--|-------------------------|---------------------------------|---------------------------------|-------------------------|
| Bureaus | Payrolls | Traveling Expense | Crononor? | Office Equipment | Postage | Printing | клрипЅ | otuA. .tnioM | Tabulating Machine Maint. | Laboratory Supplies | Laboratory Equipment |
| Administration Vital Statistics Local Health Administration Food and Drugs Greenistry Chemistry Bacteriology Public Health Education Barber Division Child Hygiene | \$22,279 28,501 37,822 52,117 44,434 23,271 31,515 4,500 6,021 16,320 | \$1,364 90 12,803 12,803 2,634 133 133 14,470 18,559 2,373 | \$1,274 261 92 92 41 49 206 308 308 | \$211 372 4 224 855 90 90 60 | \$100 | \$614 1,370 586 470 204 276 962 1,257 1,257 | \$481 246 246 241 275 275 275 452 437 137 | \$1,913 354 1,938 | \$1,068 | \$291 727 2,493 11,573 | 1,954 |
| Total of Columns | \$343,386 | \$41,437 | \$2,490 | \$1,106 | \$405 | \$7,072 | \$2,846 | \$4,205 | \$4,205 \$1,236 | \$15,084 | \$3,016 |

\$2,922

| STATEMENT SHOWING EXPENDITURES BY BUREAUS OF THE DEPARTMENT OF HEALTH OF NEW JERSEY FOR THE YEAR ENDING JUNE 30, 1935—Continued | EXPENDITUR | URES B EY FOR | Y BUREAUS THE YEAR | AUS OF | OF THE DE | DEPARTMI JUNE 30, 193 | MENT OF HE | HEALT nued | F 0 | THE ST | STATE |
|---|-------------|---------------------------------|--------------------------|---------------------|-----------------------|-------------------------------|-----------------------|--------------------|----------------|----------|--|
| Вигеаня | Boat Maint. | oildu'd gʻinir gws V atlas H | Engineering Equipment | Clinic Equipment | noitosqen1 soivre2 | Welfare Sta- t'mqiupA noit | neillish2 noisivia | bioxoT noisiviA | Milk Plant Li- | sidd wan | rotal dy Bureaus |
| Administration Vital Statistics Local Health Administration Food and Drugs Engineering Chemistry Bacteriology Public Health Education Barber Division Cityl Hygiene | \$1,531 | \$1,773 | | | \$6,400 | \$832 | \$2,922 | \$19,524 | \$1,709 | \$910 | \$26,223 31,708 31,708 62,1701 72,470 51,761 28,358 6,292 16,557 16,557 16,557 24,616 |
| v. to control v. v. v. | | | | - | | | | 1 | | | |

Report of the Bureau of Local Health Administration

For the Year Ending June 30, 1935

WILLIAM H. MACDONALD, CHIEF

Expansion of the plan for distributing free toxoid and vaccine and the assignment of the Barber Registration Division to the general supervision of the Bureau of Local Health Administration, were two important factors in the work of the Bureau for the year. Other activities of the Bureau continued, including the recording and investigation of cases and outbreaks of reportable diseases, investigation of alleged nuisances, investigation of sanitary conditions at roadside refreshment stands, camps and other places, and extending aid to local health departments through correspondence, personal conferences and field assistance in special problems.

The number of cases of the thirty-two diseases listed in Regulation 1, Chapter VI of the State Sanitary Code reported to the Department during the calendar year 1934, was 65,296. Although this is nearly 17,000 less than the number reported last year, the chief reduction was in measles and mumps, both of which fluctuate markedly in prevalence in different years.

Diphtheria as a factor in both morbidity and mortality in New Jersey, was further reduced. The recorded case rate, 20.09 per 100,000, and the recorded death rate, 1.32 per 100,000, were new low records. The fifty-six deaths from this cause were only slightly greater than the number of deaths from measles and were less than the number of deaths from either scarlet fever or whooping cough. The fact, however, that 850 cases of diphtheria occurred, and the fact that 29 per cent. of these cases and 57 per cent. of the deaths from this cause were in children less than 5 years old, shows the need for continued efforts to have

children, particularly in this pre-school age group, receive the protection afforded by toxoid.

Typhoid fever cases were slightly greater in number than in 1933; however, the number of deaths was lower. Both the case and death rates from tuberculosis, 96.76 and 52.70 per 100,000 respectively, reached new State-wide low records. In spite of the fact that only about 5 per cent. of the population of New Jersey is colored, 21 per cent. of the recorded deaths from tuberculosis during the year were among colored persons.

The prevalence of poliomyelitis and meningococcus meningitis during the year was about the same as in years considered normal.

For the third consecutive year, no case of smallpox was reported. This record is most gratifying. It cannot be stated, however, that the population of New Jersey is completely protected from smallpox, inasmuch as there are still many unvaccinated persons in the State, even among children in the public schools. There are a considerable number of municipalities in which local regulations do not yet require vaccination as a requisite to continue in public school.

RABIES IN ANIMALS

Reports of 207 cases of rabies in animals were received from 87 local boards of health in 18 counties. All but one of the animals reported rabid were dogs.

Number of Cases of Rabies in Animals Reported by Local Boards of Health, by Counties and by Months, January-December, 1934

| | - | | | - | | | | - | | • | | | |
|--------------|------|------|------|-------|-----|------|------|------|-------|------|------|------|-------|
| County | Jan. | Feb. | Mar. | April | Мау | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total |
| Atlantic | 0 | 0 | 0 | 0 | 0 | 1 | 0 | O | 0 | n. | 0 | O | 1 |
| Bergen | 7 | 4 | 4 | 8 | 9 | - Ř | 5 | ö | ž | ĭ | ŏ | 2 | 50 |
| Burlington | 0 | 0 | ō | ō | 2 | ŏ | ŏ | ŏ | ō | ō | ě | ī | 3 |
| Camden | 0 | Ó | 2 | 0 | 0 | 2 | 8 | ŏ | - 0 | 3 | 3 | 3 | 16 |
| Cape May | 0 | 0 | 0 | 0 | Ó | ō | Õ | ō | Ó | õ | ō | ō | Ó |
| Cumberland. | 0 | 0 | 0 | 0 | 0 | ė | ō | ō | ō | Õ | Ó | Ô | 0 |
| Essex | 8 | . 3 | 0 | 0 | 0 | 8 | 0 | Ó | Ō | Ó | 2 | 1 | 17 |
| Gloucester., | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 7 | 15 |
| Hudson | 1 | 0 | 4 | 7 | 2 | 8 | 2 | 1 | 0 | 1 | 1 | 1 | 28 |
| Hunterdon | 0 | 0 | 0 | 1 | 0 | 0 | .0 | Ó | 1 | 1 | Ó | 2 | 5 |
| Mercer | 1 | 3 | 2 | 2 | 0 | 4 | 1 | 0 | 1 | 2 | 0 | 3 | 19 |
| Middlesex | 0 | 1 | 2 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 7 |
| Monmouth . | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Morris | 1 | 3 | 0 | 2 | 2 | 3 | 0 | 1 | 0 | 1 | 0 | 1 | 14 |
| Ocean | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Passaic | 0 | 1 | 4 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 10 |
| Salem | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 4 |
| Somerset | 0 | 1 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 7 |
| Sussex | 0 | 0. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union | 2 | 3 | 1 | 1 | 1 | 0 | 0 | . 0 | 0 | 0 | 1 | 0 | 9 |
| Warren | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | _ | | _ | _ | _ | _ | _ | | | _ | |
| Total | 20 | 23 | 25 | 23 | 17 | 32 | 14 | 2 | 5 | 9 | 14 | 23 | 207 |

INVESTIGATION OF OUTBREAKS

Careful investigation of known cases to determine any probable source of infection is fundamental in preventing the spread of communicable diseases. Many local boards of health, particularly in the smaller communities, do not undertake to make such investigations carefully and completely, even in those diseases which are frequently spread by means of some article of food or drink. Employees in the Bureau, and particularly district health officers, make many such field investigations, usually in cooperation with representatives of local boards of health. Four hundred twenty cases of communicable diseases in 135 municipalities were so investigated by employees in the Bureau last year.

TYPHOID FEVER

Study was made of an unusual number of cases of typhoid fever in the seashore section of Monmouth County in the vicinity of Asbury Park. A total of 46 cases resulting in nine deaths was included in the investigation. These cases had onsets ranging from early in May to August 5. The cases occurred in seven municipalities, twenty-eight of the cases occurring in Asbury Park, but in the area west of the tracks of the railroad extending parallel to the coast and not in the summer hotel section. In spite of exhaustive study, a definite cause of the outbreak was not proven. During the inquiry, two carriers of typhoid bacilli, one temporary and one chronic, were discovered in food vending establishments in the area in which the largest number of cases occurred; however, from the data collected, neither could be charged with causing the outbreak. The use of a public water supply was in common among the patients, and although the investigation cast grave suspicion upon this supply as the vehicle transmitting infection, such a suspicion was based upon presumptive evidence alone.

Fifty-six scattered cases of scarlet fever and diphtheria in 23 municipalities were investigated and, in many instances, personal contact with mild or missed cases of these diseases was established.

SEPTIC SORE THROAT

The presence of septic sore throat in Flemington was reported by the secretary of the local board of health on April 23, 1935. Although information to show the extent of the disease was lacking, investigation of the situation was promptly commenced. As a result of this investigation, 21 cases were located in the borough, and epidemiological studies indicated raw milk produced and sold by a local distributor was the vector of infection. Examination of the cows at this dairy on April 25, revealed one cow with severe mastitis and another discharging flakes from one teat. The presence of mastitis in the herd prior to this date was also established. Bacteriological examination of market milk from this dairy on April 25, gave a total count of 1,300,000 per c.c. and showed the presence of pus cells and streptococcus viridens.

The sale of milk from the diseased cattle was prohibited and no milk was permitted to be sold from the premises unless pasteurized. The outbreak stopped promptly.

Doubtless the prompt action taken prevented a much larger outbreak. This experience indicates the desirability of adding septic sore throat to the list of reportable diseases in order that local outbreaks of the disease may be recognized early.

UNDULANT FEVER

Twenty-seven cases of undulant fever were reported during the calendar year 1934. Histories of these cases were collected by employees in the Bureau or through local health officials. According to the information gathered, 17 of the patients regularly used only raw milk; four used raw milk regularly and pasteurized milk occasionally; four used pasteurized milk regularly, one of whom used raw milk occasionally. In one case the source of milk used was not determined. One patient was reported as using canned milk.

MALARIA

Nineteen cases of malaria were reported during the year 1934. As a result of special inquiry, it definitely appeared that eleven were cases imported from outside of New Jersey and one was originally infected intentionally as part of a treatment for another disease. Complete information is lacking about four cases. From the data at hand, it cannot be shown that the remaining three cases were not infected in New Jersey.

GASTRO-ENTERITIS

Cream puffs and eclairs have caused several outbreaks of acute gastro-intestinal disturbance in New Jersey in the last few years. Early in December, 1934, two local boards of health reported cases of gastro-enteritis in families who had obtained cream puffs from a large baking concern through local distributors. Further investigation revealed at least 100 cases of illness had occurred among users of this product in Union, Bergen, Essex and Hudson Counties. All the cases of illness occurred on December 5th and 6th.

Investigation at the bakery showed that the manufacturers were aware of the possible effect of holding cream filler at warm temperatures and had adopted a system of chilling and refrigerating the filler promptly after preparation. The marketing process followed by this concern, however, resulted in a lapse of from 18 to 26 hours between the time the cream filler was placed into the puff shells and the time the product was delivered to consumers. Therefore, although special care was taken in this instance in the preparation and storage of the cream filler, opportunity was afforded for the multiplication of bacteria in the material before delivery. This concern promptly discontinued the making of cream puffs.

Cooperation was extended officials of the Holy Name Hospital at Teaneck in making investigation of about 27 cases of severe illness among new-born babies in the maternity section of the institution. Cases occurred in babies from about December 25 to about January 19, shortly after which the maternity section

was closed by the hospital authorities and no further obstetrical cases received for a period of several weeks. This action had been taken before the State Health Department was aware of the situation.

Authorities at the hospital stated cases were characterized by symptoms of digestive disturbance with persistent green stools. Some of the children were affected when only a day or two old. Others showed no symptoms until about a week old. Ten of the affected babies died.

The definite cause of the cases was not discovered, nor was there established a common source of any infection.

COWPOX IN HUMANS

The prevalence of unusually severe cowpox among humans was reported by physicians in Sussex County in November, 1934. By investigation, there were obtained histories of 48 cases which occurred in the northwestern section of the county, from September to December, 1934. All the patients were milkers and were employed on 18 dairy farms. Proprietors of these farms stated a total of 334 cows had been affected among their herds.

Histories obtained of the cases in humans showed that the primary lesions usually developed on the fingers or hands at the site of some skin abrasion. Several of the affected persons reported suffering from general symptoms such as fever, backache, severe pains in affected limbs and swollen painful auxiliary glands. The length of illness varied from four days to six weeks, the average being from ten to fourteen days. Information was sought to establish the vaccinal status of patients and such data was obtained for 38 patients. Of these, 27 had never been vaccinated, six had been vaccinated more than 20 years previously, two had been vaccinated within a period of 7 to 20 years. and three had been vaccinated within less than seven years. It is interesting that in the latter three cases the symptoms were mild; two reported having only one lesion and one reported having two lesions. These facts strongly suggest vaccination as a practical method not only of preventing smallpox but of protecting milkers from becoming infected with cowpox from cattle having this disease.

ERYSIPELAS

During the winter of 1934 and early spring of 1935, 19 cases of erysipelas occurred among persons at the New Jersey State Hospital, Trenton. Sixteen of the cases were in inmates and three in employees. Two cases were males; 17 were females.

Careful investigation was made of these cases and of the circumstances under which the cases occurred. Contact between cases was established in some instances. The occurrence of this number of cases in an institution suggests that more complete study of such cases should be made, and that the disease might properly be added to the reportable list.

TULAREMIA

One case of tularemia was reported during 1934 in a person employed in a local butcher shop in Hudson County where he handled and dressed carcasses of rabbits believed to have been imported from the middle west.

STATE INSTITUTIONS

At five State institutions investigation was made of 163 cases of diseases, including diphtheria, para-typhoid and typhoid fever, scarlet fever, measles, erysipelas and gastro-enteritis.

COMMUNICABLE DISEASES ON DAIRIES

Thirty-six cases of scarlet fever, three cases of diphtheria and one case each of typhoid fever and tuberculosis were reported and investigated on 35 dairy farms in 12 counties.

Arrangements were made at each of these premises whereby the sale of milk produced thereon was permitted by the Department to continue.

Assistance in Diagnosis

In suspected cases of communicable diseases it is the policy to urge that local boards of health, through local personnel, establish a definite diagnosis if such a step is found necessary. In response to special requests, however, diagnostic aid, in addition

to laboratory aid, was furnished through this Bureau during the year in 65 instances. The diseases suspected in these cases included scarlet fever, diphtheria, measles, Rocky Mountain spotted fever, smallpox, mumps, typhus fever and meningitis.

Typhoid Carriers

A bill designed to enable the State to pay a small amount to certain needy typhoid carriers for medical or surgical care and maintenance, was again sponsored by the Department and introduced into the Legislature. This bill, however, did not become a law.

During the year two carriers were removed from the list recorded in the office of the Department and two more carriers were discovered.

FREE BIOLOGICALS

Distribution of diphtheria toxoid and smallpox vaccine free, through the State Department of Health was established as a policy by act of Legislature in Chapter 127 of the Laws of 1934. The enactment of this law in May, 1934, left little time during the fiscal year to place into operation a plan for the distribution and use of these materials. The Department, however, on June 5, pursuant to the Statute, adopted rules for the distribution of these biologicals and thereafter a few distributing stations were established. This plan, however, did not really function until the fiscal year of 1934-35.

By the end of this year 58 distributing stations had been established at which physicians could procure the State materials by signing a receipt form which was later filed in the office of the State Health Department. Report forms were handed physicians when procuring materials, upon which they could report conveniently the names of children receiving the materials. One thousand three hundred eighty-three physicians filed with the State Health Department agreement forms, giving special hours they selected for immunizations and upon which they agreed to follow the rules adopted by the Department in regard to the free toxoid and vaccine. The number of physicians recorded as securing materials from distributing stations was 1,290 and the

number who reported some use of the material secured was 973. The total number of children reported by physicians as given the free toxoid was 18,676; the number of children reported vaccinated was 9.811.

Number of Children Reported by Physicians as Given Free State Toxoid or Vaccine During the Year Ending July 1, 1935

| Nu | mber of Childre | en Reported Treated |
|------------|-----------------|---------------------|
| County | Toxoid | Vaccine |
| Atlantic | 293 | 434 |
| Bergen | 3,232 | 950 |
| Burlington | 147 | 156 |
| Camden | 366 | 260 |
| Cape May | 114 | 483 |
| Cumberland | 374 | 207 |
| Essex | 3,028 | 1.869 |
| Gloucester | 1,125 | 336 |
| Hudson | 266 | 24 |
| Hunterdon | 153 | 175 |
| Mercer | 66 | 254 |
| Middlesex | 1.056 | 731 |
| Monmouth | 759 | 95 |
| Morris | 881 | 667 |
| Ocean | 63 | 74 |
| Passaic | 3,677 | 1,619 |
| Salem | 222 | 226 |
| Somerset | 825 | 272 |
| Sussex | 695 | 141 |
| Union | 1,238 | 699 |
| Warren | 96 | 139 |
| | | |
| Total | 18,676 | 9,811 |

Eight per cent. of the children reported as receiving the toxoid were less than one year old; 47 per cent. were less than five years old.

Reports of children vaccinated with the State materials show 2 per cent. to have been less than one year of age, while 40 per cent. were below five years.

The experience of the first year under this project warrants some comments.

1. The interest of physicians in the plan was reflected in the relatively large number filing agreement forms.

- 2. The system of distributing, checking and reporting which was adopted appears, in the main, satisfactory.
- 3. Difficulty was experienced in securing complete reports from some physicians.
- 4. Local health officials report that in order to get a given number of poor children to go to physicians' offices for free immunization or vaccination, considerably greater effort is required than to get an equal number of such children to attend group immunization projects organized under public auspices.
- 5. To insure more general immunization, an addition should be incorporated in the present plan whereby young children of families of low wage groups may receive immunization some other way, if efforts to have them taken to physicians' offices for this purpose fail.

INSPECTION OF LUNCH ROOMS AND CAMPS

This work was carried on as extensively as practicable during the year, mainly by district health officers in the area to which they are assigned.

Both camps and roadside stands are open chiefly during the summer months, and it is therefore necessary nearly all inspections of these establishments shall be made during the months of June, July and August. Inasmuch as action for a violation of the Sanitary Act can only be undertaken after the procedure set forth in the act has been followed, no case against any lunch room proprietor was finally ready for action until after the stands in question had closed for the season. These actions, therefore, were not pressed. Such stands should properly be inspected by local boards of health and the proprietors required to comply with reasonable provisions set forth in local sanitary codes. Action for enforcement of such local codes is less involved and more direct than can be carried out by the State Department under existing laws.

Inspection of camps by employees in the Bureau revealed that only a small proportion are visited by representatives of local boards of health in the rural communities, in which nearly all camps are located. The Chapter of the State Sanitary Code which applies to camps has not been an effective regulatory

measure inasmuch as local boards in so many of the sparsely populated townships do not have the employed personnel to inspect such places within their jurisdictions.

Special Investigations and Surveys

Many complaints of alleged nuisances affecting the public health, including questions involving private water supplies and means of disposing of sewage on individual premises, are referred to this Bureau. While such matters properly come within the jurisdiction of local boards of health, employees in the Bureau frequently make investigation of such conditions, usually in company with representatives of local health boards. Over 450 such investigations were made last year by the Bureau.

A survey of health activities in Morris County was conducted in conjunction with the Tuberculosis League of the County. This survey showed the number of persons employed on full time in public health activities in Morris County, including employees of health departments, nursing associations and school boards was 53, and the number of persons so employed on a part-time basis was 126. The data collected was studied at the office of the American Public Health Association, where the conclusion was reached that with the funds expended by various agencies for public health service in the County, more effective work could doubtless be done if there was greater centralization of administrative functions.

PUBLIC HEALTH COURSES

Courses in Public Health Administration, which Rutgers University and this Department conduct jointly each year, were carried on as part of the regular summer session of 1934. Twenty students enrolled and the nine members of the advanced class received certificates from the University for satisfactory completion of the two-summer curriculum. Since these courses were inaugurated in 1926, 126 men and women have enrolled and 79 have received the Rutgers Certificate in Public Health. Fiftyeight of the graduates are now engaged in public health work in New Jersey, and several others are employed in related activities.

The Bureau acts for the Department in managing its share of the program and supplies two teachers.

OTHER WORK

Services rendered and work performed by the Bureau last year, in addition to the activities mentioned, included the following:

| Number of conferences with local health officials on questions pertaining | |
|--|-------|
| to health work | 2,82 |
| Number of conferences with other public officials, physicians and citizens | |
| on matters relating to public health | 2,155 |
| Number of meetings of local boards of health attended | 48 |
| Number of other meetings relating to health matters attended | 163 |
| Number lectures given in summer courses for health officials | 4 |
| Number other talks or lectures given or papers read | 36 |
| Number of municipalities in which assistance was rendered in giving or | |
| reading Schick and Dick tests | 9 |
| Number of specimens collected from humans, either by employees in the | |
| Bureau, or with their aid, to be examined for pathogenic bacteria | 390 |
| Number of other specimens and samples collected for laboratory ex- | |
| amination | 123 |

BARBER REGISTRATION DIVISION

By action of the Department on August 23, 1934, this Division was placed under the general supervision of the Bureau of Local Health Administration. All activities of the Division are based upon provisions of Chapter 175, Public Laws 1933. Certificates are issued to apprentice barbers, permits are issued certain classes of barbers pending examination and certificates of registration are issued experienced practicing barbers. Such certificates are renewable annually. Examinations are held of apprentice barbers and permit holders applying for certificates as registered barbers. Inspections are made at barber shops about the State to check compliance with Sanitary Regulations adopted by the Department pursuant to statute.

The personnel of the Division, as transferred, consisted of three examiners designated in accordance with the act, one inspector and an office force of three.

Many barbers had neglected to renew certificates for the current year. Such violators of the act were being taken into court

on complaint of an examiner. This practice, however, was changed by action of the Department on November 13, 1934, when it voted that no violator of the Barber Registration Law should be proceeded against until such person had first been granted opportunity for a hearing before the Chief of the Bureau. After this policy was established, barbers were granted an opportunity to appear for hearing before authority was given an examiner to proceed against them.

The total amount collected for fees for certificates and permits during the year was \$40,012.16, all of which was turned over to the State Treasurer to become part of the general funds of the State. The appropriation for all purposes of the Division for the year, including salaries, travel, printing, etc., was \$17,600.00. Of this amount, approximately \$16,800 was spent, including payment of some obligations incurred during the previous year. This expenditure does not include any payment for services rendered in the work of the Division by regular employees in the Bureau of Local Health Administration.

Contradictory and illogical provisions in the original law interferred with its practical enforcement. By an amendment sponsored independent of the Department, and approved June 10, 1935, some of the provisions of the original law were changed. One of the changes incorporated in the amendment reduces the annual renewal fee for certificates of registered barbers from \$4.00 to \$3.00. This will doubtless result in some reduction in revenue collected in the administration of this act during the coming year.

There is given below a brief summary of work done by the field force of the Division for the eleven months period from August 1, 1934, to July 1, 1935.

| Number barber shops inspected | 7,653 |
|--|-------|
| Number barber shops reinspected to check on sanitary violations | 463 |
| Number permit holders notified to appear for examination | 1,672 |
| Number permit holders recommended for certificates after examination | 462 |
| Number apprentices examined | 111 |
| Number apprentices who failed to pass examination | 97 |
| Number apprentices recommended for certificates | 14 |
| Number barbers summoned to court on complaint for violating the | |
| Registration Law or Sanitary Regulations | 233 |
| | |

DEPARTMENT OF HEALTH

REPORTED CASES OF CHICKENPOX IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | _ | | | -XI. | MBEI | R OF | CASI | es— | | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|---------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| | 324 | 45 | 32 | 58 | 45 | 34 | 23 | 9 | 6 | 2 | 6 | 30 | 34 |
| Under 1 year | | 92 | 58 | 56 | 60 | 57 | 37 | 19 | 5 | 5 | 14 | 42 | 56 |
| 1 year | | 101 | 85 | 113 | 90 | 79 | 56 | 26 | 6 | 4 | 20 | 69 | 71 |
| 2 years | | 94 | 93 | 127 | 104 | 113 | 70 | 29 | 9 | 5 | 29 | | 108 |
| 3 years | 1065 | | 113 | 159 | 119 | 124 | 82 | 32 | s | 9 | 39 | 95 | 118 |
| 4 years | | | | | | | | | | | | | |
| Under 5 years | 3466 | 499 | 381 | 513 | 418 | 407 | 268 | 115 | 34 | 25 | 108 | 311 | 887 |
| 5 to 9 years | 9405 | 1420 | 1189 | 1344 | 1046 | 1231 | 866 | 118 | 21 | 54 | 292 | 848 | 956 |
| 10 to 14 years | 1131 | 171 | 157 | 171 | 112 | 10. | 107 | 10 | 3 | 4 | 31 | 87 | 128 |
| 15 to 19 years | 148 | 27 | 21 | 30 | 18 | 12 | 14 | 1 | -1 | 0 | 1 | 9 | 11 9 |
| 20 to 24 years | | 8 | 5 | 9 | 7 | 4 | 2 | 0 | 2 | v | ŏ | 8 | 10 |
| 25 to 34 years | 85 | 14 | 11 | 13 | 9 | 11 | 6 | 2 | 1 | Ů, | Ņ | 0 | 6 |
| 35 to 44 years | 39 | 6 | 5 | 7 | 6 | 4 | 0 | 0 | 0 | 0 | | 9 | Ň |
| 45 to 54 years | 6 | 1 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | V | × | 2 |
| 55 to 64 years | | . 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | ŭ | ŏ | ī |
| 65 years and over | 4 | 1 | 0 | 0 | 0 | 1 | 1 | ň | ň | ŏ | • | ő | ā |
| Age not stated | 28 | 3 | 3 | 5 | 1 | 3 | 4 | v | U | | | | |
| - | 14364 | 2150 | 1775 | 2093 | 1617 | 1843 | 1269 | 246 | 66 | 88 | 433 | 1273 | 1516 |

REPORTED CASES AND DEATHS FROM CHICKENPOX IN NEW JEREY

For the Calendar Year 1934 by Age Groups and Sex

| | N | 1210 | Fer | nale | T | otal |
|-------------------|-------|-------------|-------------|--------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| | 149 | | 175 | 0 | 324 | 0 |
| Under 1 year | | , | 233 | ň | 501 | Ó |
| 1 year | 268 | Ň | 3 53 | Ť | 720 | 1 |
| 2 years | 367 | Ů. | 42S | | 856 | ō |
| 3 years | 428 | 0 | | v | 1065 | ň |
| 4 years | 542 | U | 523 | U | 1000 | _ |
| | | | 4540 | | 3466 | |
| Under 5 years | 1754 | 0 | 1712 | 1 | | - 1 |
| 5 to 9 years | 4747 | 0 | 4658 | 1 | 9405 | |
| 10 to 14 years | 571 | 0 | 560 | 0 | 1131 | v |
| 15 to 19 years | 84 | 0 | 64 | 0 | 148 | Ů. |
| 20 to 24 years | 23 | 0 | 26 | 0 | 49 | o |
| 25 to 34 years | 38 | 0 | 47 | 0 | 85 | o o |
| 35 to 44 years | -27 | 0 | . 12 | 0 | 39 | 0 |
| 45 to 54 years | 8 | 0 | 8 | 0 | 6 | 0 |
| 55 to 64 years | 1 | Ó | 2 | 0 | 3 | 0. |
| 65 years and over | ä | Ó | 1 | 0 | . 4 | 0 |
| Age not stated | 15 | 0 | 13 | 0 | 28 | 0. |
| Age not stated | | | | | | |
| Total | 7266 | 0 | 7098 | 2 | 14364 | 2 |

REPORTED CASES OF DIPHTHERIA IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBEI | OF. | CASI | ES | _ | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | Мау | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | 15 | 2 | 1 | 0 | 0 | 2 | 0 | 1 | 2 | 1 | 0 | 3 | 3 |
| 1 year | 29 | 3 | 2 | 5 | 1 | 3 | 0 | 1 | 1 | 0 | v | ə | 3 |
| 2 years | 53 | 9 | 2 | 4 | 7 | 3 | 7 | 4 | 2 | 1 | 2 | 4 | .8 |
| 3 years | 68 | 11 | 6 | 10 | 2 | 4 | 4 | 3 | 3 | 2 | 8 | 8 | 12 |
| 4 years | 83 | 9 | 7 | 11 | 2 | 8 | 7 | 6 | 6 | 5 | 7 | 8 | 7 |
| Under 5 years | 248 | 34 | 18 | 30 | 12 | 20 | 18 | 15 | 14 | 9 | 17 | 23 | 88 |
| 5 to 9 years | | 37 | 26 | 18 | 20 | 31 | 24 | 14 | 16 | 22 | 36 | 42 | 45 |
| 10 to 14 years | | 11 | 7 | ลี | 8 | 14 | 14 | -4 | 3 | 6 | 13 | 12 | 19 |
| 15 to 19 years | | 2 | i | 6 | ĭ | - 2 | -5 | 5 | 2 | 2 | 2 | 4 | |
| | | 8 | - 5 | ĸ | 7 | ō | š | , | - 3 | ī | | - 2 | ä |
| 20 to 24 years | | 2 | 5 | ŭ | ٠ | ŏ | ĭ | 2 | ŏ | ō | - ã | | ĭ |
| 25 to 34 years | | ž | 2 | * | Ň | - : | | - | ~ | × | 7 | ä | 1 |
| 35 to 44 years | | z | 1 | ÷ | v | 1 | Ţ | 2 | ŭ | v | ň | • | |
| 45 to 54 years | 11 | 1 | 1 | + | - 2 | 1 | Ų | Ų | v | 0 | Ų | 1 | 1 |
| 55 to 64 years | 4 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 65 years and over | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Age unknown | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 0 |
| Total | 850 | 100 | 64 | 74 | 57 | 73 | 71 | 44 | 39 | 40 | 75 | 91 | 122 |

REPORTED CASES AND DEATHS FROM DIPHTHERIA IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | 3 | [ale | Fe | male | TT | otal |
|-------------------|-------|--------|-------|--------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 6 | 2 | 9 | 2 | 15 | 4 |
| 1 year | 21 | 8 | 8 | 0 | 29 | 3 |
| 2 years | 32 | 5 | 21 | 5 | 53 | 10 |
| 3 Tears | . 32 | 2 | 36 | 5 | 68 | 7 |
| 4 years | 42 | 4 | 41 | 4 | 83 | 8 |
| | | | | | | |
| Under 5 years | 133 | 16 | 115 | 16 | 248 | 32 |
| 5 to 9 years | 181 | 6 | 150 | 9 | 331 | 15 |
| 10 to 14 years | 49 | 1 | 67 | 2 | 116 | 3 |
| 15 to 19 years | 10 | 1 | 30 | 2 | 40 | 3 |
| 20 to 24 years | 16 | 0 | 28 | . 0 | 44 | 0 |
| 25 to 34 years | 12 | 0 | 27 | 1 | 39 | 1 |
| 35 to 44 years | 4 | 0 | 8 | 0 | 12 | 0 |
| 45 to 54 years | 3 | 0 | 8 | 0 | 11 | 0 |
| 55 to 64 years | 1 | 1 | 3 | 6 | 4 | 1 |
| 65 years and over | 0 | 0 | 1 | 1 | 1 | 1 |
| Age not stated | 1 | 0 | 8 | 0 | 4 | 0 |
| m | 470 | | | | | |
| Total | 410 | 25 | 440 | 31 | 850 | 56 |

REPORTED CASES OF DYSENTERY IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | $\overline{}$ | | | | -NU | IBEF | R OF | CAS | es | | | | |
|-------------------|---------------|----------|------|------|------|------|------|--------------|------|------|------|------|------|
| AGE GROUPS | lotal | Jan. | Feb. | Mar. | Apr. | Мау | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 4 | 0 | 0 |
| 1 year | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 2 | 2 | 8 | 0 |
| 2 years | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 1 | 1 | 0 | Ó |
| 3 years | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 5 | 0 | 0 |
| 4 years | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | Ö | 5 | Ō | Ò |
| Under 5 years | 85 | <u> </u> | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 4 | 17 | 3 | |
| 5 to 9 years | 52 | 1 | 0 | 0 | 0 | 0 | C | 0 | 36 | 3 | 9 | 3 | . 0 |
| 10 to 14 years | 19 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 11 | 1 | 6 | 0 | 0 |
| 15 to 19 years | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | . 0 | 2 | 1 | 0 |
| 20 to 24 years | | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 1 | 2 | 0 | 0 |
| 25 to 34 years | 19 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 12 | 1 | 2 | 0 | Ó |
| 35 to 44 years | | . 5 | 0 | 1 | 1 | 0 | 1 | 0 | 10 | 0 | . 4 | 0 | .0 |
| 45 to 54 years | | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 6 | 1 | 0 | 0 | 0 |
| 55 to 64 years | | 1 | 2 | . 0 | 1 | 1 | 0 | 0 | -1 | 4 | 0 | 0 | 0 |
| 65 years and over | 4 | 0 | 0 | 0 | 0 | .0 | 0 | 0 | 3 | .0 | 1 | 0 | 0 |
| Age not stated | . 2 | 0 | Ó | Ó | 0 | . 0 | 0 | .0 | Ō | 0 | 2 | 0 | ō. |
| Total | 247 | 10 | 3 | 2 | 4 | 1 | | _ | 158 | 15 | 45 | 7 | -0 |

REPORTED CASES AND DEATHS FROM DYSENTERY IN NEW JERSEY

| | X | lale | _—Fei | nale | T | tal— |
|-------------------|-------|-------------|-------|--------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 10 | 1 | 6 | 2 | 16 | 8 |
| 1 year | 9 | 1 | 10 | 0 | 19 | 1 |
| 2 years | 11 | 0 | 5 | 0 | 16 | 0 |
| 3 years | 9 | 1 | . 5 | 0 | 14 | 1 |
| 4 years | 12 | 2 | 8 | 0 | 20 | 2 |
| | | | | | | |
| Under 5 years | 51 | 5 | 34 | 2 | 85 | 7 |
| 5 to 9 years | 24 | 0 | 28 | 0 | 52 | 0 |
| 10 to 14 years | 14 | 0 | 5 | 0 | 19 | 0 |
| 15 to 19 years | 5 | 0 | 8 | 0 | 13 | 0 |
| 20 to 24 years | 8 | 1 | 6 | 0 | 14 | 1 |
| 25 to 34 years | 9 | 0 | 10 | 0 | 19 | 0 |
| 35 to 44 years | 16 | 0 | 12 | 1 | 22 | 1 |
| 45 to 54 years | 5 | 0 | 2 | 0 | 7 | 0 |
| 55 to 64 years | 9 | 1 | . 1 | 1 | 10 | 2 |
| 65 years and over | 1 | 0 | 3 | 1 | 4 | 1 . |
| Age not stated | 2 | 0 | 0 | 0 | 2 | 0 |
| Total | 138 | | 109 | | 247 | 70 |
| | | • | -00 | • | -21 | |

REPORTED CASES OF EPIDEMIC CEREBROSPINAL MENINGITIS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | _817 | MBEE | OF | CASI | ES- | | | | |
|-------------------|-------|------|------|------|------|------|------|------|----------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | Мау | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| | 12 | 9 | 1 | 2 | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 1 | 1 |
| Under 1 year | -ī | - 5 | ō | - 0 | ō | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 year | 5 | ň | ĭ | ŏ | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 years | 3 | ĭ | ō | ŏ | ō | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 4 years | 2 | ī | Õ | ō | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 years | | | | | | | | | — | | | | |
| Under 5 years | 20 | 4 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 0 | 1 | |
| 5 to 9 years | 10 | 0 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 1 | 1 | Ţ | 7 |
| 10 to 14 years | 5 | 0 | 3 | 1 | 0 | 1 | 0 | 1 | ŏ | ŏ | Ť | 0 | ň |
| 15 to 19 years | 4 | 2 | 0 | 0 | 1 | 0 | Ů. | 1 | ŭ | Ň | × | × | × |
| 20 to 24 years | 3 | 0 | 0 | 1 | 0 | 6 | 2 | ŏ | ŭ | Ň | , | ĭ | ň |
| 25 to 34 years | 3 | 0 | 0 | 1 | 0 | 0 | Ų | ň | V | × | â | ā | 1 |
| 35 to 41 years | 2 | 0 | 0 | 0 | 0 | 0 | 1 | Ö | , | V | Ň | 1 | ā |
| 45 to 54 years | 4 | 1 | 0 | 0 | 0 | 1 | v | ŏ | á | Ň | ň | ñ | ŏ |
| 55 to 64 years | . 1 | 0 | 0 | 1 | Ň | ŏ | × | Ň | ň | ň | ň | ň | ŏ |
| 65 years and over | 0 | 0 | 0 | Ŏ | ŭ | Ň | Ň | ň | ň | ŏ | ŏ | ŏ | ŏ |
| Age not stated | 0 | 0 | o | U | U | v | | | <u> </u> | | | | |
| Total | 52 | 7 | 3 | 6 | 6 | 3 | 7 | 4 | 2 | 3 | 3 | 4 | 4 |

REPORTED CASES AND DEATHS FROM EPIDEMIC CEREBROSPINAL MENINGITIS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | 31 | Iale | —Fei | nale | | tal |
|-------------------|-------|--------|-------|--------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| AGE GROUPS | Cases | 20000 | | | 19 | 4 |
| Under 1 year | 8 | 2 | 9 | | 1 | 9 |
| 1 year | 1 | 1 | U | , , | - 5 | ā |
| 2 years | 1 | 4 | 1 | Ü | | ā |
| 3 years | 2 | 0 | 1 | 0 | 5 | × |
| 4 years | 1 | 0 | 1 | 0 | 2 | v |
| 4 years | | | | | | |
| 1 F | 8 | 7 | 12 | 3 | 20 | 10 |
| Under 5 years | š | 2 | 5 | 2 | 10 | 4 |
| 5 to 9 years | š | ā | 2 | 0 | 5 | 0 |
| 10 to 14 years | ň | ň | 2 | 1 | 4 | 2 |
| 15 to 19 years | - 4 | : | ā | ō | 3 | 1 |
| 20 to 24 years | 8 | ÷ | 1 | ň | 3 | 1 |
| 25 to 34 years | 2 | 1 | | Ŏ. | . 9 | 0 |
| 35 to 44 years | 2 | 0 | ů. | 0 | - Ā | . 2 |
| 45 to 54 years | 4 | 2 | · · | . 0 | 7 | ō . |
| 55 to 64 years | 0 | . 0 | 1 | Ų . | | ň |
| 65 years and over | 0 | 0 | 0 | ų. | v | ŏ |
| Age not stated | 0 | 0 | 0 | 0 | U | . 0 |
| Age not stated | | | | | | |
| Total | 29 | 14 | 23 | 6 | 52 | 20 |

REPORTED CASES OF GERMAN MEASLES IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | _XT0 | MREI | R OF | CASI | es- | | | | |
|-------------------|-------|------|------|------|------|------|--------|----------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | Мау | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| | | | | 6 | 10 | 5 | 13 | 9 | 6 | 3 | 4 | 1 | 3 |
| Under 1 year | 66 | 5 | 1 | | | 16 | 19 | 22 | | 2 | 6 | 1 | 4 |
| 1 year | 106 | 3 | 2 | 9 | 14 | | | 5 | 8 | | | | 5 |
| 2 years | 96 | 2 | 2 | 5 | 12 | 24 | 26 | | | 4 2 | 3 | | |
| 3 years | 86 | 2 | 0 | 6 | s | 19 | 24 | 11 | 10 | 2 | 3 | 3 2 | • |
| S years | 100 | 1 | 1 | 5 | 10 | 29 | 34 | 10 | 1 | 3 | 3 | - | 1 |
| 4 years | | | | | | | | | | | | | |
| | 454 | 13 | 6 | 31 | 54 | 93 | 116 | 57 | 82 | 14 | 16 | . 8 | 14 |
| Under 5 years | | 4 | 12 | 119 | 325 | 782 | 865 | 48 | 2 | 4 | 11 | 21 | 17 |
| 5 to 9 years | 2210 | | 6 | 48 | 184 | 414 | 327 | 16 | 3 | 4 | 1 | 5 | 13 |
| 10 to 14 years | 1020 | 5 | | | 85 | 117 | 58 | 3 | õ | ō | 0 | 0 | 3 |
| 15 to 19 years | 240 | 1 | 1 | 33 | | | | 6 | ŏ | ŏ | Ö | ñ | ñ |
| 20 to 24 years | 59 | 0 | 1 | 3 | 13 | 22 | 14 | | - 1 | ŏ | ĭ | ŏ | ň |
| 25 to 34 years | 38 | 1 | 0 | 0 | 8 | 17 | 6 5 | 4 | Ť | ŏ | ō | ŏ | ň |
| 25 to 44 years | 12 | 1 | 0 | Ó | 1 | 5 | 5 | 0 | Ų | | | | × |
| 35 to 44 years | 1 | ō | 0 | 1 | 0 | 0 | 0 | Ö | 0 | 0 | 0 | 0 | v |
| 45 to 54 years | õ | ŏ | ō | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ų |
| 55 to 64 years | ŏ | ŏ | ň | ň | ŏ | ō | Ó | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 years and over | 2 | v | ŏ | Ť. | Ť | 9 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| Age not stated | 4 | U | U | - | | | | <u> </u> | | | | | |
| Total | 4053 | 25 | 26 | 236 | 621 | 1452 | 1387 | 134 | 38 | 22 | . 29 | 35 | 48 |

REPORTED CASES AND DEATHS FROM GERMAN MEASLES IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | 3 | Iale | ←—Fe | male- | T | otal—— |
|-------------------|-------|-------------|-------|--------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 31 | 0 | 35 | 0 | 66 | 0 |
| 1 year | 43 | 0 | 63 | 0 | 106 | 0 |
| 2 years | 50 | 1 | 46 | 0 | 96 | 1 |
| 3 years | 37 | Q | 49 | 0 | 86 | 0 |
| 4 years | 48 | 0 | 52 | 0 | 100 | 0 |
| Under 5 years | 209 | 1 | 245 | | 454 | · 1 |
| 5 to 9 years | 1072 | 0 | 1138 | 0 | 2210 | 0 |
| 10 to 14 years | 511 | 0 | 515 | 0 | 1026 | 0 |
| 15 to 19 years | 123 | 0 | 123 | 0 | 246 | 0 |
| 20 to 24 years | 25 | 0 | 34 | 0 | 59 | 0 |
| 25 to 34 years | 8 | 0 | 30 | 0 | 38 | 0 |
| 35 to 44 years | 2 | 0 | 10 | 0 | 12 | 0 |
| 45 to 54 years | 1 | 0 | 0 | 0 | 1 | 0 |
| 55 to 64 years | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 years and over | 0 | 0 | 0 | 0 | 0 | 0 |
| Age not stated | 2 | 0 | 5 | 0 | 7 | 0 |
| | | | | _ | 4070 | |
| Total | 1953 | \1 | 2100 | U | 4053 | . 1 |

REPORTED CASES OF INFLUENZA IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NE | MBER | 3 OF | CASI | | | | | |
|-------------------|-------|------|--------|------|-----|------|------|------|-----|-----|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | | | | | | | Oct. | Nov. | Dec. |
| Under 1 year | 20 | 0 | 3 | 1 | 2 | 2 | 3 | 0 | 1 | 2 | 0 | 1 | 5 |
| 1 7ear | 48 | 4 | 2 | 2 | 4 2 | 7 | 1 | 0 | 2 | 2 | 4 | 3 | 17 |
| 2 years | 38 | 2 | 0 | 3 | 2 | 1 | 0 | 1 | 0 | 2 | 6 | 1 | 20 |
| 3 years | 51 | 1 | 0 | 4 | 2 | 2 | 3 | 0 | 2 | 1 | 4 | 5 | 27 |
| 4 years | 61 | 2 | 8 | 3 | 2 | 4 | 1 | 0 | 1 | 2 | 6 | 3 | 34 |
| Under 5 years | 218 | 9 | 8 | 13 | 12 | 16 | 8 | 1 | | 9 | 20 | 13 | 103 |
| 5 to 9 years | 266 | 9 | 8 | . 2 | 16 | 16 | ĭ | 2 | 5 | 2 | 9 | 16 | 180 |
| 10 to 14 years | 140 | 5 | 4 | ō | 3 | 1 | 3 | ō | 6 | 5 | 3 | 6 | 104 |
| 15 to 19 years | 132 | 11 | 4 5 | 6 | 3 | 11 | 1 | 1 | 3 | 0 | 2 | 5 | 84 |
| 20 to 24 years | 109 | 11 | 6 | 7 | 5 | 5 | 1 | 0 | 6 | 2 | 2 | 6 | 58 |
| 25 to 34 years | 235 | 15 | 12 | 11 | 5 | 10 | 4 | 0 | 3 | 4 | 18 | 18 | 135 |
| 35 to 44 years | 244 | . 17 | .16 | 14 | 10 | 7 | . 1 | 0 | 4 | 7 | 12 | 11 | 145 |
| 45 to 54 years | | 17 | 15 | 14 | 17 | 6 | 0 | 0 | 1 | . 2 | 11 | õ | 92 |
| 55 to 64 years | 99 | 18 | 14 | 11 | 6 | . 0 | 2 | 0. | 0 | 1 | 1 | 7 | 39 |
| 65 years and over | 63 | 10 | 6 | 7 | 1. | 2 | 1 | 2 | 1 | 1 | 3 | 8 | 26 |
| Age not stated | 9 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | . 0 | 0 | . 0 | 0 | 9 |
| Total | 1695 | 122 | 94 | 85 | 78 | 74 | 22 | 6 | 35 | 33 | 81 | 90 | 975 |

REPORTED CASES AND DEATHS FROM INFLUENZA IN NEW JERSEY

| | | | _ | | | |
|-------------------|-------|--------|---------|--------|-------|--------|
| | 1 | fale—— | Fer-Fer | nale—_ | T | otal |
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 9 | 7 | 11 | 6 | 20 | 13 |
| 1 year | 23 | 4 | 25 | 2 | 48 | 6 |
| 2 years | 22 | 0 | 16 | 1 | 38 | 1 |
| 3 years | 30 | 1 | 21 | 1 | 51 | 2 |
| 4 years | 30 | 0 | 31 | 1 | 61 | 1 |
| | | | | | | |
| Under 5 years | 114 | 12 | 104 | 11 | 218 | 23 |
| 5 to 9 years | 134 | 2 | 132 | 6 | 266 | 8 |
| 10 to 14 years | 73 | 6 | 67 | 5 | 140 | 11 |
| 15 to 19 years | 72 | 5 | 60 | 5 | 132 | 10 |
| 20 to 24 years | 34 | 3 | 75 | 5 | 109 | 8 |
| 25 to 34 years | 100 | 17 | 185 | 9 | 235 | 26 |
| 35 to 44 years | 111 | 22 | 133 | 12 | 244 | 34 |
| 45 to 5± years | 94 | 31 | 86 | 25 | 180 | 56 |
| 55 to 64 years | 47 | 22 | 52 | 20 | 99 | 42 |
| 65 years and over | 28 | 47 | 35 | 44 | 63 | 91 |
| Age not stated | 3 | 0 | 6 | 0 | 9 | 0 |
| Total | 810 | 167 | 885 | 142 | 1695 | 309 |

REPORTED CASES OF LETHARGIC ENCEPHALITIS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | _NU | MBEI | R OF | CAS | ES | | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|----------------|------|-------------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 year | ĭ | Ö | ō | ō | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 years | î | Ď | ō | 0 | ō | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 years | | ñ | ŏ | ō | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 years | | ŏ | ō | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - 0 | 0 |
| • | | | | | 1 | | | | | 0 | - 0 | | 0 |
| Under 5 years | | | 1 | ň | ń | ñ | ŏ | ň | ō | ō | 0 | 1 | 1 |
| 5 to 9 years | | × | á | Ň | ň | ň | ň | ŏ | ō | i | 0 | 0 | 0 |
| 10 to 14 years | | × | Š | Ň | × | ň | ĭ | ň | 2 | ī | 0 | 0 | 0 |
| 15 to 19 years | | Š | 1 | ň | 1 | ŏ | ô | ŏ | ō | ī | 0 | 0 | 1 |
| 20 to 24 years | | á | 7 | ň | ā | ň | ň | ĭ | ò | ō | 0 | . 0 | 0 |
| 25 to 34 years | | Ň | 1 | ň | ő | 1 | ñ | ō | õ | ė | 0 | 1 | 2 |
| 35 to 44 years | | × | | × | ī | ā | ň | ŏ | ō | i | 1 | 0 | 0 |
| 45 to 54 years | | × | Ť | ň | • | ň | ň | 1 | ō | 2 | 2 | Ð | 0 |
| 55 to 64 years | | Ň | • | ň | ň | ň | Ť | ô | ō | ō | 0 | 0 | 0 |
| 65 years and over | | ő | i | ŏ | ŏ | Ö | ô | ŏ | ŏ | ō | Ó | 0 | 1 |
| Total | | | 8 | | -4 | 3 | 3 | 2 | | 6 | -3 | | 5 |

REPORTED CASES AND DEATHS FROM LETHARGIC ENCEPHALITIS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | | lale | —Fer | nale | T | otal |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 0 | 0 0 0 | 0 1 1 | 0 1 0 | 0 1 1 | 0 1 0 |
| 3 years | | | <u>o</u> | | -0 | |
| Under 5 years | 2 0 | 2 | 1 | 0 | 3 | 0 |
| 15 to 19 years | 6 4 0 | 3 0 1 | 0 2 2 | 8 2 | 6 2 | 3 |
| 35 to 44 years | 4 1 4 | 5 1 4 | 3 2 2 | 0 1 1 | 3 6 | 5 5 |
| 65 years and over | 0 | 0 | 2 | 0 | 2 2 | 0 |
| Total | 21 | 16 | 19 | 11 | 40 | 27 |

REPORTED CASES OF MEASLES IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NI | MBEI | R OF | CAS | ES | | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | Мау | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | | 19 | 18 | 40 | 59 | 48 | 31 | 19 | 13 | 4 | 4 | 8 | 7 |
| 1 year | | 32 | 49 | 74 | 137 | 144 | 90 | 45 | 18 | 8 | - 7 | 15 | 17 |
| 2 years | | 45 | 73 | 124 | 157 | 185 | 143 | 54 | 9 | 9 | 9 | 7 | 11 |
| 3 years | | 69 | 98 | 148 | 212 | 232 | 150 | 68 | 14 | 5 | 3 | 12 | 16 |
| 4 years | 1138 | 68 | 118 | 165 | 217 | 236 | 213 | 66 | 17 | 2 | 2 | 12 | 22 |
| | | 238 | 356 | 551 | 782 | 845 | 627 | 252 | 71 | 28 | 25 | 54 | 73 |
| Under 5 years | 9991 | 421 | | 1549 | | | 1784 | 266 | 33 | 27 | 41 | 95 | 96 |
| 5 to 9 years | 3020 | 99 | 149 | 242 | 329 | 449 | 356 | 51 | 13 | 3 | 6 | 17 | 17 |
| 10 to 14 years | | 8 | 53 | 52 | 60 | 55 | 35 | 5 | ő | ŏ | ő | 3 | 2 |
| 15 to 19 years | | - 7 | 6 | 34 | 10 | 24 | 17 | 4 | ĭ | ŏ | ō | 2 | 1 |
| 20 to 24 years | | ٠ | 7 | Ř | - 6 | 13 | 21 | î | 2 | 1 | 1 | 0 | в |
| 25 to 34 years | | 2 | 8 | ĭ | 4 | 4 | 3 | ō | ō | 0 | 0 | 0 | 0 |
| 45 to 54 years | | ĭ | 2 | ī | 2 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 55 to 64 years | | â | - 5 | ī | ŏ | ĩ | ō | ō | 0 | 0 | 0 | 0 | 0 |
| 65 years and over | | ŏ | ŏ | 2 | ŏ | ĩ | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Age not stated | | ĭ | 5 | 6 | 8 | 10 | 9 | 2 | 0 | 0 | 1 | 0 | 0 |
| Motel | 15155 | 776 | 1537 | 2417 | 2920 | 3450 | 2854 | 582 | 120 | 59 | 74 | 171 | 195 |

REPORTED CASES AND DEATHS FROM MEASLES IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | | fale | Fer | nale | T | otal |
|-------------------|--------------|--------|-------|--------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 142 | 8 | 128 | 2 | 270 | . 5 |
| 1 year | 307 | 10 | 329 | 4 | 636 | 14 |
| 2 years | 403 | 4 | 421 | 5 | 826 | 9 |
| 3 years | 504 | 3 | 523 | 2 | 1027 | 5 |
| 4 years | 568 | 0 | 570 | 2 | 1138 | 2 |
| • | | | | | | |
| Under 5 years | 1926 | 20 | 1971 | 15 | 3897 | 35 |
| 5 to 9 years | 4504 | 3 | 4522 | 6 | 9026 | 9 |
| 10 to 14 years | 857 | 2 | 874 | 3 | 1731 | 5 |
| 15 to 19 years | 151 | 0 | 122 | 0 | 273 | 0 |
| 20 to 24 years | 27 | 0 | 49 | 0 | 76 | 0 |
| 25 to 34 years | 26 | 0 | 43 | 0 | 69 | 0 |
| 35 to 44 years | 11 | 0 | 12 | 0 | 23 | 0 |
| 45 to 54 years | 7 | 0 | 6 | 0 | 13 | 0 |
| 55 to 64 years | 0 | 0 | 2 | 0 | 2 | 0 |
| 65 years and over | 1 | 0 | 2 | 1 | 3 | 1 |
| Age not stated | 21 | 0 | 21 | 0 | 42 | . 0 |
| | | 25 | 7624 | 25 | 15155 | 50 |
| Total | 75 31 | 25 | 1021 | 40 | TOTOO | 90 |

REPORTED CASES OF MUMPS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBEI | R OF | CASI | 2S | | | | |
|-------------------|-------|------|------|------|------|------|--------|------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | Мау | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | 14 | 5 | 2 | 1 | 2 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | Ð |
| 1 year | 59 | 10 | 7 | 5 | 7 | 5 | 10 | 3 | 2 | 3 | 1 | 5 | 1 |
| 2 years | 88 | 11 | 2 | 10 | 13 | 9 | 11 | 4 | 2 | 2 | 12 | 5 | 7 |
| 3 years | 103 | 12 | 5 | 10 | 10 | 9 | 9 | 8 | | 5 | 8 | 15 | 9 |
| 4 years | 136 | 12 | 13 | 13 | 17 | 14 | 9 | 10 | 4 | 8 | 15 | 11 | 15 |
| Under 5 years | 400 | 50 | 29 | 39 | 49 | 38 | 39 | 26 | 11 | 13 | 37 | 37 | 32 |
| 5 to 9 years | | 194 | 183 | 281 | 252 | 280 | 182 | 52 | 23 | 24 | 127 | 235 | 157 |
| 10 to 14 years | 588 | 46 | 64 | 83 | 101 | 98 | 36 | 18 | 16 | 7 | 22 | 60 | 37 |
| 15 to 19 years | 92 | 5 | 12 | 9 | 21 | 13 | | -6 | ŏ | š | -8 | 8 | 7 |
| 20 to 24 years | 52 | ĭ | | 4 | -6 | -8 | 5 2 | 2 | 3 | 7 | 3 | 10 | 8 |
| 25 to 34 years | 66 | ā | 10 | 5 | 5 | 14 | 7 | - 5 | 3 | ō | 2 | -6 | 10 |
| 35 to 44 years | 31 | 2 | ĩ | 2 | 4 | -6 | 2 | 2 | 2 | ĭ | 2 | 5 | 2 |
| 45 to 54 years | 7. | 1 . | ē | . 0 | 1 | ō | . 0 | - 0 | · ō | ī | 0 | . 3 | . 1 |
| 55 to 64 years | 6 | 1 | . 0 | - 0 | 3 | 1 | ō | Ó | ō | ī | ō | ō | Ö |
| 65 years and over | | ō | ŧ. | 1 | ī | 0 | Õ | 0 | ŏ | ō | ō | ŏ | 1 |
| Age not stated | 11 | ŏ | ō | ī | 3 | Õ | 2 | 2 | ő | ŏ | 1 | ī | ī |
| Total | 3246 | 304 | 303 | 425 | 446 | 458 | 275 | 108 | 58 | 51 | 197 | 365 | 256 |

REPORTED CASES AND DEATHS FROM MUMPS IN NEW JERSEY

| | 3 | fale | Fer | nale | T | otal |
|-------------------|-------|--------|-------|--------|-------------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 8 | . 0 | 6 | 1 | 14 | 1 |
| 1 year | 36 | 1 | 23 | 0 | 59 | 1 |
| 2 years | 46 | 0 | 42 | 0 | 88 | 0 |
| 3 years | 56 | 0 | 47 | 0 | 103 | 0 |
| 4 years | 75 | 0 | 61 | 0 | 136 | 0 |
| | | | | | | |
| Under 5 years | 221 | 1 | 179 | 1 | 400 | 2 |
| 5 to 9 years | 1042 | 0 | 948 | 0 | 1990 | 0 |
| 10 to 14 years | 318 | 0 | 270 | 0 | 5 88 | 0 |
| 15 to 19 years | 57 | 0 | 33 | 0 | 92 | 0 |
| 20 to 24 years | 17 | 0 | 35 | 0 | 52 | 0 |
| 25 to 34 years | 32 | 0 | 34 | 0 | 66 | 0 |
| 85 to 44 years | 15 | 0 | 16 | 0 | 31 | 0 |
| 45 to 54 years | 4 | 0 | 3 | 0 | 7 | 0 |
| 55 to 64 years | 2 | 0 | 4 | 0 | 6 | 0 . |
| 65 years and over | 2 | 0 | 1 | 1 | 3 | 1 |
| Age not stated | 5 | 0 | 6 | 0 | 11 | 0 |
| | | | | | | _ |
| Total | 1715 | 1 | 1531 | 2 | 3246 | 3 |

REPORTED CASES OF PARA-TYPHOID FEVER IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBEI | R OF | CASI | .s- | | | | |
|-------------------|-------|----------|----------|------|------|------|------|------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Under 1 year | ň | ň | ŏ | ŏ | ō | Ô | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 year | ŏ | ŏ | ő | ŏ | õ | ŏ | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 years | ĭ | ŏ | ő | ñ | i | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 years | ō | ň | ŏ | ě | ō | ō | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 years | | | | | | | | | | | | _ | |
| Under 5 years | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | v |
| 5 to 9 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | · · | ň |
| 10 to 14 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | v |
| 15 to 19 years | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | Ü | 0 | v. |
| 20 to 24 years | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | o. | 0 | v | V | Ň |
| 25 to 34 years | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | Ň | V | ň |
| 35 to 44 years | | 0 | 9 | 0 | 0 | 0 | Ō. | | 0 | 0 | v | , v | Ň |
| 45 to 54 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | ò | 0 | v | v | Ä | ň |
| 55 to 64 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ô | 9 | v | v | Ň | ň |
| 65 years and over | 4 | 0 | 9 | 0 | 0 | 0 | 0 | ň | 4 | 0 | v | × | ň |
| Age not stated | 0 | 0 | 0 | 0 | 0 | 0 | 0 | U | U | | | | |
| Total | 9 | <u>_</u> | <u>_</u> | 0 | | 0 | 0 | 0 | 6 | 2 | 0 | 0 | 0 |

REPORTED CASES AND DEATHS FROM PARA-TYPHOID FEVER IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | | lale- | Cases | nale Deaths | Cases | tal—— Deaths |
|-------------------|-------|--------|-------|----------------|-------|-----------------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cuscs | |
| Under 1 year | O | ٥ | 0 | 0 | - 0 | 0 |
| | ŏ | ň | À | ō | 0 | 0 |
| 1 year | v | | × | Ă | ā | 0 |
| 2 years | 0 | 0 | Ų | ů. | š | ň |
| 3 years | 6 | . 0 | 1 | U | + | ž |
| 4 years | 0 | 6 | 0 | 0 | 0 | v |
| 4 Years | • | | | | | _ |
| | | | - 1 | Δ | 1 | 0 |
| Under 5 years | v | v | | ž | ñ | ñ |
| 5 to 9 years | 0 | 0 | U | Ų | č | ň |
| 10 to 14 years | 0 | 0 | 0 | 0 | Ų | Ų |
| 15 to 19 years | 9 | 1 | 0 | 0 | 2 | 1 |
| | ~ | ā | Ã | 0 | 0 | 0 |
| 20 to 24 years | . 0 | ų. | | | . 5 | 2 |
| 25 to 34 years | 1 | 1 . | | Ť | | |
| 35 to 41 years | 0 | 0 | 0 | U | Ų | |
| 45 to 54 years | . 0 | ė. | . 0 | 0 | 0 | U |
| | . ŏ | . ŏ | 0 | 0 | 0 | 0 . |
| 55 to 64 years | Ÿ., | Š. | | o. | 4 | 3 |
| 65 years and over | 4 | ě | Ü | ۷. | | Ã |
| Age not stated | 0 | 0 | U | U | v | ٠ |
| | | | | | _ | |
| Total | 7 | 5 | 2 | 1 | 9 | 6 |

REPORTED CASES OF PNEUMONIA IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBEI | R OF | CASI | ≅S | | | | |
|---------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| | 415 | 39 | 32 | 53 | 69 | 83 | 24 | 9 | 9 | 14 | 21 | 24 | 88 |
| Under 1 year | 288 | 28 | 36 | 29 | 55 | 46 | 19 | 11 | 5 | 8 | 9 | 12 | 30 |
| 1 year | 206 | 19 | 13 | 23 | 44 | 42 | s | 9 | 6 | 2 | 8 | 13 | 19 |
| 2 years | 165 | 23 | 10 | 18 | 40 | 22 | 11 | 7 | 6 | 3 | 5 | 6 | 14 . |
| 3 years | 156 | 11 | 19 | 22 | 37 | 19 | 7 | 3 | 7 | 6 | 7 | 5 | 13 |
| 4 years | 100 | | | | | | | | | | | | |
| Under 5 years | 1230 | 120 | 110 | 145 | 245 | 212 | 69 | 39 | 33 | 33 | 50 | 60 | 114 |
| 5 to 9 years | | 43 | 54 | 62 | 95 | 90 | 29 | 12 | 10 | 6 | 20 | 32 | 6 9 |
| 10 to 14 years | 188 | 19 | 27 | 20 | 16 | 16 | 7 | 7 | 8 | 8 | 4 | 12 | 44 |
| 15 to 19 years | 150 | 14 | 20 | 14 | 22 | 10 | 7 | 4 | 7 | 3 | 6 | 6 | 37 |
| 20 to 24 years | 182 | 25 | 27 | 25 | 20 | 10 | 9 | 6 | 10 | 7 | อั | 8 | 30 |
| 25 to 34 years | 422 | 60 | 65 | 51 | 35 | 35 | 9 | 13 | 9 | 14 | 19 | | 76 |
| 35 to 44 years | 469 | 70 | 79 | 59 | 39 | 41 | 15 | 8 | 11 | 17 | 25 | | 75 |
| 45 to 54 years | | 77 | 77 | 87 | 47 | 36 | 27 | 12 | 16 | 14 | 30 | | 66 |
| 55 to 64 years | | 73 | 74 | 69 | 47 | 42 | 14 | 8 | 11 | 8 | 15 | | |
| 65 years and over | | 99 | 80 | 89 | 65 | 51 | 27 | 23 | 19 | 21 | 34 | | 89 |
| Age not stated | | 2 | 0 | 4 | 5 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 |
| age not beated vivi | | | | | | | | | | | | - | 669 |
| Total | 4814 | 602 | 613 | 623 | 636 | 543 | 213 | 133 | 134 | 132 | 208 | 306 | 009 |

REPORTED CASES AND DEATHS FROM PNEUMONIA IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | \ | Iale | Fei | nale—_ | T | otal | |
|-------------------|-------|--------|-------|--------|-------|--------|--|
| AGE GROUPS | (**** | Deaths | Cases | Deaths | Cases | Deaths | |
| Under 1 year | 229 | 255 | 186 . | 183 | 415 | 438 | |
| I vear | 176 | 62 | 112 | 49 | 288 | 111 | |
| 2 years | 100 | 24 | 106 | 29 | 206 | 53 | |
| 3 rears | 89 | ii | 76 | 76 | 165 | 27 | |
| 4 years | Š5 | 12 | 71 | 12 | 156 | 24 | |
| | 679 | 364 | 551 | 289 | 1230 | 653 | |
| Under 5 years | 301 | 36 | 221 | 26 | 522 | 62 | |
| 5 to 9 years | 106 | 24 | - S2 | 22 | 188 | 46 | |
| 10 to 14 years | 91 | 26 | 59 | 13 | 150 | 39 | |
| 15 to 19 years | 100 | 29 | 52 | 15 | 182 | 44 | |
| 20 to 24 years | 251 | 86 | 171 | 74 | 422 | 160 | |
| 35 to 44 years | 315 | 186 | 154 | 99 | 469 | 285 | |
| 45 to 54 years | 350 | 229 | 181 | 126 | 531 | 355 | |
| 55 to 64 years | 262 | 235 | 187 | 159 | 449 | 394 | |
| to years and over | 313 | 369 | 343 | 395 | 656 | 764 | |
| Age not stated | 10 | 0 | 5 | 0 | 15 | 0 | |
| Total | 2778 | 1584 | 2036 | 1218 | 4814 | 2802 | |

REPORTED CASES OF ACUTE ANTERIOR POLIOMYELITIS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBEI | ROF | CAS | ES | | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 |
| 1 year | | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | . 0 |
| 2 years | | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | . 0 |
| 3 years | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | - 0 | . 0 |
| 4 years | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 0 | 0 | 0 |
| Under 5 years | 20 | 0 | 0 | 1 | 0 | 1 | 3 | 3 | 3 | 6 | 1 | | 1 |
| 5 to 9 years | | i | ě | ō | 1 | 1 | 2 | 3 | 10 | 5 | 0 | 0 | i õ |
| 10 to 14 years | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 |
| 15 to 19 years | | 0 | 0 | e | 0 | 0 | 1 | 1 | 2 | 0 | 0 | - 0 | 1 |
| 20 to 24 years | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| 25 to 34 years | 4 | 1 | 0. | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | . 0 | 0 |
| 35 to 44 years | 1 | Θ | 0 | 1)- | . 0 | : 0 | 0 | 0 | 0 | , 0- | . 0 | - 0 | 1 1 |
| 45 to 54 years | 0 | . 0 | . 0 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | - 0 | , 0 |
| 55 to 64 years | . 0 | 0 | - 0 | 0 | 0 | . 0 | 0 | 0 | | | . 0 | - 0 | . 0 |
| 65 years and over | 0 | 0 | 0 | 0 | 0 | 0 | .0 | 0 | 0 | | . 0 | . 0 | · • |
| Age not stated | . 0 | 0 | . 0 | 0 | . 0 | . 0 | 0 | . 0 | 0 | 0 | 0 | . 0 | . 0 |
| Total | 62 | 2 | 1 | | 1 | 2 | 7 | s | 21 | 14 | | 1 | 3 |

REPORTED CASES AND DEATHS FROM ACUTE ANTERIOR POLIOMYELITIS IN NEW JERSEY

| | | tale | | male | | otal |
|-------------------|-------|--------|-------|--------------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 1 | 0 | 2 | 0 | 3 | 0 |
| 1 year | 2 | 0 | 3 | 2 | 5 | 2 |
| 2 years | 1 | 0 | 3 | 1 | 4 | 1 |
| 3 years | 2 | U | 1 | 0 | 3 | 0 |
| 4 years | 2 | 0 . | 3 | 0 | 5 | 0 |
| | | | | | | |
| Under 5 years | s | 0 | 12 | 3 | 20 | 3 |
| 5 to 9 years | 11 | 3 | 12 | 0 | 23 | 3 |
| 10 to 14 years | 6 | 1 | 1 | 0 | 7 | 1 |
| 15 to 19 years | 5 | 1 | U | 0 | 5 | 1 |
| 20 to 24 years | 0 | 1 | 2 | 1 | 2 | 2 |
| 25 to 34 years | 1 | 1 | ü | 1 | 4 | 2 |
| 35 to 44 years | 1 | C C | 0 | 0 | 1 | 0 |
| 45 to 54 years | G | Ű | 0 | 1 | 0 | 1 |
| 55 to 64 years | Ü | 6 | Ð | O. | 0 | 0 |
| 65 years and over | U | U | 0 | 0 | 0 | 0 |
| Age not stated | 0 | 0 | v | U | Ó | 0 |
| Total | 32 | 7 | 30 | _ | 62 | 13 |

REPORTED CASES OF SCARLET FEVER IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -SU | MBE | 3 OF | CAS | ES- | | | | |
|-------------------|--------------|------|------|------|------|-----|------|------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | 26 | 4 | 5 | | | 1 | 1 | . 1 | 0 | 0 | O | 2 | 5 |
| 1 year | | 22 | 18 | 11 | 16 | 16 | в | 2 | + | 1 | ã | 6 | . 5 |
| | | 28 | 28 | 39 | 48 | 28 | 15 | 11 | 3 | 4 | 12 | 12 | 21 |
| 2 years | | 51 | 45 | 53 | 65 | 41 | 25 | 14 | 11 | 6 | 19 | 21 | 30 |
| 4 years | | 77 | 64 | 67 | 68 | 51 | 33 | 13 | 13 | 8 | 24 | 41 | 41 |
| - | | | | | | | | | | 19 | 60 | 82 | 102 |
| Under 5 years | 1298 | 212 | 160 | 173 | 201 | 137 | 80 | -11 | 31 | | 203 | 232 | 244 |
| 5 to 9 years | 2897 | 352 | 322 | 420 | 370 | 399 | 185 | 71 | 34 | 84 | 54 | 88 | 117 |
| 10 to 14 years | 1213 | 139 | 177 | 164 | 164 | 165 | 76 | 27 | 17 | 25 | | 17 | 26 |
| 15 to 19 years | | 43 | 38 | 58 | 38 | 33 | 13 | 4 | 3 | - 7 | 13 | | 6 |
| 20 to 24 years | | 23 | 23 | 28 | 20 | 17 | 7 | 2 | - 2 | 4 | 5 | 10 | 20 |
| 25 to 34 years | | 31 | 29 | 33 | 41 | 27 | 11 | 3 | 2 | 4 | 5 | 22 | |
| 35 to 44 years | | 15 | 12 | 15 | 14 | 8 | .5 | • | 2 | - 4 | - 8 | 7 | 10 |
| 45 to 54 years | | 3 | 8 | 7 | 7 | 2 | 2 | Ð | 0 | 1 | 1 | 3 | 4 |
| 55 to 64 years | | 0 | 0 | 1 | 4 | 2 | - 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 years and over | | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Age not stated | | 1 | 4 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 3 | 1 | 2 |
| | <u>con 1</u> | 600 | 572 | 004 | 261 | 701 | 383 | 148 | 91 | 123 | 347 | 462 | 531 |

REPORTED CASES AND DEATHS FROM SCARLET FEVER IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | 1 | fole | ——Fei | nale— | T | otal—— |
|-------------------|-------|--------|-------|-------------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| | 11 | 0 | 15 | 0 | 26 | 0 |
| Under 1 year | 54 | ü | 58 | ő | 112 | 5 |
| 1 year | | ., | 122 | Ę | 249 | 5 |
| 2 years | 127 | 0 | | 9 | 411 | ě |
| 3 years | 206 | 1 | 205 | | | 7 |
| 4 years | 260 | 2 | 240 | 9 | 500 | • |
| - • | | | | | | |
| Under 5 years | 95S | 6 | 640 | 19 | 1298 | 25 |
| 5 to 9 years | 1329 | 11 | 1568 | 8 | 2897 | 19 |
| | 620 | 9 | 593 | 4 | 1213 | 6 |
| 10 to 14 years | 143 | | 145 | 2 | 288 | 5 |
| 15 to 19 years | 46 | 2 | 101 | 9 | 147 | 2 |
| 20 to 24 years | | | 150 | - | 228 | 4 |
| 25 to 34 years | 78 | 1 | 61 | 2 | 95 | ā |
| 35 to 44 years | | 0 | | X | 38 | , i |
| 45 to 54 years | . 10 | 1 | 28 | - 11 | | • |
| 55 to 64 years | 2 | 1 | . 5 | . 6 | 7 | - 1 |
| 65 years and over | 1 | . 0 | 2 | 1 | 3 | 1 |
| Age not stated | 9 | 0 | 11 | 0 | 20 | . 0 |
| Age not stated | | | | | : | |
| Total | 2930 | 25 | 3304 | 39 | 6234 | 64 |

REPORTED CASES OF TETANUS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBEI | ROF | CASI | ES | | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | sep. | Oct. | Nov, | Dec. |
| Under 1 year | | 0 | a | 0 | 0 | - 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 year | ŏ | ő | 0 | ö | Ö | 0 | Ô | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 years | ő | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 years | 0 | 0 | 0 | 0 | 0 | 0 | .0 | 0 | 0 | 0 | 0 | Ü | v. |
| 4 years | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | L | 0 | 1 | | |
| | | | | | | | | 0 | | | - 1 | | 0 |
| Under 5 years | - 2 | | | | Ň | | × | Ň | à | ň | î | ŏ | 1 |
| 5 to 9 years | 2 | . 0 | - 0 | 0 | | v | - 7 | Ň | - 7 | ö | Å | ĭ | ñ |
| 10 to 14 years | 6 | 0 | n | 0 | 0 | U | 1 | | * | v | | | |
| 15 to 19 years | 1 | 0 | - 0 | - 0 | 0 | 1 | 0 | 0 | | U | U | v | Ü |
| 20 to 24 years | 1 | 0 | 0 | 0 | 0 | 6 | 0 | - 0 | 0 | 0 | 1 | Ü | - 11 |
| 25 to 34 years | 1 | . 1 | 0 | 0 | 0 | • | 0 | - 0 | 0 | - 6 | 0 | 0 | Ü |
| 35 to 44 years | 1 | 0 | - 0 | 0 | 0 | e | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 45 to 54 years | - 7 | ñ | 0 | 1 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 |
| 55 to 64 years | ń | ő | ő | ō | 0 | Ó | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 years and over | ň | ŏ | ň | õ | Ō | ō | ė | 0 | 0 | 0 | 0 | 0 | 0 |
| Age not stated | ň | ň | ŏ | ŏ | Ğ | ŏ | ō | o | O. | 0 | 0 | 0 | 0 |
| Age not stated | | | | | | | | | | | | | |
| Total | 15 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 5 | 0 | 3 | 1 | 1 |

REPORTED CASES AND DEATHS FROM TETANUS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | 3 | fale—— | Fer | nale | T | otal | |
|-------------------|---------------|--------|-------|--------|-------|--------|--|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths | |
| Under 1 year | 0 | 0 | 0 | 0 | 0 | 0 | |
| 1 year | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 years | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 years | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4 years | 0 | 0 | 2 | 1 | 2 | 1 | |
| | | | | | | | |
| Under 5 years | . 0 | 9 | 2 | 1 | 2 | 1 | |
| 5 to 9 years | 2 | 8 | 0 | 2 | 2 | 5 | |
| 10 to 14 years | 6 | 6 | 0 | 0 | 6 | 6 | |
| 15 to 19 years | 1 | 2 | 0 | 0 | 1 | 2 | |
| 20 to 24 years | 0 | 1 | 1 | 0 | 1 | 1 | |
| 25 to 34 years | 0 | 0 | 1 | 0 | 1 | 0 | |
| 35 to 44 years | 1 | 1 | 0 | 1 | 1 | 2 | |
| 45 to 54 years | 1 | 2 | 0 | 1 | 1 | 3 | |
| 55 to 64 years | 0 | 2 | 0 | 0 | 0 | 2 | |
| 65 years and over | 0 | 1 | 0 | 0 | 0 | 1 | |
| Age not stated | 0 | 0 | 0 | 0 | 0 | 0 | |
| | - | | | | | | |
| Total | 11 | 18 | 4 | 5 | 15 | 23 | |

REPORTED CASES OF TRACHOMA IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBEI | 3 OF | CASI | ES | | | | _ |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|----------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Under 5 years | | | | 2 | 0 | - 0 | | | 0 | _ | -0 | | _ |
| 5 to 9 years | 4 | ŏ | Ö | 3 | ō | ň | ň | ň | ĭ | ŏ | ň | ň | ň |
| 10 to 14 years | ż | ő | ŏ | ŏ | ŏ | ŏ | õ | ĩ | î | ŏ | ŏ | ŏ | ŏ |
| 15 to 19 years | ī | ō | 0 | ō | Õ | õ | Õ | 1 | ō | ō | ō | ŏ | ŏ |
| 20 to 24 years | í | ō | ō | ŏ | ō | ō | ō | ō | ö | ŏ | i | õ | ŏ |
| 25 to 34 years | 2 | Ó | 0 | 0 | Ó | 0 | Ó | Ó | Ó | 1 | ō | 1 | ō |
| 35 to 44 years | ō | ō | ō | Ó | Ó | Ó | . 0 | ō | Ó | . 0 | ō | . 0 | ŏ |
| 45 to 54 years | . 0 | 0 | 0 | ` 0 | 0 | 0 | . 0 | 0 | 0 | . 0 | . 0 | . 0 | 0 |
| 55 to 64 years | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | . 0 | . 0 | 0 | Ó | 0 | o · |
| 65 years and over | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 | 0 | 0 | . 0 | 0 | 0 |
| Age not stated | 0 | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ō | 0 | ŏ |
| Total | 12 | 0 | 0 | 5 | 0 | | | 2 | 2 | 1 | 1 | <u> </u> | -0 |

REPORTED CASES AND DEATHS FROM TRACHOMA IN NEW JERSEY

| | <u>3</u> | lale | Fen | nale- | T | otal |
|-------------------|----------|--------|-------|--------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 0 | 0 | 2 | 0 | 2 | 0 |
| 1 year | 0 | 0 | Ō | ō | ō | ŏ |
| 2 years | 0 | 0 | 0 | 0 | Õ | ō |
| 3 years | 0 | ð | 0 | 0 | Ò | Ô |
| 4 years | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| Under 5 years | 0 | o o | 2 | 0 | 2 | 0 |
| 5 to 9 years | 2 | 0 | 2 | 0 | 4 | 0 |
| 10 to 14 years | 2 | 0 | 0 | e | 2 | 0 |
| 15 to 19 years | 1 | 0 | 0 | 0 | 1 | 0 |
| 20 to 24 years | 0 | 0 | 1 | 0 | 1 | 0 |
| 25 to 34 years | 1 | 0 | 1 | 0 | 2 | 0 |
| 35 to 44 years | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 to 54 years | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 to 64 years | 0 | C | 0 | 0 | 0 | 0 |
| 65 years and over | 0 | 0 | 0 | 0 | 0 | 0 |
| Age not stated | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| Total | 6 | 0 | 6 | 0 | 12 | 0 |
| | | | | | | |

DEPARTMENT OF HEALTH

REPORTED CASES OF TRICHINOSIS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBEF | R OF | CASI | ES | | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 5 years | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 to 9 years | ō | 0 | 0 | Ó | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 to 14 years | 2 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 to 19 years | | 0 | 3 | . 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | ŭ | 1 |
| 20 to 24 years | | 1 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 1 | 1 | Ÿ | 2 |
| 25 to 34 years | 10 | 1 | 2 | 0 | 2 | 0 | 0 | 2 | 0 | ŏ | 1 | ŗ | Ť |
| 35 to 44 years | | 0 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | v | 1 | Ň | 1 |
| 45 to 54 years | | 0 | 1 | 0 | 0 | 0 | ō | ŭ | Ü | × | v | Ň | |
| 55 to 64 years | | 1 | 2 | 0 | 1 | v | 1 | × | v | Ň | 0 | ň | ň |
| 65 years and over | | Ů, | ŭ | ŭ | 9 | v | U | X | Ň | 0 | ň | ŏ | ñ |
| Age not stated | v | U | U | U | U | U | | | | | | | |
| Total | 41 | 3 | 14 | 2 | 6 | 0 | 2 | 3 | 0 | 1 | 4 | 1 | 5 |

REPORTED CASES AND DEATHS FROM TRICHINOSIS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | 3 | Iale—— | Fer | nale— | Total | | | | |
|-------------------|-------|--------|-------|--------|-------|--------|--|--|--|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths | | | |
| Under 5 years | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 5 to 9 years | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 10 to 14 years | 1 | 0 | 1 | 0 | 2 | 0 | | | |
| 15 to 19 years | 3 | 1 | 3 | 0 | 6 | 1 | | | |
| 20 to 24 years | 7 | 1 | 4 | 1 | 11 | 2 | | | |
| 25 to 34 years | 4 | 0 | 6 | 0 | 10 | . 0 | | | |
| 85 to 44 years | 2 | Ó | 3 | 0 | 5. | 0 | | | |
| 45 to 54 years | 1 | 0 | 1 | 1 | 2 | 1 | | | |
| 55 to 64 years | 1 | 0 | 4 | 1 | - 5 | 1 | | | |
| 65 years and over | 0 | 0 | 0 | . 0 | 0 | 0 | | | |
| Age not stated | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Total | 10 | | 22 | | 41 | | | | |

REPORTED CASES OF TUBERCULOSIS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| · · | _ | | | | -NU | MBEI | R OF | CAS | $_{\rm ES}$ | | | | |
|-------------------|-------|------|------|------|------|------|------|------|-------------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | 11 | 1 | 1 | 1 | 4 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| 1 year | 22 | 4 | 1 | 0 | 1 | 2 | 4 | 2 | 2 | 2 | 0 | 2 | 2 |
| 2 years | 17 | 1 | 2 | 2 | 1 | 3 | 0 | 4 | 0 | 2 | 2 | 0 | 0 |
| 3 years | 14 | 1 | 0 | 0 | 3 | 2 | 0 | 2 | 2 | 3 | 1 | 0 | 0 |
| 4 years | 9 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 3 |
| Under 5 years | 73 | 7 | 4 | 4 | 10 | 8 | | 9 | 4 | 9 | | 3 | 6 |
| 5 to 9 years | 139 | 9 | 8 | 14 | 16 | 11 | 16 | 16 | 11 | 20 | 5 | 8 | 5 |
| 10 to 14 years | 231 | 20 | 18 | 14 | 21 | 17 | 21 | 36 | 18 | 28 | 12 | 15 | 11 |
| 15 to 19 years | 348 | 35 | 17 | 34 | 33 | 44 | 38 | 31 | 28 | 25 | 15 | 22 | 26 |
| 20 to 24 years | 532 | 49 | 31 | 46 | 48 | 50 | 46 | 36 | 48 | 50 | 60 | 34 | 34 |
| 25 to 34 years | 985 | 72 | 70 | 96 | 102 | 92 | 75 | 95 | 65 | 75 | 97 | 71 | 75 |
| 35 to 44 years | 731 | 56 | 62 | 73 | 75 | 68 | 72 | 51 | 54 | 42 | 67 | 49 | 62 |
| 45 to 54 years | 537 | 47 | 36 | 56 | 57 | 43 | 56 | 38 | 43 | 31 | 36 | 48 | 46 |
| 55 to 64 years | 355 | 30 | 30 | 31 | 42 | 32 | 34 | 32 | 23 | 22 | 28 | 24 | 27 |
| 65 years and over | | 18 | 11 | 13 | 8 | 12 | 14 | 10 | 13 | 9 | 9 | 12 | 13 |
| Age not stated | 21 | 2 | 1 | 0 | 3 | 2 | 0 | 5 | 0 | 2 | 3 | 0 | 3 |
| Total | 4004 | 245 | 200 | 901 | 415 | 270 | 977 | 950 | 207 | 917 | 920 | 990 | 200 |

REPORTED CASES AND DEATHS FROM TUBERCULOSIS IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | | Iale | ——Fer | nale | T | otal—— |
|-------------------|-------|--------|-------|--------|-------|--------|
| AGE GROUPS | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 8 | 4 | 3 | 4 | 11 | 8 |
| 1 year | 13 | 8 | 9 | 13 | 22 | 21 |
| 2 years | 7 | 12 | 10 | 3 | 17 | 15 |
| 3 years | 9 | 6 | 5 | 2 | 14 | 8 |
| 4 years | 7 | 2 | 2 | 0 | 9 | 2 |
| Under 5 years | ++ | 32 | 29 | 22 | 73 | 54 |
| 5 to 9 years | 80 | 5 | 59 | 4 | 139 | 9 |
| 10 to 14 years | 109 | 10 | 122 | 18 | 231 | 28 |
| 15 to 19 years | 142 | 42 | 206 | 77 | 348 | 119 |
| 20 to 24 years | 208 | 103 | 324 | 144 | 532 | 247 |
| 25 to 34 years | 500 | 225 | 485 | 254 | 985 | 479 |
| 35 to 44 years | 458 | 281 | 273 | 170 | 731 | 451 |
| 45 to 54 years | 396 | 309 | 141 | 104 | 537 | 413 |
| 55 to 64 years | 285 | 189 | 90 | 85 | 355 | 274 |
| 65 years and over | 81 | 91 | 61 | 65 | 142 | 156 |
| Age not stated | 8 | 0 | 13 | 0 | 21 | ō |
| Total | 2291 | 1287 | 1803 | 943 | 4094 | 2230 |

REPORTED CASES OF TYPHOID FEVER IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBEI | 3 OF | CAS | ES | | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|----------|------|--------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1 year | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Ō | Ó | Ô | ŏ | ě |
| 2 years | 1 | 0 | 0 | 0 | 1 | 0 | 0 | - 0 | 0 | Ó | ė | ò | ŏ |
| 3 years | 3 | 0 | O. | 0 | 0 | 0 | 1 | 0 | 1 | 1 | Õ | ō | ň |
| 4 years | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | ō | 1 | 1 | ŏ |
| Under 5 years | 13 | 2 | 0 | 0 | 1 | 0 | | - 5 | | | | | |
| 5 to 9 years | 26 | 0 | 2 | ō | ī | 4 | 2 | 7 | 5 | ò | 4 | i | × |
| 10 to 14 years | 35 | 4 | ī | 1 | ī | 2 | 5 | • | 4 | | 7 | É | ň |
| 15 to 19 years | 33 | 3 | 2 | ñ | õ | - 7 | | 7 | 3 | - 7 | | a | - 1 |
| 20 to 24 years | | 1 | ō | ž | ě | ñ | â | À | 5 | ă | ĭ | ÿ | ÷ |
| 25 to 34 years | | 5 | 3 | 4 | - 7 | ŏ | 6 | š | 10 | ě | <u>.</u> | - 5 | • |
| 35 to 44 years | 34 | ž | č | - 5 | â | ő | 8 | 4 | I G | 9 | 9 | | * |
| 45 to 54 years | 24 | 2 | ĭ | ī | š | 5 | 9 | 3 | 1 | 5 | ź | 1 | , , |
| 55 to 64 years | | Ŧ. | ī | . î | - 5 | | ĩ | . 2 | | ň | 9 | 7 | v |
| 65 years and over | | ã. | ô | | ŏ | ň | ñ | ň | Ť | ň | á | | .0 |
| Age not stated | | Ö | ŏ | ŏ | . ŏ | 1 | ő | ŏ | - ,ō | 1 | 2 | ō | . 1 |
| Total | 277 | 21 | 10 | 11 | 11 | 12 | 25 | 42 | 35 | 37 | 36 | 25 | 12 |

REPORTED CASES AND DEATHS FROM TYPHOID FEVER IN NEW JERSEY

| | Male | | Fer | nale— | Total | | | |
|-------------------|-------|--------|-------|-------|-------|--------|--|--|
| AGE GROUPS | Cases | Deaths | Cases | | Cases | Deaths | | |
| Under 1 year | 0 | 0 | 1 | 0 | 1 | 0 | | |
| 1 year | 0 | 0 | 0 | Ö | õ | ŏ | | |
| 2 years | 0 | 0 | 1 | 0 | i | ň | | |
| 3 years | 2 | 0 | 1 | 0 | 8 | ŏ | | |
| 4 years | 2 | 0 | 6 | 0 | 8 | ō | | |
| | | | | | | | | |
| Under 5 years | 4 | 0 | 9 | 0 | 13 | 0 | | |
| 5 to 9 years | 16 | 0 | 10 | 0 | 26 | Ó | | |
| 10 to 14 years | 23 | 1 | 12 | 1 | 35 | ž | | |
| 15 to 19 years | 16 | 1 | 17 | 2 | 33 | 9 | | |
| 20 to 24 years | 11 | 3 | 22 | 3 | 33 | ĕ | | |
| 25 to 34 years | 38 | 8 | 23 | 1 | 61 | ŏ | | |
| 35 to 44 years | 14 | 1 | 20 | 2 | 84 | ş | | |
| 45 to 54 years | 13 | 3 | 11 | ā | 24 | ě | | |
| 55 to 64 years | 6 | 0 | 5 | 2 | 11 | ŏ | | |
| 65 years and over | 1 | 1 | 2 | ō | -î | - 1 | | |
| Age not stated | 1 | 0 | 8 | ō | 4 | à | | |
| | | | | | | | | |
| Total | 143 | 18 | 134 | 14 | 277 | 32 | | |
| | | | | | | | | |

REPORTED CASES OF UNDULANT FEVER IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | BEI | OF | CAS | ES- | 0 | Oat | Nor | Dec |
|-------------------|-------|------|------|------|------|-----|------|------|------|------|------|-----|-------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | sep. | Oct. | | 2000. |
| AGE GROCIS | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | - 0 | 0 |
| Under 5 years | U | 0 | Ų | v | × | ň | ň | - 1 | 0 | 0 | 0 | 0 | 0 |
| 5 to 9 years | 2 | 0 | - 0 | 1 | v | Ų | ž | - | ň | ň | 0 | 0 | 0 |
| 10 to 14 years | 5 | 1 | 1 | 0 | 1 | 1 | v | - 1 | v | × | ň | ñ | ó |
| | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | Ų | · | | × | |
| 15 to 19 years | | ň | ā | Ò | 0 | 0 | 0 | 0 | 0 | 0 | U | v | 1 |
| 20 to 24 years | | × | | • | 1 | t | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 25 to 34 years | 5 | v | v | | | â | ň | 1 | ñ | n | 0 | 1 | 0 |
| 35 to 44 years | 7 | 1 | 0 | U | 2 | | Ÿ | à | ŏ | ŏ | 0 | 0 | 0 |
| 45 to 54 years | | 0 | 1 | 0 | 0 | v | 1 | v | × | | ĭ | ñ | 0 |
| 55 to 64 years | | 0 | 0 | 1 | 0 | 0 | 1 | 0 | v | Ť | Ť | × | ň |
| 55 to 64 years | ō | ñ | 0 | 0 | 0 | 0 | 0 | • | 0 | 0 | 0 | Ÿ | Ň |
| 65 years and over | Ň | ň | ñ | õ | 'n | 0 | 0 | • | 0 | • | 0 | 0 | U |
| Age not stated | v | U | U | ٠. | | | | | | | | | |
| | | | _ | | | | 9 | 3 | 0 | 2 | 1 | 1 | 2 |
| Total | 27 | 2 | 2 | 8 | ą | 4 | - | | • | _ | | | |

REPORTED CASES AND DEATHS FROM UNDULANT FEVER IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Sex

| | 31 | [ale—— | ——Fer | nale | Total | | | |
|-------------------|-------|--------|-------|--------|-------|---------|--|--|
| AGE GROUPS | Cases | Deaths | | Deaths | Cases | Deaths. | | |
| | 0 | ^ | • | 0 | 0 | 0 | | |
| Under 5 years | Ÿ | Ň | Ÿ | ň | 2 | 0 | | |
| 5 to 9 years | ī | Ů. | | ő | 5 | Ö | | |
| 10 to 14 years | 2 | Ů, | 2 | ň | Ť | ō | | |
| 15 to 19 years | 1 | ů. | v | ŏ | i | ō | | |
| 20 to 24 years | 1 | ý | × | X | ŝ | ň | | |
| 25 to 34 years | 5 | ŭ | 9 | ň | 7 | ň | | |
| 35 to 44 years | 2 | Ü | 9 | Ä | , | ŏ | | |
| 45 to 54 years | 2 | ů | Ÿ | X | ā | ě | | |
| 55 to 64 years | 8 | Ü | , , | ŏ | ñ | õ | | |
| 65 years and over | 9 | ņ | , v | Ň | ň | ě | | |
| Age not stated | 0 | U | U | v | | | | |
| | | | | | 97 | 0 | | |
| Total | 17 | v | 10 | v | 2. | • | | |

REPORTED CASES OF WHOOPING COUGH IN NEW JERSEY

For the Calendar Year 1934 by Age Groups and Months

| | | | | | -NU | MBER | R OF | CAS | ES | | | | |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| AGE GROUPS | Total | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sep. | Oct. | Nov. | Dec. |
| Under 1 year | | 43 | 33 | 56 | 42 | 46 | 37 | 59 | 42 | 55 | 54 | 46 | 59 |
| | | 50 | 39 | 60 | 66 | 70 | 61 | 72 | 107 | 56 | 65 | 60 | 90 |
| 1 year | 1056 | 64 | 58 | 80 | 93 | 93 | 90 | 100 | 122 | 93 | 76 | 93 | 94 |
| 3 years | | 72 | 64 | 72 | 97 | 105 | 109 | 136 | 120 | 89 | 83 | 96 | 122 |
| 4 years | 1229 | 89 | 61 | 105 | 110 | 112 | 94 | 123 | 90 | 94 | 99 | 109 | 143 |
| | | 318 | 255 | 373 | 408 | 426 | 391 | 490 | 481 | 387 | 377 | 401 | 508 |
| Under 5 years | 4010 | | 272 | 481 | 484 | 430 | 389 | 334 | 241 | 210 | 279 | 488 | 539 |
| 5 to 9 years | | 394 | | 37 | 52 | 39 | 35 | 22 | 17 | 22 | 10 | 27 | 41 |
| 10 to 14 years | 369 | 32 | 35 | | | | | | - 11 | | 10 | 2 | 6 |
| 15 to 19 years | 42 | 2 | 3 | 2 | 11 | 4 | 4 | 0 | 1 | 3 | 4 | - 2 | |
| 20 to 24 years | 14 | 3 | 0 | 2 | 4 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| 25 to 34 years | | 2 | 1 | 4 | 5 | 1 | 1 | 5 | 3 | 4 | 3 | 3 | 6 |
| 35 to 44 years | | 1 | 0 | 0 | 0 | 5 | 1 | 1 | 1 | 1 | 0 | 2 | 0 |
| 45 to 54 years | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 55 to 64 years | 2 | Ó | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 65 years and over | 6 | Ġ. | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | 1 | 0 | 0 |
| Age not stated | 23 | 2 | 0 | 1 | 1 | 1 | 0 | 4 | 6 | 0 | 3 | 1 | 4 |
| | | | | | | | | | | | | | |
| Total | 9868 | 754 | 566 | 901 | 966 | 910 | 823 | 857 | 751 | 629 | 678 | 927 | 1106 |

REPORTED CASES AND DEATHS FROM WHOOPING COUGH IN NEW JERSEY

| | 3 | fale | ←—Fei | nale | T | otal-— |
|-------------------|-------|--------|-------|--------|-------|--------|
| AGE GROUPS | Cares | Deaths | Cases | Deaths | Cases | Deaths |
| Under 1 year | 283 | 20 | 289 | 22 | 572 | 42 |
| 1 year | 409 | 7 | 387 | 2 | 796 | 9 |
| 2 years | 478 | 2 | 578 | 6 | 1056 | 8 |
| 3 years | 529 | 0 | 636 | 1 | 1165 | 1 |
| 4 years | 600 | e | 629 | 2 | 1229 | 2 |
| Under 5 years | 2299 | 29) | 2519 | 33 | 4818 | 62 |
| 5 to 9 years | | -0 | 2384 | 1 | 4541 | 7 |
| 10 to 14 years | 165 | ŏ | 204 | ō | 369 | ō |
| 15 to 19 years | 18 | Ü | 24 | ě | 42 | ő |
| 20 to 24 years | - 61 | Ö | 8 | ō | 14 | ă |
| 25 to 34 years | 11 | Ġ | 27 | ō | 38 | · ŭ |
| 35 to 44 years | S | 0 | 9 | 0 | 12 | Ō |
| 45 to 54 years | ō | Ó | 3 | Ó | 3 | ē |
| 55 to 64 years | 1 | θ | 1 | 0 | 2 | Ô |
| 65 years and over | 1 | Ü | 5 | Ō | 6 | ō |
| Age not stated | 12 | Ċ | 11 | 0 | 23 | Ō |
| Total | 4673 | 29 | 5193 | 34 | 9868 | 6:) |

REPORTED CASES AND DEATHS FROM CHICKENPOX AND DIPHTHERIA BY COUNTIES FOR 1934

| | CH | ICKENPOX | | | | DIPHI | HERIA | |
|---------------------|-------|------------------------|--------|-------|------------------------|-------|-------------------------|---------------------|
| COUNTIES | Cases | Cases per 1000 Pop. | Deaths | Cases | Cases per 1000 Pop. | | Deaths per 1600 Pop. | Percent Fatality |
| Atlantie | 145 | 1.10 | 0 | 2 . | 0.01 | - 0 | | |
| Bergen | 1710 | 4.37 | 0 | 103 | 0.26 | 15 | 0.04 | 14.56 |
| Burlington | 237 | 2.48 | Ú | 11 | 0.11 | 0 | | 1112 |
| Camden | 279 | 1.06 | Ó | 59 | 0.22 | 5 | 0.02 | 8.47 |
| Cape May | 62 | 1.58 | Ŏ | 2 | 0.08 | 1 | 0.03 | 50.00 |
| | 62 | 0.87 | 0 | 38 | 0.53 | 4 | 0.05 | 10.52 |
| Cumberland | 5979 | 6.91 | ŭ | 38 | 0.04 | 1 | 0.001 | 2.63 |
| Essex | 130 | 1.74 | o o | 18 | 0.24 | 2 | 0.02 | 11.11 |
| Gloucester | 748 | 1.06 | 2 | 391 | 0.55 | 13 | 0.02 | 3.32 |
| Hudson Hunterdon | 45 | 1.28 | õ | 4 | 0.11 | ő | | |
| Mercer | 403 | 2.10 | 0 | 13 | 0.08 | 1 | 0.005 | 6.66 |
| Middlesex | 210 | 0.95 | Ü | 23 | 0.10 | 2 | 0.01 | 8.69 |
| Monmouth | 538 | 3.48 | 0 | 4 | 0.02 | 1 | 0.006 | 25.00 |
| Morris | 868 | 7.53 | Ò | 11 | 0.09 | 2 | 0.01 | 18.18 |
| Ocean | 64 | 1.83 | ō | 3 | 0.08 | 0 | | |
| Passaic | 1017 | 3.28 | 0 | 80 | 0.26 | 6 | 0.02 | 7.50 |
| Salem | 42 | 1.14 | ě | 0 | | 0 | | |
| | 197 | 2.89 | ŏ | 10 | 0.14 | 1 | 0.01 | 10.00 |
| Somerset | 83 | 2.93 | ŏ | 2 | 0.07 | 0 | | |
| Sussex | 1705 | 5.27 | ŏ | 32 | 0.10 | 2 | 0.006 | 6.25 |
| | | | - | 4 | 0.08 | 0 | | |
| Warren | 22 | 0.44 | 0 | 4 | | | | |
| State | 14364 | 3.39 | 2 | 850 | 0.20 | 56 | 0.01 | 6.59 |

REPORTED CASES AND DEATHS FROM DYSENTERY, TRACHOMA, OPHTHALMIA NEONATORUM AND PARATYPHOID FEVER BY COUNTIES FOR 1934

| | DYSE | NTERY | TRAC | MOH | | HALMIA TORUM | PARAT' FEV | YPHOI D YER |
|------------|-------|--------|-------|--------|-------|-----------------|---------------|-----------------------|
| COUNTIES | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | -Deaths |
| Atlantic | 3 | . 0 | 0 | 0 | 0 | 0 . | 0 | . 0 |
| | 12 | ň | ō | ń. | 2 | 0 | . 0 | . 0 |
| Bergen | îõ | ň | õ | ň | ō. | ò | ė | . 0 |
| Burlington | 2 | v. | 1 | ň | ĭ | ň | 0 | 0 ' |
| Camden | | ź | ń | Ň | á | ň | ň | ò |
| Cape May | 0 | U | U | v | v | v | | |
| | 0 | | 0 | • | ٥ | 0 | 0 | 0 |
| Cumberland | | 9 | | × | ă | ň | 1 | 0 |
| Essex | 9 | Ī | 5 | ň | ő | ň | ñ | Ä |
| Gloucester | 1 | 0 | 0 | Ų | Ÿ | × | Ä | ö |
| Hudson | 203 | 4 | 0 | 0 | ± | Ÿ | × | × |
| Hunterdon | 1 | 0 | 0 | 0 | . 0 | U | U | |
| | • | | | ^ | 2 | 0 | 1 | 0 |
| Mercer | 3 | Ť | * | v | ā | ñ | ō | 0 |
| Middlesex | 2 | ų. | 0 | Ü | ň | ň | 7 | 5 |
| Monmouth | 2 | 0 | o. | ų. | 2 | " | À | ä |
| Morris | 8 | 1 | 0 | 0 | Ť | 0 | v | Ž. |
| Ocean | 0 | 0 | 0 | 0 | 0 | 0 | 0 | O |
| . . | 3 | | • | | 9 | n | • | 0 |
| Passaic | 2 | - | ô | Ä | ō | ň | ñ | ñ |
| Salem | | Ţ | | , v | , a | × | ŏ | ň |
| Somerset | 0 | Ų | 0 | ý | v | v | × | Ň |
| Sussex | 0 | O | 0 | Ų | 9 | v | Ų | ų. |
| Union | 1 | 0 | 1 | o | 2 | U | Ü | 1 |
| Warren | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| State | 247 | 12 | 12 | 0 | 20 | 0 | 9 | 6 |

REPORTED CASES AND DEATHS FROM INFLUENZA AND PNEUMONIA BY COUNTIES FOR 1934

| | | INFL | UENZA | | | PNEUM | IONIA | |
|------------|-------|------------------------|--------|----------------------------|-------|------------------------|------------------|---------------------------|
| COUNTIES | Cases | Cases per 1000 Pop. | Deaths | Deaths per 1000 Pop. | Cases | Cases per 1000 Pop. | Deaths | Deaths per 1000 Por |
| Atlantic | 5 | 0.03 | 18 | 0.13 | 104 | 0.79 | 114 | 0.86 |
| Bergen | 152 | 0.39 | 19 | 0.05 | 440 | 1.12 | 201 | 0.51 |
| Burlington | 130 | 1.36 | 1.5 | 0.15 | 55 | 0.57 | 56 | 0.58 |
| Camden | 69 | 0.26 | 26 | 0.10 | 307 | 1.16 | 237 | 0.90 |
| Cape May | 107 | 3.43 | 2 | 0.06 | 13 | 0.41 | 24 | 0.77 |
| Cumberland | 4 | 0.05 | 7 | 0.10 | 32 | 0.45 | 34 | 0.47 |
| Essex | 521 | 0.60 | 40 | 0.04 | 2454 | 2.84 | 570 | 0.66 |
| Gloucester | 22 | 0.29 | 12 | 0.16 | 27 | 0.36 | 39 | 0.52 |
| Hudson | 402 | 0.57 | 38 | 0.05 | 335 | 0.47 | 510 | 0.52 |
| Hunterdon | 6 | 0.17 | 6 | 0.17 | 14 | 0.40 | 22 | 0.63 |
| Mercer | 76 | 0.39 | 13 | 0.06 | 178 | 0.93 | 129 | 0.67 |
| Middlesex | 0 | | 16 | 0.07 | 61 | 0.27 | 123 | 0.55 |
| Monmouth | 9 | 0.06 | 10 | 0.06 | 178 | 1.15 | 111 | 0.55 |
| Morris | 52 | 0.45 | 10 | 0.08 | 210 | 1.82 | 88 | |
| Ocean | 1 | 0.03 | 5 | 0.14 | S . | 0,23 | 20 | 0.76 0.57 |
| Passaic | 131 | 0.42 | 25 | 0.08 | 79 | 0.25 | 186 | 0.60 |
| Salem | 0 | | 8 | 0.21 | 3 | 0.08 | 26 | 0.70 |
| Somerset | ō | | 3 | 0.04 | 58 | 0.85 | 45 | |
| Sussex | 0 | | ñ | | 43 | 1.52 | | 0.60 |
| Cnion | 8 | 0.02 | 30 | 0.00 | 213 | 0.66 | $\frac{32}{191}$ | $\frac{1.13}{0.59}$ |
| Warren | 0 | | 6 | 0.12 | 2 | 0.04 | 44 | 0.88 |
| State | 1695 | 0.40 | 309 | 0.07 | 4814 | 1.13 | 2802 | 0.66 |

REPORTED CASES AND DEATHS FROM MALARIA AND EPIDEMIC CEREBROSPINAL MENINGITIS BY COUNTIES FOR 1934

| | | MALARIA | | EPIDEMIC CEREBROSPINAL MENINGITIS | | | | | | |
|------------|-------|------------------------|--------|--------------------------------------|------------------------|--------|-------------------------|---------------------|--|--|
| COUNTIES | Cases | Cases per 1000 Pop. | Deaths | Cases | Cases per 1000 Pop. | Deaths | Deaths per 1000 Pop. | Percent Fatality | | |
| Atlantic | 0 | | 6 | 0 | | 1 | 0.007 | | | |
| Bergen | 3 | 0.007 | 0 | 2 | 0.005 | õ | | - P | | |
| Burlington | 0 | | 0 | <u> </u> | 0.04 | ő | | • • • • • | | |
| Camden | 3 | 0.01 | ō | - ; | 0.003 | 1 | | . 111 / 11 | | |
| Cape May | õ | | ň | 1 | 0.03 | | 0.003 | 100,00 | | |
| | • | | · | | 0.05 | 1 | 0.03 | 100,60 | | |
| Cumberland | 1 | 0.01 | 0 | 1 | 0.01 | _ | | | | |
| Essex | 6 | 0.006 | ŏ | | 0.01 | 0 | | | | |
| Gloucester | ŏ | | ő | 8 | 0.01 | 3 | 0.003 | 97,50 | | |
| Hudson | 4 | 0.005 | | 0 | | 0 | | | | |
| Hunterdon | | 0.005 | 0 | 14 | 0.02 | 6 | 0.01 | 42.55 | | |
| nunterdon | 0 | • • • • | 0 | 0 | | 0 | | | | |
| Mercer | 0 | | 0 | 3 | 0.01 | 0 | | | | |
| Middlesex | ō | | ň | 2 | | | | | | |
| Monmouth | ŏ | | ň | * | 0.02 | 0 | | | | |
| Morris | ŏ | | v . | 1 | 0.006 | 0 | | | | |
| | ŏ | | Ň | 1 | 0.01 | 1 . | 0.01 | 100,00 | | |
| Ocean | υ, | •••• | 0 | 1 | 0.03 | 0 | | | | |
| Passaic | 0 | | 0 | 4 | 0.01 | 3 | 0.01 | er co | | |
| Salem | Ó | | ó | ò | | ő | | 75,60 | | |
| Somerset | ŏ | | ŏ | ŏ | | | ***: | | | |
| Sussex | ŏ | •••• | ŏ | 1 | | 1 | 0.01 | • | | |
| Union | 2 | 0.006 | ŏ | | 0.03 | 0 | | | | |
| CHIOU | - | 0.006 | 0 | 6 | 0.02 | 3 | 0.01 | 50.60 | | |
| Warren | 0 | | 0 | 0 | | 0 | | | | |
| State | 19 | 0.004 | 0 | 52 | 0.01 | 20 | 0.04 | 89.46 | | |

^{*} More deaths than cases reported.

REPORTED CASES AND DEATHS FROM MEASLES AND GERMAN MEASLES BY COUNTIES FOR 1934

| | | ME | ASLES | | | GEI | MAN MEA | SLES |
|------------|-------|------------------------|---|-------------------------|---------------------|-------|------------------------|--------|
| COUNTIES | Cases | Cases per 1000 Pop. | Deaths | Deaths per 1000 Pop. | Percent Fatality | Cases | Cases per 1000 Pop. | Deaths |
| Atlantic | 913 | 6.92 | 4 | 0.03 | 0.44 | 9 | 0.07 | 0 |
| Bergen | 645 | 1.64 | 0 | | | 103 | 0.26 | 0 |
| Burlington | 1594 | 16.67 | 8 | 0.08 | 0.50 | 7 | 0.07 | 0 |
| Camden | 2592 | 9.86 | 17 | 0.06 | 0.65 | 15 | 0.05 | 0 |
| Cape May | 598 | 19.16 | 1 | 0.03 | 0.16 | 3 | 0.09 | 0 |
| | 428 | 5.99 | 1 | 0.01 | 0.23 | 5 | 0.07 | 0 |
| Cumberland | 1026 | 1.18 | 2 | 0.002 | 0.19 | 3568 | 4.12 | 0 |
| Essez | | 5.71 | ō | | | 5 | 0.06 | 0 |
| Gloucester | 427 | 0.23 | i | 0.001 | 0.60 | 6 | 0.01 | 0 |
| Hudson | 165 | | 2 | 0.05 | 0.47 | ŏ | | +> |
| Hunterdon | 425 | 12.14 | 2 | 0.03 | 0.47 | • | | |
| | | 8.88 | 3 | 0.01 | 0.17 | 29 | 0.15 | 0 |
| Mercer | 1703 | | • | 0.01 | 0.82 | 5 | 0.02 | 0 |
| Middlesex | 242 | 1.09 | 2 0 | | | 26 | 0.17 | ō |
| Monmouth | 578 | 3.74 | | | 0.13 | 17 | 0.14 | ō |
| Morris | 750 | 6.51 | 1 | 0.01 | | 4 | 0.11 | ŏ |
| Ocean | 22 | 0.63 | 1 | 0.03 | 4.54 | 4 | 0.11 | • |
| _ • . | 1394 | 4.50 | 1 | 0.003 | 0.07 | 19 | 0.06 | 0 |
| Passaic | 61 | 1.65 | ē | | | 0 | | 0 |
| Salem | | 8.32 | 3 | 0.04 | 0.53 | 5 | 0.07 | 0 |
| Somerset | 567 | | ő | | 0.00 | ŏ | | 0 |
| Sussex | 6 | 0.21 | . 2 | 0.006 | 0.29 | 221 | 0.68 | 1 |
| Union | 693 | 2.14 | - 2 | 0.000 | 0,20 | | | |
| Warren | 326 | 6.52 | 1 | 0.02 | 0.30 | 6 | 0.12 | 0 |
| State | 15155 | 3.58 | 50 | 0.01 | 0.33 | 4053 | 0.93 | 1 |

REPORTED CASES AND DEATHS FROM ACUTE ANTERIOR FOLIOMYELITIS AND SCARLET FEVER BY COUNTIES FOR 1984

| | | ACUTE ANT | ERIOR LITIS | | | SCARLET | FEVE | R |
|------------|-------|------------------------|----------------|-------------------------|-------|------------------------|--------|-------------------------|
| COUNTIES | Cases | Cases per 1000 Pop. | Deaths | Deaths per 1000 Pop. | Cases | Cases per 1000 Pop. | Deaths | Deaths per 1000 Pop. |
| | 6 | 0.04 | 1 | 0.007 | 124 | 0.94 | 1 | 0.007 |
| Atlantic | | 0.04 | 3 | 0.007 | 648 | 1.65 | 8 | 0.02 |
| Bergen | | 0.02 | ŏ | | 68 | 0.71 | 1 | 0.01 |
| Burlington | | 0.05 | 3 | 0.01 | 471 | 1.79 | 10 | 0.04 |
| Camden | | | ő | | 32 | 1.02 | 0 | |
| Cape May | . 0 | | v | | 0 | 1.02 | - | |
| | | | | 0.01 | 60 | 0.84 | 2 | 0.03 |
| Cumberland | . 1 | 0.01 | 1 2 | 0.002 | 1219 | 1.41 | 5 | 0.005 |
| Essex | . 13 | 0.01 | | | 146 | 1.95 | 5 | 0.06 |
| Gloucester | . 2 | 0.02 | 0 | • • • • | 586 | 1.26 | 8 | 0.01 |
| Hudson | . 0 | | 0 | | | 1.97 | ő | |
| Hunterdon | | | 0 | | 69 | 1.94 | v | •••• |
| | . 2 | 0.01 | 0 | | 987 | 5.14 | 6 | 0.03 |
| Mercer | | 0.004 | ĭ | 0.004 | 179 | 0.81 | 0 | |
| Middlesex | | | i | 0.006 | 161 | 1.04 | 4 | 0.02 |
| Monmouth | | 0.02 | ō | ***** | 258 | 2.24 | 5 | 0.04 |
| Morris | . 1 | 0.01 | ŏ | •••• | 22 | 0.63 | ĭ | 0.03 |
| Ocean | . 1 | 0.03 | U | | 22 | 0.00 | • | • |
| | | | . 0 | | 233 | 0.75 | 0 | |
| Passaic | | 0.00 | i | 0.02 | 75 | 2.03 | 0 | |
| Salem | | 0.02 | Ô | | 82 | 1.20 | ž | 0.03 |
| Somerset | . 3 | 0.04 | | | 43 | 1.52 | ī | 0.03 |
| Sussex | . 0 | 2222 | 0 | • • • • | | 1.25 | 2 | 0.006 |
| Union | . 2 | 0.006 | 0 | | 404 | 1.40 | - | • |
| Warren | . 0 | | 0 | | 67 | 1.34 | 3 | 0.06 |
| State | 62 | 0.01 | 13 | 0.003 | 6234 | 1.47 | 64 | 0.01 |

REPORTED CASES AND DEATHS . ROM SMALLPOX AND TUBERCULCSIS BY COUNTIES FOR 1934

| | | SMA | LLPOX | | | TUI | BERCUL | osis. | |
|------------|-------|------------------------|--------|---|-------|------------------------|--------|-------------------------|-------------------|
| COUNTIES | Cases | Cases per 1000 Pop. | Deaths | Deaths per 1000 Pop. | Cases | Cases per 10-0 Pop. | Deaths | Deaths per 1000 Pop. | Percen Fatalit |
| Atlantic | 0 | | 0 | | 171 | 1.29 | 93 | 0.70 | 54.38 |
| Bergen | 0 | | 0 | | 275 | 0.70 | 153 | 0.39 | 55,63 |
| Burlington | 0 | | 0 | | 72 | 0.75 | 49 | 0.51 | 68,05 |
| Camden | 0 | | 0 | | 382 | 1.45 | 104 | 0.39 | 27.22 |
| Cape Mar | 0 | • • • | 0 | ••• | 15 | 0.48 | 7 | 0.22 | 46.66 |
| umberland | 0 | | 0 | | 44 | 0.61 | 39 | 0.54 | 88.63 |
| Essex | Ó | | ō | | 1035 | 1.19 | 548 | 0.63 | 52.94 |
| Gloucester | Ò | | ō | ••• | 46 | 0.61 | 36 | 0.48 | 78.26 |
| Hudson | 0 | | ŏ | | 638 | 0.91 | 407 | 0.58 | 63.79 |
| Hunterdon | Ó | | ŏ | | 19 | 0.54 | 13 | 0.37 | 68.42 |
| Mercer | 0 | | 0 | | 220 | 1.14 | 129 | 0.67 | 58.63 |
| Middlesex | Ö | • • • | Ó | | 215 | 0.97 | 93 | 0.42 | |
| Monmouth | Ó | | ŏ | | 170 | 1.10 | 103 | 0.66 | 43.25 60.59 |
| Iorris | 0 | • • • | ō | | 117 | 1.01 | 48 | 0.41 | 41.02 |
| Ocean | ō | | ŏ | | 24 | 0.68 | 15 | 0.43 | 62.50 |
| Passaic | 0 | • • • | 0 | | 225 | 0.72 | 150 | 0.48 | 66,66 |
| Salem | Ö | • • • | ō | ••• | 22 | 0.59 | 26 | 0.70 | 00.00 |
| omerset | ō | ••• | ŏ | | 66 | 0.97 | 27 | 0.39 | 40.91 |
| Sussex | 0 | | ŏ | | 25 | 0.88 | îi | 0.39 | |
| Cuion | ò | | ŏ | | 285 | 0.88 | 157 | 0.48 | 44.00 55.08 |
| Warren | 0 | ••• | 0 | ••• | 28 | 0.56 | 22 | 0.44 | 78.57 |
| State | 0 | | 0 | • | 4094 | 0.96 | 2230 | 0.52 | 54.47 |

[.] More deaths than cases reported.

REPORTED CASES AND DEATHS FROM TYPHOID FEVER AND WHOOPING COUGH BY COUNTIES FOR 1934

| | | TYPHOL | D FEVE | R. | | WHOOPIN | G COUG | н |
|------------|-------|------------------------|--------|-------------------------|-------|------------------------|--------|-------------------------|
| COUNTIES | Cases | Cases per 1000 Pop. | | Deaths per 1000 Pop. | Cases | Cases per 1000 Pop. | Deaths | Deaths per 1000 Pop. |
| Atlantie | 31 | 0.23 | 2 | 0.01 | 68 | 0.51 | 2 . | 0.01 |
| Bergen | 20 | 0.05 | 4 | 0.01 | 1054 | 2.77 | 5 | 0.01 |
| Burlington | 7 | 0.07 | 0 | | 164 | 1.71 | ĭ | 0.01 |
| Camden | 16 | 0.06 | 1 | 0.003 | 483 | 1.83 | 10 | 0.01 |
| Cape May | 10 | 0.32 | 1 | 0.03 | 23 | 0.73 | 1 | 0.03 |
| Cumberland | 4 | 0.05 | 0 | | 30 | 0.42 | 0 | |
| Essex | 35 | 0.04 | 4 | 0.004 | 4000 | 4.74 | Š | 0.01 |
| Gloucester | 11 | 0.14 | 1 | 0.01 | 60 | 0.80 | 3 | 0.01 |
| Hudson | 14 | 0.02 | ī | 0.001 | 636 | 0.90 | 15 | 0.01 |
| Hunterdon | 0 | | ō | • • • | 55 | 1.57 | 0 | 0.02 |
| Mercer | 8 | 0.04 | 1 | 0.005 | 258 | 1.34 | 4 | 0.02 |
| Middlesex | 5 | 0.02 | Ó | | 30 | 0.13 | i | 0.004 |
| Monmonth | 64 | 0.41 | 12 | 0.07 | 409 | 2.65 | i | 0.006 |
| torris | 6 | 0.05 | 2 | 0.01 | 362 | 3.14 | i | 0.01 |
| Ocean | 3 | 0.08 | ō | ••• | 13 | 0.37 | i | 0.01 |
| Passaic | 16 | 0.05 | 2 | 0.006 | 1000 | 3.29 | 8 | 0.02 |
| Salem | 9 | 0.24 | ō | | 23 | 0.62 | ô | |
| omerset | 8 | 0.11 | 1 | 0.01 | 97 | 1.42 | 1 | 0.01 |
| Sussex | i | 0.03 | ō | ••• | 21 | 0.74 | ô | |
| "nion | 6 | 0.02 | 0 | | 926 | 2.86 | ĭ | 0.003 |
| Warren | 3 | 0.06 | 0 | | 7 | 0.14 | 0 | |
| State | 277 | 0.06 | 32 | 0,007 | 9969 | 2,33 | 63 | 0.01 |

REPORTED CASES AND DEATHS FROM MUMPS, LETHARGIC ENCEPHALITIS, UNDULANT FEVER, TETANUS AND TRICHINOSIS BY COUNTIES FOR 1934

| | MU | MPS | LETH. ENCEP | ARGIC HALITIS | UNDU | LANT | TET | ANUS | TRICI | IINOSIS |
|------------|-------|--------|----------------|------------------|-----------|--------|-------|--------|-------|---------|
| Counties | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths | Çases | Deaths |
| Atlantic | 55 | 0 | - 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 630 | ŏ | 2 | 2 | š | ō | 2 | 3 | 1 | 0 |
| Eurlington | | ŏ | - 7 | ō | ō | Ō | 0 | 0 | 0 | 0 |
| Canden | 185 | ű | î | ŏ | ŏ | ŏ | Ō | 0 | 2 | 0 |
| Cape May | 83 | ŏ | ò | ŏ | ŭ | ŏ | ī | 3 | 0 | 0 |
| Cumberland | 33 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 0 |
| Essex | 406 | 0 | 13 | 7 | 3 | 0 | 3 | 3 | 3 | 0 |
| Houcester | 31 | ŏ | 0 | i | ŭ | 0 | 0 | 1 | 1 | 1 |
| Hudson | 48 | · 2 | 4 | ī | ò | Ö | 0 | 3 | 2 | 1 |
| Hunterdon | 11 | ō | ô | ō | õ | Ò | 0 | 0 | θ | ų. |
| Mercer | 71 | 0 | 0 | 0 | 5 | 0 | 2 | 0 | 11 | 2 |
| Middle sex | 288 | ō | 5 | 5 | 2 | 0 | O | 1 | 1 | 0 |
| Monmouth | 24 | õ | 5 2 | ĭ | ī | 0 | 4 | 1 | 2 | 1 |
| Morris | | ŏ | 3 | Ö | 2 | 0 | 1 | 0 | 3 | o |
| Ocean | 7 | ŏ | 0 | Õ | Õ | 0 | O. | 0 | 0 | 0 |
| Passale | 479 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 2 | 0 |
| Salem | 3 | ŏ | õ | õ | $\bar{2}$ | 0 | 0 | 1 | 0 | 0 |
| Same set | 9 | 0 | ĭ | 2 | 5 | 0 | 0 | 1 | 2 | 0 |
| Sussex | 7 | 0 | ō | 0 | ĭ | 0 | 1 | ľ | 0 | 0 |
| Union | 275 | í | Ť | 5 | 2 | Ō | 0 | 1 | 10 | 0 |
| Warren | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| State | 3246 | 3 | 40 | 27 | 27 | 0 | 15 | 23 | 41 | 5 |

REPORTED CASES AND DEATHS FROM MISCELLANEOUS DISEASES FOR THE YEAR 1934

| | 3 | [ale | Fer | nale | Tota1 | | |
|-------------------------------|----------|--------|-------|--------|-------|--------|--|
| Disease | Cases | Deaths | Cases | Deaths | Cases | Deaths | |
| Anthrax | 4 | 0 | - 0 | 0 | 4 | 0 | |
| Malaria Ouhthalmia Neonatorum | 14 13 | . 0 | 5 | 0 | 20 | ŏ | |
| Rabies | 0. | 0 | 0 | 0 | 0 | . 0 | |
| Smallpox | 1 | ö | ő | ő | · 1 | ŏ | |
| Typhus Fever | 1 | 1 | 0 | 0 | 1 | 1 | |

Report of the Bureau of Engineering

For the Year Ending June 30, 1935

H. P. CROFT, Chief Engineer

Progress in the control and abatement of the pollutions of the waters of the State is proportional to the appropriations granted to agencies empowered to act in such matters, and, to the support —morally and legally—given by the citizenry of the State to these agencies.

This report deals with the following:

- 1. Number of water and sewage projects examined and approved from July 1, 1934 to June 30, 1935.
 - 2. Inspections made and certain actions taken during the year.
 - 3. Court decisions.
- 4. Pollution of the waters of the Raritan River and its tributaries.
- 5. The disposal of sewage from the North Jersey seashore and bay shore municipalities.
- 6. Relative to the pollution from vessels docking at Sandy Hook Bay ports.
 - 7. The Interstate Sanitation District.
 - 8. Swimming pools and bathing places.
 - 9. Stream sampling stations.
- 10. Data prepared for presentation in the matter of the provisions of an Assembly Resolution, introduced March 4, 1935.
- 11. Investigations in the construction and operation of sprinkling filters.
- 12. The issuance of licenses to operate water purification and/or treatment plants and sewage treatment plants.

- 13. Physical connections between public potable water supplies and unapproved water supplies.
 - 14. Pollution of waters by distillery wastes.
 - 15. Establishment of factories on watersheds.
 - 16. Interstate carriers.
 - 17. Private supplies.
 - 18. School supplies.
 - 19. Status of sewage disposal in the State.
 - 20. Municipal sewage treatment plants in New Jersey (table).
- 21. Descriptive data of public water supplies in New Jersey (table).
 - 22. Water supplies abandoned (table).

 $$\rm No.~1$ Number of Water and Sewage Projects Examined and Approved from $\rm July~1,~1934$ to June 30, 1935

| Character of Projects | Number of Projects | Number of Applying Municipalities, Com- missions or Com- | panies Number of Plans | Engineers' Estimates of Costs |
|---|--------------------|--|---------------------------|----------------------------------|
| Servage: | ···· | | | *, |
| Trunk, sub-trunk, relief and intercepting sewers, sewer extensions and sewage | | • • | | * |
| pumping stations | 18 | 12 | 44 | \$47,150.00 |
| treatment works | 13 | 13 | 170 | 621,462.98 |
| new | 2 | 2 | 10 | 39,747.05 |
| *Sewage treatment works, new Water: | 6 | 6 | 77 | 905,000.00 |
| New systems and supplies | 7 | 6 | 21 | 127,500.00 |
| to water works | 31 | 26 | 62 | 298,867.91 |
| Totals | 77 | 65 | 384 | \$2,039,727.94 |
| Total of engineers' estimates of costs for June 30, 1934 | | | | \$3,344,134.57 |

^{*}Included in this item is the approval of revised plans for the Rahway Valley Joint Sewage Treatment Plant, formerly approved on September 13, 1932.

No. 2

| 3 |
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| |

Fifty-nine certificates were issued to railroad, vessel and airway companies for the use of water upon interstate carriers. One hundred and eight man-working days were spent in the collection of samples from stream sampling stations; ten and three-quarter man-working days were spent in attending court trials and serving court papers; twenty-four and one-third man-working days were spent in attending water and sewerage works conventions; thirty-seven and one-half man-working days were spent in collecting surf samples along the North Jersey Coast; eight and one-quarter man-working days were spent in inspecting sewage outfalls along the North Jersey Coast, and fifty-one man-working days were spent in stream survey work.

The following man-working days were spent in the investigation of water purification and/or treatment plants at:

| Bridgeton | 19 | |
|-----------|--------|--|
| | | |

The following man-working days were spent in the investigation of sewage treatment plants at:

| Essex Fells | 6 |
|---|----------------|
| Rockaway (Liondale Bleach, Dye & Print Works) | $6\frac{1}{2}$ |
| Totowa | 6 |
| West Paterson | 6 |
| Moorestown | 18 |
| Toms River | 9 |
| Bridgeton | 5 |
| Haddonfield | 15 |
| Pitman | 81/2 |
| Caldwell | 81/2 |
| Haddon Heights | 5 |
| Camden | 2 |
| Hackensack | 23 |

Sanitary inspections were made upon the following streams during the year:

| Molly Ann Brook |
|------------------|
| Passaic River |
| Peckman River |
| Pequannock River |
| Rahway River |
| Rancocas Creek |
| Raritan Bay |
| Raritan River |
| Rockaway River |
| Sandy Hook Bay |
| Sanhican Creek |
| Toms River |
| |

| Stream pollutions investigated | 53 |
|---|----|
| Notices issued to cease stream pollutions | 13 |
| Cases of stream pollutions found to be abated | 31 |
| Cases referred to Attorney General for prosecution | 13 |
| Resolution requesting Attorney General to discontinue proceedings to cease pollution and improve sewage treatment works | 1 |
| Resolution requesting Attorney General to discontinue proceedings for failure to employ licensed water treatment plant operator | 1 |
| Resolution to Attorney General to discontinue proceedings inasmuch as supply is no longer considered a public potable supply | 1 |
| Notices issued to distributors of potable water to cease the supplying of water to the public unless source of supply is approved | 6 |
| Notices issued upon municipalities or water companies to improve water supplies | 5 |
| | |

| Notices issued upon municipalities or sewer companies to cease the dis- | |
|--|---|
| charge of insufficiently treated sewage into waters of the State and/or | |
| alter, add to or improve sewage treatment works | 4 |
| Notices issued to operators of water treatment plants to comply with re- | |
| quirements of the department | 2 |
| Notices issued to municipalities to cease pollution of the waters of the | |
| State | 6 |

No. 3. COURT DECISIONS

During the year an important opinion was given by the Court of Chancery in the following case:

Department of Health vs. Borough of West Wildwood. The municipality was ordered by the department to cease the pollution of waters of Post Creek, a tributary of Grassy Sound, by discharging improperly, insufficiently and inadequately treated domestic sewage therein from its municipal sewage treatment works and to improve said sewage treatment works in order to abate such pollution. The case was instituted under the provisions of Chapter 72 of the P. L. of 1900, its amendments and supplements. The Final Decree in this cause is:

In CHANCERY OF NEW JERSEY.

Between

DEPARTMENT OF HEALTH OF THE STATE OF New Jersey,

Complainant,

On Bill, &c.

and

Borough of West Wildwood, a Municipal Corporation of the State of New Jersey,

Defendant.

This cause coming on to be heard in the presence of Robert Peacock, Esq., appearing for David T. Wilentz, Attorney General, of counsel with the complainant, and the pleadings, proofs and exhibits having been read and considered, and the argument of counsel having been heard, and the Chancellor having considered the same, and it appearing that the complainant is entitled to the relief sought and prayed for in its bill of complaint;

It is on this third day of July, A. D. 1934, by his Honor Luther A. Campbell, Chancellor of the State of New Jersey, ORDERED, ADJUDGED AND DECREED and the Chancellor doth by virtue of the power and authority in him vested ORDER, ADJUDGE AND DECREE that a writ of injunction of

this court do forthwith issue out of and under the seal of this court directed to the Borough of West Wildwood, a municipal corporation of the State of New Jersey, commanding the said defendant on and after the fifth day of September, A. D. 1934, said Borough of West Wildwood, a municipal corporation of the State of New Jersey, its officers, servants, employees and agents, to absolutely and immediately desist and refrain from permitting and allowing improperly, inadequately and insufficiently treated domestic sewage to flow from its sewerage system into Post Creek, a tributary of Grassy Sound, and further commanding said defendant, Borough of West Wildwood, a municipal corporation of the State of New Jersey, on or before the fifth day of September, A. D. 1934, to make such other disposition of its domestic sewage as shall be approved by the Department of Health of the State of New Jersey.

AND IT IS FURTHER ORDERED, ADJUDGED AND DECREED that the defendant pay to the complainant its costs in this suit, to be taxed.

LUTHER A. CAMPBELL,

C.

Respectfully advised,

(Signed) WM. J. BACKES,

A True Copy, Edw. Whelan, Clerk.

No. 4. POLLUTION OF THE WATERS OF THE RARITAN RIVER AND
ITS TRIBUTARIES

A group of Raritan River municipalities, claiming financial inability, applied to the State Department of Health for an extension of time in which to comply with orders to cease the pollution of the Raritan River and its tributaries on or before October 31, 1931. The Attorney General of the State of New Jersey was authorized by the department, at a meeting held on April 5, 1932, to stipulate, in case of municipalities where answers were filed by said municipalities admitting the allegations of the Bill of Complaint, that decrees will not be moved for prior to April 1, 1934. Accordingly, the Attorney General entered into a stipulation of agreement, through the Court of Chancery, with the (1) Borough of Bound Brook; (2) Borough of Highland Park; (3) Borough of Middlesex; (4) Pierce Estate, Inc., in the Borough of Middlesex; (5) City of New Brunswick; (6) Township of Raritan; (7) Borough of Sayreville; (8) Borough of South River; and, (9) Township of Woodbridge.

At the expiration of the time limit stipulated in the agreement, the aforementioned municipalities and company failed to comply with the provisions of the order of the department, and, therefore, on June 5, 1934, the department authorized the Attorney General to institute cases in the Court of Chancery against said defendants.

On April 2, 1935, the pleadings and agreements of the opposing counsels were heard by the Court of Chancery and, after due consideration, a writ of mandatory injunction issued out of and under the seal of said court commanding and enjoining the defendants to cease the pollution of the Raritan River and Raritan Bay by permitting the discharge of raw domestic sewage (or partially treated domestic sewage) to flow therein.

The following is a typical copy of the decrees issued against the defendants:

In Chancery of New Jersey, 87-578

Between

THE DEPARTMENT OF HEALTH OF THE STATE OF NEW JERSEY.

Complainant,

Lur

On Bill, &c.

THE BOROUGH OF BOUND BROOK,

Defendant.

This cause coming on to be heard in the presence of David T. Wilentz, Attorney General of the State of New Jersey and solicitor for the complainant, and of Russell E. Watson, of counsel, and George W. Allgair, of counsel with the defendant, on Bill and Answer, and the pleadings having been read and the arguments of counsel having been heard and considered, and the Court having duly considered the said pleadings and arguments, and it appearing to the Court that the complainant is entitled to the relief sought and prayed for in the Bill of Complaint;

It is, on this second day of April, 1935, by LUTHER A. CAMPBELL, CHANCELLOR of the State of New Jersey, ORDERED, ADJUDGED AND DECREED that a writ of mandatory injunction issue out of and under the seal of this Court directed to the said defendant, the Borough of Bound Brook, commanding and enjoining it to cease the pollution of the waters of the Raritan River and Raritan Bay by permitting raw domestic sewage to flow

therein from its sewer lines, and to make such disposition of its sewage as shall be approved by the complainant.

(Stamped) LUTHER A. CAMPBELL,

Respectfully advised,

(Signed) MALCOLM G. BUCHANAN,

(Stamped) A True Copy, EDW. T. WHELAN, Clerk.

No. 5. THE DISPOSAL OF SEWAGE FROM THE NORTH JERSEY SEASHORE AND BAY SHORE MUNICIPALITIES

The program instituted prior to 1930 was followed this year. Into the program entered the periodic inspection of sewage treatment plants, the examination of plant effluents, the testing of outfall pipes, and the examination of the waters used for bathing.

The following municipalities have not as yet complied with the minimum method of sewage treatment (sedimentation and chlorination) established by a resolution of the department, adopted January 15, 1929: Keyport, Ocean Township, Asbury Park, Bradley Beach and Sea Girt. Relative to these municipalities:

Keyport is under orders from the Court of Chancery to improve the sewage treatment plant. The department approved (December 4, 1934) plans for alterations and additions to the sewerage works; pending reconstruction, the application of hypochloride of lime has been replaced by liquid chlorine.

Ocean Township has had approved plans for the construction of a new sewage treatment plant, and the department has been advised that an application will be made for a Federal loan and grant.

Asbury Park has constructed and placed in operation new sewage treatment works, but has failed to comply with the requirement as to chlorination.

Bradley Beach has begun the reconstruction of the sewage treatment plant located at Evergreen Avenue.

An inspection of the municipal sewage treatment plant serving Sea Girt is in progress. The findings of the investigation are to be used in prosecuting the terms of the notice issued under the provisions of the State Sewerage Act.

The results obtained through the expansion of supervision in sewerage works operation and the establishment in 1929 of sedimentation and chlorination as the minimum method of sewage treatment are shown in the following table:

AVERAGE B. COLI CONTENT PER CUBIC CENTIMETER FOR SIXTY BATHING BEACHES FROM LONG BRANCH TO POINT PLEASANT, INCLUSIVE

| Year | Flood Tide | Ebb Tide |
|--|------------|----------|
| 1928 (before chlorination) | 49.0 | 56.7 |
| 1933 (a majority of municipalities chlorinating) | 4.41 | 5.53 |
| 1934 | 1.22 | 6.36 |
| 1935 | 1.90 | 0.76 |

The issue of the Public Health News, March, 1935, contains a paper entitled "Control and Prevention of the Coastal Pollution along the North Jersey Coast," by Messrs. S. Kowalchik and H. C. Greenfield. This article contains detailed information upon the bay and ocean waters, methods of sewage treatment and the factors influencing the receiving waters.

No. 6. Relative to the Pollution from Vessels Docking at Sandy Hook Bay Ports

Section 1, Chapter 330, P. L. of 1894, provides: "That whenever any nuisance or source of foulness within the limits of the territorial jurisdiction of any local board of health of this State is of such a nature, that * * * it is hazardous to the health of persons residing within the limits of the jurisdiction of such local board, it shall be lawful for the State Board of Health to cause a notice in writing, to be sent to such local board, requiring it to cause such nuisance or source of foulness to be abated. * * *" Under the provisions of this act a notice was served upon the Board of Health of Atlantic Highlands. The notice had for its purpose the discontinuance of the discharge of raw sewage and

other polluting material from toilets upon vessels owned and operated by the Boston and Southern Steamship Company (known as the Mandalay Line), and those owned and operated by the Central Railroad of New Jersey (known as the Sandy Hook Lines), vessels of both companies docking at their respective piers in Atlantic Highlands. The discharge of this material was of such a nature, in the opinion of the Department, as to be hazardous to the health of those persons using the waters adjacent to the docks for recreational purposes. Considerable bathing taking place in the immediate vicinity of these docks placed emphasis upon the abatement of these pollutions.

Due to the splendid cooperation on the parts of the Board of Health of Atlantic Highlands, the Central Railroad of New Jersey, and the Boston and Southern Steamship Company, satisfactory schemes for the treatment of these wastes were agreed upon in sufficient time by all interested parties so that the treatment devices could be installed in the vessels before the bathing season of 1935. The method of sewage treatment decided upon was sedimentation and chlorination, which is similar to that used at the municipal sewage works of Atlantic Highlands.

No. 7. The Interstate Sanitation District

The title of Senate, No. 170 * is "An act authorizing designated authorities in behalf of the State of New Jersey to enter into an agreement or compact with designated authorities of the State of New York for the creation of the Interstate sanitation district, the establishment of the Interstate Sanitation Commission, the control of future pollution and the abatement of existing pollution in the tidal and coastal waters of the adjacent portions of the signatory states and the defining of the powers and duties of such commission."

The title of Senate, No. 171 ** is "An act to authorize the appointment of commissioners to the Interstate Sanitation Commission established by agreement or compact between the States of New York, New Jersey and Connecticut, within the interstate

sanitation district, defining their powers, duties and jurisdiction, providing for the study of a program, for examination of the accounts of said commission and making an appropriation for the expenses of said commission."

The territory in New Jersey embraced in the district is defined as follows: "In New Iersey, the Hudson river and New York upper bay and estuaries and tidal waters thereof between the New York-New Jersey boundary and Constable Point on Constable Hook; the Kill van Kull and Arthur Kill to the mouths of the rivers entering into the Kills; Newark bay and the estuaries thereof up to the mouth of the Passaic river; and up to the mouth of the Hackensack river; Raritan bay together with the Raritan river up to the Victory bridge on said river between Perth Amboy and South Amboy; together with the Cheesequake creek up to the New York and Long Branch Railroad bridge on said creek at Morgan; together with the Matawan creek up to the New York and Long Branch Railroad bridge on said creek at Matawan; Sandy Hook bay; together with the Shrewsbury river up to the passenger railroad bridge between Navesink Light and Highland Beach on said river." The area covered is shown upon the inserted map.

The agreement provides for dividing the various waters in the territory into two classes; specified as Class "A" and Class "B". Class "A" waters are those expected to be used primarily for recreational purposes, shellfish culture or the development of fish; and, Class "B" waters are all other waters.

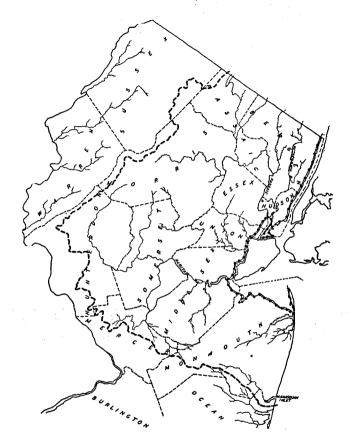
Sewage or other polluting matters discharged into Class "A" waters shall be treated so as to remove all floating solids and at least 60 per cent. of the suspended solids; and, in the matter of B. Coli density, a reduction of such organisms so that the probable number shall not exceed one per cubic centimeter in more than 50 per cent. of "the samples of sewage effluent tested by the partially confirmed test." If, however, the receiving waters are used primarily for bathing the bacterial requirement applies only during the bathing season. Additional treatment may be required, in case the dissolved oxygen content of the receiving water, under consideration, falls below 50 per cent. saturation, at

^{*} Senate, No. 170 is now Chapter 321, Laws of 1935; approved July 1, 1935. ** Senate, No. 171 is now Chapter 322, Laws of 1935; approved July 1, 1935.

a depth five feet below water surface, during any week of the year.

Sewage or other polluting matters discharged into Class "B" waters shall be treated so as to remove all floating solids and at least 10 per cent. of suspended solids, and, to prevent the formation of sludge deposits. Additional treatment may be required, in case the dissolved oxygen content of the receiving water falls below 30 per cent. saturation, at a depth five feet below water surface, during any week of the year.

The personnel of the commission from New Jersey shall consist * of a member of the State Department of Health, a member of the State Board of Conservation and Development, a member of the Board of Commerce and Navigation and two members from the State at large.



INTERSTATE SANITATION COMMISSION AREA

Area Originally Proposed

Area Established in 1935

^{*}Appointed by the Governor on July 5, 1935, were Messrs. J. N. Fowler, William C. Cope, J. Spencer Smith, G. W. Knight and J. Lester Eisner.

No. 8. Swimming Pools and Bathing Places

As a result of a resolution adopted on September 13, 1932, instructing the Bureau of Engineering, with the aid of other bureaus, to prepare and present to the board data and recommendations for the drawing of a bill for suitable regulation of public swimming pools, Assembly Bill No. 167 was formulated and introduced in the 1933 Legislature. This proposed legislation was read and discussed at a meeting of the New Jersey Health Officers' Association in January, 1933. After a general discussion of the provisions, a committee of members of this organization was appointed to confer with representatives of this department to alter or add to the original bill so that certain obviously weak or uncertain provisions were rectified. Resulting from the joint conference of the above-mentioned committee and representatives, was a substitute bill for Assembly No. 167. This bill was not reported upon by the Committee on Miscellaneous Business to which it had been referred.

Following instructions, three employees were assigned to a survey of fresh water bathing places in New Jersey during the bathing season of 1933. More than 500 swimming pools and bathing places were inspected. Over 18,000 miles were travelled and 141 working days consumed in this task. The Bureau of Chemistry analyzed in excess of 1,300 samples of water collected from the swimming pools and bathing places inspected. The findings of this survey revealed that—

- 1. The number of swimming pools and inland bathing places is rapidly increasing.
- 2. The estimate of patronage drawn to these pools is more than 500,000 persons per day during the bathing season.
- 3. The radii from which patronage is drawn to particular pools are so large that the health problem of one pool involves many municipalities, thus changing the usual conception that swimming pool jurisdiction is or should be primarily local.
- 4. A small number of the pools investigated was inspected or supervised by the local health authorities.

- 5. The bacteriological standards of the proposed bill were reasonable from a health standpoint and could be complied with at practically all of the artificial pools or semi-artificial pools with reasonable changes in operation or construction within the economic limits of the pool owners.
- 6. Most of the pool owners and operators, especially the more progressive types, were highly in favor of swimming pool legislation placing all of the pools in the State under the same standards.

The bill was again introduced in the 1934 Legislature as Assembly Bill No. 161. Like the previous year, it was referred to the Committee on Miscellaneous Business and never reported upon.

On January 28, 1935, the bill, essentially as printed in the report of the Bureau of Engineering for the year ending June 30, 1934, was again introduced in the 1935 Assembly and referred to the Committee on Public Health. It received its third reading and was voted upon by the Assembly on February 25, 1935. Insufficient ballots were cast in the affirmative to pass the bill. The matter was again brought to a vote on April 8, 1935, at which time 34 ballots were cast in the affirmative and 4 in the negative. It then passed to the Committee on Public Health in the Senate and was not reported upon before the Senate adjourned on June 25, 1935.

No. 9. STREAM SAMPLING STATIONS

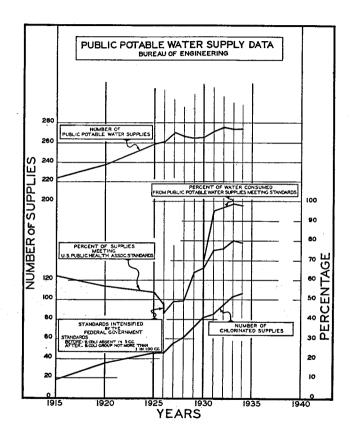
The collection and examination of samples of water from the various streams in the State have continued during the year. Eight new sampling stations were established: Delaware River at Phillipsburg; Mine Brook, below the sewage treatment plant recently placed in operation by the municipality of Bernardsville; Metedeconk River, below Laurelton and in the vicinity of numerous summer camp sites; four on the Passaic River and one on Molly Ann Brook, all in the vicinity of Paterson.

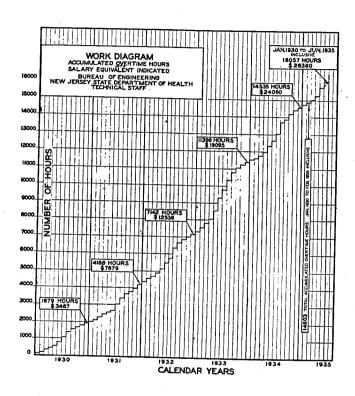
With these new stations, the number of collection points is 203. From 142 stations samples are collected four times a year and from the other 61 stations, located in the vicinity of recreational

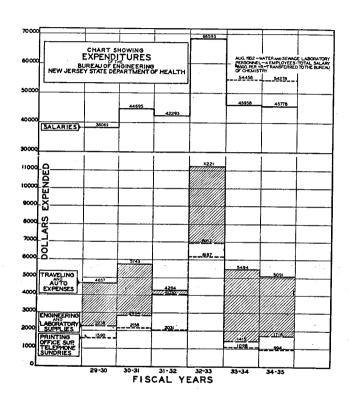
centers, twice a year during the summer season. Quarterly collections are carried out under a schedule so rotated that samples should represent the effect of seasonal variations.

No. 10. Data Prepared for Presentation in the Matter of the Provisions of an Assembly Resolution, Introduced March 4, 1935

In accordance with instructions, material was compiled and charts were prepared for the Director of Health to present to the Assembly Committee, functioning under a resolution to investigate and inquire into the necessity, if any, of the imposition of new taxes. In view of the time expended in the preparation of the data, it was decided to extend certain of the graphs to the end of the fiscal year and establish these as permanent records. Therefore the following charts are presented, relating: to the purity of public potable water supplies from 1915 to 1934; to hours worked by the technical staff from January, 1930, to June, 1935, inclusive; and, the expenditures of the Bureau for the last six fiscal years.







No. 11. Investigations in the Construction and Operation of Sprinkling Filters

"It shall be the duty of said commission to investigate the various methods of sewage disposal, in order that it may be able to make proper recommendations in regard thereto. * * *"* Under such authority investigations were made of the construction, operation and efficiency of sprinkling filters as well as other treatment devices at the following municipal sewage treatment plants: Bridgeton, Freehold, Glassboro, Haddonfield (2 plants), Haddon Heights, Hammonton, Little Falls, Moorestown, Joint Plant serving Plainfield, North Plainfield and Dunellen, Princeton, Pitman (2 plants), Totowa, Washington and West Paterson. The findings were used in the forwarding to the interested municipality of recommendations for improvements.

The recommendations, in general, were well received. For example, in one of the municipalities the Mayor and Council, by formal action, resolved that alterations and repairs be made to the sewage treatment plant in conformity with the report and recommendations of the Department.

The sprinkling filter type of sewage treatment is a well-established method in this State. The growth of this type of treatment is shown in the following tabulation:

| Year | No. of Plants | Design Capacity in Million Gallons per Day |
|------|------------------|--|
| 1910 | 1 | 0.4 |
| 1920 | 7 | 5.4 |
| 1930 | 32 | 17.6 |
| 1935 | 34 | 20.6 |

Under the direct order of the members of the Department, rules and regulations for the design and construction of sewerage and water projects were submitted to them for consideration; and from their deliberations on the same, issued, under date of August 11, 1925, the "Rules and Regulations for the Preparation and Submission of Designs for Sewer Systems and Sewage Treat-

ment Works and Water Supply Systems and Water Purification Works".

With increasing knowledge in the methods of sewage treatment it was concluded that consideration should be given to the revision of those requirements (of August, 1925) relating to sprinkling filter design. As aids in such deliberations, the investigations at the aforementioned plants included the collection of numerous samples, including four and twenty-four hour composites. The principal determinations made on these samples were for dissolved oxygen, bichemical oxygen demand, nitrites, nitrates and relative stability. Analyses were made also for solids; nitrogen as free ammonia, organic, total; oxygen consumed; alkalinity; pH; and B. Coli. Plant structures and items studied included: dosing devices; sprays; filtering media, including depth and ventilation; oxygen absorbed; discharge cycle; strength of sewage; and, as to sewage flow, daily variation and gallons per capita.

A summary of the investigations made leads to the opinion that, to secure the maximum efficiency from a sewage treatment plant in which a sprinkling filter is one of the devices in the process, the following requirements should be met:

REQUIREMENTS AS TO SPRINKLING FILTERS

General Requirements

- 1. Sprinkling filters shall be preceded by efficient sedimentation.
- 2. The minimum effective depth of filtering media shall be at least six (6) feet. The effective depth shall be the distance from top of stone to top of underdrain.
- 3. Filtering media shall be from one (1) inch to two (2) inches in size; free of fines.
- 4. Means for the complete flooding of sections of the filter are desirable.
 - 5. Underdrain ventilation is highly desirable.
- 6. When the volume of sewage flow is less than 70 gallons per capita, sprinkling filter treatment is not desirable unless preliminary sedimentation is supplemented by an additional method of treatment, such as chemical precipitation.

^{*} An act to prevent the pollution of the waters of this State, Chapter 210, P. L. of 1899, and the amendments thereof and supplements thereto.-

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- 7. The average rate of sewage discharged during the dosing period shall not exceed either of the following:
 - a. 1,100 gallons per minute per acre foot.
 - b. Gallons per capita
 100
 1,100 gallons per minute per acre foot
 (applies to existing sewer systems).

Note: In case where, because of laundry or other industrial waste, there is no relation between gallons of sewage per capita and strength of sewage; the rate of application shall be such so that the oxygen requirement is not in excess of 1½ pounds per acre foot per minute of dosing period.

Secondary Tank Requirements

1. Sprinkling filters shall be followed by a settling tank; if flat bottom, two compartments shall be provided. Total detention period, based on average, shall be not less than one (1) hour. Consideration shall be given to supplementing sedimentation by chemical precipitation.

2. Sludge disposal:

- a. If separate sludge digestion tanks are provided, the sludge from the secondary tank shall be discharged thereto; if pumping is necessary, the piping and the pumping equipment shall be of permanent construction.
- b. If glass-covered sludge drying beds are provided, the area shall be not less than one-eighth (1/8) square foot per capita.

If separate sludge digestion tanks or glass-covered sludge drying beds are not provided, the matter of sludge disposal shall be considered by the department as a separate problem at each installation.

Fixed Nozzle Requirements

1. Twin dosing tanks shall be provided in all cases where any considerable part or all of the sewage is pumped. This requirement shall apply whether the pumping be within the collecting

- system or at the sewage treatment plant previous to application to filters.
- 2. Where twin dosing tanks are used they shall have a common nozzle field.
- 3. The net terminal head on nozzles shall be not less than one and one-half $(1\frac{1}{2})$ feet.
- 4. Half nozzles or equal shall be provided at the sides of the filter hed.
- 5. Detailed information shall be furnished in regards to the coverage efficiency of the nozzles.
- 6. Consideration shall be given to means which permit the removal from service of any quarter or either half of the nozzle field.
- 7. Based on the design flow, the operating time of the nozzles shall be not less than 20% nor more than 40% of the day. The higher limit shall be approached as nearly as possible.

Rotary or Traveling Distributor Requirements

- 1. The distributing mechanism shall be capable of operating at a rate up to 300% of the design flow of the plant.
- 2. The filter retaining wall shall not extend above the top of the filter media.
- 3. Valves shall be provided to permit cutting out of any filter unit.

A paper entitled "Survey of Sprinkling Filters in New Jersey" was presented by Messrs. Leroy Forman and Robert S. Shaw at the twentieth annual meeting of the New Jersey Sewerage Works Association, March 22, 1935. This paper, lacking certain graphs, is printed in the proceedings of the above association, and contains detailed information upon the investigations of the construction and operation of those sewage plants already listed.

No. 12. THE ISSUANCE OF LICENSES TO OPERATE WATER PURIFICATION AND/OR TREATMENT PLANTS AND SEWAGE TREATMENT PLANTS

Examinations for licenses to operate water purification and/or treatment plants and sewage treatment plants were conducted on October 19, 1934, and April 25, 1935, at the State House, Trenton, New Jersey, in accordance with the provisions of Chapter 23, P. L. 1918, and the Rules and Regulations governing the issuance of licenses which were adopted under authority of the aforesaid act.

The number of applicants for examinations, the number of applicants who were accepted for the examinations, the number of applicants who were examined and the number of licenses that were issued for each grade and class to operate sewage treatment plants and water purification and/or treatment plants, respectively, are presented in the following tabulation:

| | | M | Oct., 1934-April, 1935 | No. of Applicants | Accepted, Oct., 1934-April, 1935 | No. of Applicants | Examined, Oct., 1934-April, 1935 | No. of Licenses Issued | Oct., 1934-April, 1935 |
|-------|----------------------|-----|------------------------|-------------------|-------------------------------------|-------------------|-------------------------------------|------------------------|------------------------|
| Sewag | ie: | | | | | | | | |
| Grade | A | 6 | 4 | 4 | 3 | 4 | 3 | 2 | 3 |
| 44 | В | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 0 |
| ** | C, Division 1 | 3 | 2 | 1 | 2 | 1 | 1 | 0 | 0 |
| " | C, Division 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| " | C, Division 3 | 1 . | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| " | D, Division 1 | 4 | 0 | 4 | 0 | 4 | 0 | 4 | 0 |
| 44 | D, Division 2 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| ** | D, Division 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 | E | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 |
| 44 | F | 2 | 3 | 2 | 3 | 2 | 3 | 0 | 1 |
| ** | G | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| " | s | 6 | 7 | 6 | 7 | 5 | 5 | 3 | 4 |
| Total | for each examination | 27 | 21 | 22 | 20 | 19 | 16 | 11 | 10 |
| | Total for Year | 4 | 8 | 4 | 2 | 3 | 5 | 2 | 1 |

| Water: | | | | | | :- | | - |
|--|-------------|----|----|----|----|----|-------|----|
| First Class | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 |
| Second Class | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| Third Class | 0 | 3 | 0 | 3 | 0 | 3 | 0 | 3 |
| Fourth Class | 15 | 10 | 15 | 10 | 13 | 10 | 9 | 8 |
| Total for each examination | 20 | 16 | 20 | 16 | 18 | 16 | 13 | 13 |
| Total for Year | 3 | 6 | 3 | 6 | 3 | 4 | 2 | 6 |
| Combined (Water & Sewage) | | | | | | | | |
| Total for Year | 8 | 4 | 7 | 8 | 6 | 9 | 4 | 7 |
| Percentage of number of the examinations | • • • • • • | | | | | | 92.86 | % |

One "Prior-to" license was issued to operate the sewage treatment plant serving the New Jersey State Arsenal and Camp Grounds at Sea Girt, N. J., in accordance with the provision contained in Section 2 of Chapter 23, P. L. 1918.

censes were issued 68.12%

No. 13. Physical Connections Between Public Potable Water Supplies and Unapproved Water Supplies

The Report of the Bureau of Engineering for the year ending June 30, 1934, contained a list of physical connections between approved public potable water supplies and unapproved water supplies for which permits have been issued by the New Jersey State Department of Health under the provisions of Chapter 13 of the New Jersey State Sanitary Code. The permits for these physical connections, renewed annually, were still in effect at the time the report was issued.

Ever aware of the dangers to public health produced by unprotected physical connections and to continue the interest of local authorities, the circular letter, copied below, was sent to all water companies and municipal water departments delivering potable water and to all local boards of health concerned with public potable water supplies in May, 1935. There were 422 local boards of health circularized. The letters to them indicated the names of the public water supplies which are located within their jurisdictions. There were 267 letters sent to the water com-

panies and municipal water departments. A copy of the circular letter follows:

Gentlemen:

The issue of the "Public Health News," published by the State Department of Health, in October, 1934, contained an article entitled "Cross Connections," which in brief: outlines the number of physical connections between public water supplies and unapproved supplies existing under permits issued by the State Department of Health; recites two instances of disastrous effects resulting from pollution of public water supplies in this State by reason of faulty physical connections; and urges local health officials and water superintendents "to be sure that no unapproved cross connection exists within their respective jurisdiction."

No doubt the great majority of local health authorities and officials of public water supplies are familiar with the provisions of Chapter 13 of the State Sanitary Code, which was enacted on September 18, 1928. This regulation prohibited the establishment of new physical connections after April 1, 1929, and sets out the requirements under which permits for the continuance of those existing on that date would be issued. Under the administration of the aforementioned chapter of the code, and in accordance with the recommendations of the interested boards of health and the interested water departments or water companies, this department has issued permits to one hundred and thirty-seven owners for the continuance of the use of two hundred physical connections.

In the Annual Report of the State Department of Health for the year ending June 30, 1934, are listed the holders of the aforementioned permits to maintain physical connections at their plant premises, together with the sources of the public potable water supplies and unapproved supplies; the number and size of the respective connections; and the names of the municipalities where such establishments are located. A copy of this list, just received from the printers, is enclosed. Four additional original permits, not included in the list, have been issued by the department; and four permits for maintaining physical connections, which are included in the list, have been revoked on account of the failure of the owners of the establishment to apply for renewal permits.

Through the procedure established for the renewal of the permits, at least annually the physical connection problem is brought to the attention of local boards of health, water departments and water companies, under whose jurisdiction the approved installations exist. To some health authorities and water supply officials this is at all times a live issue; they make internal inspections of the double check valves, at the existing approved installations, at least quarterly; they are continually in search of existing physical connections; and they move immediately for the elimination of physical connections installed in violation of the provisions of the Sanitary Code.

The problem produced by cross connections is still as important as at the time the State Department of Health enacted regulations in this matter. The subject has continued to attain prominence and national recognition in the sanitary protection of public water supplies. A study of two eminent investigators on the subject entitled "The Significance of Water-Borne Typhoid Fever Outbreaks, 1920-1930," disclosed "that unprotected cross connections, as a

cause, rated first in the number of cases of typhoid; second, in the number of outbreaks; third, in the number of dysentery cases, and fourth, in the total number of typhoid and dysentery cases." An unprotected cross connection, as referred to by these investigators, "is one which is not equipped with modern protective devices."

The procedure established by the New Jérsey State Department of Health relative to the continuance of physical connections grants equal authority to the local board of health and water company or water department concerned in local supervision, for if either one does not approve, this department will not issue the renewal permit.

In view of the above information and with the aid furnished by the enclosed tabulation, which is being forwarded to interested boards of health and owners of public water supplies, your cooperation in securing the enforcement of the regulations is earnestly solicited by

Very truly yours, J. Lynn Mahaffey, M. D.,

Director of Health.

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The response from local health authorities and water supply officials, which resulted from the issuance of the circular letter, presents evidence that the contents of the letter have prompted much activity by those concerned in this matter.

Since the aforementioned list was prepared for the 1934 report, five additional original permits have been issued to owners of the establishments listed below upon recommendations by the water supply officials concerned and certifications by local health authorities having jurisdiction that the installations satisfy the requirements of Chapter 13 of the State Sanitary Code.

The failure of the owners to make applications for the annual renewals of their permits to maintain physical connections seriously jeopardized the proper supervision of the physical connections and the consequent protection of the public potable water supplies concerned at the premises of the four establishments, listed below. After concentrated efforts had been made to secure the applications, the Department of Health, at a meeting held on December 4, 1934, adopted resolutions to revoke the aforesaid permits, which action called also for the discontinuance and removal of the physical connections.

| NAME OF MUNICIPALITY | NAME OF COMPANY | PUBLIC POTABLE WATER SUPPLY | UNAPPROVISD WATER SUPPLY | STABER AND SIZE OF ONNECTION |
|--|---|--|--|---------------------------------------|
| fereey City Newark Newark Passaic Paterson | Public Service Bleetric and Gas Company Jersey City Water Dequerances (Tealth Products Corporation Company Newbark Water Department Merchants Refrigenting Company Sweak Water Department The Dundes Writer Power and Land Com. Passate Valley Water Commission pray (Waterlands Mill) From Waterlands Mill) Figurant and Harmony and Industry Mills [Passate Valley Water Commission (Forting Water Commission Floring Water Commission) | Plerey City Water Department Nowark Meter Department Nowark Water Department Passade Valley Water Commission (Passade Valley Water Commission (Passade Valley Water Commission | increment River Well and chemically treated city water canal Dunder Canal Prosent River | , , , , , , , , , , , , , , , , , , , |
| | | | | |
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| | | | | ٠ |
| | | | | |
| • | | | | |
| | Permi | PERMITS REVOKED DECEMBER 4, 1934 | | |
| NAME OF MUNICIPALITY | NAMB OF COMPANY | PUBLIC POTABLE WATER SUPPLY | L'NAPPROVED WATER SUPPLY | SIZE OF STAND |
| Garfield Lodi North Bergen Paterson | Jardeld Worsted Mills Jardeld Water Department Joll Water Department Jatti-Mally Corp. M. S. Rubbe Hackensuck Water Company) Retarts (S. B. Thomon, Mrs. Rose Harts, Passaic Valley Water Company) Company of Paterson, Mrs. Rose Harts, Passaic Valley Water Commission Company of Paterson No. | iardeld Water Department Lodi Water Department Hackensuck Water Computy Passale Valley Water Commission | inclich Worsted Mills, general servier witter Fend and wells Tity water elstern Ofstern | |

Corrections to List in 1934 Report

Three corrections of errors should be applied to the list of physical connections which appeared in the 1934 report, beside the additions and cancellations listed in this article.

The corrections are:

In Millville, the Whitall Tatum Company is physically connected with the Millville Water Department instead of The Millville Water Company.

In Milltown, the Michelin Tire Company holds permits to maintain two 6-inch physical connections instead of one 6-inch connection.

In Hackensack, Harper Terminal, Inc., holds a permit to maintain one 6-inch physical connection instead of two 6-inch connections.

No. 14. POLLUTION OF WATERS BY DISTILLERY WASTES

Investigations continued during the year in the matter of the pollution of waters by distillery wastes. The plants inspected manufacture apple and fruit brandies. The analyses of spent cider from the manufacture of apple jack show the very high potential pollution load contained therein:

| Results in P. P. M. | From | To |
|---|---|---|
| Total Solids Total Solids in Solution Total Organic Solids in Solution Acidity Oxygen Consumed B. O. D. | 9,958 p. p. m. 9,850 " 8,542 " 816 " 5,990 " 2,182.5 | 36,689 p. p. m. 36,567 " 31,516 " 4,440 " 14,800 " 5,991.5 " |

Unless a very high dilution factor prevails a stream, receiving these wastes containing organic matter in such high concentration, will be depleted quickly of its oxygen. Such a condition will adversely affect the use of the stream for pasturing, recreation and the promotion of fish life; foul odors will, and have been, produced.

Generally the majority of the distilleries inspected operate from September to February of each year and the liquid wastes produced are discharged intermittently from fill and draw (pot) stills. Many of the small plants are so located that sufficient land is available to dispose of the liquid wastes by lagooning and broad irrigation. On upland streams, the waters of which are later used for public potable purposes, the move is to exclude the wastes from the waters. The disposal of liquid wastes by broad irrigation, the seasonal operation, and plant location have combined to reduce the odor nuisance and stream pollution to a minimum.

Several of the large plants are still confronted with the problem of waste disposal. Examinations of samples from proposed methods of treatment (laboratory scale) give little encouragement.

A secondary source of stream pollution is found in the fruit pulp remaining after the extraction of the fruit juice. At the distilleries which manufacture their cider this pulp, known as pomace, is stored in large piles on lands draining to the streams. One of the distilleries has been converting its pomace into a "bacterial fertilizer."

No. 15. Establishment of Factories on Watersheds

During the year, under the provisions of Chapter 280 of the P. L. of 1921, the following applications were approved for the construction of industrial plants upon watersheds in the State:

Blairstown (Read Apple Jack Distillery), apple brandy distillery.

Harmony Township (Clarence Smith Distillery), apple brandy distillery.

Kings, Franklin Township (Lord Stirling Distilleries, Inc.), apple brandy distillery.

Tenafly (Rockland Distilling Company, Inc.), apple brandy distillery.

Tenafly (Trinacria Wine Corporation), wine distillery.

Manville (City Fur Dressing Corporation), fur dressing factory.

No. 16. Interstate Carriers

During the fiscal year fifty-nine certificates were issued upon twenty-nine public and two private water supply systems for nine railroad lines, fifteen vessel companies and three airway lines. The interested interstate carriers who received these certificates were:

Railroad

Central Railroad Company of New Jersey
Delaware, Lackawanna & Western Railroad Company
Erie Railroad
Lehigh Valley Railroad
New York Central Railroad
New York, Ontario & Western Railroad
Pennsylvania Railroad
Pennsylvania-Reading Seashore Lines
Reading Company

Vessel

Alpha Steamship Company
American Tankers Company
Beta Steamship Corporation
Boston, New York & Southern Steamship Company
Chile Steamship Company
Freeport Sulphur Transportation Company
Keansburg Steamboat Company
Lake Tankers Corporation
Moran Towing & Transportation Company
Rockland Transportation Company
Sanatorium Association of Philadelphia
Steamer William Penn, Inc.
Superior Trading & Transportation Company
Sword Steamship Line
Vacuum Oil Company

Airway

American Airway, Inc.
Eastern Air Transport, Inc.
United Air Lines Transport Corporation

No. 17. Private Supplies

Forty-one samples of water from private sources of supply have been examined in the laboratory and payment to the amount of \$425 has been made therefor through the Bureau of Engineering, which forwards and interprets the results obtained in the examination of such samples.

A charge of \$15 is made by the department for a complete chemical and bacteriological examination of a sample of water, and a charge of \$5 for a bacteriological examination.

No. 18. School Supplies

Six hundred and eighty-nine samples of water have been examined in the laboratory from school water supplies in the State during the year and copies of the results of these examinations have been sent to the local school boards, as well as the State Board of Education, through this bureau, with comments where necessary as to the purity of the supplies.

No. 19. STATUS OF SEWAGE DISPOSAL IN THE STATE

In a recent issue of one of the national engineering publications, there appeared a tabulation outlining the population of each State of the United States enjoying sewerage facilities. It is gratifying to note that the State of New Jersey occupies the first position in the percentage of the total population served by sewer systems, and the second position in the percentage of the total population provided with sewage treatment plant facilities; in actual figures, the percentages are 86.3 and 52.3, respectively.

Since the compilation of the above data, the City of Perth Amboy has constructed and placed into operation its new sewage treatment plant; the Elizabeth Joint Meeting has proceeded with the construction of its plant; and the Rahway Valley Joint Trunk has acquired a grant and loan from the Federal Government to finance its projected sewage treatment plant. Upon the completion of the said works, it is believed that the State of New Jersey will also surpass all other States in the percentage of the total population served with sewage treatment plants.

1935 1934

929

Reconstruc-tion of Plant

1033

20-MUNICIPAL SEWAGE TREATMENT PLANTS IN NEW JERSEY

Plant Placed In Operation 1909 1016 1002 1925 Date of Approval of Plans for Original Plant 11-12-12 Amended 0-29-14 2-27-05 6-3-2411-10-08 (Alterations and Additions to Existing Sewage Treatment Plants Since June 30, 1034) Extinated Population Served 14,981 8,816 part 9,760 5,148 part Permanent Population 1930 Census 34,422 9,760 5,148 1,681 14,981 8,816 7,869 MUNICIPALITIES OR LOCATIONS SERVED Lakewood Township Plainfield North Plainfield Dunellen Fanwood Asbury Park Bergenfield Dumont \mathbf{z} COUNTY IN WHICH PLANT I Monmouth Middlesex Осеип Joint Meeting of Plainfield, North Plainfield and Dunellen OWNERSHIP, MUNICIPALITY OR COMPANY Boroughs of Bergen field and Dumont Water Lakewood Company City Lakewood Township LOCATION

Asbury Park

Bergenfield

Middlesex

NEW 20-MUNICIPAL SEWAGE TREATMENT PLANTS CABLE No.

recreational waters and nuisances recreational waters and nulsances Pollution of bathing or recreational waters and nuisances O.F PLANT FOR THE PREVENTION Pollution of bathing or Pollution of bathing (Alterations and Additions to Existing Sewage Treutment Plants Since June 80, 1934) ç EFFLUENT DISCHARGED INTO Green Brook, tributary Raritan River Metedeconk River 2 Atlantic Ocean SEWAGE FLOW IN GALLONS PER DAY 808,000 350,000 2,500,000 2,500,000 Chemical feed apparatus, mixing and flocenlation tunks, alterations to sludge gas collection, new healing equipment, spray sludge dryer and nipurtenances und alterations to offuent weir and pipe lines Mechanically cleaned har screen, sedimentation tank with sludge removal equipment, separate sludge digestion tank, chlorination, chlorine contact tank Mechanical studge collection apparatus for sedimentation tanks, sindge gas collection and combustion devices and chemical feed apparatus for studge thickening Chemical feed apparatus and twin chemical mixing tank UNITS OF TREATMENT PLANT

| | DEPAR | TMENT | OF HE | AL'I | T'H | |
|--|--|--|---|---|--|--|
| | PRBV101'S NAMES OF SU'PDJ.ESS | | | | | |
| | * StalladiA | | zi. | 47. | 34 | 8 |
| 1934) | Hardness | Ę | 19. | 27.3 | 23 | 94. |
| | 1934 Consumption in 1,000 Gallons Per Day | 13,081 | 200 | 018 | 18 | |
| offes Since | Average Yearly Population Sup- plied, 1984 | 125,000 | 22,000 | 5,000 | 9,813 | 300 |
| vater Supi | Population, 1930, Permanent | 66,198 | 2, 158 1,514 1,518 1,518 1,518 1,518 1,518 | 4,405 | 7,872 8,852 3,504 1,763 | 1,029 |
| (New Water Supplies and Alternitions and Additions to Existing Water Supplies Since June 30, | ALTBRATIONS AND ADDITIONS TO EXISTING SULPLY | Additional collecting basin, 60° cast fron connecting conduit with previsions for installation of purification devices and sampling taps | Split sleeve over top of well cusing with a rubber gusket inserted between flanged cike of split sleeve and pump foundation on well No. 2 at Somers Point | 3 driven wells, Nos. A-34, B- 34, C-34; 68/2 to 75' deep | Cilorine sterilization appara- | |
| ater Supplies and Alterntic | SOURCE OF NEW | | | | | 1 driven well, 225' deep |
| (New W. | OWNER AND MUNICIPALIPIES SUPPLIED | Atlantic City (Mantelpality) (Absecon) | Atlantic County Water Company of Absorber County Water Company of Absorber (Absorber Chawood) (Linwood) (Possaniville) (Somers Point) | Bordentown (Municipality) | Bound Brook Water Company (Bound Brook) (Bridgewater Twp., part) (Middleax Boro, part) (South Bound Brook) | Brown's Mills Land Company (Pemberton Twp., Brown's Mills Section) |

| | | Maple Shade Water Company | | | | | | | | | | |
|---|---|--|---|--|---|--|--|--------------------------|--------------------------------|--|---|--|
| 96 | 308. | # | इं | ř | 86 | į. | ¢ | 9 | 176. | ri | 43. | .92 |
| 82 | 104. | 8 , | 13. | 64. | 84. | 64. | 34. | 14. | 23 | 15.6 | 44. | 100. |
| 820 | 42 | 187 | 23. | 8 | 1,440 | 48 | ₩ | 808 | 30 | 60 | 99 | |
| 200 | 000 | 5,160 | 1,200 | 2,500 | 13,000 | 900 | 200 | 4,940 | 100 | 200 | 1,500 | |
| 2,037 0 1,048 1,444 | 1,444 | 5,117 | 3,879 | 2,720 7,824 | 13,796 | 2,361 | 27,121 | 4,940 | 287 | 715 | 3,183 | 1,831 |
| 1 elevated storage tank, 700,- 000 gallons capacity | Meyers Bulldozer pump to replace Gould triplex pump, chlorine sterilization apparetus | Chlorine sterilization appara- tus and installation of standpipe cover | Chlorine sterilization appara- tus for well No. 7 | 1 circular wooden coagulation basin and wood-tub type gravity filter | 1 driven well, No. 29, 173' doep, to be treated by existing units | Chlorination discontinued as | I driven well, No. 1, 207' | 1 driven well, 296' deep | Chlorine sterilization appara- | 1 driven well, 617' 7" deep, to replace existing well | 2 driven wells, Nos. 3 and 4, 160° deep, to be located in Belcoville | |
| | | | | | | . • | | | | | | 1 driven well, 204' deep |
| Gape May (Municipality) (South Cape May) (West Cape May) (Lower Twp., part) | Cape May Point (Municipality) (Lower Twp., part) | Chester Township (Maple Shade Section) (Municipality) | B. I. duPont de Nemours and Com- pepuyet (Depwiter Point, Upper Penns Neck Twp.) | Flemington Wuter Company (Flemington) (Inriian Twp., part) | Gloucoster (Municipality) | Greenwich Township (Municipality—Gibbstown Section) | Hamilton Square Water Company (Hamilton Twp., Hamilton Square Section) | Keyport (Municipality) | . Lavallette (Municipality) | Long Beach Water Company (Beach Haven Terrace) | Mays Landing Water Power Company (Mays Landing Section of Hamilton Twp., Atlantic County) | Mountain Heights Water Company (Lincoln Park) |

| • | | | | | |
|--|---|---|--|---|---|
| PREVIOUS NAMES OF SUPPLIES | + - 1 | | | Montclair Water Co.; Passale Con- solidated Water Company | |
| Alkalinity | 19. | 19. | 103. | ı-i | 16. |
| Hardness | 47. | 30. | 128. | 20. | 40. |
| 1934 Consumption In 1,000 Gallons Per Day | 1,167 | | 101 | 15,792 | 120 |
| Average Yearly Population Sup- plied, 1934 | 35, 285 | | 4,930 | 284,010 | 320 |
| Population, 1930, Permanent | 5,394 8,904 1,123 11,23 11,24 5,734 6,734 8,857 9,108 9,108 1,438 1,438 1,436 | 1,235 | 2,229 1,243 871 871 | 40,875 62,959 138,513 5,909 | 1,374 |
| ALTERATIONS AND ADDITIONS TO BXISTING SUPPLY | 5 driven wells, Nos. 39 to 45, the chiefarts, 196 to 185 deep, to replace old wells Nos. 12, 21, 20, 23 and 25 | 2 springs | I driven well, No. 3, 502' deep | 12 additional filters and appurtenances | Chlorine sterilization appara- |
| SOURCE OF NEW | | | | | |
| OWNER AND MUNICIPALITIES SUPPLIED | New Jersey Water Company (Laddon Heights) (Audubon) (Audubon) (Audubon) (Barrington) (Candean, part) (Haddonedl, part) (Genesicon) (Rumesnede) (Sochheer Twp., Ashland Terrace Section) | Nicholas, H. R. H. (Mt. Olive Twp., Flanders Section) | Park Ridge (Municipality) (Montrale) (Woodeliffe Lake) (Rivervale, part) | Colliton) (Passate Valley Water Commission (Colliton) (Passes) (Passes) (Prospect Park) | Pottersville Water Company (Bedminster Twp., Pottersville |

| dgewood (Municipality) (Gien Rock) (Itobokus) (Midland Park) | | 2 driven wells, Nos. 1 and 4, ,315 to 418' deep, at Wyckoff | 12,188 4,360 925 3,638 | 20,440 | 1,281 | 166. | 70. | Bergen Water Company | |
|---|-------------------------------------|--|---------------------------------|--------|-------|------|------|-------------------------------------|--|
| uth Jersey Water Supply Company (Mulifica Hill) | | Ratchet chlorine feeder | 1,827 | 900 | 82 | 겺 | 261. | Harrison Heights Improvement Co. | |
| uth Orange (Municipality) | | Aerator | 13,630 | 14,000 | 1,048 | 11. | 41.6 | | |
| 1-Corner Realty Company (Franklin Lakes Boro) | 1 driven well, 86' deep | | 802 | | | 56. | 23. | | |
| uckerton Water Company | | I driven well, 477' deep, to be treated by existing units | 1,429 | 1,000 | 112 | œ | ci | | |
| ineland (Municipality) (Landis Twp., part) | | 1 driven well, No. 3, 168' deep | 7,550 14,047 | 10,000 | 1,165 | 20. | 10. | • | |
| ater Witch Club of Monmouth Hills 4 driven wells, 140 to 225' (Middletown Twp.) | 4 driven wells, 140 to 225' deep | , | 9,200 | 125 | 91 | 110. | 112. | | |
| oodbury (Municipality) (Woodbury Heights) (Deptford Twp., part) | | 1 driven well, 314' deep; pumping station, covering for part of existing open reservoir for chlorination, venturi tube and meter, lines and valves | 8,172 997 4,507 | 9,272 | 633 | 8i · | 142. | · | |

| TABLE | TABLE No. 22-WATER SUPPLIES ABANDONED FROM JULY 1, 1884, TO JUNE 30, 1935 | ROM JULY 1, 1934, TO JUNE 30, 1935 | |
|---------------------|---|--------------------------------------|--------------|
| LOCATION | OWNER | SOURCE OF SUPPLY | TREATMENT |
| Budd Lake | Nettle Canffeld | 1 spring | |
| Fairlawn | Mrs. Emma Vanderbeck | 1 driven well, 150' deep | |
| Gloucester Township | R. I. Lamoreaux | 2 driven wells, 80' deep | |
| Phillipsburg | Lehigh Water Company | Delaware River, Infiltration gallery | Chlorination |
| Princeton Township | Margaret Thieme | 1 driven well, 170' deep | Chjorination |
| | | | |

Report of the Bureau of Food and Drugs

For the Year Ending June 30, 1935

W. W. Scofield, Chief

This Bureau enforces laws passed by the Legislature to prevent the adulteration, misbranding, and substitution of inferior articles for standard foods and drugs, and also those laws passed to prevent the handling, preparation, storage and transportation of foods and drugs under unclean conditions.

The Food and Drug Act of this State passed in 1907 is in harmony with the provisions of the Federal Food and Drug Act, and this law has been amended by the passage of several acts, such as, the Sanitary Act, the Non-Alcoholic Beverage Act, the act prohibiting the use of sulphites in meats, the act governing the manufacture and distribution of ice cream, and the act governing the production, handling and distribution of milk, cream and milk products. In addition to these acts, the Legislature has passed special laws governing the distribution and sale of oleomargarine, the "Filled" Milk Act, the Methyl Alcohol Act, the Cold Storage Act, the Slaughter-house Act, the Egg-breaking Act, and the laws governing the production, sale and distribution of shellfish.

During the year inspections of dairy farms in New Jersey, as well as of dairy farms located in other States where milk is produced for distribution in New Jersey, have been made by agents of this Department. These investigations have shown that there has been a great improvement in the sanitary conditions of the dairies supplying milk to New Jersey and in the methods employed in the production of milk. It is gratifying to note that the requirements governing the production and handling of milk laid down in Chapter 243 of the Laws of 1933, which were thought

to be very drastic by many producers of milk at the time of enactment, have now been generally accepted. Most producers are to be complimented for their efforts to meet these requirements and for the expenditure of time and money to equip and operate their dairy farms in a manner which has resulted in the production of clean and wholesome milk.

The following table shows the number of inspections of milk plants and dairy farms made by representatives of this Department during the year.

| | No.of | | | No.of |
|--------------|-------------------|----|------|----------|
| Ins | No.of bections | of | Ins | tections |
| State M | | ts | of | Dairies |
| New Jersey | 1,038 | | | 5.096 |
| Delaware | 5 | | | 148 |
| Indiana | 3 | | | 53 |
| Maryland | 10 | | | 311 |
| New York | 45 | | | 1.619 |
| Ohio | 3 | | | 87 |
| Pennsylvania | 56 | | | 2,024 |
| | | | - | |
| | 1,160 | | | 9,338 |

The following table shows the number of reports of inspections of dairy farms and milk plants received from local boards of health in this State:

| State | No. of Inspection Milk Plan | s of Is | No. of ispections of Dairy Farms |
|--------------|-----------------------------------|---------------------|--|
| Delaware | 1 | | 38 |
| Michigan | 1 | | 230 |
| New York | 36 | | 2.752 |
| Pennsylvania | 12 | ******************* | 1.094 |
| Virginia | 1 | | 82 |
| Wisconsin | 7 | | . 906 |
| | | | |
| | 58 | | 5,102 |

This Bureau gratefully acknowledges the receipt of these detailed reports of inspections of dairies and milk plants, and desires to point out that the success in the enforcement of this work is due to the combined efforts of these agencies. This co-operative work between this Bureau and the milk inspection agencies of municipalities in this State has prevented duplication of inspections and has resulted in covering a much larger field.

Collection of Milk, Cream and Milk Products—During the year 4,651 samples of milk and cream collected by agents of this Department were examined chemically. None of these samples contained preservatives and a very small number of samples of milk had been adulterated with water. A small percentage of the samples collected failed to meet the legal standards for total solids or for milk fat.

Ice Cream Factory Inspection—One full-time inspector is now engaged in inspecting places where ice cream, frozen custard, sherbets and ices are manufactured and in collecting samples of these articles for analyses. A considerable improvement has been observed during the past year in the sanitary conditions and methods employed in the manufacture of frozen products for distribution in New Jersey. Inspection has been stressed in those places at summer resorts where in past years crude temporary quarters were provided for the manufacture of frozen custards, etc. During the past year, these temporary places have been practically eliminated and permanent places, which comply with the law, have been provided.

During the year, 1,338 inspections have been made of places where ice cream, sherbets or ices are manufactured for distribution in New Jersey, and 1,131 samples have been collected for examination. Of this number 102 samples were found to differ from the legal standard.

Non-Alcoholic Beverage and Bottled Water Plant Inspection— During the year, 545 inspections were made of beverage and water bottling plants, and 223 samples were collected for analyses.

Slaughter-house Inspection—During the year inspections were made of 141 slaughter-houses in this State. These inspections show that these plants are operated in substantial compliance with the law.

Canning Factory Inspection—During the year 84 inspections were made of canning factories in this State. Special attention was given to the sorting of raw materials to prevent the entrance of unfit materials into canned foods. Our investigations showed that the pack was good, and the operators of the canning factories

were co-operative in meeting the requirements in force in this State. During the year 57 samples of canned foods were collected at the canning factories for examination.

Alcoholic Beverages—The collection of samples of alcoholic liquors showed that the labeling of these articles is still a problem for investigation. In several instances whisky and cordials have been found to be labeled in a deceptive manner. In certain cases statements were made on labels indicating that the whisky had been "aged in the wood" and upon examination, certain samples so labeled were found to be artificially colored. In the case of cordials, in one instance the article had been labeled "colored with caramel", when in fact it was found to be colored with a coal tar dye. In a number of cases alcoholic beverages bore false statements on the labels regarding the alcoholic content. It is planned to continue the investigation of alcoholic liquors from time to time, with the view of correcting the misbranding of these articles.

Penalties—During the year \$4,333.24 was collected in penalties and costs for violations of the Food and Drug Laws.

 $\it Fecs$ —The following fees were collected during the year for licenses and permits:

| • | | | | |
|-----------------------------|-----|-----|---------|-------------|
| Milk Permits | 600 | @ | \$25.00 | \$15,000.00 |
| Ice Cream Licenses | 14 | (a) | 100.00 | 1.400.00 |
| Ice Cream Licenses | 16 | @ | 50.00 | 800.00 |
| Ice Cream Licenses | 11 | @ | 25.00 | 275.00 |
| Ice Cream Licenses | 27 | @ | 10.00 | 270.00 |
| Ice Cream Licenses | 485 | @ | 5.00 | 2,425.00 |
| Cold Storage Plant Licenses | 25 | @ | 10.00 | 250.00 |
| Narcotic Drug Licenses | 2 | @ | 50.00 | 100.00 |
| Narcotic Drug Licenses | 11 | @ | 5.00 | 55.00 |
| | | | | |

\$20,575.00

TABLE 1

Samples of Milk, Cream, Foods, Drugs, Collected for Analyses

| | Above Standard | Below Standard | Total |
|---------------------|-------------------|-------------------|-------|
| Milk and cream | 4,529 | 122 | 4,651 |
| Foods | | 359 | 2.922 |
| Drugs | | 136 | 536 |
| Alcoholic beverages | | 49 | 218 |
| Miscellaneous | 7 | 15 | 22 |
| | 7,668 | 681 | 8,349 |

TABLE 2

Sanitary Inspections made of Establishments Where Foodstuffs are Produced, Prepared, Packed, Stored or Otherwise Handled

| | ections |
|--|---------|
| Dairy farms | 9,338 |
| Milk plants | 1,160 |
| Ice cream factories | 1,338 |
| Non-alcoholic beverage and water bottling plants | 545 |
| Slaughter-houses | 141 |
| Cold storage warehouses | 273 |
| Egg breaking establishments | 20 |
| Canning factories | 84 |
| Alcoholic beverage establishments | 69 |
| Macaroni factories | 25 |
| Pickling plants | 9 |
| Meat packing plants | 11 |
| Candy factories | 19 |
| Miscellaneous establishments | |
| | 10 |
| | 13,042 |

Cold Storage—Section 8, Chapter 101 of the Laws of 1916 (the Cold Storage Act), provides that the State Director of Health shall extend the period of storage beyond twelve months for any particular article of food, providing the food is found to be in proper condition for further storage. A report on each particular lot of food on which extensions of time were granted shall be included in the annual report of the Director of Health.

During the last fiscal year from July 1, 1934, to June 30, 1935, extensions of time were granted for the storage of food in cold storage, as follows:

| Quantity | Article | Extension Granted |
|------------------|------------|-------------------|
| 11,517 boxes | Cheese | 3 months |
| 84-100 lb. boxes | Game | 3 months |
| 299 50 lb. cases | Fresh Meat | 1 month |
| 42- 50 lb. cases | Poultry | 1 month |
| 975— 30 lb. cans | Egg Yolk | 3 months |

In each case where extensions of time were granted the articles were examined and found to be in suitable condition for the additional period of storage. 106

| SUMMÁRY OF THE KINDS AND AMOUNTS OF FOODS IN | INDS AND | AMOUNTS | OF FOODS | | STORAGE ING THE Y | OOLD STORAGE WAREHOUSES IN NEW JERSEY ON THE LAST DAY OF EACH MONTH DURING THE YEAR 1894-1896 | 18ES IN NI 136 | SW JERSEY | ON THE | LAST DAY | r of each | I MONTH | |
|--|--------------|--------------|---------------|--------------|----------------------|--|-------------------|--------------|---------------|---------------|-------------|--------------|-----|
| ARTICLE | July 1934 | Ang. 1034 | Sept. 1934 | Oct. 1934 | Nov. 1934 | Dec. 1934 | Jan. 1935 | Feb. 1935 | March 1935 | April 1935 | May 1935 | June 1035 | DE |
| Eggs, cases | 610,400 | 520,934 | 484,721 | 286,672 | 158,493 | 50,770 | 2,305 | 4,500 | 92,373 | 206,486 | 440,758 | 561,396 | PA. |
| Eggs, broken, lbs | 4,602,781 | 4,208,316 | 3,432,614 | 3,040,478 | 2,981,392 | 2,940,583 | 2,427,857 | 2,003,530 | 1,874,953 | 1,564,738 | 2,129,090 | 2,603,223 | R'I |
| Cheese, lbs | 7,250,032 | 7,344,381 | 7,367,084 | 6,456,309 | 6,595,950 | 6,285,762 | 5,207,716 | 4,498,062 | 3,881,872 | 3,292,008 | 3,069,191 | 3,926,619 | . M |
| Butter, 1bs | 8,263,020 | 3,852,999 | 4,344,192 | 3,432,134 | 1,904,593 | 556,267 | 360,856 | 400,501 | 328,604 | 311,762 | 1,400,743 | 5,215,253 | Εľ |
| Poultry, lbs | 6,933,530 | 7,103,244 | 7,526,356 | 8,836,297 | 10,474,574 | 11,108,064 | 10,400,800 | 9,734,596 | 9,392,585 | 7,955,932 | 7,413,145 | 7,808,413 | VΤ |
| Fresh meats, lbs | 1,992,115 | 4,323,208 | 6,711,013 | 4,786,465 | 4,081,507 | 5,501,255 | 5,640,879 | 5,477,105 | 6,300,795 | 0,000,070 | 6,246,949 | 6,837,888 | C |
| Fresh fish, lbs | 2,197,054 | 2,420,222 | 2,458,746 | 2,828,251 | 2,828,251 2,882,105 | 2,450,057 | 1,927,024 | 1,155,458 | 811,758 | 908,250 | 1,781,397 | 1,541,088 |)F |
| Milk and milk products, | 112,307 | 88,346 | 81,012 | 61,500 | 30,036 | 21,236 | 14,202 | 11,108 | 1,188 | 5,528 | 52,080 | 752,544 | H |
| Edible fats & oils, lbs. | 2,042,522 | 3,438,958 | 392,155 | 264,332 | 301,398 | 559,552 | 842,985 | 863,908 | 1,139,561 | 870,739 | 842,262 | 1,277,170 | A |
| Game, Ibs | 166 | 166 | 241 | 747 | 1,778 | 1,676 | 250 | 130 | 210 | 150 | 150 | : | L/I |
| Miscellaneous articles, | 91,374 | 150,963 | 372,862 | 754,282 | 799,789 | 711,463 | 522,515 | 471,723 | 354,632 | 198,375 | 140,559 | 122,535 | 'H |

Sanitary Shellfish Control.—In October funds to employ a force of three graduate bacteriologists as Shellfish Investigators were provided from a special fund of the State House Commission, which permitted the operation of two field laboratories and adequate inspection of shellfish producing waters and methods of distribution. The United States Public Health Service thereupon gave their approval to interstate shipments of New Jersey shellfish.

BUREAU OF FOOD AND DRUGS

During the past fiscal year 435 shippers of shellfish in the shell and 21 shucking houses have been granted shellfish certificates. There have been made 865 inspections of shellfish shippers, 142 inspections of shucking establishments, and 198 special investigations of shellfish waters. In addition, there have been examined in the field laboratories or upon the laboratory boat "Inspector" 1,921 samples of water and 280 samples of oysters, hard and soft clams. By the use of these facilities it is believed that an adequate mechanism for the sanitary control of the shellfish industry in New Jersey has been set up during the past year.

Two experimental shellfish treatment plants in which shellfish are permitted to condition themselves in sterilized water have been successfully operated during the past year as a demonstration of the feasibility of this method of conditioning shellfish and safeguarding the sanitary quality of the product.

During May and June of 1935, intensive investigation was made of the waters of Raritan Bay, in conjunction with the United States Public Health Service, the New York State Conservation Department, and the New York City Department of Health. Seven hundred and thirty-one samples of water were collected from this area, which resulted in the demonstration that all of the present approved areas of this bay were reapproved, with the exception of a triangular area adjoining the interstate border off the point of Sandy Hook.

Report of the Bureau of Bacteriology

For the Year Ending June 30, 1935

J. V. Mulcahy, Chief

This report is a summary of the work of the Bureau of Bacteriology for the fiscal year ending June 30, 1935. This summary is shown in the tabulations of specimens from cases and suspected cases of communicable diseases and other specimens for bacteriological and serological examinations.

These specimens are received from the physicians to aid them in making a diagnosis in suspected cases of communicable diseases, also from cases of communicable diseases, also from cases of communicable diseases for the termination of quarantine as in cases of diphtheria and for the release of cases of typhoid fever after convalescence. Serological examinations of blood for the Wassermann test are made for physicians as an aid in diagnosis and treatment of cases of syphilis. Examinations of specimens are made for physicians located in State institutions from inmates and from all new admittances to these State institutions to prevent the introduction of disease carriers into these institutions.

Feces, urine and blood and nose and throat specimens are examined from food handlers. The majority of food handlers from whom specimens are examined are men and women who are milk handlers of certified milk, New Jersey Official Grade "A" Milk, persons engaged handling foods in C. C. C. camps, camps run by other organizations, local boards of health and schools, and in cases of outbreaks of disease, persons engaged in handling other varieties of food.

Food specimens of various kinds have been examined that were suspected of being responsible for acute cases of gastro-intestinal illness occurring in families or in inmates of State institutions. The use of the facilities of the laboratory is shown most forcibly by the large number of blood specimens received for examination by means of the Wassermann reaction for syphilis. It indicates that more specimens are being sent to the laboratory to assist the physicians in the early diagnosis of cases of this disease, also to rule out this disease in obscure cases of illness, and also in their cases under treatment to determine the need of further specific treatment.

It will be seen from Table I that 49,762 blood specimens were examined during the year for the Wassermann reaction. Supplementary tests on these specimens by means of the Kahn reaction that do not show in Table I total 6,737 examinations.

Table I

TOTAL NUMBER OF SPECIMENS EXAMINED DURING THE FISCAL YEAR ENDING JUNE 30, 1935

| Diphtheria | 9.178 |
|-----------------------------------|--------|
| Tuberculosis | 10,018 |
| Typhoid fever | 3,895 |
| Typhoid bacilli (feces and urine) | 5,997 |
| Gonorrhoea | 6,171 |
| Syphilis | 49,762 |
| Miscellaneous specimens | 4,652 |
| Total | 20 673 |

The 4,652 miscellaneous specimens shown in this table are classified in Table XI to show the various kinds of examinations made under this heading.

There has been a marked increase in the number of specimens of sputum received for examination for evidence of tuberculosis. Many of these specimens, however, are received from patients in hospitals for the care of tubercular patients, and are sent in periodically to check on the effect of the care and treatment of these patients. An increase is also shown in the number of specimens examined for the agglutination test for typhoid fever, for gonorrhoea and in the time-consuming miscellaneous examinations.

It is gratifying to realize the laboratory is so increasingly useful to the physicians of the State and every effort is made to comply with every demand on the resources of the laboratory that are in any way of value in the interest of the public health.

Supplementing the work of a strictly routine nature, members of the staff have been able to include special problems relating to the improvement of methods. Investigation has been made of the value of selective culture media for the isolation of tubercle bacilli as compared with the results of guinea pig inoculation in cases of suspected tuberculosis when it has not been possible to demonstrate the presence of tubercle bacilli microscopically in stained smears of the sputum.

The microscopic method for the demonstration of capsules in accordance with the technique of Newfeld in the examination of specimens of sputum for the determination of pneumococcus type differentiation using rabbit sera has been compared with the mouse inoculation method and cultural methods. If the specimen can be forwarded to the laboratory in a fresh condition, this method of demonstration of capsules enables the laboratory to make a prompt determination of the invading type of pneumococcus in cases of pneumonia, saving several hours over the mouse method in administering serum therapy, which to be effective must be undertaken as early as possible in the course of the infection.

A number of cases of bacillary dysentery which occurred in this State during the year afforded the laboratory opportunity to isolate the organism from a number of specimens of feces, and to determine by serological and cultural methods the invading strain of dysentery bacilli.

This work required the inoculation of rabbits for the production of immune sera and the setting up of absorption tests to separate strains giving agglutination tests with two or more dysentery diagnostic sera.

Cases of erysipelas occurring in one of our State institutions required the examination of a number of specimens from inmates and contacts for the presence of hemolytic streptococci. Strains of hemolytic streptococci were isolated from these cases and an investigation of these isolated strains is now being made.

Examinations for intestinal protozoa, especially Entamoeba histolytica, have been made during the year on specimens of feces. A description of methods used and precautions in submitting specimens were given in the report of this Bureau last year. In some cases of suspected infection, examination has been made by a member of the staff carrying a microscope and other reagents to the hospital or home to assure getting a specimen that would be freshly collected for immediate examination. Examinations for amoeba to be of value, should be undertaken as soon as possible after the collection of the specimen, and if sent from a considerable distance from the laboratory should be kept in a warm condition and delivered for examination without undue delay.

Reactions were obtained in three instances by means of the Weil Felix reaction on three cases in a high dilution of 1-1280 on specimens of blood. In one of these cases giving a reaction, on the clinical history and subsequent death of the patient, it was considered that this patient might have been a case of Rocky Mountain fever.

During the year twenty-nine animal inoculations for the virulence of diphtheria organisms were made on cases where the organism persisted in the throat of convalescent cases of diphtheria for an unusually long period and from carriers. In some instances tests were made on cultures from municipal laboratories that have no facilities for this test. Nine of these specimens were found to be virulent. Inoculations were made on twenty-one animals of various food products suspected of being responsible for cases of food poisoning.

Thirty-five specimens of pleural fluid to be examined for tubercle bacilli were inoculated into animals. Of this number ten were positive.

Specimens of urine from suspected cases of renal tuberculosis were inoculated into animals in eighty-one cases, eight of which were positive.

Sputum from selected cases for the presence of tubercle bacilli was inoculated into eighteen animals, six of which were positive.

Of twelve specimens of spinal fluid from suspected cases of tubercular meningitis animal inoculations on these specimens showed two positives.

Animal inoculations were made subdurally on all specimens of suspected rabies that were not found positive on direct microscopical examination or were so putrid when received that a satisfactory direct microscopical examination was not possible. During the year 140 inoculations were made on such specimens, in some instances requiring the inoculation of several animals in some of these badly contaminated specimens.

A total number of 177 animals' heads and one human brain were received for examination for rabies during the year. Of these, seventy-two (40.6%) were found positive.

Table II shows a comparison of specimens examined in this laboratory each year for the past ten years from suspected cases of rabies.

TABLE II
YEARLY TOTALS OF ANIMALS EXAMINED FOR RABIES FROM
1926 TO 1935, INCLUSIVE

| Positive Negative Unsatisfactory | 202 145 | 132 | 93 116 19 | 106 115 22 | 96 121 11 | 80 114 8 | 177 123 27 | 130 121 21 | 86 93 10 | 72 94 12 |
|----------------------------------|------------|-----|-----------------|------------------|-----------------|----------------|------------------|------------------|----------------|----------------|
| Total | 372 | 322 | | | 228 | | | | | - |

While rabies is still prevalent throughout the State it will be noted that fewer dogs have been found rabid than in any other year shown in this tabulation. Some examinations for rabies are made in several other laboratories situated in the northern part of the State and reports received by this Department show that 115 dogs including those examined in this laboratory, were found to be affected with rabies during the year ending June 30, 1935.

Table XIII shows the species of animals examined for evidence of rabies. It will be noted that twelve of these specimens were received in such an unsatisfactory condition that it was not possible to make an examination. These specimens were either

so badly decomposed or the brain so destroyed by shooting that no formed brain tissue could be obtained for examination.

Attention has been directed in past reports of this Bureau and in publications of this Department to the need of careful icing of the specimen when shipping an animal's head for laboratory examination and cautioning against injury to the brain when the animal is killed.

Too often these dogs are killed immediately after biting a person, when they perhaps do not show any symptoms of rabies, and the laboratory examination fails to show any evidence of rabies either because the dog was not rabid or that it had been killed too early to reveal any evidence of rabies in the brain. It is then necessary to inoculate an animal with an emulsion of the brain and await the effect of this inoculation.

Unless a dog shows definite symptoms of rabies it should not be killed immediately, but kept securely chained and under observation. If the animal then shows symptoms of rabies within a few days it may then be killed and the head sent to the laboratory for examination. At that time the microscopic examination will be quite conclusive.

On the other hand if the animal remains alive and shows no symptoms of rabies for a period of two weeks, no anxiety need be felt that the animal was rabid at the time of biting a person.

In Table XII is shown the examinations made for evidence of undulant fever. It will be seen that of the 403 specimens of blood examined, 29 gave agglutination with the B. abortus antigen.

Table IX and Table X show the number of specimens of blood and spinal fluid examined for syphilis by means of the Wassermann reaction. The complement fixation test as carried out in this laboratory employs two antigens on each blood and spinal fluid specimen, one test with a plain alcoholic antigen and another test an alcoholic antigen reinforced with 0.2 per cent cholesterin.

The fixation period is carried out for four hours at an ice box temperature between 5-8° C. On all positive reactions obtained with the Wassermann reaction a Kahn precipitation test is made.

The comparative results obtained with the use of the Wassermann reaction and the Kahn precipitation test, in our experience have been very satisfactory and serve both as a useful check on the laboratory results and give additional information to the physician submitting the specimens.

Table XV shows the kinds and number of mailing cases prepared for distribution for the collection and transmission of specimens to the laboratory for examination. These outfits are supplied to various repositories located in drug stores and offices of local boards of health, and in many instances directly to the physicians of the State and to those in charge of the medical service in State institutions.

These outfits comply with the postal regulations relating to the transmission of diseased material through the mail and the preparation of these outfits requiring the preparation of sterile enclosures including sterile swabs, bottles, needles and other items that go into the preparation of these outfits is an important phase of our work.

The demand for culture media for use in the examination of water and sewage samples, surf samples and swimming pools, together with culture media used in shellfish examinations and for use in field work of the Bureau of Engineering, has greatly increased during the past year. All this media is prepared, tubed and sterilized in this Bureau, also dilution water, collection bottles and other glassware and has kept our force very busy.

Our records show that from October 15, 1934, to June 30, 1935, over 1,000 liters of various culture media were prepared and tubed for the use of the other Bureaus of this Department.

During the year we have had groups from nurses' training schools, colleges and other interested persons visit the laboratory to observe procedures followed in a public health laboratory in the examination of specimens from cases of communicable diseases.

Opportunity has been allowed during the year for several voluntary workers to spend several months at a time in the laboratory to familiarize themselves with technical laboratory methods. In the tabulations that follow is shown the various examinations made, and the number examined in this Bureau during the year, arranged and classified under the name of the disease for which they were examined.

. TABLE III

Specimens Examined for Diphtheria Bacilli, Primary and Secondary, During Fiscal Year Ending June 30, 1935, by Months

| MONTH | 1 | Primary | | | Seconda | iry | |
|---|---|--|--|---|--|---|---|
| | + | - | Uns. | + (| - (| Uns. | Total |
| July August September October November December January February March April May June | 5 11 24 16 11 7 9 14 16 | 492 409 583 745 487 590 409 356 499 325 408 620 | 19 80 23 11 2 14 8 10 10 10 | 7 1 3 72 44 12 25 32 29 21 16 18 | 137 117 283 320 218 292 251 180 177 136 223 212 | 2 5 3 7 3 4 3 4 5 1 0 | 662 562 906 1173 770 922 791 591 734 512 677 871 |
| Total | 131 | 6013 | 157 | 278 | 2546 | 53 | 9178 |

During the year twenty-nine tests were made for the virulence of the diphtheria bacillus.

TABLE IV

Specimens Examined for Tubercle Bacilli, Primary and Secondary, During Fiscal Year Ending June 30, 1935, by Months

| MONTH | P | rimary | | | Seconda | ar y | |
|-----------|-----|--------|------|------|-----------|-------------|-------|
| | + | - | Uns. | + | - { | Uns. | Total |
| fuly | 48 | 334 | 6 | 108 | 398 | j | 899 |
| August | 63 | 252 | 1 | 130 | 378 | 5 | 826 |
| September | 37 | 225 | ·ii | 124 | 275 | 1 | 663 |
| October | 44 | 302 | 4 | 133 | 352 | 1 | 836 |
| November | 44 | 299 | īl | 81 | 263 | 8 | 696 |
| ecember | 87 | 311 | 2 | 152 | 401 | 3! | 900 |
| anuary | 37 | 318 | 2 | 104 | 851 | 31 | 81 |
| ebruary | 491 | 330 | 2 | 981 | 401 | 8 | 888 |
| farcb | 42 | 347 | 2 | 113 | 399 | 31 | 906 |
| pril | 47] | 318 | 8 | 132 | 409 | 5 | 91- |
| fay | 39 | 876) | 8 | 88 | 323 | 8 | 842 |
| une | 43 | 335 | 2 | 88 | 354! 1 | 5 | 827 |
| Total | 530 | 3747 | 38 | 1851 | 4304 | 53 | 10018 |

TABLE V

Specimens Examined for Typhoid Fever Reaction, Primary and Secondary, During Fiscal Year Ending June 30, 1935, by Months

| MONTH | F | rimary | | | Seconda | ry | |
|---|--|---|---|-----|--|-----------------|--|
| | + | - | Uns. | + { | - (| Uns. | Total |
| July August September October November December January February March April May June | 20 13 12 12 11 7 4 9 4 10 11 2 2 | 241 244 231 167 161 216 293 369 265 134 134 | 9 19 7 9 5 1 14 14 15 6 6 | 1 3 | 71 65 52 54 45 108 127 45 80 85 | 5 6 1 1 4 1 1 1 | 34 35; 30; 25; 22; 33; 44; 43; 43; 37; 22; 200 400 |
| Total | 95 | 2633 | 113 | 36 | 991 | 27 | 3895 |

TABLE VI

Specimens of Feces and Urine Examined for Typhoid Bacilli, Primary and Secondary, During Fiscal Year Ending June 30, 1935, by Months

| MONTH _ | | Primary | | | Seconda | ıry | |
|---|-------------------------------------|---|--------------|------------------------------------|--|---------------|--|
| | + | - | Une. | + | - (| Uns. | Total |
| July August September October November December January February March April May June | 3 2 3 3 1 1 2 | 483 425 443 518 259 354 475 307 284 194 300 | 122212435112 | 2 8 13 4 1 1 3 1 1 2 2 4 4 4 1 2 2 | 186 130 148 95 52 145 253 135 128 62! 82! 261 | 1 1 1 2 1 1 1 | 675 568 610 623 314 506 734 447 424 248 279 569 |
| Total | 18 | 4223 | 26 | 45 | 1677 | 8 | 5997 |

TABLE VII

Specimens Examined for Gonococci (pus smears), Primary and Secondary, During Fiscal Year Ending June 30, 1935, by Months

| MONTH | P | rimary | | | Seconda | ry | |
|--|---|---|---|--|---|--------------------------------------|--|
| MUNTH | + | - (| Uns. | + | - { | Uns. | Total |
| July August September October Norember December January February March Mar | 90 108 100 105 80 59 71 67 59 70 95 | 314 341 307 278 309 219 290 314 319 328 331 | 5 8 19 6 12 10 11 7 7 | 17 38 19 28 28 15 28 14 15 22 21 | 101 107 109 114 90 95 83 96 99 97 100 81 | 4 3 8 5 7 3 5 2 | 522 601 541 552 518 407 485 507 501 525 561 451 |
| June | 976 | 3614 | 101 | 264 | 1172 | 44 | 6171 |

TABLE VIII

Miscellaneous Specimens Examined, Primary and Secondary, During Fiscal Year Ending June 30, 1935, by Months

| | P | rimary | | | Seconda | ry | |
|---|--|--|--------------|---|---|---------|--|
| MONTH | + | - [| Uns. | + | - { | Uns. | Total |
| July August September October November December January February March April May June | 50 79 70 63; 61 66; 80 62 67; 81 113 | 296 355 291 291 188 138 211 283 306 180 224 217 | 758445185656 | 4 7 9 14 21 11 18 6 81 11 9 | 21 26 68 73 45 84 32 89 136 37 | 1 2 3 2 | 379 472 448 383 321 274 342 449 543 315 368 356 |
| Total | 863 | 2935 | 64 | 154 | 625 | 11 | 4652 |

TABLE IX

Specimens of Blood and Spinal Fluid Examined for Syphilis (Complement Fixation Test), with Alcoholic Extract Beef Heart Antigen, During Fiscal Year Ending June 30, 1935, by Months

| | | | Pri | mary | , | | | Secondary | | | | | == | | |
|---|---|--|----------------|--|--|--|---|--|-------------|--|--|--|---|--|--|
| MONTH | 4+ | 3+ | 2+ | + | ± | - | Uns. | 4+ | 3+ | 2+ | + | ± | - | Uns. | Total |
| July August September October November December Jannary February March April May June | 129 156 123 149 131 105 115 120 157 129 137 | 8 11 8 6 15 6 3 11 10 7 | 18 14 17 | 8 8 11 13 9 6 13 19 13 28 | 28 20 21 30 17 20 21 27 30 | 2750 2369 2993 2588 2285 3246 3323 3252 3153 3201 | 91 72 82 73 82 142 153 201 | 51 68 50 63 63 50 60 43 62 79 65 | 3 5 8 | 10 14 12 11 6 5 21 31 16 | 5 6 9 11 14 16 6 15 18 15 25 | 26 19 21 20 21 31 17 26 28 | 833 630 725 727 820 834 829 917 979 1035 | 22 27 21 16 57 53 53 56 39 | 3700 4058 3357 4147 3737 3446 4529 4628 4793 4730 4748 |
| Total | 1561 | 94 | 194 | 156 | | 34302 | | 710 | | | 16 156 | | 937 | 471 | 3889 49762 |

TABLE X

Specimens of Blood and Spinal Fluid Examined for Syphilis (Complement Fixation Test), with Cholesternized Antigen, During Fiscal Year Ending June 30, 1935, by Months

| | | | Pri | mary | | | | | | | Seco | ndar | y | | |
|----------------------|------------|-----|----------|----------|----------|--------------|------|------------|-----|-----------|------------|----------|------------|------------|--------------|
| MONTH | 4+ | 3+ | 2+ | + | 1 ± | - | Uns. | 4+ | 3+ | 2+ | + | ± | - | Uns. | Total |
| July | 233 | 3 | 5 | 8 | 20 | 2514 | 120 | 129 | 7 | 12 | 18 | 31 | 588 | 32 | 3700 |
| August | 274 | 71 | 6 | 18 | 17 | | | 246 | 7) | 12] 7] | 34 | 59 | 613 | 35 | 4058 |
| September October | 216 | 6 | 11 | 15 21 | 31 25 | | | 128 | 4 | 6 | 25 | 39 | | | 3357 |
| November | 247 | 91 | - 1 | 18 | 25 18 | | | 174 156 | 11! | 11 | 33 43 | 27 50 | 590 597 | | 4147 3737 |
| December | | 2 | ŝ | 20 | 22 | | | 132 | 41 | 11 | 83 | 36 | | | 3416 |
| January | | 5 | 6 | 43 | 49 | | | 167 | 10 | 2 | 44 | | | | 4529 |
| February | | - 5 | 4 | 42 | 33 | | | 150 | 4 | 2 | 53 | 61 | | | 4628 |
| March | 326 | 81 | 6 | 48 | 3 | | | 229 | 13 | 11] | 50 | | | | 4793 |
| April | 328 | 14 | 61 31 | 58 | 2 | | | 335 | 8 | 13 | 99 | 1 | | | 4730 |
| May June | 302 246 | 1 | اا | 78 58 | i | 3017 2364 | | 277 198 | 10 | 1 | 147 100 | 1 | | 391 581 | 4748 8889 |
| Total | 3057 | 65 | 42 | 427 | 221 | 32745 | 1442 | 2321 | 87 | 63 | 679 | 367 | 7775 | 471 | 49762 |

TABLE XI

Miscellaneous Specimens Examined, Positive, Negative and Unsatisfactory,
During Fiscal Year Ending June 30, 1935

| | | | Unsatis- |
|--|----------|----------|----------|
| Specimen for | Positive | Negative | factory |
| Rabies | . 72 | 94 | 12 |
| Amoeba | | 123 | 1 |
| Bacterial infection (body fluids, feces, milk, pus, | | | |
| sputum, water, urine, etc.) | | 648 | 14 |
| B. tuberculosis (body fluids, feces, pus and urine). | | 153 | 3 |
| B. typhosus (blood, oiive oil, milk and water) | | 12 | |
| Para-typhoid fever | . 1 | 1,112 | 18 |
| B. para-typhosus (feces, milk, urine and water) | . 7 | 404 | |
| Dysentery | . 17 | 147 | 5 |
| Gonococcus infection (urine) | | 1 | |
| Malarial parasite (blood) | | 33 | 1 |
| Meningococci | | 4 | |
| Ophthalmia Neonatorum | . 46 | 27 | 2 |
| Pneumonia | . 7 | 6 | 1 |
| Spirochetes | | 2 | •• |
| Trichinosis | | 5 | •• |
| Tularemia | | 21 | |
| Typhus fever (blood reaction for) | . 3 | 17 | 2 |
| Undulant fever | . 29 | 370 | 8 |
| Vincent's Angina | . 197 | 303 | 6 |
| Other unusual examinations | | 78 | 2 |
| Total | . 1,017 | 3,560 | 75 |
| Grand Total | | | 4652 |

TABLE XII

Specimens Examined for Evidence of Brucella Infection, During Fiscal Year Ending June 30, 1935

| | | | Unsatis- |
|---|----------|---|----------|
| Undulant fever | Positive | Negative | factory |
| Aggultination test of human blood | . 29 | 366 | 8 |
| Feces (Culture for type of organism) | | 1 | |
| Urine (Culture for type of organism) | | 1 | |
| B. abortus Agglutination test of cow's milk | | 1 | |
| Agglutination test of goats's milk | | 1 | •• |
| Total | . 29 | 370 | 8 407 |
| Grand total | | • | |

TABLE XIII

Rabies Specimens, Species of Animals, Positive, Negative and Unsatisfactory,
Examined During Fiscal Year Ending June 30, 1935

Dogs—Positive, 72; Negative, 80; Unsatisfactory, 11. Cats—Negative, 9. Cows—Negative, 3. Goat—Negative, 1. Squirrel—Unsatisfactory, 1. Child—Negative, 1.

TABLE XIV

Municipalities, Arranged by Counties, from Which Rabid Animals Were Received During Fiscal Year Ending June 30, 1935

Burlington County—Maple Shade, 1; Moorestown, 1; Mt. Holly, 1; Riverton, 1; Vincentown, 1.

Camden County—Camden, 16; Collingswood, 1; Haddon Heights, 2.

Gloucester County—South Westville, 1; Westville Grove, 2; Woodbury, 10.

Hunterdon County—Clinton, 2; Frenchtown, 1; Pittstown, 1; Quakertown, 1; Stanton, 1.

Mercer County—Trenton, 12.

Middlesex County—Dunellen, 1; Plainsboro, 1; Stelton, 1.

Morris County—Dover, 3; Morris Plains, 1.

Ocean County—New Egypt, 2; Toms River, 1.

Salem County—Salem, 1.

TABLE XV

Union County—Rahway, 1. Warren County—Phillipsburg, 1.

Mailing Cases for the Collection and Transmission of Specimens Supplied to Physicians and Repositories Throughout the State During Fiscal Year Ending June 30, 1935

Somerset County-Bound Brook, 1; Raritan, 1; Somerville, 1; Watchung 1.

| Diphtheria—Regular mailing cases | |
|--------------------------------------|---------|
| Serum tubes and swabs | |
| Extra swabs | |
| | 13,276 |
| Tuberculosis mailing cases | 13,005 |
| Typhoid fever mailing cases | 4,185 |
| Malaria mailing cases | 168 |
| Gonorrhoea mailing cases | 8,098 |
| Feces and urine mailing cases | 7,801 |
| Syphilis mailing cases | 55,438 |
| Ophthalmia neonatorium mailing cases | 141 |
| Total | 102,112 |

Report of Bureau of Chemistry

For the Year Ending June 30, 1935

J. E. BACON, CHIEF

The Bureau of Chemistry makes chemical and bacteriological examinations of samples of foods, drugs, sewage and trade wastes collected by the Department's representatives in the enforcement of the Pure Food and Drug Act and of the Public Health Laws of New Jersey. The facilities of the laboratory are also extended to Local Boards of Health, State Department of Public Instruction, State Purchasing Commissioner, New Jersey State Police, State Board of Pharmacy, Fish and Game Commission, State Institutions and State Tax Department. Analyses are also made of various samples of foods and supplies purchased under specifications for institutional use, drugs collected by the inspectors of the State Board of Pharmacy, rural school waters submitted by Local Boards of Education, water supplies from camps maintained by benevolent associations and other miscellaneous samples.

Assistance is given to Local Boards of Health and water works laboratories desiring to install chemical control or supplement existing laboratory facilities. Instructions in chemical procedures are given the personnel of such laboratories when requested.

The Bureau makes investigations of those establishments producing chemicals which give rise to obnoxious, objectionable fumes and furnishes expert advice to Local Boards of Health to assist in abatement of such nuisances.

Eighteen thousand seven hundred and twenty-nine samples of food, drugs, water, sewage and miscellaneous preparations have been examined during the past year, being an increase of 20% in the number of samples analyzed. The tabulations indicate the variety of products analyzed.

The fluorine content of 132 of the public water supplies of the State has been determined during the past year. If the fluorine in drinking water appreciably exceeds 1.0 part per million, there is produced mottling or pitting of the teeth, particularly during the formative stage in children. The extent of this action depends on various factors, primarily the fluorine content of the water, but is also influenced by fluorine intake into the system from other foods consumed. Of all the public water supplies thus far examined only three show the fluorine content to slightly exceed the lower limit of 1.0 part per million above which attacking of the teeth enamel may result. The information obtained was given to the Bureau of Local Health Administration, that Bureau of the Department which investigates all epidemics and diseases. A survey of the teeth of school children in one of the towns where the fluorine content of the public water supply runs somewhat in excess of 1.0 part per million was conducted. Results of the preliminary investigation indicate slight evidence of mottled teeth in a small number of the children examined. It is contemplated to make analyses of the remainder of the public water supplies of the State as soon as possible to determine the fluorine content, but it is evident from the examinations already completed that the public water supplies of the State of New Jersey would be classified as of low fluorine content and the possibilities of endemic defective teeth due to the action of this chemical upon same is remote.

TABLE SHOWING NUMBER AND CHARACTER OF SAMPLES EXAMINED IN FOOD AND DRUG LABORATORY DURING THE FISCAL YEAR ENDING JUNE 30, 1935

| | Above Standard | Below Standard | Total |
|-----------------------|-------------------|-------------------|-------|
| Milk | 3.840 | 101 | 3.941 |
| Milk, bacteriological | 18 | | 18 |
| Human Milk | | | 2 |
| Evaporated Milk | 44 | 4 | 48 |
| Chocolate Milk | | | 4 |
| Cream | 565 | 3 | 568 |
| Sour Cream | 51 | | 51 |
| Ice Cream | 978 | 72 | 1,050 |
| Frozen Custards | | 25 | 54 |

| | Above | Below | |
|-------------------------------|----------|----------|------------|
| | Standard | Standard | Total |
| Sherbets | . 5 | 4 | 9 |
| Butter | 128 | 5 | 133 |
| Cheese | 63 | 54 | 117 |
| Hamburg | 423 | 16 | 439 |
| Pork Sausage | 264 | 79 | 343 |
| Alcoholic Beverage | 208 | 52 | 260 |
| Soft Drinks | 141 | 105 | 246 |
| Relishes | . 10 | 2 | 12 |
| Canned Vegetables | 5 | 2 | 7 |
| Tomato Products | 42 | 1 | 43 |
| Egg Noodles | 4 | 5 | 9 |
| Fruits for Arsenic Spray | 73 | 10 | 83 |
| Vegetable Oil | 9 | 2 | 11 |
| Olive Oil | 175 | 54 | 229 |
| Vinegar | 44 | 9 | 53 |
| Sugar | _ | • • • • | 6 |
| Extracts | 44 | 22 | 66 |
| Powder | .5 | ••• | 5 |
| Cakes | 19 | 7 | 2 6 |
| Candy | 1 | 7 | 8 |
| Miscellaneous | 28 | ••• | 2 8 |
| Total Foods and Miscellaneous | 7,228 | 641 | 7,869 |
| Boric Acid | 8 | | 8 |
| Brown's Mixture | 12 | | 12 |
| Castor Oil | | | 25 |
| Camphorated Oil | 152 | 17 | 169 |
| Chloroform Liniment | 18 | 42 | 60 |
| Citrate Magnesia | 45 | 48 | 93 |
| Creosolenes | 4 | ••• | 4 |
| Cod Liver Oil | 5 | | 5 |
| Epsom Salts | 5 | ••• | 5 |
| Hydrogen Peroxide | 138 | 17 | 155 |
| Milk of Magnesia | 4 | | 4 |
| Mineral Oil | 1 | 4 | 5 |
| Saccharin Tablets | 21 | 21 | 42 |
| Spirits Nitre | 96 | 62 | 158 |
| Tincture Ferric Chloride | 35 | 7 | 42 |
| Tincture Iodine | 98 | 3 | 101 |
| Witch Hazel | 33 | 6 | 39 |
| Urinalysis | 15 | ••• | 15 |
| Miscellaneous | 29 | 2 | 31 |
| Total Foods and Drugs | 7,972 | 870 | 8,842 |

| | | DHIMIM | LIVI OF I | IEALIII | |
|-------------------|----------|--|--|--|--------|
| | | Total Working Units | 4451 7604 2601 5799 3843 2057 | 4503 2472 3611 4523 7012 6537 | 1 60 |
| | | Total Samples | 1022 477 925 801 | 896 699 1221 | 1000 |
| | | Shellfish Waters | 2 | | - |
| | | Sand Samples | x | 4004 | , c |
| | | Experimental Samples | 36. 13. | 25 ± ± £ £ | 72, |
| 1935 | Э. | Miscellaneous | 9 | | - |
| 8 | _ | aslquing ling | 203 | 216 | , a |
| JUNE | L | Trade Waste Samples | | 1 :03 th 8 | 2 |
| To | L | Sewage Samples | 240 352 337 143 36 | 41-901EP- | 1617 |
| 7, 1934, | | Stream Samples | 360 360 14 14 14 14 14 14 14 14 14 14 14 14 14 | 1 0 0 178 171 | 856 |
| JULY | | Water-shed Samples | E840 54 | 12 20 4 21 | 633 |
| FROM J | eəld | Bathing Water and Swimming Pool Sam | 83 | - 2 | 18 |
| Y FB | 86 | Bottled Water Supplie | H# :::: | : 4 8 64 : 7 89 64 | 7.2 |
| SEWAGE LABORATORY | | Dalty Supplies | X2-01-461 : | N A A A | = |
| ABOI | | School Supplies | 101 | 161 133 36 5 5 | 689 |
| GE I | | State Institutions | 3 1 1 8 6 11 8 6 11 1 8 6 11 1 1 1 1 1 1 | 24 - 524 | 132 |
| 8EW | | County Institutions | ल च ∞ ा । ज ल | @404 ND | 7.0 |
| AND | səri | Roadside Stand Supp | 24 : 24 : | H : : : : : | |
| | | Pay Samples | F01-000 | 81 H H B 81 B | 4 |
| WATER | les | saottuttisal | | | 8 |
| ANALYZED IN | Supplies | U. S. Government | | 8 - F 8 8 10 | 22 |
| ALYZ | Water | Second Samples | HH : : : : | 1 | 10 |
| 8 AN. | rivate | Collected by Em- ployees | ## | 10 0 2 10 H H | 53 |
| SAMPLES | = | Camp Samples | 00 · N | 26 | 78 |
| 84 | | Collected by Local Boards of Health | 812822 | 23 11 11 15 to | 278 |
| | 84 | Public Water Supplie | 278 284 281 114 114 115 | 200 275 275 360 860 875 | 3619 |
| | | MONTH | July 1934 July 1944 August September October November December | January 1935 February Murch Anril May June. | Totals |

Report of the Bureau of Child Hygiene

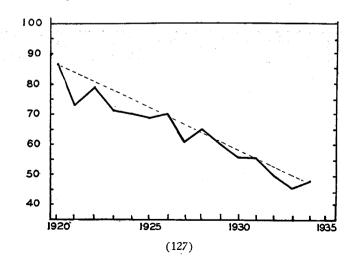
For the Calendar Year 1934

JULIUS LEVY, M. D., CONSULTANT

INFANT MORTALITY

The infant mortality rate for New Jersey for 1934 was 48 per 1,000 live births. This is two points higher than the rate for 1933, which was the lowest rate ever reported in the State of New Jersey and represented a decrease of 10 per cent over the year 1932.

The following chart shows the continual decrease in the infant mortality rate from 1920:



Practically all the reductions in the mortality of the first year have occurred in the period over one month; the mortality in the first days and weeks presenting very little variations over a period of some 15 years. The two point increase in the infant mortality rate for 1934 occurred during the first day of life.

The following chart indicates that half the deaths under one year occur in the first week of life:

| Rate | | 19 | 934 | | Rate |
|------|------------|-------------|------------|------------|------|
| 50— | First Year | • | | | 50 |
| _ | | | | | _ |
| 40 | | | | | 40 |
| | | | | | |
| 30— | | First Month | | | -30 |
| _ | | | First Week | • | |
| 20 | | | | | -20 |
| _ | | | E | First Day | _ |
| 10— | | | | | 10 |
| _ | No. Deaths | No. Deaths | No. Deaths | No. Deaths | |
| 0 | 2,686 | 1.634 | 1,347 | 795 | — 0 |

Of the 21 counties in the State 9 had infant mortality rates under 50, and 4 had infant mortality rates under 40.

Of the 10 larger cities, only 5 present an infant mortality rate over 50, while 3 have rates under 40.

The lowest infant mortality rate among cities with a population between 50,000 and 100,000 was found in Irvington with a rate of 26. Atlantic City presented the righest rate with 86.

HEALTH SUPERVISION

In spite of the economic depression, the Department has maintained and re-established health supervision of children in most of the communities in which it had been previously established.

At the present time, 441 communities are carrying on the State Child Hygiene Program under the supervision of this Bureau. There are 148 field nurses of whom 118 are entirely paid by the communities in which they work; 20 partly paid and only 10 entirely paid by the State Department of Health. The State re-

assumed whole or parts of the salaries of six nurses. The communities reassumed the salaries of four of these within six months. Fifteen communities in some six different counties assumed part of the salary of the nurses working in their communities.

The Child Hygiene nurses have continued to supervise the expectant mother, baby, preschool and school child in a given community. Where the continuous program has been maintained for a number of years, school authorities are realizing that children are coming to school in better physical condition, free from many of the defects that formerly interfered with proper school progress.

Through co-operation with the Emergency Relief Administration, a high degree of healthfulness and nutrition has been maintained among the supervised children. In a recent study of the weights of children, it was found that there had been no increase in the number of children under average weight.

PARENT-CHILD RELATIONSHIP COURSES

The Child Hygiene nurse, through her regular visits to expectant mothers, new-born infants and preschool children, has an opportunity to make clear to parents the importance of their attitudes on the future emotional make-up of the child.

During 1934, courses were arranged for both the nurses and district supervisors in Parent-Child Relationships. All the supervisors and some 75 of the Child Hygiene nurses enrolled for these courses given through Dana College of Newark.

STATISTICAL SUMMARY

One hundred and forty-eight Child Hygiene nurses, supervised by the State Department of Health, had under their supervision 6,821 expectant mothers, 20,057 babies, 39,338 preschool children and 122,069 school children.

118 of these nurses were paid by the communities

20 were paid partly by the communities and partly by the State

10 were paid entirely by the State.

These nurses covered 441 communities and conducted 146 baby-keep-well stations weekly.

| Visits made in the homes by the nurses | 304,594 |
|---|---------|
| To expectant mothers | |
| To babies | |
| To children of preschool age | |
| To school children | |
| · | |
| Visits to Baby-Keep-Well Stations | 97,471 |
| By babies | |
| By preschool children | |
| Prenatal advice (expectant mothers) | |
| Supervised prenatal cases | 6,821 |
| Address changed before delivery | |
| Pregnancies ended | |
| | |
| Infant Care— | |
| Babies supervised | 20,057 |
| New cases 10,646 | |
| Preschool Care— | |
| Children supervised (ages 1 to 6) | 39,338 |
| New cases | |
| Illnesses and defects (not including school child)— | |
| Detected | 7,037 |
| Corrected | 5.097 |
| Contagious diseases—suspected cases discovered | 1.887 |
| Unsanitary conditions discovered | 554 |
| Eye smears taken | 26 |
| Suspected tuberculosis cases referred | 509 |
| Children under six years of age vaccinated | 1,011 |
| Children under six years of age receiving Toxoid | 3.842 |
| Little Mother Leagues conducted | 44 |
| Unreported births discovered | 4 |
| omeported birdis discovered | |
| School Children supervised | 122,069 |
| Inspections (annual, general, classroom or assisting Dr.) | 975,768 |
| Defects detected | |
| Defects corrected | |
| Illnesses detected | |
| Pupils excluded by principal | |
| School children receiving Toxoid | 3,370 |
| Nose and throat cultures taken | 46 |
| | |

During the year, 15 communities assumed part of the salaries of the nurses. The salaries of four nurses, that had been assumed by the State due to financial conditions in their communities. were reassumed by the communities in which they worked.

EXTENSION

During the year 1934, 8 requests were received by the Bureau of Child Hygiene to place the Continuous Child Hygiene Program in the districts. These requests were made with the understanding that after a demonstration of one year was given, the salary would be assumed by the local boards of health and education at the end of the year.

As our funds permitted, we placed 8 nurses in the following districts:

| Community | County |
|---------------------------|-----------|
| Lower Penns Neck Township | Salem |
| Clinton | Hunterdon |
| Hamilton Township | Mercer |
| Ewing Township | Mercer |
| South Amboy (2 nurses) | Middlesex |
| odi Township | Bergen |
| Vest Milford Township | Passair |

RETENTION

Due to the depression, many communities were unable to collect taxes owed them and therefore were unable to meet obligations assumed by them. In spite of this condition, however, 20 new communities contributed \$6,055 and 200 municipalities and townships continued to contribute over \$205,000.

To accomplish this, visits were made to the president and clerk of the boards of education and to the chairman of the Township Committees or the presidents of the Board of Health. The work of the nurse was explained to them and the amount of appropriations necessary to continue her services discussed. In each instance, the boards expressed their willingness to carry on, if it would be at all possible.

The Parent-Teacher Associations or other interested service organizations were visited, and committees were appointed by these organizations and resolutions adopted recommending that the nurse's salary be assumed.

The following communities placed in their budgets amounts toward the salaries of the nurses. These appropriations were shared jointly by the boards of health and education.

| Community | County |
|---------------------|-----------|
| Estel Manor | Atlantic |
| Berlin | Camden |
| Vineland | Cumberlan |
| Landis Township | Cumberlan |
| Mine Hill Township | Morris |
| Haledon | Passaic |
| Carneys Point | Salem |
| Penns Grove | Salem |
| Stanhope | Sussex |
| Hopatcong Borough | Sussex |
| Byran Township | Sussex |
| Stillwater Township | Sussex |
| Fredon Township | Sussex |
| Andover Township | Sussex |
| Hamburg Borough | Sussex |
| Wantage Township | Sussex |
| Frankford | Sussex |
| Branchville | Sussex |
| Lafayette | |
| Sussex | Sussex |

MIDWIFERY

During the year 1934 there were 414 licensed registered midwives in the State of New Jersey. Three hundred and sixty-four of these were supervised by the State Department of Health, 42 were under local supervision in Jersey City and 8 were from out of State. This was a decrease of 19 midwives as compared with last year.

Of the 364 licensed supervised midwives, 142 midwives each delivered more than 12 cases a year; 162 delivered less than 12 cases a year and 60 did not deliver any during the year. This shows a decrease both in the number of midwives and the number of cases delivered by them.

Unlicensed Midwives

In 1934 there were no unlicensed active midwives. The practice of investigating all cases delivered by other than physicians or licensed midwives was continued and no evidence was found to prove that any unlicensed midwives were practicing.

Number of Cases Delivered by Midwives

The total births in 1933 was 56,072; in 1934, 54,841 giving a decrease of 1,231. The total births delivered by midwives in 1933 was 5,135 or 9.1 whereas in 1934 they delivered 4,372 or 8 per cent of the total births.

In some communities midwives delivered a considerable percentage of the total births; for instance:

| Carteret | 47.3 | South River | 38.1 |
|----------|------|-------------|------|
| Garfield | 31.6 | Perth Amboy | 39.3 |

While this was from 8 to 10 per cent decrease in three communities in comparison with last year, there was 2.3 increase in Perth Amboy.

The following, giving total births and those delivered by midwives shows the trend for the past 15 years, since the organization of the Bureau:

| Year | Total Births | Births Delivered by Midwives | Percentage of Births Delivered by Midwives |
|------|-----------------|------------------------------------|---|
| 1918 | 70,935 | 30,000 | 42.2 |
| 1923 | 76,530 | 17,645 | 23. |
| 1928 | 68,297 | 11,352 | 16.6 |
| 1933 | 56,072 | 5,135 | 9.1 |
| 1934 | 54,841 | 4,372 | 8. |

Following shows counties where midwives delivered more than 10 per cent of the births for 1934:

| County | Total Births | Births Delivered by Midwives | Percentage of Births Delivered by Midwives |
|-----------|-----------------|------------------------------------|---|
| Union | 4,274 | 533 | 12.4 |
| Passaic | 4,011 | 509 | 12.7 |
| Somerset | 944 | 201 | 21.3 |
| Middlesex | 2,873 | 639 | 22.2 |

This showed a decrease of about 2 per cent in each instance. Following shows cities where midwives delivered at least 10 per cent of the births in 1934:

| City | Total Births | Births Delivered by Midwives | Percentage of Births Delivered by Midwives |
|----------------|-----------------|------------------------------------|---|
| Camden | 1,775 | 190 | 10.5 |
| Newark | 6,186 | 616 | 10. |
| West New York | 482 | 49 | 10.1 |
| Belleville | 404 | 44 | 10.9 |
| Clifton | 632 | 83 | 13.1 |
| Bayonne | 1,102 | 174 | 15.8 |
| Passaic | 738 | 99 | 13.4 |
| Long Branch | 257 | 42 | 16.3 |
| Paterson | 1,834 | 280 | 15.2 |
| Linden | 364 | 65 | 17.9 |
| Cliffside Park | 217 | 31 | 14.2 |
| Hoboken | 624 | 114 | 18.2 |
| Lodi | 179 | 38 | 21.2 |
| Elizabeth | 1,502 | 395 | 26.3 |
| Perth Amboy | 516 | 203 | 39.3 |
| Garfield | 446 | 141 | 31.6 |
| South River | 144 | 55 | 38.1 |
| Carteret | 186 | 88 | 47.3 |

The number of cities remained the same as last year. However the number of cases delivered by midwives dropped from 1 to 10 per cent.

Supervision

During the year the nine midwives' county associations continued to hold interesting meetings. There were 85 meetings with an attendance of 1,327. This is a decrease in both the number of meetings and attendance as compared with last year, which was

largely due to the fact that in two communities where there are small groups of midwives, it was considered advisable to hold meetings every other month instead of every month. In addition, the 11th Annual Conference was held in Newark. It was an afternoon session and the attendance was about 175. The Annual Conference in 1933 was held in two sections of the State and was attended by about 225.

As subjects for lectures and discussion, arrangements were made with local obstetricians to give continuous series of lectures to cover "Newer Concepts in Obstetrics." This proved very satisfactory and helpful to the midwives.

Because of decreased activities among midwives, it was found advisable not to replace a district supervisor who resigned. The work of one district was divided and added to the work of district supervisors who were in charge of nearby districts. The supervisors attended 38 deliveries and early postpartum cases with midwives. There was a slight decrease in these activities because of the change in supervisors.

PRENATAL CASES

The number of prenatal cases reported by midwives remained about the same as last year. Midwives under supervision of the Department of Health referred 2,090 or about 48 per cent of the total cases delivered by them for prenatal follow-up.

ABNORMAL CASES

The supervised midwives reported 331 or 7.5 of the total cases delivered by them as abnormal. Of these in 287 instances doctors were called in; in 21 instances patients were sent to the hospitals and in 23 instances no doctor was called; thus, in 93 per cent of the abnormal cases reported by them, the patients were attended by doctors. The 23 cases where no doctors were called represent baby with six toes, twins, lacerations, illegitimate birth and difficulty in nursing. This record shows a slight improvement over last year. While midwives actually delivered fewer cases, the percentage of cases where doctors were called in was slightly

BUREAU OF CHILD HYGIENE

increased. This seems gratifying because there have been difficulties in persuading people who have been on relief or near relief to call in doctors.

MATERNAL MORTALITY

In 1934 the total number of maternal deaths was 292 whereas in 1933 it was 286, making an increase of 6 deaths. There is a decrease of 1,231 total births. After careful investigation, it was found that midwives were in attendance at some time during pregnancy, labor or lying-in on 12 of the maternal deaths. Thus, they attended 8 per cent of the total live births and 4.1 of the maternal deaths.

SPECIAL INVESTIGATIONS

Special investigations were made to determine whether or not midwives were responsible for the abnormal conditions in the following 26 cases:

| Puerperal death | 12 | Puerperal fever | 1 |
|-----------------|----|-----------------|---|
| Infant deaths | 7 | Stillbirth | 2 |
| Sensis | 1 | | |

CONGENITAL DEFORMITIES

During the year 1934 midwives reported nine cases of congenital deformities, immediately after the birth of the babies, to the State Crippled Children Commission. This is an increase in the number reported as compared with last year.

EMERGENCY RELIEF

Emergency relief arrangements made through the co-operation of the State Emergency Relief Administration whereby midwives were allowed to deliver their former patients for a fee of \$10 per case was continued during the year 1934. This has been a great help to many midwives.

PROSECUTIONS

During the year 1934, the State Board of Medical Examiners revoked the license of one midwife. This was done upon a conviction in the local court on a charge of criminal abortion. This is a decided improvement as there were five cases referred and acted upon by the State Board of Medical Examiners last year.

MATERNITY HOMES

There were 28 applicants for license to conduct maternity homes in 1934.

| Number of new maternity homes licensed | 4 |
|--|----|
| Number of maternity homes relicensed | 24 |

There were no homes rejected during the year. Three homes licensed during 1933 were discontinued. In 24 instances the number of patients cared for in maternity homes range from one to four patients at a time. In four other instances the number of patients cared for at one time range from five to fifteen. The number of homes licensed during 1934 was the same as during the year 1933.

Licensed maternity homes were conducted as follows:

| By graduate nurses | 7 |
|----------------------------------|----|
| By practical nurses | 18 |
| By licensed, supervised midwives | .3 |

In considering the number of cases cared for in maternity homes during the year 1934 we found the following:

Total number of cases delivered, 352.

| Number | maternal deaths | 0 |
|--------|-----------------|---|
| Number | infant deaths | 5 |
| Number | stillbirths | 4 |

Regular inspections were made of all maternity homes and each abnormal case was carefully investigated.

Report of the Bureau of Venereal Disease Control

For the Year Ending June 30, 1935

ARTHUR JAY CASSELMAN, M.D., DR. P. H., CONSULTANT

The past year has been remarkable chiefly for the continuing growth of the venereal disease control program. One does not gasp at seeing the word "syphilis" appear in the newspaper instead of the one-time common "a blood disease." Nowhere is this change more apparent than in the reception given to venereal disease addresses. The higher the type of audience, the more attentive it is.

All evidence points to syphilis as being the next disease to be brought into extreme prominence and made the center of a frontal attack by public health forces. New York is taking the lead and has prepared a comprehensive program of attack, made possible by an extraordinary appropriation of \$120,000, in addition to the regular yearly one for the maintenance and operation of the Division of Social Hygiene in the New York State Department of Health. If nothing else is accomplished except to make the mention of gonorrhea and syphilis respectable, it will be well worth the money, but more than this will inevitably be accomplished. It will be realized that moral degradation does not necessarily accompany gonorrhea and syphilis; that the innocent victim of congenital syphilis should not be stigmatized for something that he could not possibly have prevented; that the syphilitic mother, source of the child born with syphilis, is only too often the victim of misplaced confidence in a husband; that along with these instances are the so-called accidental infections that are not venereal in their origins.

Cases of congenital syphilis should not exist. Medical science is ready to do its part and is prepared to save the child of a

pregnant, infected mother from syphilis, only however, if treatment be taken early in pregnancy and followed continuously until the birth of the child. Then the child will be born free from syphilis, and free from the handicaps that hitherto would have held it down. The gospel must be preached early and often that the pregnant mother must undergo an examination, which includes a routine Wassermann, in the first few months of pregnancy. A routine Wassermann on all women of child bearing age would disclose the presence of syphilis in many cases hitherto unknown; necessary treatment would cut all congenital syphilis and reduce the incidence of tertiary syphilis; and even some months after a syphilitic pregnancy has begun thorough treatment during the rest of the pregnancy will assure the birth of a non-syphilitic child.

New Jersey and New York have stood shoulder to shoulder in the valuable preventive work that is accomplished in educational measures. Adequate appropriations for the control of gonorrhea and syphilis should be forthcoming to enable New Jersey to keep step with New York in the successful prosecution of the treatment aspects of the venereal diseases.

New York will have a year's start of New Jersey, which may not be to our disadvantage, for we can take advantage of any shortcomings in New York's program and avoid them in formulating our own for mass control. Fifty thousand dollars should be made available for the work of the Bureau for the fiscal year ending 1937, in addition to the customary annual appropriation.

STATISTICS

The usual caution is given as to the difficulty of interpreting venereal disease statistics by any hard and fast rule. The customary report is made of the work in the Bureau that is susceptible of tabulation.

CASES REPORTED

Number of cases of venereal disease reported to the State Department of Health, for the twelve months ending June 30, 1932, 1933, 1934 and 1935:

| | 1932 | 1933 | 1934 | 1935 |
|-----------|--------|--------|--------|--------|
| Chancroid | 54 | 39 | 79 | 58 |
| Gonorrhea | 4,088 | 3,734 | 3,272 | 3,321 |
| Syphilis | 7,911 | 7,007 | 7,125 | 7,074 |
| | | 40.500 | 40.454 | 40.450 |
| Total | 12,053 | 10,780 | 10,476 | 10,453 |

The table below gives the reported cases in New Jersey by county, disease and sex for the calendar year of 1934, together with the yearly rate per thousand:

| | Gono | rrhea | Sy_i | bhilis | Chan | croid | | Popu- | Rate |
|------------|-------|-------|--------|--------|------|-------|--------|-----------|--------|
| County | M | F | M | F | M | F | Total | lation | Per M |
| Atlantic | 254 | . 22 | 233 | 245 | 6 | 4 | 764 | 131,800 | 5.797 |
| Bergen | 108 | 45 | 162 | 150 | 6 | 0 | 471 | 391,400 | 1.203 |
| Burlington | 59 | 26 | 52 | 54 | 3 | 0 | 194 | 95,600 | 2.029 |
| Camden | 204 | 55 | 266 | 214 | 4 | 0 | 743 | 262,900 | 2.826 |
| Cape May | 33 | . 1 | 19 | 12 | 0 | 0 | 65 | 31,200 | 2.083 |
| Cumberland | 68 | 12 | 41 | 47 | 3 | 0 | 171 | 71,400 | 2.395 |
| Essex | 1,045 | 217 | 1,385 | 1,863 | 24 | 4 | 4,538 | 864,500 | 5.249 |
| Gloucester | 22 | 3 | 32 | 19 | 0 | 0 | 76 | 74,700 | 1.017 |
| Hudson | 57 | 7 | 66 | 47 | 1 | 0: | 178 | 701,321 | .254 |
| Hunterdon | 12 | 6 | 7 | 34 | 1 | 0 | 60 | 35,000 | 1.714 |
| Mercer | 202 | 34 | 243 | 159 | 5 | 0 | 643 | 191,800 | 3.352 |
| Middlesex | 103 | 25 | 125 | 83 | 5 | 0 | 341 | 220,700 | 1.545 |
| Monmouth | 69 | 11 | 154 | 160 | 0 | 0 | 394 | 154,400 | 2.552 |
| Morris | 42 | 16 | 64 | 73 | 3 | 0 | 198 | 115,200 | 1.719 |
| Ocean | 21 - | 3 | 27 | 16 | . 1 | 1 . | 69 | 34,900 | -1.971 |
| Passaic | 154 | 48 | 147 | 100 | 1 | . 1 | 451 | 309,459 | 1.457 |
| Salem | 34 | 10 | 148 | 67 | . 2 | 0 | 261 | 36,900 | 7.073 |
| Somerset | 30 | 4 | 26 | 23 | 0. | . 0 | 83 | 68,100 | 1.219 |
| Sussex | 13 | 2 | 3 | 0 | - 0 | 0 | 18 | 28,300 | .636 |
| Union | 102 | 34 | 169 | 88 | 0 | 0 | 393 | 323,206 | 1.216 |
| Warren | 13 | 1 | 8 | 6 | 0 | 0 | 28 | 50,000 | .56 |
| Total | 2,645 | 582 | 3,377 | 3,460 | 65 | 10 | 10,139 | 4.192,786 | 2.418 |

This report shows a decrease of 21 cases of chancroid and 51 cases of syphilis, as well as an increase of 49 cases of gonorrhea as compared with the preceding fiscal year. Altogether there is a net decrease of 23 cases reported for the past fiscal year. It is also to be noted that the gonorrhea is 31.2 per cent of the whole, and syphilis 67.8 per cent of the whole number, the proportion being practically the same as for the preceding year.

| | 1932 | 1933 | 1934 | 1935 |
|----------|-------|----------------|----------------|----------------|
| Syphilis | | 4,810 2,638 | 4,663 2,381 | 4,516 2,445 |
| Total | 6,782 | 7,448 | 7,044 | 6,961 |

The proportion of the clinic patients to private patients has been practically the same for the past three years. For the fiscal year ending 1933 the clinic patients were 67 per cent; for the fiscal year 1934, 678 out of every thousand patients attended the clinics; and for the fiscal year just ended the clinic patients were 68 per cent. It would seem strange that the clinic patients should not have increased more rapidly with the continuation of the emergency. The explanation lies probably in the fact that many so-called private patients are indigent and are living so remote from clinics or co-operating physicians that it is a matter of economy to have them treated at public expense by private physicians.

ANALYSIS OF SOURCES OF INFECTION

The following table classifies the sources of infection that were reported to the State Department of Health for the fiscal years ending June 30, 1933, 1934 and 1935:

| | 1933 | 1934 | 1935 |
|---------------------------------------|------|------|------|
| Professional prostitutes and brothels | 22 | 35 | 37 |
| Clandestine prostitutes | 222 | 245 | 226 |
| Husband or wife | 170 | 207 | 197 |
| Congenital | 376 | 344 | 311 |
| Miscellaneous | 7 | 5 | |
| Total | 797 | 836 | 771 |

It will be observed that as usual the congenital cases constitute the most numerous of those whose source of infection is given. In like manner the professional prostitute is the least. However, as the source is given in such a small number of the cases no conclusions can be drawn that would be applicable to the whole number.

ACTION TAKEN ON SUSPECTED SOURCES OF INFECTION

During the past fiscal year 218 cases of persons reported as being the probable sources of infection have been referred to local health executives for investigation. This is a little less than the preceding year.

| | 1933 | 1934 | 1933 |
|---|------|------|------|
| Under supervised medical treatment | 59 | 59 | 56 |
| Unable to locate the person named | 42 | 51 | 70 |
| Examined but found presumably non-infectious | 34 | 48 | 3. |
| Other acceptable disposition (agreed to take treatment, etc.) | 23 | 21 | 25 |
| Disposition unknown, or unsatisfactory (evaded supervision | | | |
| by moving, etc.) | 3 | 7 | 1 |
| Referred to health officials in other States | 25 | 24 | 20 |
| Handled by police authorities | 3 | 3 | 5 |
| No response from local health authorities | 16 | 13 | 9 |
| | | | |
| Total | 205 | 226 | 218 |

The analysis of the foregoing indicates that the number put under supervised medical treatment remains about the same, while the number of sources that could not be located has increased. However, when one realizes that ordinarily the sources of infection come from the lower types of society, in many instances are itinerants and are only too frequently street pick-ups, it is surprising that so few are not located. We have excellent co-operation from health officials in other States, and it is gratifying to state that New Jersey reciprocates in turn by ferreting out sources of infection that have come from other States.

Besides the sources of infection referred to above, it has been necessary to take up with local health officers 26 cases for different reasons. Patients delinquent in taking treatment were reported direct to us in 28 cases and referred to local health executives in accordance with the law. No return as to the success of the local health officer in rounding up the patient is required by law.

CLINICS

During the past fiscal year a clinic was established at the Municipal Building in Bloomfield under the auspices of the local board of health. It is for syphilis only and is under the direction of Dr. Dunn. There are now 36 clinics in New Jersey.

DRUGS AND TREATMENT

The past year the care of the syphilitic patient on relief has been a problem that has worried both relief officials and health officials. Early in the "emergency" the relief authorities refused to pay for medical treatment of syphilitic patients on relief, claiming that this was a problem for local boards of health. It is true that the statutes make such boards financially responsible in cases of indigent infectious patients, but the law does not apply when a patient is no longer infectious. Nevertheless the relief authorities declined to pay for treatment of syphilis. The reason for this was not understandable, unless it was the old idea that syphilis was not a "nice" disease. It was out of the question for the Bureau of Venereal Disease Control to provide for medical treatment. It did, however, agree to supply drugs when the physicians certified that patients were indigent and infectious and would be treated for a minimum fee. The pressure for treatment of syphilitic patients became so great, however, that medical attention was provided in some cities by making a different diagnosis to comply with E. R. A. regulations and incidentally treating syphilis.

The Relief Commission is certainly impressed with the need of the treatment given but is staggered at the magnitude. It is hoping to find some way in which there can be an equitable arrangement made and have the indigent syphilitic properly cared for. At the present writing the whole matter is under study by the medical officers connected with the Relief Commission. In the meantime it is felt wise to continue the following policy of the Bureau of Venereal Disease Control in the free distribution of anti-syphilitic drugs to private physicians:

A. If when reporting a case of venereal disease the physician gives on the report blank the name and address of the probable source of infection.

B. If with the report card he sends a statement to the effect that the patient is infectious and indigent, and that the physician is not receiving for his services more than \$2.00 per week or more than \$2.00 per visit, payment of which is arranged for with the physician.

There may be impositions practiced by some physicians in certifying patients as infectious who strictly speaking are not so, but

even so, treatment is indicated as tending to prevent their becoming public charges. Neoarsphenamine and bismuth subsalicylate and the iodides continue to be the standbys for the treatment of syphilis.

Two hundred seventy-four physicians were furnished neoarsphenamine and subsalicylate of bismuth gratis for having reported the name and address of the probable source of infection and 540 qualified for an equal amount of free drugs for treatment of indigent infectious cases.

CONFERENCE OF CLINIC WORKERS

A Conference of Venereal Disease Clinic Workers was held on November 2, 1934, at the Board of Health Building, East Orange. More than 75 persons attended. In addition to 25 physicians active in the clinics in the northern part of the State, there were present nurses, social workers, and health officers.

The morning session was devoted to a discussion of medical problems in the treatment of venereal diseases. Much interest was shown in the ovarian hormone treatment of gonorrheal vaginitis. Although there is dissatisfaction with local treatment, it was the consensus of opinion that until more experimental work has been undertaken, and sufficient time has elapsed to make sure that no injurious effects develop at puberty, caution must be observed in substituting theelin for local treatment.

The Bureau during the past year has supplied several amounts of amniotin for trial. Although more than half of the cases responded, the Bureau has too limited an appropriation to furnish this costly medication generally. Nor does it seem advisable at this experimental stage.

At the afternoon session the management of venereal disease clinics was discussed from the viewpoint of those responsible for investigating sources of infection and contacts, and keeping the patients under treatment until non-infectious.

SOCIAL WORKERS

The Bureau, following the custom of the past four years and acting as an associate group of the New Jersey Conference of Social Work, held a luncheon meeting at the annual conference of the latter organization at Asbury Park December 7, 1934. About 70 persons attended. The Consultant of the Bureau spoke on the subject "When Is a Person with a Venereal Disease Dangerous?" He gave the following minimum standard of infectiousness as an approximate working basis for health officers, public health nurses and social workers:

Syphilis: Until six months of intensive treatment (at least eight injections of neorsphenamine and eight injections of bismuth) has been given, or until the patient has had the disease five years.

Gonorrhea in Men: Until six months of freedom from discharge and laboratory evidence of disease.

Gonorrhea in Women: Until three months of freedom from discharge and other symptoms, and laboratory evidence.

Gonorrhea in Children: Until one month's freedom from discharge and other symptoms, and laboratory evidence of disease.

ROUTINE WASSERMANNS IN HOSPITALS

For several years the Bureau has advocated Wassermann tests for all patients admitted to hospitals. Many have adopted the plan, at least for ward patients. At the West Jersey Homeopathic Hospital in Camden Wassermann tests have been a part of the hospital routine for seven years. A study was made at this hospital to determine how valuable the routine Wassermann test had been as a diagnostic measure. The study indicated that 6% of the adults admitted to the West Jersey Hospital over a period of seven years had positive Wassermanns. As might be expected the percentage of positive Wassermanns in the wards of the hospital was higher than that of the total hospital population, or about 8% as compared with 6% of the total.

At the Morristown Memorial Hospital, Morristown, 3,113 Wassermann tests have been made on hospital patients during the four years 1930-1933. Of this number 163, about 5%, were positive. At the Orange Memorial Hospital, Orange, routine Wassermann tests are made only on ward patients. In the past three years the positive reports have been about 4% of the total.

These studies showed the presence of syphilis in 4% of the white population and 30% among the negroes. The percentage of syphilis in private room patients was less than 2% and in ward patients over 8%, showing that syphilis is four times as common among the ward patients as among those in private rooms. Syphilis, therefore, being four times as common among the less informed, the less intelligent, the poorer, is an avoidable disease which can be prevented by educational measures.

The results of these Wassermann studies have been published in 1935 in the Journal of the New Jersey State Medical Society.

It is evident that many unsuspected cases of syphilis were discovered through this practice of making the Wassermann test a part of the hospital routine. Efforts will be made to further the practice during the coming year.

The clinic at the Orange Memorial Hospital, a joint project of the Oranges and Maplewood, is endeavoring to make its facilities useful to physicians in these communities. To encourage early diagnoses a microscope with darkfield equipment has been installed by the Bureau in this clinic. A demonstration was held June 27, attended by 20 practicing physicians. Any physician of these five municipalities has the privilege of bringing patients with primary lesions to the hospital for a darkfield examination.

C. C. C.

The activities of the Bureau in co-operation with the Federal Government in the protection of the C. C. C. enrollees at Camp Dix and the local camps throughout the State has continued for the past three years. During the year a representative of the Bureau has spoken to thirty-one groups at Camp Dix, or 45,500 in all, with an average attendance of a little over 1,100. Two talks have been given to each of the twenty-one local C. C. C. camps of the State, with a total attendance of 4,358. During the past year requests were made of the Bureau to include in the addresses the five Federal Transient Camps located at North Haledon, Clinton, Allaire, Oakland and Delaware Water Gap. These latter camps are made up of men from other States who have found themselves stranded without food or shelter in New

Jersey. Eighty-seven per cent of those young men addressed at Camp Dix and the other C. C. C. camps were New Jersey residents.

Aside from the talks given to these camps, a close co-operation has existed between the Bureau and the Federal officers in tracing infections that have been found in various camps. While this condition has been kept to a minimum, there has been an occasional report of enrollees who have been on two or three days' leave. In many instances the sources have been found and through the efforts of the local health officers have been placed under treatment. It has been the aim of the Bureau to keep the camp areas cleared of clandestine prostitutes who are known to be infected. Letters of commendation have been received by the Bureau for the work being done, and it is claimed that New Jersey has less venereal disease in the camps than any other State in the Union.

INVESTIGATIONAL

The investigations by the Bureau have increased from year to year and many requests have come in from local health officers for a representative to assist them in investigating the venereal disease conditions which have been found in many rural communities. This work is done more as an instructive measure to local health officers who find themselves in a position where practical experience is necessary. As a result of these investigations four prostitutes have been apprehended and sentenced to Clinton Reformatory for Women. In every instance evidence was at hand to satisfy the court that the woman was a decided menace to the community.

The county judges, prosecutors and other officials are at all times eager to co-operate in disposing of these prostitute cases, even to the extent of sitting in a special session, so those who have been apprehended may not remain overnight in the county jail but be taken to Clinton at once.

The idea of the Bureau is to handle one case for each local health officer and thus demonstrate how others may be cared for.

The Bureau has endeavored to hew close to the line and confine its activities strictly to the health angles. Repeated calls are made upon it to clean up sources of immorality, but unless the disease element has been involved the Bureau does not participate. Long experience helps in determining whether the case is one for the police officer or the health officer, or both. As soon as any health problem is solved the police are left in full charge. Nor is the State inclined to supersede the local health executive in any way.

Another activity taken up by the Bureau at this time is getting the canning factories to co-operate in having all of their employees examined for syphilis, and if found to be infected, then to undergo treatment. One plant employing nearly 500 people has completed their examination and those found to be infected are taking treatments regularly. Four hundred forty-seven of these employees were examined, of which number fifty-three were found to be positive. Forty-eight of this number continued their treatments and are considered safe to continue their employment.

EDUCATIONAL.

As heretofore the largest attendance has come from C. C. C. groups. In fact the lectures, it is thought, are responsible for the practical absence of venereal diseases, not only at Camp Dix but in the many branch camps in New Jersey. Sporadic cases of gonorrhea and syphilis do occur, but the men have been so thoroughly aroused to the dangers of venereal disease that they are more careful about exposing themselves and seek medical treatment at the earliest opportunity.

It has not been the policy of the Bureau of Venereal Disease Control to have meetings primarily for addresses on venereal diseases, but to have speakers appear on programs of organizations making a feature of a lecture of entertainment, etc. Rather than seek an audience it is better to send a speaker where the audience is already provided. It is always gratifying to find an organization with many units by whom lectures on venereal disease and sex education are appreciated at full value. Last season a lecture to a Woman's Republican Club opened a new door, for it was immediately followed by 25 more lectures to women's political clubs. A special drive will be made the coming season to bring our preventive work before permanent political clubs of both parties and both sexes.

MEETINGS HELD EACH MONTH, WITH THE TOTAL ATTENDANCE FOR THE MONTH, AND THE TYPE OF ATTENDANCE AT THE MEETINGS

| | | | | | | Women | | | | |
|-----------|------|----------|------|----------|-------|------------|-------|---------|-------|--------|
| | | n Only | Won | ien Only | | gether | | idents | Tot | |
| 1984-35 | No. | Attend- | No. | Attend- | | Attend- | | Attend- | | ttend- |
| | Meet | t. ance. | Meet | . ance. | Meet. | ance. | Meet. | ance. | Meet. | ance. |
| July | 14 | 6,418 | 2 | 200 | 2 | 18 | | | 18 | 6,636 |
| August | . 7 | 1,051 | | | | | | | 7 | 1,051 |
| September | . 5 | 330 | 5 | 145 | | | | | 10 | 475 |
| October | . 9 | 11,226 | 24 | 885 | 1 | 7 5 | 21 | 2,128 | 55 | 14,314 |
| November | . 4 | 1,010 | 29 | 1,113 | 11 | 1,095 | 6 | 561 | 50 | 3,779 |
| December | . 2 | 90 | 16 | 626 | 5 | 257 | 36 | 4,927 | 59 | 5,900 |
| January | . 8 | 1,310 | 20 | 844 | 8 | 645 | 3 | 765 | 39 | 3,564 |
| February | . 6 | 253 | 17 | 578 | 4 | 263 | 7 | 1,140 | 34 | , |
| March | . 14 | 1,543 | 17 | 795 | 6 | 484 | 4 | 415 | 41 | 3,237 |
| April | . 16 | 13,405 | 12 | 424 | 7 | 250 | 5 | 375 | 40 | 14,454 |
| May | . 10 | 3,146 | 20 | 770 | 3 | 530 | 3. | 440 | 36 | 4,886 |
| June | 14 | 475 | 5 | 170 | | •• | • • | • • | 19 | 645 |
| | | | | | _ | | | | | |
| Totals | 109 | 40,257 | 167 | 6,550 | 47 | 3,617 | 85 | 10,751 | 408 | 61,175 |

GROUPS ADDRESSED

During the fiscal year meetings have been held as follows:

| Name of Group | Number of Meetings | Attendance |
|--|-----------------------|------------|
| Parent-Teacher Associations | 103 | 5,783 |
| Children of high school age | | 10,651 |
| Nurses | | 2,236 |
| Civilian Conservation Corps | | 35,769 |
| Women's Political Clubs | | 990 |
| Kiwanis Clubs | | 418 |
| Junior Order United American Mechanics | | 798 |
| Rotary Clubs | | 356 |
| Men's Miscellaneous Organizations | | 551 |
| Women's Organizations | | 443 |
| Colored Groups | | 360 |
| Social Workers | . 4 | 230 |
| Independent Order of Odd Fellows | . 4 | 195 |
| Reformatory Inmates | _ | 1,750 |
| Lions Clubs | . 3 | 60 |
| Church Men's Clubs | . 2 | 80 |
| Film Exhibitions Only | . 2 | 130 |
| Public Health Course | | 18 |
| Men's Political Clubs | . 1 | 150 |
| Teachers | . 1 | 120 |
| Medical Society | . 1 | 37 |
| College Women | _ | 30 |
| Doctors | _ | 20 |
| Total | 408 | 61.175 |

Below is a recapitulation of the number of meetings, the total attendance and the pamphlets distributed for each year since 1920:

| | Number of | | Pamphlets |
|------|-----------|------------|-------------|
| • | Meetings | Attendance | Distributed |
| 1920 | . 376 | 72,192 | 353.873 |
| 1921 | . 255 | 28.912 | 84,389 |
| 1922 | . 232 | 28,111 | 120,032 |
| 1923 | . 229 | 30,058 | 65,668 |
| 1924 | . 300 | 41,629 | 49,560 |
| 1925 | . 334 | 39,415 | 45,000 |
| 1926 | . 357 | 38,923 | 50,000 |
| 1927 | . 307 | 35,095 | 89.354 |
| 1928 | . 308 | 28,624 | 38.146 |
| 1929 | . 285 | 28,151 | 30,589 |
| 1930 | 388 | 37,954 | 49,502 |
| 1931 | . 421 | 31,316 | 52,778 |
| 1932 | . 327 | 25,276 | 27,279 |
| 1933 | . 508 | 70,356 | 18,578 |
| 1934 | . 482 | 66,427 | 24,441 |
| 1935 | . 408 | 61,175 | 33,527 |
| | 5,517 | 663,514 | 1,132,716 |

Report of the Bureau of Public Health Education

For the Year Ending June 30, 1935

EDWIN C. LANIGAN, CHIEF

Public health education has taken the form of dissemination of information relating to public health, through the mediums of public consumption, including the newspapers, radio, circulars, magazines and the Public Health News, the latter the magazine of the Department of Health of the State of New Jersey.

It is estimated that when the Department daily or weekly releases news bulletins or informative material on health topics to the press, possibly a majority of the State's nearly four and a half million residents are contacted. Newspapers in New Jersey and in the metropolitan areas of New York City and Philadelphia are circularized regularly with bulletins of advice issued by the Department. Material originating in the Department pertaining to health matters found a response in the news and editorial departments of the press of the State.

Appreciation is due the publishers of the magazine of the New Jersey League of Municipalities for the columns devoted to presentation of special articles pertaining to the promotion of the public health.

Co-operation of the Department with the New Jersey Tuberculosis League, Inc., in devoting the December, 1934, issue of the Public Health News to the campaign to arrest tuberculosis, brought commendation from the League's executive authorities. New Jersey's mental problems, discussed in the April, 1935, issue of The News, won the approbation of Dr. William J. Ellis, State Commissioner of Institutions and Agencies. The Food and Drug Administration, United States Department of Agriculture, and Dr. H. S. Cumming, Surgeon General of the U. S. Public Health

Service, have expressed appreciation of the Department's cooperation in presenting to the public of New Jersey questions in which the Federal authorities were interested.

The Public Health News, of which six thousand copies are published monthly, is forwarded to the physicians of New Jersey, nurses, State, county and municipal health officials, school teachers and residents, upon application to the Department. It affords a medium for direct contact with those most directly connected with the public health organization. The Princeton Survey of the State Government two years ago commented that the News "was an inexpensive and efficient means of informing all local health officials and physicians throughout the State in regard to current health problems, as well as the latest methods of attacking them."

Probably in no sphere of public health work are the opportunities for effective service greater than in the field of preventive medicine and health education. Governmental economists, appreciating the mounting costs of institutional care, visualize the possibilities of a citzenry fortified against disease by the dissemination of information which may possibly arrest or correct those ailments which eventually result in custodial care.

More general health education has been championed by recognized authorities of New Jersey, who insist there should be a more determined attack upon diseases, insanitation and unwholesome social conditions, with the invoking of aggressive preventative measures to the greatest extent to reduce custodial care and costs alike.

Particularly, the Department conducted a publicity campaign to enlighten sentiment to secure repeal of Chapter 50 of the Laws of 1933. This statute is a concession to financially embarrassed municipalities, unable to carry out orders for sanitation improvements, and who seek court aid to circumvent orders of the State Department of Health. The proposed repealer was not acted upon by the 1935 Legislature. State pensions for indigent typhoid fever carriers was repeatedly advocated but also failed of legislative enactment. A bill to extend State supervision over public bathing places, indoor and outdoor, was also sponsored by the Department, but failed of adoption.

Efficacy of the constantly expanding public health services is again emphasized by the announcement that New Jersey in 1934 had but 56 deaths from diphtheria. The Department through the Public Health Hour, in co-operation with the Medical Society of New Jersey, distributed serums to arrest diphtheria and smallpox, to physicians who administered the injections in the first year of the operation of the plan to nearly twenty thousand children. Though the scourge has not been entirely vanquished, the extent to which diphtheria has been brought under control is forcefully established by comparison with conditions a generation ago. In 1890 deaths attributed to the disease numbered 110 per 100,000 population, a rate which, it continued, would have carried off 4,840 residents of New Jersey last year. Similar gains have been registered in the warfare on smallpox and other communicable diseases—a field in which public health authorities are particularly at home.

Visualizing the modern health official as more the leader, and less the sanitary policeman, the Department has pointed out that recent health practice imposes popular education as an additional obligation of health officials. Forty years ago the accepted work of a board of health consisted principally of nuisance abatements, disease quarantine, disposal of wastes, and inspection of wells. All this work might properly be undertaken by an intelligent, conscientious, though not necessarily trained health official. But public health practice changed early in the twentieth century, when it was realized that each disease and unhygienic condition had a specific cause which could not be prevented by "shotgun" methods. It became necessary for the health officer to know bacteriology, epidemiology, sanitary science, and statistical methods if he hoped to carry out effective preventive measures.

Recent health practice imposes an additional obligation on the health officials, namely, popular education in health. He must teach people to avoid insanitary environment, to protect themselves against certain diseases, avoid or remedy physical defects. and to keep fit through diet, rest, and exercise.

He needs training not only to give him the knowledge necessary for his larger responsibilities, but the inspiration to put the new health projects into practice in spite of public apathy.

INFANTILE PARALYSIS

An invitation to co-operate in testing the new vaccine for infantile paralysis made by grinding the spinal columns of monkeys that had recovered from the disease was extended to the Department by Dr. Maurice Brody, an attache of the New York City Health Department's laboratories. Dr. Brody, assistant professor of bacteriology at New York University, told the twenty-fifth annual conference of New Jersey Health Officers that old-fashioned serums for infantile paralysis had been deemed failures by most researchers, and hope was being pinned upon the new vaccine, first tried upon human beings last July.

Since 1910 victims of infantile paralysis have been administered serums made from the blood of recovered victims. Dr. Brody observed, however, these had been proven of doubtful value since the virus of infantile paralysis has been discovered to travel through a victim's body through the nerve tracts rather than the blood stream. He expressed belief most of the "cures" heretofore thought effected by serum were merely the result of natural immunity.

Bulletins have been issued warning of the dangers incident to use of antifat drugs containing dinitrophenol. Use of single service containers for beverages to avoid communicable diseases was stressed. Other topics discussed by the Bureau:

Advising on conditions of bathing beaches, recommending pasteurization of milk, inoculation for immunity to typhoid fever for travelers, support of the Tristate Anti-Pollution Commission for improvement of New York Harbor and coastal waters, code of ethical conduct for health employees, penalties for violating pure food and drug statutes, arrest of septic sore throat outbreak, fifty per cent reduction in infant mortality in ten years, licensed operators for sewage and water plants, child health day activities and New Jersey milkshed as within forty miles of border lines.

Report of the Bureau of Vital Statistics

For the Calendar Year 1934

DAVID S. SOUTH, STATE REGISTRAR

The Bureau, which was established in 1878, has the custody of more than seven million records of births, marriages and deaths which date back to 1848. During 1934 more than 13,000 searches were made and copies of the records found issued, for which \$7,413.00 were received and paid to the State Treasurer. Approximately 5,000 of the copies were issued to widows, veterans and veterans' organizations for compensation and other pension purposes; for children to enter school or procure employment; for enlistment in the Army or Navy of the United States and for old age pension, for all of which purpose no charge is made.

The registration of births, marriages and deaths was supervised in each city, borough and township of the State. Blanks for birth, marriage and death certificates, burial and transit permits and other forms were supplied by the Bureau as required by law.

During the year 1934 the Bureau received, examined, classified, indexed and permanently filed more than 135,000 certificates of birth, marriage and death, part of which records were for unreported events which occurred in past years. The annual growth of the records requires approximately two hundred cubic feet of storage space.

Two laws pertaining to birth certificates of illegitimate children which were found to work unsatisfactorily were repealed and a new law enacted by the Legislature instead. An act was also put upon the statute books which makes it possible to issue, to adopted children, birth certificates for certain purposes showing

the child's name and parents' names by adoption. The acts, which are permissive, will undoubtedly save many children from a great amount of unhappiness

The Bureau compiled an increased amount of special statistical data, for the use of insurance companies, chambers of commerce, students, statisticians and agencies interested in disease and accident prevention.

GENERAL SUMMARY

| | 1920 | 1930 | 1934 |
|--|---------|---------|---------|
| Birth registered, tabulated and indexed | 76,431 | 68,282 | 54,841 |
| Marriages registered, tabulated and indexed | 31,327 | 28,499 | 28,991 |
| Deaths registered, tabulated and indexed | 40.820 | 43,190 | 43,547 |
| Stillbirths registered, tabulated and indexed | 3,221 | 2,647 | 2,026 |
| | | | |
| Total records registered, tabulated and permanently filed | 151,799 | 142,618 | 129,405 |
| Searches made and certified copies issued for which fees were received | 4,664 | 10,523 | 8,294 |
| Certified copies issued and searches made in pension and other cases for which no fees were received | 4,232 | 6,938 | 5,194 |
| Fees returned to State Treasurer for searches and certified copies | \$4,051 | \$9,601 | \$7,413 |

CHARTS AND TABLES, 1934

- Table 1. Births, marriages and deaths reported, with rates, 1879-1934.
- Table 1a. Births, marriages and deaths by months.
- Table 1b. Births, marriages and deaths and deaths under one year of age by counties, cities, boroughs and townships.
- Table 2. Deaths by age groups, with the percentage which each group forms of total deaths: 1934.
- Chart 1. Total deaths per 1,000 population for 56 years.
- Table 3. Deaths of infants under five years of age and percentage of total deaths, 1904-1934.
- Chart 2. Deaths under five years of age per 10,000 population for 56 years.
- Table 4. Number of births, stillbirths, deaths under one month, deaths under one year and maternal deaths with rates per 1,000 live births, 1906-1934.
- Table 5. Deaths under one year, deaths under one month, stillbirths and maternal deaths per 1,000 live births, by counties.

- Table 6. Deaths under one year, deaths under one month, stillbirths and maternal deaths per 1.000 live births in the ten largest cities of New Jersey.
- Table 7. Births, birth rates, deaths under one year and infant mortality rates, by counties.
- Chart 3. Deaths from typhoid fever per 10.000 population for 56 years.
- Table 8. Comparison between typhoid fever death rates in New Jersey and the United States Registration Area, 1923-1933.
- Table 9. Typhoid fever in urban and rural districts.
- Table 10. Typhoid fever rates in the counties of New Jersey, 1925. 1934.
- Chart 4. Deaths from scarlet fever per 10,000 population for 56 years.
- Chart 5. Deaths from diphtheria per 10,000 population for 56 years.
- Table 11. Average annual death rates from all causes and from tuberculosis of lungs, per 10,000 inhabitants, by counties for 56 years, with rates for 1934.
- Chart 6. Deaths from tuberculosis of lungs per 10,000 population for 56 years.
- Table 12. Cancer and other malignant tumors by sex, age periods and organs affected.
- Chart 7. Deaths from cancer and other malignant tumors, per 10,000 population for 56 years.
- Table 13. Suicide by sex, age periods and means employed.
- Table 14. Percentage of the various causes of total deaths and each sex of total.
- Table 15. Death rates, total, white and colored, from important causes, per 100,000 total, white and colored population.
- Table 16. Deaths (exclusive of stillbirths) by causes and months of death.
- Table 17. Deaths (exclusive of stillbarns) from each cause of the Abridged International List, by age, sex, and color.
- Table 18. Deaths (exclusive of stillbirths) by causes, by days, weeks and months of the first year of life.
- Table 19. Deaths (exclusive of stillbirths) under one year of age, by causes and months of death.
- Table 20. Deaths from each cause, Detailed International List, in the counties of New Jersey and selected municipalities of 5,000 or more inhabitants in 1930.
- Table 21. Deaths by occupations, age groups and certain selected causes.

Table 22. Deaths by causes, sex, color and age periods in the counties and cities having 10,000 or more inhabitants in 1930. (County figures include cities which follow):

| Atlantic County— Atlantic City Bergen County— Englewood | Essex County (con.)— Newark Nutlev Orange | Monmouth County— Asbury Park Long Branch Red Bank |
|--|--|--|
| Garfield Hackensack Rutherford | South Orange West Orange Gloucester County— | Morris County— Dover Morristown |
| Burlington County— Burlington City | Hudson County— Bayonne | Ocean County— Passaic County— |
| Camden County— Camden City Gloucester | Harrison Hoboken Jersev City | Clifton Passaic City Paterson |
| Cape May County— | Kearny Union Citv West New York | Salem County— Somerset County— |
| Cumberland County— Bridgeton Millville | Hunterdon County- | Sussex County— Union County— Elizabeth Linden |
| Essex County Belleville Bloomfield | Mercer County— Trenton | Plainfield Rahway Summit Westfield |
| East Orange Irvington Montclair | Middlesex County— New Brunswick Perth Amboy | Warren County— Phillipsburg |

Population—The estimated mid-year population of the State for 1934 was 4,231,000. It has been found necessary to abandon the arithmetical method of computing estimates of population and to use the United States Bureau of the Census estimates which are now based upon reported births and deaths and net immigration (or emigration). Certain rates for 1934 cannot be fairly compared with the published rates for 1933-since, in the computation of the 1933 figures, larger estimates of population were used than for 1934. The estimated population of the counties and incorporated municipalities of the State having 10,000 or more inhabitants in 1930 appears at the foot of the mortality tables for the places.

Births—The number of births for 1934 was 54,841, which was equivalent to a rate of 12.9 per 1,000 population. Total births reported showed a decline of 1,231 from the number for the previous year. The low figure for 1934 is a continuance of the decline in evidence since 1917, when the rate was 24.9.

The number of illegitimate births reported for 1934 was 1,305, of which 467 were babies born to colored mothers. The figures for 1933 were 1,256 and 421.

Marriages—The number of persons married during 1934, per thousand of population, was 13.7. The rate showed a great improvement over the 1933 figure of 11.3, which rate was the second lowest since marriage statistics were first compiled in 1879. The ease and rapidity with which marriage licenses can be obtained in certain adjacent States materially affects the New Jersey rate. Economic conditions have also been a considerable factor and were undoubtedly partly responsible for the gradual decline which occurred in the marriage rate during past years.

Deaths—The number of deaths for 1934 was 43,547. The death rate, 10.2 for the year, shows little variation from the 1933 rate of 10.0, which was the lowest rate since the State Department of Health was established fifty-seven years ago. The previous low rate was 10.1 for 1932.

Stillbirths—The number of stillbirths reported for 1934 was 2,025. The number for the previous year was 2,073. The 1934 rate was 36.9 per 1,000 live births. The rate for the colored population was 54.8.

TABLE 1—POPULATION; BIRTHS, MARRIAGES AND DEATHS REPORTED WITH RATES PER 1.000 POPULATION

| | | BIR | THS | MARRIAGES | | DEATHS | |
|--|--|--|--|--|--|--|---|
| YEAR | Estimated Population | Number of births | lifth rate per 1,000 population | Number of marriages | Peruns married per 1,000 population | Number of deaths | Death rate per 1,600 population |
| 1879 1850 1851 1851 1851 1852 1853 1853 1853 1854 1855 1856 1857 1858 1859 1859 1859 1859 1859 1859 1859 | 1,020,584 1,130,892 1,160,275 1,189,688 1,290,646 1,218,248 1,278,033 1,204,287 1,181,482,287 1,141,017 1,478,784 1,511,633 1,641,633 1, | 23,116 23,680 23,484 23,108 24,430 25,283 21,071 27,307 28,627 32,683 33,662 33,662 33,662 33,662 33,662 33,662 33,662 33,662 34,672 31,207 31 | 22.65 20.94 20.24 19.42 20.20 118.46 20.26 | 7,096 7,963 8,109 8,537 9,166 8,968 8,989 12,353 15,764 15,765 15,764 15,764 15,564 15,564 15,564 15,564 15,564 15,564 15,564 15,572 15,573 18,370 16,539 16 | 13. 91 14. 08 13. 88 13. 88 15. 88 15. 88 12. 90 22. 31 20. 58 21. 38 20. 58 21. 38 20. 58 21. 38 20. 58 21. 38 20. 59 21. 38 21. 38 20. 59 21. 38 20. 59 21. 38 20. 59 21. 38 20. 59 21. 38 21. 38 21 | 20,440 18,967 20,812 25,959 23,310 21,716 22,874 22,313 26,113 26,113 26,113 26,113 30,767 30,004 30,767 30,767 30,399 31,474 31,389 31,389 31,389 31,489 31 | 20.03 16.07 17.04 18.05 |
| 927 928 929 930 931 931 932 933 | 3,570,159 3,633,891 3,697,623 3,761,355 4,062,930 4,149,314 4,235,698 4,322,082 4,281,000 | 72,386 72,799 70,076 68,297 68,282 64,078 61,215 56,072 54,841 | 20.27 20.03 18.95 18.15 16.80 15.44 14.45 12.97 | 28,424 28,316 29,120 30,257 28,499 26,468 22,840 24,453 28,991 | 15.92 15.58 15.73 16.08 14.02 12.73 10.78 11.31 13.70 | 44,396 41,562 44,555 45,746 43,100 44,135 42,826 43,380 43,547 | 12.43 11.43 12.04 12.16 10.63 10.11 10.03 10.29 |

TABLE 1A.—BIRTHS, MARRIAGES AND DEATHS, 1934

(Births and Deaths Corrected for Residence)

| Month | Births | Marriages | Deaths |
|-----------|--------|-----------|--------|
| January | 4,627 | 1.681 | 4,259 |
| February | 4,330 | 1.704 | 4.081 |
| March | 4,509 | 1.347 | 4.166 |
| April | 4,295 | 2.479 | 3.886 |
| May | 4,517 | 1,923 | 3,800 |
| June | 4.576 | 4,426 | 3,323 |
| July | 5.002 | 2,242 | 3,223 |
| August | 4.925 | 2.320 | 2,934 |
| September | 4.572 | 3.510 | 3.017 |
| October | 4,647 | 2.724 | 3,350 |
| November | 4.276 | 2.656 | 3,455 |
| December | 4,565 | 1,979 | 4,053 |
| Total | 54,841 | 28.991 | 43.547 |

Table 1s.—Births, Marriages, Deaths and Deaths Under One Year of Age by Counties, Cities, Boroughs and Townships, 1934 (Births and Deaths Corrected as to Residence)

ATLANTIC COUNTY NAME OF PLACE Births Mai

| NAME OF PLACE | Births | Marriages | Deaths | one year |
|----------------------|--------|-----------|--------|----------|
| Absecon City | 84 | 12 | | _ |
| Atlantic City | 700 | | 89 | - 5 |
| Brigantine City | 102 | 561 | 1021 | 68 |
| Buena Vista Township | 6 | 1 | 5 | 1 |
| Corbin City | 44 | . 32 | 42 | 1 |
| Corbin City | 3 | | 4 | |
| Egg Harbor City | 53 | 44 | 58 | |
| Egg Harbor Township | 42 | 11 | 36 | ï |
| Estelle Manor City | 4 | 2 | 4 | : |
| roisom Borough | 2 | _ | - 1 | 1 |
| Galloway Township | 61 | ••; | 38 | ••• |
| namilton Townshin | 36 | 17 | | 6 |
| nammonton Town | 103 | 52 | 49 | 7 |
| Linwood City | 24 | 52 | 85 | 6 |
| Longport Borough | | 11 | 20 | 1 |
| Margate City | 2 | . 5 | 2 | • • • |
| Mullica Township | 27 | 10 | 53 | 4 |
| Northfield City | 15 | 7 | 23 | í |
| Pleasentalle City | 38 | 9 | 33 | ó |
| Pleasantville City | 176 | 97 | 155 | ÷ |
| Port Republic City | 12 | 2 | 8 | • |
| Somers Point City | 28 | ē | 25 | ••• |
| ventnor City | 47 | 45 | | 2 |
| Weymouth Township | 10 | 10 | 90 | 5 |
| | | | 10 | • • • • |
| Total | 1549 | 929 | 1801 | 199 |

| BEI | | | | |
|--|------------|-----------|--------------|--------------------------|
| NAME OF PLACE | Births | | Deaths | Deaths under one year |
| Allendale Borough | 25 | 10 | 8 | |
| Alpine Borough | 7 | 6 | 2 | |
| Bergenfield Borough | 106 | 68 | 103 | 6 3 |
| Bogota Borough | 62 71 | 57 27 | 74 57 | |
| Cliffside Park Borough | 217 | 9+ | 139 | 8 |
| Closter Borough | 34 | 10 | 17 | 1 2 |
| Cresskill Borough Demarest Borough | 20 16 | 9 8 | 16 12 | |
| Dumont Borough | 67 | 29 | 61 | 6 |
| East Paterson Borough | 83 | 27 | 29 | 8 |
| East Rutherford Borough Edgewater Borough | 96 43 | 55 29 | 61 38 | 5 4 |
| Emerson Borough | 10 | 5 | 10 | |
| Englewood City | 261 | 210 | 155 | 11 |
| Englewood Cliffs Borough Fair Lawn Borough | 12 | 8 29 | 9 52 | |
| Fairview Rorough | 119 108 | 93 | 73 | 1 |
| Fairvlew Borough Fort Lee Borough | 131 | 109 | 92 | 4 |
| Franklin Lakes Borough | 7 | 6 | 9 222 | 1 |
| Garfield City | 416 60 | 184 24 | 39 | 12 2 |
| Hackensack City | 351 | 243 | 231 | 12 |
| Harrington Park Borough | 16 | 3 | 10 | 2 |
| Hasbrouck Heights Borough | 78 12 | 26 5 | 56 21 | 1 |
| Haworth Borough Hillsdale Borough Hohokus Borough Hohokus Township | 34 | 14 | 35 | |
| Hohokus Borough | 20 | 28 | 12 | |
| Hohokus Township | 41 | 20 | 36 | 6 |
| Leonia Borough Little Ferry Borough | 49 68 | 34 25 | 48 39 | 1 |
| Lodi Borough | 179 | 122 | 87 | ··· · |
| Lodi Township | 22 | 3 | 9 | 1 |
| Lyndhurst Township | 204 40 | 103 19 | 154 | 9 1 |
| Midland Park Borough | 78 | 26 | 83 85 | 3 |
| Montvale Borough | 10 | 8 | 16 | |
| Moonachie Borough | 21 38 | 10 | . 8 | 1 |
| New Milford Borough | 152 | 24 58 | · 23 · 52 | 1 2 |
| Northvale Borough | - 11 | 12 | 9 | . 2 |
| Norwood Borough Oakland Borough | 27 | 18 | 11 | ••• |
| Old Tappan Borough | . 9 12 | 4 | - 10 7 | ··i |
| Oradell Borough | 32 | 9 | 3i | 1 |
| Palisade Park Borough | 113 | 90 | 59 | 3 |
| Paramus Borough Park Ridge Borough | 25 31 | 14 21 | 25 | 1 |
| Ramsey Borough | . 30 | 27 | 25 33 | 3 |
| Ridgefield Borough | 59 | 48 | 63 | 4 |
| Ridgefield Park Borough Ridgewood Village | 122 131 | 58 | 100 | 5 3 |
| River Edge Borough | 85 | 109 11 | 140 25 | 3 |
| Rivervale Township | . 20 | 2 | 14 | ĭ |
| Rochelle Park Township | 48 | 16 | 25 | 1 |
| Rockleigh Borough Rutherford Borough | 187 | 83 | 1 178 | ···i |
| Saddle River Borough | - 6 | 6 | 10 | |
| Saddle River Township | 20 | 11 | 16 | ••• |
| Teaneck Township Tenady Borough | 74 | 68 25 | 154 56 | 6 |
| Teterboro Borough | . 1 | سے | | 3 |
| Upper Saddle River Borough | . 7 | 2 | 6 | |
| Waldwick Borough Wallington Borough | 129 | 3 13 | 13 | ••• |
| Washington Township | 2 | 13 | 75 8 | 8 |
| Westwood Borough | 68 | 38 | 52 | *** |
| Woodcliffe Lake Borough | . 10 | 1 | 8 | |
| Woodridge Borough Wyckoff Township | 71 45 | 26 8 | 34 28 | 2 |
| | | | | |
| Total | 4928 | 2587 | 3394 | 180 |

| BURL | | 5 | | |
|--|--------|-----------|--------|--------------------------|
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
| Bass River Township | 11 | 2 | 14 | 1 |
| Beverly City | 50 | 14 | 45 | 6 |
| Bordentown City | 64 | 27 | 60 | 8 |
| Bordentown Township | 15 | 2 | 10 | 1 |
| Burlington City | 158 | 96 | 150 | 14 |
| Burlington Township | 15 | 2 | 20 | |
| Chester Township | 73 | 24 | 50 | 2 |
| Chesterfield Township | 9 | 1 | 20 | 1 |
| Cinnaminson Township | 23 | 13 | 17 | 2 |
| Delanco Township | 42 | 18 | 39 | ĩ |
| Delran Township | 29 | 1 | 20 | ī |
| Eastampton Township | 6 | 1 | 4 | |
| Edgewater Park Township | 12 | 4 | 12 | 2 |
| Evesham Township | 23 | 3 | 13 | 2 |
| Fieldshore Borough | 8 | ī | 8 | |
| Florence Township | 120 | 38 | 75 | 13 |
| Hainesport Township | 13 | 3 | 4 | 20 |
| Lumberton Township | 15 | 4 | 14 | ••• |
| Man field Township | 26 | É | 25 | ···i |
| Medford Township | 85 | 14 | 29 | 3 |
| Moorestown Township | 117 | 54 | 99 | 4 . |
| Mount Holly Township | 102 | 44 | 99 | รี |
| Mount Laurel Township | 23 | 4 | 29 | 2 |
| New Hanover Township | 19 | 7 | 13 | ī |
| North Hanover Township | 3 | 3 | 8 | î |
| Palmyra Borough | 70 | 17 | 68 | 6 |
| Pemberton Borough | 19 | 7 | 14 | U |
| Pemberton Township | 18 | ż | 23 | ¨i |
| Riverside Township | 113 | 59 | 71 | 11 |
| Riverton Borough | 23 | 20 | 27 | |
| Shameng Township | 4 | 20 | 5 | ••• |
| Southampton Township | 32 | 7 | 22 | ··· <u>·</u> |
| Springfield Township | 17 | ż | 17 | |
| Tabernacle Township | -6 | • | 11 | 1 |
| Washington Township | š | ••• | 9 | 1 2 2 |
| Westampton Township | 4 | ī | | 4 |
| Willingboro Township | 4 | - | 5 | ••• |
| Woodland Township | 11 | ••• | 9 | ; |
| Wrightstown Borough | 11 | 3 | 9 | |
| | | | 9 | 2 |
| Total | 1352 | 506 | 1174 | 95 |
| graduate and a second of the s | | | | |

| CAB | LDEN COL | UNIX | | · · |
|------------------------|----------|-----------|--------|--------------------------|
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
| Audubon Borough | | 33 | 68 | , |
| Barrington Borough | 31 | 5 | 23 | ã |
| Bellmawr Borough | 28 | 6 | 18 | • |
| Berlin Borough | 27 | 29 | 27 | ••• |
| Berlin Township | 27 | 11 | 18 | - |
| Brooklawn Borough | 24 | 2 | 17 | |
| Camden City | 1775 | 855 | 1401 | 116 |
| Chesilhurst Borough | 2 | 2 | 4 | |
| Clementon Borough | 46 | 5 | 83 | ···. 5 |
| Collingswood Borough | 136 | 62 | 161 | š |
| Delaware Township | 48 | 6 | 58 | 8 |
| Gibbsboro Borough | 10 | 5 | 6 | - |
| Gloucester City | 203 | 88 | 179 | 15 |
| Gloucester Township | 59 | 26 | 70 | |
| Haddonfield Borough | 94 | 44 | 115 | 1 |
| Haddon Heights Borough | 42 | 51 | 67 | |
| Haddon Township | | 24 | 71 | 3 |
| HiNella Borough | 6 | _ | 11 2 | + |
| Laurel Springs Borough | | ii | | ••• |
| Lawnside Borough | 30 | 10 | 31 | 1 |
| Lindenwold Borough | 44 | 15 | 24 | 2 |
| Magnolia Borough | 22 | 7 | 25 | 4. |
| Merchantville Borough | 127 | 47 | 20 | |
| Mount Ephraim Borough | 35 | 21 | 96 | 8 |
| Oaklyn Borough | 78 | | 20 | 1 |
| Dengaphen Terrebin | | 15 | 35 | 3 |
| Pensauken Township | 185 | 61 | 132 | 14 |
| Pine Hill Borough | 12 | 9 | 17 | 2 |
| | | | | |

ESSEX COUNTY

| CAMDEN | | | | | | | |
|--|--|---|--|---|--|--|--|
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year | | | |
| Pine Valley Borough Runnemede Borough Somerdale Borough Stratford Borough Tavistock Borough Voorhees Township Waterford Township Winslow Township Woodlynne Borough Total | 52 24 15 13 37 65 45 | 27 1 2 6 13 9 12 1522 | 34 11 10 14 27 53 26 2933 | 5 2 1 2 5 1 ——————————————————————————————— | | | |
| CAPE MAY COUNTY | | | | | | | |
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year | | | |
| Avalon Borough Cape May Cit Cape May Cont Borough Downer Township Model Township Middle Township North Cape May Borough North Wildwood City Ocean City Sea Isle City South Cape May Borough Stone Harbor Borough Upper Township West Cape May Borough West Wildwood City Wildwood City Wildwood City Wildwood City Wildwood City Wildwood Crest Borough Woodbine Borough Total | 58 82 34 17 59 26 62 18 8 8 8 9 | 3 34 2 2 3 3 100 229 15 466 111 2 18 76 2 2 251 | 8 46 2 2 28 24 79 35 64 18 12 27 14 7 83 7 12 462 | 3 6 2 4 | | | |
| CUMBI | RLAND (| COUNTY | | | | | |
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year | | | |
| Bridgeton City Commercial Township Deerfield Township Downe Township Township Fairfield Township Greenwich Township Hopewell Township Landis Township Lawrence Township Maurice River Township Millerine Township Shich Botth Shich Botth Creek Township Upper Deerfield Township Vincland Borough Total | 25 8 28 178 29 30 204 8 11 26 105 | 144 18 9 4 12 1 3 101 2 9 9 9 2 7 58 469 | 269 46 16 20 21 7 22 130 16 32 200 4 9 19 96 909 | 32 6 4 3 3 3 1 3 13 13 13 | | | |

| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
|---|------------------|------------|--------------------|--------------------------|
| Pullarilla Town | 40.1 | 158 | | |
| Belleville Town | 548 | 256 | 259 3 64 | 16 16 |
| Caldwell Borough | 75 | 46 | 71 | 5 |
| Caldwell Township | 13 | | 10 | |
| Cedar Grove Township | 30 | 6 | 42 | |
| East Orange City | 831 | 383 | 726 | 28 |
| Essex Fells Borough | _9 | 10 | . 6 | • • • |
| Glen Ridge Borough Irvington Town | 74 | 30 | 57 | 1 |
| Livington Town | 760 71 | 234 18 | 501 | 20 |
| Manlewood Township | 236 | 108 | 48 199 | 2 7 |
| Livingston Township Maplewood Township Millbarn Township | 107 | 48 | 72 | 5 |
| Montclair Town | 443 | 303 | 407 | 16 |
| Newark City | 6186 | 3995 | 4817 | 319 |
| North Caldwell Borough | . 7 | | 12 | 1 |
| Nutley Town | 273 | 123 | 167 | 8 |
| Orange City | 489 13 | 307 | 405 | 24 |
| South Orange Village | 118 | 4 83 | 16 137 | 1 |
| Verona Borough | 98 | 34 | 67 | 3 |
| West Caldwell Borough | 89 | 4 | 43 | 4 |
| West Orange Town | 508 | 116 | 217 | ĝ |
| | | | | |
| Total | 11132 | 6370 | 8643 | 489 |
| | | | | |
| GLOVO | ESTER CO | UNTY | | |
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
| | | - | | |
| Clayton Borough Deptford Township | 21 · 59 | 18 17 | 34 | 2 |
| East Greenwich Township | 26 | 12 | 48 25 | 4 1 |
| Elk Township | 22 | · <u>ā</u> | 13 | i |
| Franklin Township | 54 | 11 | 51 | ບໍ່ |
| Glassboro Borough | 63 | 40 | 59 | |
| Greenwich Township | 47 22 | 8 | 25 | 3 |
| Harrison Township | 12 | 8 7 | 30 | 2 |
| Mantua Township | 45 | ŝ | 11 35 | 2 1 |
| Monroe Township | 63 | 24 | 44 | 1 9 |
| National Park Borough | 51 | 16 | 26 | 2 2 |
| New field Borough | 14 | 4 | 10 | 1 |
| Paulsboro Borough | 135 | 52 | 66 | - 6 |
| Pitman Borough | . 48 | 32 | 70 | . 3 |
| Swedesboro Borough | 31 | 27 | . 9 44 | ••• |
| Washington Township | 23 | -; | 14 | 1 2 |
| Wenonah Borough | 13 | 10 | 19 | 1 |
| West Deptford Township | 58 | 6 | 48 | 2 |
| Westville Borough | 38 | 26 | 40 | 8 |
| Woodbury City | 107 11 | 62 | 126 | 8 |
| Woodbury Heights Borough | 16 | 6 1 | 6 7 | **: |
| noonace zonacep minimum. | | | | 1 |
| Total | 988 | 400 | 860 | 54 |
| | | | | |
| HUD | son coun | TY | | |
| NAME OF PLACE | Dirths | Macriages | Deaths | Deaths under |
| Bayonne City | 1102 | 580 | 728 | |
| East Newark Borough | 20 | 11 | 728 28 | 40 |
| Guttenberg Town | 66 | 48 | 63 | 1 . |
| Harrison Town | 220 | 157 | 123 | 5 7 |
| Hoboken City | 624 | 886 | 650 | 34 |
| Jersey City | 4474 | 2522 | 3483 | 248 |
| North Bergen Township | 564 | 188 203 | 322 | 8 |
| TIOTER TOUBER TANEBUILD | | | | |
| Secaucus Borough | 518 83 | | 883 | 23 |
| North Bergen Township Secaucus Borough Union City | 83 690 | 34 | 73 | - 5 |
| Weehawken Township | 83 690 185 | | 73 608 | 5 23 |
| Secaucus Borough Union City Weehawken Township West New York Town | 83 690 | 34 604 | 73 | - 5 |

| HUNT | ERDON | COUNTY | | Deaths under | |
|--|----------------|------------------|------------------|--------------------------|--|
| NAME OF PLACE | Births | Marriages | Deaths | one year | |
| Alexandria Township Bethlehem Township | 19 4 | 2 | 9 | 2 1 | |
| Plantachure Parough | 11 | 4 | 8 | . 2 | |
| Califon Borough | 3 | Ţ | 10 | | |
| Califon Borough Clinton Town Clinton Tewnship | 75 29 | 10 6 | 14 21 | 1 | |
| Delaware Township | 12 | 13 | 21 | | |
| East Amwell Township | 29 | 3 | 16 | 2 | |
| Flemington Borough | 20 19 | 17 5 | 50 19 | 2 1 | |
| Franklin Township Frenchtown Borough | 14 | 3 | 24 | | |
| Glen Gardner Borough | 5 | 4 | 10 | 2 | |
| Hampton Berough | 13 16 | 7 17 | 13 26 | | |
| Holland Township | 10 | 2 | 9 | | |
| Kingwood Township | 9 | 4 | 12 | | |
| Lambertville City Lebanon Borough Lebanon Township Milford Borough | 75 3 | 33 6 | 78 10 | 3 2 | |
| Lebanon Township | 21 | 2 | 12 | | |
| Milford Borough | 23 | 5 | 12 | 2 | |
| Raritan Township | 14 34 | 26 | 15 48 | | |
| Stockton Borough | 3 1 | 1 | 45 8 | 3 1 | |
| Stockton Borough Tewksbury Township | 14 | 16 | 24 | 2 | |
| Union Township | 17 10 | 3 | 16 | 2 | |
| west amoen township | | | 11 | | |
| Total | 456 | 196 | 505 | 31 | |
| | | | | | |
| MER | CER C | UNTY | | | |
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year | |
| East Windsor Township | 13 | 2 | 9 | ****** | |
| Ewing Township | 150 | 18 | 89 | ···s | |
| Hamilton Township | 471 | 107 | 288 | 25 | |
| Hightstown Borough Hopewell Borough | 44 15 | 3 0 19 | 42 | 3 | |
| Hopewell Township | 44 | . 5 | 33 45 | 1 11 | |
| Lawrence Township | 90 | 18 | 62 | 5 | |
| Pennington Borough | 12 | -6 | 19 | 2 | |
| Princeton Borough Princeton Township | 106 46 | 73 5 | 84 23 | 7 | |
| Trenton City | 1680 | 752 | 1360 | 4 105 | |
| Washington Township | 7 | 3 | 14 | 2 | |
| West Windsor Township | 31 | 6 | 19 | 1 | |
| Total | 2709 | 1044 | 2087 | 174 | |
| | _,,,, | | 2001 | 112 | |
| Mann | | COUNTY | | - | |
| NAME OF PLACE | | | Desthe | Deaths under | |
| | Births | Marriages | Deaths | one year | |
| Carteret Borough | 186 23 | 99 11 | 78 20 | 7 | |
| Dunellen Borough | 87 | 38 | 20 65 | | |
| East Brunswick Township | 35 | 6 | 23 | 2 | |
| Helmetta Borough | 102 | 10 | 7 | | |
| Highland Park Borough Jamesburg Borough | 102 29 | 46 23 | 80 24 | 4 | |
| Madison Township | 39 | 10 | 39 | 1 2 | |
| Metuchen Borough | 87 | 35 | 47 | 4 | |
| Middlesex Borough | 33 | .8 | 28 | 1 | |
| Monroe Township | 55 18 | 21 3 | 3 3 19 | 1 2 | |
| New Brunswick City | 511 | 836 | 357 | 21 | |
| North Brunswick Township | 49 | 26 | 35 | 3 | |

| MIDDLESE | X COUN | TY-Continued | | |
|---|-------------|--------------|----------|--------------------------|
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
| Perth Amboy City | 516 | 453 | 391 | 26 |
| Piscataway Township Plainsboro Township | 94 | 19 | 67 | 8 |
| Plainspore Township | 15 134 | 7 | 7 | • • • |
| Raritan Township Sayreville Borough | 114 | 27 56 | 85 63 | 11 |
| South Amboy City | 117 | 50 74 | 93 82 | 4 3 |
| South Amboy City South Brunswick Township | 37 | 10 | 83 | 3 |
| South Plainfield Borough | 60 | 22 | 44 | ĭ |
| South River Borough | 144 | 69 | 63 | 6 |
| Spotswood Borough | 17 | | 13 | 1 |
| Woodbridge Township | 3 73 | 154 | 222 | 21 |
| Total | 2873 | 1568 | 1925 | 135 |
| MONN | OUTH (| COUNTY | | |
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
| Allenburst Borough | 9 | | 8 | • |
| Allentown Borough | 14 | 15 | 15 | |
| Asoury Park City | 171 | 167 | 222 | 13 |
| Atlantic Township | 14 | 4 | 12 | 10 |
| Atlantic Highlands Borough | 37 | 13 | 41 | 2 |
| Avon Borough | 9 | 12 | . 9 | • • • |
| Bradley Beach Borough | 36 37 | 36 22 | 76 | · · · <u>·</u> |
| Brielle Borough | S | 22 | 42 9 | 2 |
| Deal Borough | 11 | 11 | 13 | ••• |
| Eatontown Borough | 35 | 14 | 35 | 3 |
| Englishtown Borough | 14 | 2 | 15 | |
| Fair Haven Borough Farmingdale Borough | 21 14 | 6 | 29 | 1 |
| Freehold Borough | 88 14 | 13 59 | 17 | 3 |
| Freehold Borough Freehold Township | 24 | 3 | 84 29 | 7 2 |
| rightands Borough | 28 | 13 | 26 | 2 |
| | 11 | 3 | 14 | ĩ |
| Howell Township Interlaken Borough | 27 | 16 | 31 | ī |
| Agansburg Borough | 32 | 34 | 9 | ••• |
| Keyport Borough | 69 | 54 54 | 45 | 3 |
| Little Silver Borough | . 8 | 6 | 78 15 | 3 1 |
| Long Branch City | 257 | 125 | 230 | 7 |
| Manalapan Township Manasquan Borough | | 5 | 17 | |
| Mariboro Township | 27 24 | 40 | 39 | ••• |
| Matawan Borough | 42 | 13 17 | 32 | 1 |
| Matawan Borough Matawan Township Middletown Township | 36 | 5 | 42 20 | 3 |
| Middle town Township | 93 | 44 | 125 | ···. 5 |
| Millstone Township Monmouth Beach Borough | 16 | 5 | 13 | |
| Neptune Township | 5 163 | 1 | Fi | ••• |
| Neptune CITY Morongh | 35 | 62 12 | 179 | 10 |
| Ocean Township | 52 | 19 | 24 53 | • • • |
| Oceanport Borough | 43 | ŝ | 15 | 4 2 |
| Raritan Township Red Bank Borough | 18 | 1 | 13 | . 2 |
| Rumson Borough | 164 | 97 | 154 | |
| sea Bright Borough | 28 18 | 22 | 35 | 2 |
| | 9 | 6 7 | 9 | |
| Shrewsbury Borough Shrewsbury Township South Believe Berney | 13 | 13 | 7 6 | 1 |
| South Reimer Research | 11 | 3 | 16 | ••• |
| Spring Lake Borough | 11 | 2 | 16 | ••• |
| Spring Lake Heights Borough | 25 | 14 | 21 | ~i |
| | 11 23 | 12 | .8 | ••• |
| | 27 | 5 · 4 | 20 | 2 |
| | 49 | 18 | 14 29 | ••• |
| West Long Branch Borough | 27 | 8 | 29 15 | 1 |
| Total | | | | ••• |

Total 1970

1075

Deaths under

MORRIS COUNTY

| MORRIS COUNTY | | | | |
|--------------------------------|--------|-----------|--------|--------------------------|
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
| Boonton Town | 85 | 39 | 98 | 2 |
| Boonton Township | 5 | i | s | |
| Butler Borough | 37 | 27 | 42 | |
| Chatham Borough | 52 | 22 | 49 | 2 |
| Chatham Township | 11 | 1 | 13 | ī |
| Chester Borough | 6 | 3 | 16 | · . |
| Chester Township | 11 | 1 | 5 | 1 |
| Denville Township | 34 | 16 | 39 | ī |
| Dover Town | 159 | 93 | 122 | 7 |
| East Hanover Township | 14 | 6 | 9 | i |
| Florham Park Borough | 10 | 2 | 15 | |
| Hanover Township | 37 | 14 | 40 | 2 |
| Harding Township | 18 | 5 | 17 | 2 |
| Jefferson Township | 6 | 3 | 15 | 2 1 |
| Kinnelon Borough | 6 | ••• | 6 | ••• |
| Lincoln Park Borough | 19 | 12 | 18 | 1 |
| Madison Borough | 120 | 49 | 96 | ã |
| Mendham Borough | 22 | 11 | 16 | |
| Mendham Township | 8 | 5 | 7 | |
| Mine Hill Township | 18 | Ť | 13 | i |
| Montville Township | 47 | 18 | 80 | ī |
| Morris Plains Borough | 27 | 18 | 25 | |
| Morristown Town | 219 | 106 | 207 | 6 |
| Morris Township | 74 | 20 | 51 | 4 |
| Mountain Lakes Borough | 22 | 8 | 18 | |
| Mount Arlington Borough | 10 | | 4 | ••• |
| Mount Olive Township | 20 | 13 | 24 | |
| Netcong Borough | 34 | 14 | 11 | 4 |
| Parsippany-Troy Hills Township | 33 | 17 | 48 | · |
| Passaic Township | 29 | 13 | 20 | *** |
| Pe juannock Township | 52 | 14 | 26 | 2 |
| Randolph Township | 80 | 12 | 26 | |
| Riverdale Borough | 12 | 2 | 17 | ``i |
| Rockaway Borough | 61 | 39 | 32 | 2 |
| Rockaway Township | 41 | 8 | 28 | |
| Roxbury Township | 70 | 21 | 61 | 7 |
| Washington Township | 17 | 5 | 83 | i |
| Wharton Borough | 50 | 19 | 85 | 2 |
| Total | 1521 | 654 | 1335 | 55 |

OCEAN CORNER

| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
|------------------------------|------------|-----------|---------|--------------------------|
| Barnegat City Borough | s | | 48 | 9 |
| Bay Head Borough | 7 | *** | ÷ | - |
| Beach Haven Borough | 12 | 15 | 15 | • • • |
| Beachwood Borough | 8 | *** | | * |
| Berkeley Township | 14 | ii | 11 | ••• |
| Brick Township | 29 | 5 | 2; | 1 |
| Dover Township | 64 | 29 | 57 | 2 |
| Eagleswood Township | Ŷĝ | | 13 | 4 |
| Harvey Cedars Borough | | * | 10 | |
| Island Beach Borough | ••• | • • • • | • • • • | • • • |
| Island Heights Borough | •••; | ••• | *:: | ••• |
| Jackson Township | 2 2 | * | 10 | ••• |
| Lacey Township | 11 | * | 30 | ••• |
| Lakehurst Borough | 11 | - 1 | 11 | . I |
| Takenurst Dorough | | .0 | 15 | 2 |
| Lakewood Township | 93 | 65 | 99 | 6 |
| Lavalette Borough | .5 | • • • • | 5 | |
| Little Egg Harbor Township | 11 | • • • | ñ | |
| Long Beach Township | _1 | *** | 2 | ••• |
| Manchester Township | 25 | 1 | 16 | ••• |
| Mantoloking Borough | 2 | | 2 | |
| Ocean Township | 5 | 9 | 5 | 1 |
| Ocean Gate Borough | 3 | | 4 | |
| Pine Beach Borough | 3 | 1 | | 111 |
| Plumstead Township | 16 | ĝ | 23 | · · i |
| Point Pleasant Borough | 44 | 13 | 20 | - |
| Point Pleasant Beach Borough | 3 | 10 | 23 | |

OCEAN COUNTY-Continued

| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
|-------------------------------------|--------|-----------|------------|--------------------------|
| Seaside Heights Borough | 9 | 1 | 12 | 2 |
| Seaside Park Borough | 9 | 8 | 6 | |
| Ship Bottom-Beach Arlington Borough | 8 | 2 | 4 | |
| South Toms River Borough | 6 | 6 | 4 | • • • |
| Stafford Township | 17 | 3 | 15 | 2 |
| Surf City Borough | 4 | 1 | 2 | |
| Tuckerton Borough | 12 | 14 | 19 | • • • • |
| Union Township | 15 | 11 | 2 3 | |
| | | | | |
| Total | 480 | 229 | 501 | 29 |

PASSAIC COUNTY

| LTD | | | | |
|-----------------------|--------|-----------|--------|-----------------------|
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
| Bloomingdale Borough | 44 | 25 | 31 | 2 |
| Clifton City | 632 | 198 | 380 | 31 |
| Haledon Borough | 52 | 25 | 41 | 2 |
| Hawthorne Borough | 157 | 67 | 105 | 5 |
| Little Falls Borough | 92 | 43 | 45 | 5 |
| North Haledon Borough | 25 | 6 | 14 | i |
| Passaie City | 738 | 676 | 548 | 31 |
| Paterson City | 1834 | 1095 | 1487 | 87 |
| Pompton Lakes Borough | 35 | 26 | 28 | 1 |
| Prospect Park Borough | 93 | 36 | 37 | 2 |
| Ringwood Borough | 24 | 2 | 15 | 6 |
| Totowa Borough | 66 | 18 | 61 | ĭ |
| Wanaque Borough | 53 | 16 | 85 | 5 |
| Wayne Township | 62 | 28 | 60 | 2 |
| West Milford Township | 41 | 19 | 29 | 3 |
| West Paterson Borough | 63 | 18 | 19 | ĭ |
| Total | 4011 | 2293 | 2935 | 185 |

SALEM COUNTY

| NAME OF PLACE | Births | Marriages | Deaths | one year |
|-------------------------------|--------|-----------|--------|----------|
| Alloway Township | 24 | 10 | 19 | 2 |
| Elmer Borough | 23 | 11 | 24 | |
| Elsinboro Township | 7 | | 8 | i |
| Lower Alloways Creek Township | 10 | 6 | 10 | |
| Lower Penns Neck Township | 70 | 9 | 34 | 5 |
| Mannington Township | 22 | 3 | 25 | 2 |
| Oldmans Township | 27 | 10 | 12 | ī |
| Penns Grove Borough | 117 | 48 | 70 | 11 |
| Pilesgrove Township | 17 | 4 | 13 | 3 |
| Pittsgrove Township | 23 | 2 | 27 | i |
| Quinton Township | 26 | 7 | 14 | ī |
| Salem City | 141 | 58 | 129 | 7 |
| Upper Penns Neck Township | 51 | 19 | 84 | ż |
| Upper Pittsgrove Township | 39 | 6 | 26 | 3 |
| Woodstown Borough | 25 | 11 | 43 | ī |
| | | | | |
| Total | 622 | 204 | 488 | 40 |

| SOMERSET COUNTY | | | | | |
|---------------------------|--------|-----------|--------|--------------------------|--|
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year | |
| Bedminster Township | 17 | 3 | 20 | | |
| Bernards Township | 21 | 17 | 23 | | |
| Bernardsville Borough | 45 | 25 | 40 | i | |
| Bound Brook Borough | 131 | 94 | 66 | 3 | |
| Branchburg Township | 18 | 4 | 11 | í | |
| Bridgewater Township | 44 | 14 | 49 | ā | |
| Far Hills Borough | 10 | 2 | 4 | | |
| Franklin Township | 91 | 15 | 49 | | |
| Green Brook Township | 8 | - 5 | 11 | 1 | |
| Hillsborough Township | 33 | 14 | 24 | ī | |
| Manville Borough | 121 | 34 | 40 | 5 | |
| Millstone Borough | 3 | 5 | 5 | | |
| Montgomery Township | 20 | 9 | 24 | 3 | |
| North Plainfield Borough | 11. | 63 | 110 | 2 | |
| Peapack-Gladstone Borough | 2: | 14 | 12 | - | |
| Raritan Town | 55 | 35 | 29 | | |
| Rocky Hill Borough | 5 | 4 | | | |
| Somerville Borough | 126 | 46 | 98 | 5 | |
| South Bound Brook Borough | 32 | Ř | 21 | 2 | |
| Warren Township | 19 | ž | 15 | 5 | |
| Watching Borough | 9 | 19 | 11 | í | |

| sus | | | | |
|---------------------|--------|-----------|--------|--------------------------|
| NAME OF PLACE | Births | Marriages | Deaths | Deaths under one year |
| Andover Borough | 10 | 13 | 12 | 1 |
| Andover Township | 4 | 1 | 4 | |
| Branchville Borough | 12 | 8 | 13 | 1 |
| Byram Township | 3 | | 5 | 1 |
| Frankford Township | 16 | 1 | . 16 | 3 |
| Franklin Borough | 66 | 21 | 86 | 7 |
| Fredon Township | 1 | | 7 | |
| Green Township | 8 | 277 | ė | |
| Hamburg Borough | 18 | 4 | 13 | i i |
| Hampton Township | 13 | 8 | 4 | î |
| Hardyston Township | 18 | Ť | Ŕ | î |
| Hopateong Borough | 3 | 2 | 8 | • |
| Lafayette Township | 14 | . 4. | 16 | |
| Montague Township | -4 | 1 | îi | • • • • |
| Newton Town | - 71 | 25 | 80 | ÷ |
| Ogdensburg Borough | 17 | | 14 | |
| Sandyston Township | 9 | | 17 | . • |
| Sparta Township | 13 | | 12 | |
| Stanhope Borough | 15 | 13 | 18 | ••• |
| Stillwater Township | 14 | 3 | 12 | ••• |
| Sussex Borough | 37 | 24 | 23 | ‡ |
| Vernon Township | ģ | 3 | 16 | <u> </u> |
| Wallpack Township | ž | ř | 10 | - |
| Wantage Township | - 33 | Ė | 23 | ••• |
| munage roumant | | 0 | 23 | • |
| Total | 410 | 153 | 376 | 39 |

| COTTNEY |
|---------|
| |

| | | | | Deaths under |
|-------------------------|--------|-----------|--------|--------------|
| NAME OF PLACE | Births | Marriages | Deaths | one year |
| Clark Township | 16 | 2 | 12 | ••• |
| Cranford Township | 170 | 62 | 82 | 6 |
| Elizabeth City | | 928 | 1138 | 52 |
| Fanwood Borough | 34 | 4 | 15 | 1 |
| Garwood Borough | | 11 | 25 | |
| Hillside Township | | 70 | 143 | 10 |
| Kenilworth Borough | 25 | 9 | 15 | 2 |
| Linden City | | 119 | 182 | 18 |
| Mountainside Borough | 10 | 5 | 6 | ••• |
| New Providence Borough | 23 | 12 | 16 | 1 |
| New Providence Township | 20 | 6 | 15 | ••• |
| Plainfield City | 507 | 243 | 412 | 25 |
| Rahway City | | 124 | 156 | 9 |
| Roselle Borough | | 78 | 117 | 12 |
| Roselle Park Borough | | 41 | 80 | 1 |
| Scotch Plains Township | | 20 | 50 | 4 |
| Springfield Township | 51 | 19 | 39 | |
| Summit City | | 81 | 147 | 5 |
| Union Township | | 72 | 138 | 16 |
| Westfield Town | 208 | 97 | 138 | 7 |
| Total | 4274 | 2003 | 2926 | 169 |

WARREN COUNTY

| | | | | Deaths under |
|------------------------|--------|-----------|--------|--------------|
| NAME OF PLACE | Births | Marriages | Deaths | one year |
| Allamuchy Township | 11 | . 1 | 4 | |
| Alpha Borough | 42 | 24 | 21 | 3 |
| Belvidere Town | 29 | 9 | 45 | 1 |
| Blairstown Township | 19 | ğ | 23 | 2 |
| Franklin Township | 15 | Ä | 18 | ī |
| Frelinghuysen Township | 14 | 2 | 17 | ī |
| Greenwich Township | 24 | 18 | 23 | ā |
| Hackettstown Town | 35 | 16 | 61 | ï |
| Hardwick Township | ě | 10 | Ř | i |
| Harmony Township | 20 | | 18 | â |
| Hope Township | -š | ž | 10 | - |
| Independence Township | 19 | 15 | 14 | ; |
| Knowlton Township | 17 | 10 | 16 | î |
| Liberty Township | 1, | 7 | 6 | |
| Lopateong Township | 17 | • • • • | 14 | |
| | 16 | | 22 | ••• |
| Mansfield Township | 27 | 12 | 22 | • • • |
| Oxford Township | 21 | | 24 | 1 . |
| Pahaquarry Township | 111 | ::: | 201 | -2.2 |
| Phillipsburg Town | 245 | 100 | 201 | 11. |
| Pohatcong Township | 31 | _7 | 21 | 3 |
| Washington Borough | 57 | 21 | 63 | 3 |
| Washington Township | 15 | 1 | 8 | |
| White Township | 20 | 9 | 18 | 2 |
| Total | 691 | 268 | 646 | 40 |
| State Total | 54841 | 28991 | 43547 | 2686 |
| | | | | |

Unknown 19vo bas 00 48 01 08 64 03 04 TOTAL DEATHS, 69 01 69 20 10 28 67 03 07 80 10 38 PERIODS 82 O3 OZ AGE 61 03 OI 6 03 9 8.18 Under 5 years 2129 F 2 26818 0.4 3 Jears 930 7 lest Under 1 year [a30T : 8

10.11 1932 7561 54.11 9261 24.51 11.90 1925 11,77 1924 1522 1923 15.09 1922 1149 1921 12.80 1920 12.71 1919 8161 92'61 2161 2771 9161 12'71 3161 07.81 14:02 1914 14.22 1913 1161 9471 0161 78.81 6061 97'91 8061 4791 7091 E3.81 1624 1906 9061 6291 \$061 \$1'Z1 2061 78.21 19.91 1902 1061 8791 0061 29.91 6681 07.91 8681 11.31 **7681 06.81** 9681 06.71 18.51 18.95 16061 2681 88.61 21.62 1892 1681 02.61 0681 08.61 6881 98.81 8881 97.61 7881 21.81 1225 1886 18.63 1885 #881 OFZI £881 8S.€1 S881 S8.1S 1881 1671 0881 77.31 5002 1848

Infant Mortality—The infant mortality rate for 1934 was 48.9 per 1,000 babies born alive. The lowest infant mortality rate attained in New Jersey was 46.5 for 1933. Reference to Table 4 will show the great decrease in the infant death rate in New Jersey since extensive baby welfare work was undertaken.

Colored Races—The infant mortality rate for the colored races was 93.7. The colored races have shown high mortality rates since vital statistics were first collected and analyzed.

Maternal Mortality—The rate for 1934 was 5.3 and for 1933, 5.1. It is regrettable that a decrease comparable to the infant mortality decline has not been shown in deaths due to maternity. The colored maternal mortality rate was 7.5.

Table 3-Number of Deaths at all Ages, Under One Year of Age and Under Five Years of Age, and Their Percentages of Total Deaths

| | | DEATHS | IN NEW | JERSEY | | |
|---|--|--|--|--|--|--|
| CALENDAR YEAR | | Under c | ne year | Under five years | | |
| ILAK | All Ages | Number | Percentage of Total | Number | Percentage of Total | |
| 1904 1905 1906 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1922 1922 1922 1923 1924 1925 1924 1925 1926 1927 1928 1929 1930 1931 | 35,298 33,864 35,670 37,408 35,597 36,359 39,494 38,612 37,772 39,425 39,943 43,376 43,532 60,852 39,979 40,820 37,362 40,086 41,294 40,531 41,749 44,396 41,562 44,555 45,746 43,190 44,135 42,826 | 7,472 6,951 7,773 7,823 7,823 7,642 7,445 7,542 7,431 7,077 7,348 7,582 8,372 6,111 6,672 5,773 5,864 5,368 5,368 5,368 5,368 4,464 4,600 4,116 3,870 3,649 3,649 3,649 | 21.2 20.5 21.8 20.7 22.0 21.1 21.1 19.8 19.7 19.1 18.6 17.4 13.8 15.3 16.3 15.3 16.3 11.5 12.3 11.5 10.3 9.0 9.0 8.3 7.2 | 10,927 9,864 11,246 10,867 10,869 11,137 11,648 10,740 10,309 10,686 10,278 9,828 11,188 10,267 13,709 8,661 9,569 8,047 8,371 7,727 7,344 6,997 7,442 6,045 6,438 5,795 5,205 4,916 4,049 | 31.0 29.1 31.5 29.0 30.5 27.8 27.8 27.1 25.7 24.9 25.8 23.6 22.5 21.7 23.4 21.5 20.9 18.7 21.3 16.8 14.5 14.4 12.1 11.1 | |
| 1933 1934 | 43,380 43,547 | 2,608 2,686 | 6.0 6.2 | 3,512 3,518 | 8.1 8.1 | |

| | | | _ | | | | | _ | _ | _ | _ | | _ |
|--------------|--|----------------|---------------|--------|-------------|---------------|----------|----------|--------|--------------|----------|----------|---------------|
| DE6 | | | | | | | | | | | Ш | L | |
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| 926 | | | _ | _ | - | | | | _ | _ | _ | _ | ᆫ |
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| 526 | | | _ | | _ | _ | | _ | _ | _ | u | L | Ш |
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| 126 | | | - | 7 | 7 | _ | 7 | 7 | - | - | 1 | 1 | ┢ |
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| 920 | 1 100 | 2 | | 1 | - 1 | - 1 | - 1 | 1 | - 1 | - 1 | | | Į. |
| 616 | 1 82.7. | 2.1 | \neg | ╗ | 7 | T | T | 7 | \neg | 7 | 7 | _ | г |
| 816 | | | -+ | ⊣ | -+ | -+ | + | + | - | 4 | _ | \vdash | Н |
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| 806 | | | | | | _ [| | - 12 | 1 | - 1 | - 1 | | |
| 106 | ₹£.84 | 7 | T | Т | Т | Т | Т | 7 | 7 | ┑ | \neg | П | _ |
| 906 | | | -+ | + | + | + | + | -t | + | 4 | \dashv | - | - |
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| 206 | 00'94 | ٠. | 1 | t | ł | - | 1 | 6 | 7 | - 1 | - 1 | - 1 | |
| † 06 | 00.53 | : T | Т | ┰ | ┰ | \neg | $^{-}$ | 4 | 7 | 7 | _ | 7 | $\overline{}$ |
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| 1905 | 186t | - | 1 | 1 | 1 | - | 1 | 1/ | 1 | -1 | - [| | |
| 1061 | | | 1 | 7 | 1 | 1 | | 7 | 7 | 7 | 7 | _ | _ |
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| 668 | 02.90 | | 7 | Т | 1 | \top | 77 | ď. | 7 | 7 | 7 | 7 | \neg |
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| 2681 | \$1.82 | 1 | 1 | 1 | K | 1 | Г | Г | Г | Τ | T | Т | 7 |
| 1681 | 72.25 | T | 1 | 7 | 1 | J- | Ť | 1 | T | † | 7 | ┱ | ᅥ |
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| DEATHS | R 1,000 LIVE BIRTH |
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| TABLE 4NUMBER | |
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| Table 4.—Number of Births, Stillberths, Deaths Deaths in New Jershy, | ber of Birt | res, Stilen Deaths in | es, Stillenths, Deaths Deaths in New Jersey, | Under With | ONE MONTH, DEATHS UNDER RATES PER 1,000 LIVE BIRTHS | DEATHS (100 Live Bir | ONE | YEAR AND MATERNAL | MATERNAL | |
|--|----------------------------|---|---|------------------------------------|--|----------------------------------|--------------------------------------|--|--|-------|
| Year | Births Reported | Deaths Under I Year of Age | Rates per 1,000 Live Births | Deaths Under I Month of Age | Rates per 1,000 Live Births | Still- births | Rates per 1,000 Live Births | Maternal Deaths | Rates per 1,000 Live Births | |
| 1906 1907 1908 | 42,677 44,651 47,405 | 7,773 | 182.1 173.2 165.2 | 2,545 2,602 2,655 | 8888 | 2,399 2,530 2,617 | જજજ | 322 289 329 | 7.5 6.5 6.9 | |
| 1910 1911 1911 | 53,942 58,133 60.073 | 7,642 7,642 7,457 | 154.8 131.4 | 2,2,2,2 2,887 2,887 3,587 | 82 <i>4</i> | 2,539 2,737 2,754 2,554 | 20049 | 311 377 427 | 6.5 7.3 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 | |
| 1913 1914 1915 | 61,432 65,403 66,476 | 7,542 7,431 7,077 | 122.7 113.6 106.4 | 2,993 2,995 2,862 | 444 | 3,075 3,075 | 344 | 415 416 390 | 9.4.0.8. 5.4.6.8 | |
| 1916 1917 1918 | 75,309 74,549 70,935 | 7,348 7,582 8,372 | 100.7 112.3 112.3 | 3,075 3,256 3,175 | 33 4% | 3,525 3,183 3,525 3,047 | 2 444 | 383 411 417 | ນ.ທ.ທ. 4.4.ໜໍ• | |
| 1920 1921 1921 | 76,431 78,172 74,479 | 5,773 8,773 8,64 | 73.8 | 2,961 2,830 2,773 | 3888 | 3,242 3,242 3,033 | 4244 | 8244 | 5.9 5.9 | ~ |
| 1923 1924 925 | 74,611 76,530 74,193 | 5,368 5,359 7,109 | 2008 | 2,739 2,739 2,607 | *** | 3,169 | 348 | 24.82 | 50.00 14.00 | |
| 1926 1927 928 | 72,386 | 5,090 4,464 600 600 | 20.3 61.3 5.5 | 2,537 2,462 485 | 8888 | 3,078 3,074 2,864 | 27 9 | \$ 25 | 5.00 4.11 | . 200 |
| 929 | 68,297 68,282 64,078 | 3,870 | 2.56.2 2.6.6 | 2,233 | 888 | 2,767 | 5 % ¢ | 380 | | 200 |
| 932 933 934 | 56,072 56,072 54,841 | 3,089 2,608 6,608 | 202 4 65.5 4 6.5 | 1,533 1,533 | 3828 | 2,343 2,073 2,073 | \$888 | 3232 3837 3837 3837 3837 3837 3837 3837 | 37 | 17 |

Table 5—Deaths Under One Year, Deaths Under One Month, Stillbirths and Maternal Mortality per Thousand Live Births—1934

| Rates | ber | 1.000 | line | births |
|-------|-----|-------|------|--------|
| | | | | |

| | Deaths Under One Year | Deaths Under One Month | Stillbirths | Maternal Deaths |
|------------|--------------------------|---------------------------|-------------|--------------------|
| New Jersey | 48 | 29 | 36 | 5.3 |
| Atlantic | 78 | 51 | 32 | 7.1 |
| Bergen | 36 | 24 | 31 | 2.4 |
| Burlington | 70 | 3 9 | 32 | 8.1 |
| Camden | 61 | 32 | 45 | 5.7 |
| Cape May | 51 | 34 | 4 9 | 4.9 |
| Cumberland | 69 | 43 | 46 | 15.5 |
| Essex | 43 | 26 | 31 | 3.9 |
| Gloucester | 54 | 30 | 25 | 8.0 |
| Hudson | 46 | 26 | 45 | 5.4 |
| Hunterdon | 67 | 46 | 48 | 8.7 |
| Mercer | 64 | 39 | 3 9 | 7.7 |
| Middlesex | 46 | 33 | 34 | 4.8 |
| Monmouth | 46 | 26 | 3 6 | 7.6 |
| Morris | 36 | 24 | 23 | 3.9 |
| Ocean | 60 | 39 | 31 | 2.0 |
| Passaic | 46 | 26 | 37 | 7.2 |
| Salem | 64 | 32 | 45 | 4.8 |
| Somerset | 37 | 28 | 54 | 6.3 |
| Sussex | 73 | 63 | 26 | 2.4 |
| Union | 39 | 25 | 34 | 4.2 |
| Warren | 57 | 34 | 34 | 4.3 |

Table 6—Deaths Under One Year, Deaths Under One Month, Stillbirths and Maternal Mortality per Thousand Live Births: New Jersey and Ten Largest Cities—1934

Rates per 1,000 live births

| | | Deaths Under One Month | Stillbirths | Maternal Deaths |
|---------------|------|---------------------------|-------------|--------------------|
| New Jersey | 48 | 29 | 36 | 5.3 |
| Newark | . 51 | 30 | 35 | 4.5 |
| Jersey City | . 55 | 30 | 44 | 3.7 |
| Paterson | 47 | 22 | 43 | 5.9 |
| Trenton | . 62 | 39 | 41 | 7.7 |
| Camden | . 65 | 30 | 53 | 5.0 |
| Elizabeth | . 34 | 19 | 42 | 6.6 |
| Bayonne | . 36 | 20 | 49 | 8.1 |
| East Orange | . 33 | 24 | 26 | 1.2 |
| Atlantic City | . 86 | 62 | 39 | 7.6 |
| Passaic City | . 42 | 29 | 36 | 6.7 |

Table 7—Births, Birth Rates, Deaths Under One Year and Infant Mortality Rates (Exclusive of Stillbirths)—1934

| | J (11.102.03112 | OF DILLBIR | 113)1704 | |
|---------------------|---|---------------------------------------|-----------------------------|------------------------------|
| | Births (Exclusive of of Still- births) | Birthrates per 1,000 Population | Deaths Under One Year | Infant Mortality Rates |
| New Jersey | . 54,841 | 12.9 | 2,686 | 48 |
| Atlantic County | | 11.7 | 122 | 78 |
| Atlantic City | | 11.3 | 68 | 86 |
| Hammonton | | 12.6 | 6 | 58 |
| Pleasantville | . 176 | 13.9 | 8 | 45 |
| Bergen County | 4,928 | 12.5 - | 180 | 36 |
| Bergenfield | . 106 | 9.6 | 6 | 56 |
| Cliffside Park | . 217 | 12.8 | 8 | 3 6 |
| Englewood City | . 261 | 13.8 | 11 | 42 |
| Fairview Borough | . 108 | 9.9 | 1 | 9 |
| Fort Lee Borough | . 131 | 13.1 | 4 | 30 |
| Garfield City | . 446 | 14.1 | 12 | 26 |
| Hackensack City | . 351 | 13.6 | 12 | 34 |
| Lodi Borough | . 179 | 14.7 | 7 | 39 |
| North Arlington | . 152 | 13.8 | 2 | 13 |
| Ridgefield Park | . 122 | 12.0 | 5 | 40 |
| Ridgewood Village | . 131 | 10.0 | 3 | 22 |
| Rutherford Borough | . 137 | 8.6 | 1 | 7 |
| Wallington Borough | . 129 | 12.3 | 8 | 62 |
| Development Comment | 1 2 2 | | | |
| Burlington County | | 14.1 | 95 | . 70 |
| Bordentown City | | 14.4 | 3 | 46 |
| Burlington City | . 158 | 14.1 | 14 | 88 |
| Camden County | | 13.3 | 216 | 61 |
| Audubon | | 7.3 | 2 | 25 |
| Camden City | . 1,775 | 14.9 | 116 | 65 |
| Collingswood | . 136 | 10.1 | 8 | 58 |
| Gloucester City | | 14.5 | 15 | 73 |
| Haddonfield Borough | 94 | 9.2 | 1 | 10 |
| Cape May County | 407 | 13.0 | 21 | 51 |
| Cumberland County | 1,031 | 14.4 | 7 2 | 69 |
| Bridgeton | | 17.9 | 32 | 111 |
| Millville City | 204 | 13.8 | 13 | 63 |
| Vineland | 105 | 13.0 | 3 | 28 |
| | | | | |

| : | Births (Exclusive of of Still- births) | Birthrates per 1,000 Population | Deaths Under One Year | Infant Mortalit y Rates |
|-------------------|---|---------------------------------------|-----------------------------|--------------------------------------|
| Essex County | . 11,132 | 12.8 | 489 | 43 |
| Beileville Town | 404 | 13.0 | 16 | 3 9 |
| Bloomfield | . 548 | 13.4 | 16 | 29 |
| East Orange | . 831 | 11.7 | 28 | 33 |
| Irvington | . 760 | 12.2 | 20 | 26 |
| Montclair | . 443 | 10.0 | 16 | 36 |
| Newark | . 6.186 | 13.8 | 319 | 51 |
| Nutley | . 273 | 12.1 | 8 | 29 |
| Orange | - 489 | 13.6 | 24 | 49 |
| South Orange | . 118 | 8.0 | 3 | 25 |
| West Orange | . 308 | 11.9 | 9 | 25 29 |
| | | 11.7 | 9 | 29 |
| Gloucester County | . 988 | 13.2 | 54 | 54 |
| Woodbury | . 107 | 11.6 | 8 | 74 |
| Hudson County | . 8,988 | 12.8 | 400 | |
| Bayonne | . 1,102 | 12.8 | 422 | 46 |
| Guttenberg | | | 40 | 36 |
| Harrison | . 220 | 10.0 | 5 | 75 |
| Hoboken | | 14.1 | 7 | 31 |
| Jersey City | . 024 | 10.5 | 34 | 54 |
| Kearny Town | . 4,474 | 13.9 | 248 | 55 |
| Secaucus | | 13.0 | 8 | 14 |
| Union City | . 83 | 7.9 | 5 | 60 |
| West New York | 690 | 11.7 | 23 | 33 |
| West New TOTK | 482 | 12.5 | 24 | 49 |
| Hunterdon County | 456 | 13.0 | 31 | 67 |
| Lambertville | 75 | 16.6 | 3 | 40 |
| | | | | 40 |
| Mercer County | 2,709 | 14.0 | 174 | 64 — |
| Princeton Borough | 106 | 14.2 | 7 | 66 |
| Trenton | 1,680 | 13.5 | 105 | 6 2 |
| Middlesex County | 2.873 | 13.0 | 135 | |
| Carteret | 186 | 13.6 | | 46 |
| Highland Park | 102 | 9.9 | 7 4 | 37 |
| New Brunswick | 511 | 9.9 14.6 | • | 39 |
| Perth Amboy | 516 | 14.0 | 21 | 41 |
| Sayreville | 114 | 12.2 | 26 | 50 |
| South Amboy | 117 | 12.2 | 4 | 35 |
| South River | 144 | | 3 | 25 |
| | 144 | 12.5 | 6 | 41 |

| | Births (Exclusive of of Still- births) | Birthrates per 1,000 Population | Deaths Under One Year | Infant Mortality Rates |
|----------------------|---|---------------------------------------|-----------------------------|------------------------------|
| Monmouth County | . 1,970 | 12.7 | 92 | 46 |
| Asbury Park | . 171 | 11.1 | 13 | 7 6 |
| Long Branch | . 257 | 13.3 | 7 | 27 |
| Red Bank | . 164 | 13.6 | 7 | 42 |
| Morris County | . 1,521 | 13.2 | 55 | 36 |
| Dover | | 15.7 | 7 | 44 |
| Madison | . 120 | 14.4 | 3 | 25 |
| Morristown | . 219 | 13.9 | 6 | 27 |
| Ocean County | . 480 | 13.7 | 29 | 60 |
| Passaic County | . 4,011 | 12.9 | 185 | 46 |
| Clifton | . 632 | 12.5 | 31 | 49 |
| Hawthorne | . 157 | 12.0 | 5 | 31 |
| Passaic City | . 738 | 11.7 | 31 | 42 |
| Paterson City | 1,834 | 13.1 | 87 | 47 |
| Salem County | | 16.8 16.9 | 40 7 | 64 49 |
| | | 10.7 | , | 49 |
| Somerset County | 944 | 13.8 | 35 | 37 |
| Bound Brook | 131 | 16.4 | 3 | 22 |
| North Plainfield | 110 | 10.0 | 2 | 18 |
| Somerville | 126 | 14.1 | 5 | 39 |
| Sussex County | 410 | 14.4 | 30 | 73 |
| Union County | 4,274 | 13.2 | 169 | 39 |
| Elizabeth | 1,502 | 12.7 | 52 | 34 |
| Linden | 364 | 17.1 | 18 | 49 |
| Plainfield | 507 | 14.2 | 25 | 49 |
| Rahway | 223 | 13.1 | 9 | 40 |
| Roselle | 186 | 13.0 | 12 | 64 |
| Roselle Park Borough | 94 | 9.0 | 1 | 10 |
| Summit | 191 | 12.4 | 5 | 26 |
| Westfield | 203 | 11.9 | 7 | 26 3 4 |
| Warren County | 691 | 13.8 | 40 | 57 |
| Phillipsburg | 245 | 12.5 | 11 | 37 44 · |

Typhoid Fever—The death rate for this disease for 1934 was only 0.07 per 10,000 population. That the rate was low was proven by the 1933 rate of 0.35 for the United States Registration Area. The rate for the Registration Area for 1934 was not available. The number of deaths from typhoid fever and other diseases of the international list of causes of death by counties and cities can be obtained by referring to Table 20. Table 22 shows the more important causes by sex, color and age groups.

TABLE 8-COMPARATIVE DEATH RATES FROM TYPHOID FEVER PER 10,000 INHABITANTS, IN THE REGISTRATION AREA OF U. S. AND IN N. J. FOR 10 YEARS

| | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 |
|--|------|------|------|---------------|------|------|------|------|------|------|
| Registration area of the United States | 0.67 | 0.80 | 0.65 | 0. 5 5 | 0.49 | 0.42 | 0.48 | 0.44 | 0.37 | 0.35 |
| New Jersey | 0.26 | 0.31 | 0.27 | 0.14 | 0.17 | 0.14 | 0.11 | 0.09 | 0.07 | 0.09 |

TABLE 9-URBAN AND RURAL DEATHS FROM TYPHOID FEVER-1934

| | Estimated population | Deaths from typhoid fever | Rate per 10,000 population |
|---|-------------------------|---------------------------------|----------------------------------|
| State Municipalities having 5,000 or more inhabitants | 4,231,000 | 32 | 0.07 |
| in 1930 | 3,063,845 1,167,155 | 20 12 | 0.06 0.10 |

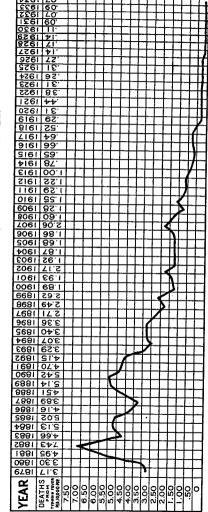


TABLE 10—DEATHS FROM TYPHOID FEVER, BY COUNTIES, PER 10,000
POPULATION. FOR 10 YEARS

| COUNTIES | 19 | 25 | 19 26 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 193 |
|-------------------|---------------|-----|--------------|--------|--------|---------------|--------|--------|-------|-------|------|
| Atlantic County | j | | 0.07 | 0.52 | 0.31 | 0 10 | 0 21 | 0 15 | 0 22 | 0.21 | 0.1 |
| Sergen County | | 22 | 0.81 0.92 | 0.03 | 0.10 | 0.10 | 0.51 | 0 07 | 0.22 | 0 02 | 0.1 |
| Surlington County | | 41 | 0.20 | 0.00 | A 21 | 0.01 | 0 21 | 0.10 | 0 31 | 0.41 | 1 |
| Samden County | | 33 | O. 02 | 0.00 | 0.0 | 0.00 | 0.31 | 0.10 | 0.01 | 0 15 | 0.6 |
| Cape May County | | ου | 0.00 | 0.00 | 0.2 | 10.20 | 0.10 | 0.01 | 10.10 | | io. |
| Sape May County | | انۃ | 0.51 | 0.02 | 100 | 1 | 0.00 | 6.4 | 0 10 | 0 27 | ١٠ |
| Jumberland County | · · · Į · · | 01 | 0.19 | :::: | 0.1 | 0.14 | | 0.14 | 0.13 | 0.06 | 10 |
| Essex County | | 13 | 0.10 | 0.19 | 0.0 | 0.16 | 0.00 | 0.01 | 0.00 | 0.00 | 10. |
| Cloucester County | | 81 | 0.00 | | 10.5. | 10.50 | 12.2 | 0.21 | 0.20 | 0.20 | 'n. |
| Hudson County | <u>J</u> 0 . | 32 | 0.18 | 0.09 | 0.0 | 90.00 | ,0.01 | | 10.02 | 10.01 | γ. |
| Hunterdon County | 0. | 60 | : : : | 0.30 | 0.30 | <u>' :-::</u> | 1: :: | × ::: | | 0.00 | ١;٠ |
| Mercer County | j0. | 39 | 0.49 | 0.10 | 0.13 | 0.16 | 0.10 | 0.19 | 0.00 | 0.20 | ٧. |
| Middlesex County | 0. | 31 | 0.41 | 0.10 | 0.0 | 0.1 | 0.18 | 0.13 | 0.18 | 0.04 | ١., |
| Jonmouth County | 0. | 36 | 0.26 | [0.26] | 0.70 | 0.17 | 0.83 | 0.26 | 0.31 | 0.18 | Ų. |
| | | | | | | | | | | | |
| Dogan County | i | | 0.88 | | | | 10.29 | 0.29 | | 10.24 | |
| Passala County | !0 | 24: | റ റദ | 0.03 | IO. 10 | HO. 23 | | IU. LU | IU.VO | | ĮV. |
| alem County |]0. | 47 | 0.23 | 0.45 | [0.23] | 2 | 0.27 | | | 0.54 | 1: |
| lomerest County | 0 . ! | Ω41 | 0.18 | 10.86 | 0.3 | | 10.45 | | | U. 30 | Įυ. |
| | | | | | | | | | | | |
| Inion County | | 24 | Ռ. 41 | [0.12] | 0.1 | 110.11 | .10.09 | 0.18 | | U.UD | 1 |
| Warren County | | | | 1 | | | | | | | J., |
| | f | - 1 | | • | 1 | i | ī | , | 1 | | 1 |
| The State | 10. | 31 | 0.27 | 0.14 | 0.1 | 10.14 | 0.11 | 10.09 | 0.07 | 0.09 | ijΟ. |

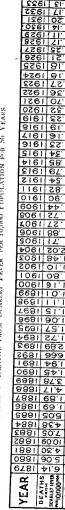
Malaria—As the following figures show, deaths during recent years from this affection are practically negligible in this State:

| 1879 | 268 | 1893 | 148 | 1907 | 29 | 1921 | 10 |
|------|-----|------|-----|------|----|--------------|-----|
| 1880 | 293 | 1894 | 162 | 1908 | 30 | 1922 | 3 |
| | 431 | 1895 | 144 | 1909 | 25 | 1923 | 2 |
| 1882 | 379 | 1896 | 119 | 1910 | 25 | 1924 | 6 |
| | 290 | 1897 | 132 | 1911 | 25 | 1925 | 3 |
| 1884 | 230 | 1898 | 82 | 1912 | 29 | 1926 | 2 |
| 1885 | 209 | 1899 | 96 | 1913 | 11 | 1927 | 2 |
| | 243 | 1900 | 84 | 1914 | 10 | 1928 | 3 |
| 1887 | 217 | 1901 | 50 | 1915 | 17 | 192 9 | - 5 |
| 1888 | 264 | 1902 | 36 | 1916 | 10 | 1930 | 5 |
| | 203 | 1903 | 40 | 1917 | 5 | 1931 | ٠ (|
| | 195 | 1904 | 47 | 1918 | 13 | 1932 | 3 |
| 1891 | 180 | 1905 | 21 | 1919 | 2 | 1933 | 1 |
| 1892 | 198 | 1906 | 33 | 1920 | 5 | 1934 | (|
| | | | | | | | |

Smallpox—No deaths from smallpox occurred in New Jersey during 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933 and 1934. During the two years previous to 1926 deaths occurred as the disease was prevalent in epidemic form in certain sections of the State.

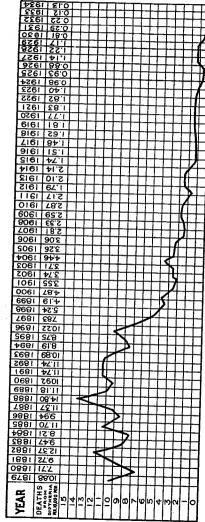
Measles—This disease was responsible for 50 deaths in 1934. During the preceding year 71 deaths occurred. In 1929 there were only 33 deaths from measles.

Scarlet Fever—The number of deaths from scarlet fever was 64. Very little variation has occurred in the death rate from this disease for the past ten years. The average rate for the period was about half the rate which prevailed during the previous decade.



Whooping Cough—This disease caused 63 deaths during 1934, for 1933 the number was 43 and for 1932, 123.

Diphtheria—During 1934 only 56 persons died from diphtheria and laryngeal croup, equivalent to a rate of 0.13 per 10,000 population, compared with 0.12 for the previous year and 0.22 for 1932. The death rate from diphtheria for 1888 was 14.8 per 10,000 population. During the decade beginning with 1900 the rate declined from 4.8 to 2.5. The following ten-year period showed a decline to 1.8. The rate for 1933 was the lowest recorded.



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Tuberculosis—The number of deaths from all forms of tuberculosis during 1934 was 2,230, of which 2,038 deaths were from tuberculosis of the respiratory system. The death rates per 10,000 population were 5.27 and 4.81, respectively. These were the lowest tuberculosis death rates recorded in New Jersey.

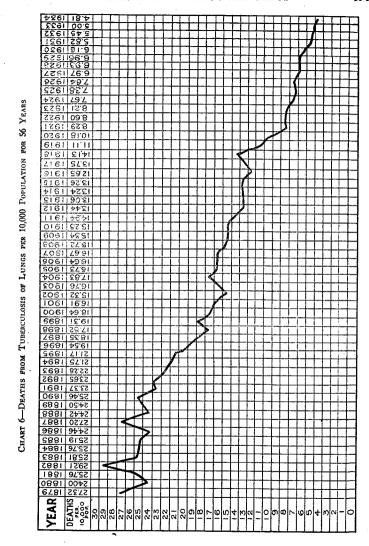
Colored Races—The number of deaths from all forms of tuberculosis was 485 and the rate 22.95 per 10,000 of colored population. The number of deaths from tuberculosis of the respiratory system was 430; the rate 20.35. Rates for the white population were 4.34 and 4.00, respectively.

Table 11.—Average Annual Death Rates from All Causes and from Tuberculosis of Lungs per 10,000 Population for 56 Years,

Compared with Rates for 1934

| COUNTIES | Average annual death rates from all causes | Death rates from all causes, 1934 | *Average annual death rates from tuberculosis of lungs | *Death rates from tuberculosis of lungs, 1934 |
|---|---|---|--|--|
| Atlantic County Bergen County Burlington County Camden County Canden County Canden County Canden County Cumberland County Essex County Hudson County Hudson County Hunterdon County Mercer County Mornis County Morris County Ocean County Passaic County Salem County Somerset County Sussex County Sussex County Union County Warren County | 153 118 146 154 142 110 146 138 157 142 148 133 150 120 146 139 136 131 127 122 140 | 136 86 122 111 148 127 99 115 99 144 108 87 131 115 143 94 132 98 132 | 11.6 9.7 12.8 14.2 9.4 13.7 15.8 11.6 16.1 11.4 15.4 10.9 11.9 12.8 12.6 10.5 10.8 | 5.8 3.6 4.8 3.6 2.2 4.9 5.8 4.4 5.3 3.4 6.0 3.8 6.0 4.0 4.3 6.7 3.5 3.1 4.5 3.8 |
| The State | 143 | 102 | 13.6 | 4.8 |

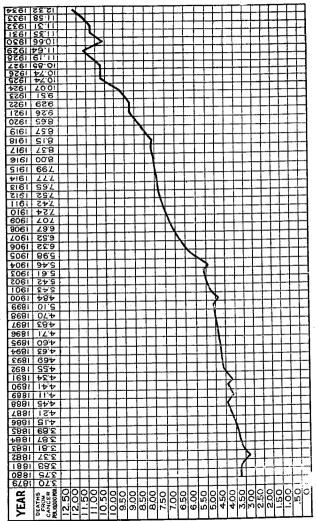
^{*}It should be noted that these rates are for tuberculosis of the respiratory system. Rates of all forms of tuberculosis appear among the tables of the Bureau of Local Health Administration.



Cancer—The number of deaths from cancer and other malignant growths for 1934 was 5,213 and the death rate was 12.32 per 10,000 population compared with 11.58 for the previous year. The mortality from the disease, with few exceptions, has steadily increased during the fifty-six years recorded in New Jersey.

| 6 of 6 | 81 of 51 | 82 of 62 10.24 10.24 29 10.24 20.24 29 10.24 20 | № 01 0€ 04 50 Ε∞51 □ | 98 of 6 | | | | | | _ | | | | 1 | 1 |
|---|--|---|-----------------------------|----------------|----------|------------|---------------|-------------------------------|---|------------------------|---|-----------------------|------------------------------------|--------------|----------------------|
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| Terns Femule | | 2 11 | 12 | 36 | 48 | 100 | 11 | - - | - 60 | | - 26 | 19 | 4 | - 64 | 531 |
| Other Fennile Genttal Organs-Fennile | - en | <u>:</u> | es | - G | 11 | æ | | | 18 15 | | ======================================= | - 61 | _ : | : | 115 |
| Breast— Maie Fund French Total | | | === | : 88 | : 88 | : 22 | :88 | :52 | 135 11 11 11 11 11 11 11 11 11 11 11 11 11 | 182 | : 88 | 22 | :00 | :4.4 | 551 |
| Male Genitourinary Organs-Male 3 1 | <u>:</u> | : | 84 | е . | œ | # | 9; | 20 | 59 61 | 80 | 5 | -82 | == | 8 | 414 |
| Skin Male Female Total | H H | | | <u>;</u> | - = ;= | म राज्य | | :- | | 8 T OI | 120 | 282 | F 51 F- | PH C1 23 | 2 ft 5 |
| Other or Tinspectified Organis— Male 6 4 5 Frunde 2 1 1 7 Total 8 5 10 | ¢ N ∞ | 312 | 4 H E | 13.04 | 6 2 3 | 688 | 284 | 333 | 53 19 | <u> </u> | 22 E E | 집으급 | H40 | : 47 13 | 192 421 421 |
| Total Male 9 7 6 | 97 | 8 10 | 20 | - - | - [00] | 175 23 | 181 | - 38 342 | 380 358 | 303 | 8 | 105 | 18 | - 0 | 2444 |
| Total Female 2 2 9 | t- | 0 22 | 8 | - <u>#</u> | 162 2 | 231 | 32.1 | 306 393 | 392 | 364 | 215 | 129 | 54 | 8 | 2769 |
| Total Male and Female 11 9 15 | 11 | 17 82 | 92 | 148 | 262 | 406 | 222 | 651 778 | 3 750 | 727 | 445 | 25 | 8 | - <u>-</u> - | 5213 |

CHART 7-DEATHS FROM CANCER PER 10,000 POPULATION FOR 56 YEAR



Encephalitis Lethargica or Sleeping Sickness—Twenty-seven deaths were assigned to this disease for the year 1934. In 1922, which was the first year that the deaths were separately classified, there were forty-five deaths; 36 deaths were recorded for 1933.

Nephritis—Deaths due to acute and chronic nephritis totaled 3,509, compared with 3,601 for the previous year.

Suicide—Deaths by this means increased considerably during the years 1927 to 1934. Of the various means employed firearms were responsible for the most deaths, with poisonous gas and hanging in second and third places. The number of deaths by suicide for eight years follows:

| 1927 | 505 | 1931 | 694 |
|------|-----|------|-------------|
| 1928 | 565 | 1932 | <i>7</i> 40 |
| 1929 | 622 | 1933 | 709 |
| 1930 | 601 | 1934 | 667 |

ABLE 13. - DEATHS BY SUICIDE: NEW JERSEY, 1984

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| | 90 and over | | | | | | |
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| | 64 H 83 | | 83 | 23 | 82 |
| . 61 61 | | | 8 | 5 | 45 |
| | | . !!! | 61 | 20 | 22 |
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| | | - ::: | <u>:</u> | | _ |
| Jumping from high places— Male Frants Total | Crushing— Nate Fenale Total | Other means—Male Male Female Female Total | Total Male | Total Female | Total Male and Female, |

AUTOMOBILE FATALITIES

Deaths due to accidents in which moving automobiles were involved totaled 1,228 compared with 1,207 for 1933. The figures include 16 deaths due to motorcycle accidents and 24 deaths of bicyclists, who were struck by automobiles, but are exclusive of 27 accidental deaths due to the inhalation of motor exhaust.

Analyzed the motor fatality data show the death of 644 pedestrians, which number is equivalent to 52 per cent of the total. Slightly less than one-fourth of the pedestrians who died were children under fifteen years of age. Sixteen per cent of the drivers and occupants of automobiles who were killed were less than twenty years of age.

The following table shows deaths, in New Jersey, of both residents and non-residents of the State, arranged by age groups:

MOTOR VEHICLE FATALITIES BY AGE PERIODS: 1934

| | | ians struck or vehicles Non- | Deaths j motor vehic | rom other cle accidents Non- | To | Totals Non- | |
|-----------------|-----------|------------------------------------|-------------------------|------------------------------------|-----------|----------------|--|
| Age | Residents | Residents | Residents | Residents | Residents | | |
| Under 5 years . | . 36 | 2 | 7 | 0 | 43 | 2 | |
| 5 to 9 | | 3 | 16 | 1 | 89 | 4 | |
| 10 to 14 | | 1 | 18 | 2 | 47 | 3 | |
| 15 to 19 | . 21 | . 4 | 47 | 5 | 68 | 9 | |
| 20 to 24 | . 11 | 4 | 65 | 14 | 76 | 18 | |
| 25 to 29 | . 14 | 2 | 59 | 16 | 73 | 18 | |
| 30 to 59 | . 234 | 22 | 190 | 59 | 424 | 81 | |
| 60 to 69 | | 2 | 37 | 14 | 153 | 16 | |
| 70 and over | | 2 | 28 | 6 | 96 | 8 | |
| | | | | | | | |
| Totals | . 602 | 42 | 467 | 117 | 1,069 | 159 | |

MOTOR VEHICLE FATALITIES BY SEX, COLOR AND TYPE OF ACCIDENT, 1934

| | | ales | Fer | nales |
|---|-------|-------------|-----|---------|
| | White | Colored | | Colored |
| Pedestrians | 455 | 30 | 148 | 11 |
| Collision auto and train or engine | 27 | 1 | 4 | 0 |
| Collision auto and street car | 0 | O- | 0 | ñ |
| Collision auto with stationary objects | 55 | 4 | 17 | 3 |
| Collision auto with another motor vehicle | 204 | 17 | 88 | 8 |
| Collision auto with bicycle | 22 | 0 | 2 | Û |
| Motorcycle accident | 16 | 0 | 0 | 0 |
| Other accidents | 84 | 7 | 25 | ŏ |
| Total | 863 | | 284 | 22 |

Motor Vehicle Fatalities by Months of Death, 1934

| February 5 March 7 April 7 May 11 | 4 July 126 2 August 108 1 September 110 2 October 110 1 November 142 3 December 139 |
|-----------------------------------|---|
| | |

TABLE 14--PERCENTAGE OF THE VARIOUS CAUSES OF TOTAL DEATHS AND EACH SEX OF TOTAL IN NEW JERSEY-1934

| Abridged international | CAUSE OF DEATH | Percentage of Total. | Males-Percentage of Total | Pennies—Percentage of Total |
|---|--|----------------------|--|--------------------------------|
| 1 2 2 3 3 4 4 4 4 4 4 4 4 5 5 6 6 7 7 8 8 8 9 9 10 111 12 15 6 17 17 18 8 17 17 18 18 19 12 12 12 12 12 12 12 12 12 12 12 12 12 | of special sense Diseases of the heart Other diseases of the circulatory system Hyronchitis Prenumonias Prenumonias Prenumonias Other diseases of the respiratory system (tuberculosis excepted) Diseases Expendicitis Appendicitis Appendicitis Appendicitis Appendicitis Other diseases of the digestive system Other diseases of the digestive system Other diseases of the gentiourinary system Purperal septicemia Other diseases of pregnancy, childbirth and the purperal state Diseases of the skin and cellular tissue, and of the bones and organs of locometion Congenital debility and uniformations, premature birth and other diseases of early infancy Senility Suicide Himpicide | 3.8 .3 1.5 | 600 1000 1000 1000 1000 1000 1000 1000 | 40 |
| 4 | excepted) | 6.3 | 71 83 | 29 17 |
| • | All causes | 100.0 | 53.5 | 46.5 |

TABLE 15-DEATH RATES, TOTAL, WHITE AND COLORED, FROM IMPORTANT CAUSES, PER 100,000 TOTAL, WHITE AND COLORED POPULATION IN NEW JERSEY-1935.

| CAUSE OF DEATH | Petal Beaths new 100,000 Estimated Population | White Deaths per 100,000 Estimated White Population | Cetored Denths per 100,000 Estimated Colored Population |
|---|--|---|---|
| Typhoid and paratyphoid fever | 0.8 | 0.7 | 4.2 |
| Typhus fever | | 1 | |
| Smallpox Measles | : : : | 1 | |
| Scarlet fever | 1.1 1.5 | 1.1 | 1.8 |
| Whooping cough | 1.4 | 1.5 | 0.9 |
| Diphtheria | 1.3 | 1.3 | 4.2 0.4 |
| Influenza | 7.3 | 7.3 | 12.3 |
| Plague | ••• | 1 | l |
| Tuberculosis of the respiratory system | 48.1 | 40.0 | 203.5 |
| Other forms of tuberculosis | 4.5 | 3.2 | 26.0 |
| Malaria | 7.6 | 4.7 | 62,4 |
| Other infectious and parasitic diseases | 5.5 | 5.2 | |
| Cancer and other malignant tumors | 123.2 | 124.6 | 9.9 96.5 |
| Tumors, nonmalignant, or of which the nature is not | | 124.0 | 96.5 |
| specified | 5.4 | 5.1 | 11.3 |
| Chronic rheumatism and gout | 1.0 | 1.0 | 0.9 |
| Diabetes mellitus | 27.3 | 27.5 | 24.1 |
| Alcoholism (acute or chronic) | 2.3 | 2.1 | 6.6 |
| Other general diseases and chronic poisonings | 15.5 | 15.3 | 17.5 |
| Progressive locomotor ataxia and general paralysis of | | | |
| the insane Cerebral hemorrhage, cerebral embelism and thrombosis | 4.1 80.8 | 3.3 | 18.4 |
| lither discuses of the nervous system and of the organal | 00.0 | 79.8 | 99.8 |
| of special sense | 13.8 | 13.5 | |
| Disenses of the beart | 285.7 | 284.0 | 20.3 |
| Other diseases of the circulatory system | 19.9 | 19.6 | 318.0 22.2 |
| Bronchitis | 3.3 | 3.3 | 3.7 |
| l'neumonias | 66.2 | 60.4 | 175.6 |
| Other diseases of the respiratory system (tuberculosis | _ [| | _,,,,, |
| excepted) Diarrhea and enteritis | 7.1 | 6.8 | 13.2 |
| Amendicitis | 7.9 | 7.2 | 21.3 |
| Diseases of the liver and biliary passages | 12.0 16.2 | 12.0 | 12.7 |
| Other diseases of the digestive system | 28.6 | 16.6 | 8.5 |
| Nephritis | 82.9 | 22.9 80.8 | 37.3 |
| Other diseases of the genitourinary system | 12.4 | 12.1 | 122.5 17.9 |
| l'uerperal septicemia | 2.7 | 2.4 | 8.5 |
| Other diseases of pregnancy, childbirth and the puer- | | | 0.0 |
| peral state | 4.2 | 4.1 | 6.6 |
| Diseases of the skin and cellular tissue, and of the bones and organs of locomotion | 0.5 | 1 | |
| Ongenital debility and malformations promotions | 3.9 | 3.0 | 4.2 |
| birth and other diseases of early infancy | 20 - 1 | ! | |
| birth and other diseases of early infancy | 39.5 3.2 | 36.9 | 89.4 |
| Suicide | 15.7 | 3.2 | 2.8 |
| lomicide | 3.7 | 16.2 2.8 | 6.6 19.7 |
| lolent and accidental deaths (suicide and homicide) | | ۳.٥ | 19.7 |
| excepted) Cause of death not specified or ill-defined | 64.9 | 63.4 | 92.7 |
| duse of denth not specified or ill-defined | 0.6 | 0.6 | 0.9 |
| All causes | 1029.2 | 998.5 | |
| | | | |

| | TABLE 16DEATHS (EXCLUSIVE OF SILLEBIKINS) BI CAUSES AND MONTHS OF DEATH: NEW JEASEL-LOSS | LLEIR | (au | N CAN | OED T | 4 | 7 | 100 | T ua | A | a company | 1001 | | |
|--------------------|--|-------|--------|----------|------------|---------|---|-------------------|----------------|-----------------|-----------|-----------------|----------------|------------|
| -80 190mu | | | | | | | MO | NTII (| MONTH OF DEATH | E | | | | |
| i Inter N 181.I | CAUSE OF DEATH | | | | | | | | | | 19 | | 39 | .10 |
| Abridge famoli | | IstoT | Tannat | Tebruari | Дэтер | [hq& | ylay | June | | 3suHu A | Septemb | Tedoten | фпэтоХ | ресешре |
| "" | Typhoid and paratyphoid fever | 88 | 1 | - | 71 | 61 | | - 87 H | 1- | ю | 1** | - 60 | eo : | ± : |
| 1004 | Shuallox | | - ¢1 | | :9 | :00 | :22 | : | : 7 | ::- | : : | : : | : 64 | : : |
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| 80 | _ | 900 | 33 | 41 | <u></u> | 22 | 17 | = | 9 | 9 | - | 10 | 16 | 87 |
| ۰ <u>۶</u> | Plague Tuberculosis of the resultatory system | 2038 | 110 | 163 | 180 | 102 | 15 | 100 | E | 158 | 121 | 1 | : 1 | 174 |
| = | | 13.5 | 3 2 | 212 | 18 | 77 | Ξ9 | - 8 | 91 | == | <u> </u> | 12 | 100 | 28 |
| 25 | Syphilis | 324 | Ñ | 1 | 3 | 5 | 2 | 4 | ¥ . | = | - | 1 | Ç : | 1 |
| 14. | | 8 | 26 | 22 | œ | 20 | 9 | 42 | ដ | 12 | 13 | F | 138 | 20 |
| 12 | · <u> </u> | 5213 | 459 | 403 | 420 | 457 | 472 | 418 | 423 | 4. | 433 | 420 | 415 | £ |
| 16 | Tumors, namualignant, or of which the nature is | 932 | 27 | 17 | 27 | 8 | 16 | 23 | 13 | 13 | 10 | 26 | 1.1 | 16 |
| 17 | Ü | # | eo | တ | ю | લ | es ; | 47 | 9 | ক | 10 | 4 | ন | ≈ 8 |
| 18 | _ | 1158 | 8 | 116 | <u> </u> | 104 | 5 | - | 800 | go | 8 4 | === | ă | 3 ¥ |
| 19 | Alcoholism (achte of chrome) | 929 | 3 | .19 | , <u>1</u> | 2 | 8 | 5 | 250 | 2 | 8 | 48 | 0 | 13 |
| 2 | _ | _; | -8 | ţ | - 5 | ; | - | Ţ | - | _, | , | ţ | ç | ç |
| ê | of the insune | +11 | 3 | 7 | 7 | 70 | 6 | = | 2 | 5 | 7 | = | 1 | 1 |
| i | Double and the second s | 3420 | 345 | 382 | 317 | 311 | 96: | 261 | 230 | 236 | 22 | 263 | 282 | 302 |
| 23 | <u>ō</u> | 32 | 45 | 48 | Ē | - 2 | Z | . 4 | - 6¥ | _ E | 82 | 15 | , S | 92 |
| . 96 | organs of apecial sense | 12002 | 1188 | 1268 | 11 | 1080 | 984 | ŝ | 840 | 35 | 840 | 923 | 963 | 1181 |
| . Ri | | 846 | 101 | | ਛ; | 10 ° | 7 | 200 | 27 | 32 | 5 | <u>g</u> ; | Ξ; | E . |
| 81 | Bronchitts | 11.00 | 200 | 398 | 385 | 286 | 237 | 124 | 71 g | o 6 | 6 | 7 | 181 | 356 |
| N | _ | - | ; | | - | | | | ? | ; | | | | |

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| 24.45 | | •• | | 19 | 11 | 120 | c <u>t</u> | 6 | 247 | 3456 |
| 888 | 12 | 223 | ۵ | = | 10 | 170 | 4 5 | 16 | 213 | 8820 |
| 82 85 | 4.5 | 217 | 9 | 11 | Ξ | ž, | | | 178 | 3017 |
| 8 8 8 | 25 | 37 53 | 30 | 13 | 9 | 135 | | | 206 | 2034 |
| 282 | 2 8 | 257 | 2 | 22 | 21 | 147 | 200 | <u>~</u> | 200 | 8223 |
| 52 83 83 | | •• | | 12 | œ | 100 | Š | 61 | 228 | 8323 |
| 38 | | | | 4. | 14 | 154 | | | 255 | 3800 |
| 15 | | | | 11 | 12 | 130 | | | 195 | 3886 |
| 888 | | | | 18 | 6 | 136 | | | 228 | 4166 |
| 283 | | | × | <u>ه</u> | · | 110 | | | 198 | 4081 |
| 72 S | | | | 11 | 6 | 142 | | | . 250 | 4228 |
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| Office diseases of the respiratory system (tuberculosis) but revenited) Appendictive and enteritis | Other diseases of the digestive system | Other diseases of the genitourhary system | Other diseases of pregnancy, childbirth and the | puerperal state Diseases of the skin and cellular tissue, and of | the bones and organs of locomotion | Sentity | Tomfeldo | Violent and accidental deaths (suicide and homi- | cide excepted) Cause of death not specified or III-defined | All causes |

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| Ohronie rheumatism | Males—White Mules—Colored | Females—Colored setes mellitus— | Total | Females—wate Females—Colored holism (acute or | Males—White Males—Colored Females—White Females—Colored Females—Colored | Total Total Total Trotal Trota | Total Male — White Male — White Fernales — White Fernales — White Fernales — White horal hemorrhage, and through the superingent for the superingent production of the superingent superingents | Males—White Males—Colored Fremsles—White Formsles—White Townsles—Colored Townsles—Colored Townsles—Ofthe | ectal sense— Total |
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| 8. S | earlet fever | 64 | 1 | | 1 | | 8 | | | i | | |] | |
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| 11. Ir | duenza | 309 | 18 | 10 | ····i | i | 15 19 | ···i | ····ż | | 2 | 1 | 1 | ••• |
| 12. Ci | holera | | | | | | | | [] | | | | | |
| 14. P | lague | 12 | | | • • • • | | | | | | • • • • | • | [| ••• |
| 15. E | rysipelas | 47 | i' | | | | 10 | i | 2 | | | | | • 2 |
| 16. A | cute poliomyelitis and acute polioencephalitis | | Ι. | l |] | | <u> </u> | | 1. | | | | İ | |
| 17. L | ethargic or epidemic encephalitis | 13 27 | 1 | | •••• | | 3 2 | | 1 | 1 | • • • • | • • • • | | • • • |
| 18, E | pidemic cerebrospinal meningitis | 20 | j | | | | | | | | | | | |
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| 21. R | abies | | | | | | | | | | | | | |
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| 25. T | nervous systemuberculosis of the intestines and perito- | 58 | 8 | 4 | ¦ | 3 | 6 | ļ <i></i> |] |] 1 | | | | |
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| 29. T | uberculosis of the lymphatic system | 1 4 | | | J | | J | | | | | | | |
| 30. T | uberculosis of the genitourinary system. uberculosis of other organs | 16 | | | | | 2 | | | 1 | | • • • | • • • | • • • |
| 32, D | isseminated tuberculosis | 50 | | i | | | 2 | 1 | | "i | l::: | | | |
| 33. L | eprosy yphilis | | | J | ļ | | | ļ <u>.</u> | (· · · · | · | | ٠٠. | ٠٠٠; | ٠٠: |
| | onococcus infection and other venereal | 824 | 28 | 19 | | 3 | 24 | , , | ٠٠٠٠ | 5 | | 1 | 4 | 4 |
| | diseases | 24 | | | | ļ | . 3 | | | | | | | |
| 36. F 37. Y | urulent infection, septicemia | 52 | 3 | | 1 | 1 | 10 | | ļ | ļ |] | | | 1 |
| 38. M | (alaria | | | 1:::: | | | | | | 1::: | | | | |
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| 41. E | [ydatid cysts | | | | ļ | | ···; | | · ···; | | | | • • • • | |
| 42. 0 | ther diseases caused by helminths | ĺ | š | | | | j | | | 1::: | | ::: | | |
| 43. M 44. O | ther infectious and parasitic diseases | 1 | | | | | | | | | | | | ١ |
| | ancer and other malignant tumors of the | <u> </u> | 4 | • • • • • | | | · [| | | | 1 | ••• | | ļ |
| 46. C | buccal cavity and pharynx | 163 | i 6 | (a | Į | 1 | 13 | i | . 8 | i | 1 | 1 | ļ |] |
| 40. € | ancer and other malignant tumors of the digestive tract and peritoneum | 2678 | 77 | 43 | ا ا | 1 4 | 263 | | 16 | 8 | 9 | | 13 | 26 |
| 47. C | ancer and other malignant tumors of the | 1 | 1 | 1 ~~ | 1 | 1 7 | 1 | 'n ' | " | 'n° | 1 " | * | 10 | 1 20 |
| 48. C | respiratory systemancer and other malignant tumors of the | 260 |){ 6 | 4 | | [| 21 | | .[2 | 3 | ļ | | 2 | ··· |
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| 49. C | ancer and other malignant tumors of | 1 | 1 | | 1 |] | 1 | " | 1 | 1 * | - | ١ | - | ٦ ا |
| 50 C | other female genital organs | 118 | i 4 | a | | ···· | 17 | 4 | ···· | | | | | 2 |
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| 51. C | ancer and other malignant tumors of the male genitourinary organs | ı | 1 | i | Ì | 1 | 1 | 1 ' | 1 | 1 | 1 - | 1 - | | Ι. |
| 52. C | ancer and other malignant tumors of the | 414 | 18 | • | 1 | 1 | 25 | ¦···· | . 2 | 1 | | 2 | | 1 |
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| 53. C | ancer and other malignant tumors of other or unspecified organs | 424 | 16 | 1,1 | 1 | , | 37 | | 2 2 | | | 1 | ١. | ١. |
| | outer or anobectuen organs | 1 225 | t 10 | 1 11 | | , , | 1 36 | 1 3 | -1 2 | 1 2 | 1 | 1 | 1 3 | , 2 |

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| 1. | Typhoid fever | | |] | | 2 | | | •••• | •••• | 1 | • • • • |
| 2, | Paratyphoid fever | | | | | | • • • • | • • • • • | • • • • • | •••• | | • • • • |
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| 6 | Typhoid fever Paratyphoid fever Typhus fever Relapsing fever Undulant fever Smallpox Measles Scarlet fever Whooping cough Diphtheria Induena Unyentery Plague Eryslpelas | | | | | | | | 1 | |] | |
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| 8. | Scarlet fever | | 1 | 1 | | 2 | | | | | 3 | |
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| 16. | Acute poliomyelitis and acute polioenceph- | | l | l | | ſ | | | | | | |
| 17. | alitis Lethargic or epidemic encephalitis | | 1 | i | | i | '''i | 1 | | | 1 | |
| 18 | Epidemic cerebrospinal meningitis | | 1 | | | 3 | | | |] | | |
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| | Anthrax (bacillus anthracis) malignant | | | ļ | į . | | Į | | | | , , | |
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| 21. | Rabies | | | | | | | | | | · · · i | |
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| 28 | Tuberculosis of the skin and subcutaneous | 1 | ĺ | [| 1 | | | | | |) 1 | |
| | cellular tissue | | | 1 | | | | | | | | |
| 29 | Tuberculosis of the lymphatic system | | | | | · · · · · · · · · · · · · | | | • • • • • | | | |
| : 30. | Tuberculosis of the genitourinary system. Tuberculosis of other organs | 1 | 1 | 1 | | | | | ١٠٠٠٠, | | | |
| 31. | | i | 1 | 1 | 1 | 10 | | | | | : | |
| 83 | Leprosy | ŀ | | | | | | 1 1 | | | i | 1 |
| 34 | Synhilis | 1 | [| | | | 1 | | | | 1 | |
| 35. | | 3 | | | 4 | | 1 | 3 | 1 | 1 | 1 4 | |
| | Gonococcus infection and other venereal | 3 | | | 1 7 | 61 | | 3 | 1 | 1 | 1 4 | |
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| 36. | Gonococcus infection and other venereal diseases | 3 | 1 | i | 1 7 | 61 | | l | i | 1 | 4 | |
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| 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. | Gonococcus infection and other venereal diseases Purulent infection, septicemia Yellow fever Malaria Gonococcus Other diseases due to protozoal parasites. Gridatid cysts Other diseases caused by helminths Mycoses Other infectious and parasitic diseases. Cancer and other malignant tumors of the buccal cavity and pharyax Cancer and other malignant tumors of the captage of the captage of the captage of the captage of the captage of the captage of the Cancer and other malignant tumors of the Cancer and other malignant tumors of the Cancer and other malignant tumors of the Cancer and other malignant tumors of | 1 15 3 | 4-1 | 46 | 25 | 18 267 31 53 | 9 | 1 27 4 | 1 9 | 17 | 45 3 | 5 4 |
| 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. | Gonococcus infection and other venereal diseases Purulent Infection, septicemia Yellow fever Malaria Other diseases due to protozoal parasites. Ankylostomiasis Hydatid cysts Other diseases caused by helminths Mycoaso Other infectious and parasitic diseases. Cancer and other malignant tumors of the buccal cartiy made to the disease can deep and parasitic diseases. Cancer and other malignant tumors of the capitatory system Cancer and other malignant tumors of the respiratory system Cancer and other malignant tumors of the nature of the capitatory system Cancer and other malignant tumors of the nature of the nature of the nature of the respiratory system Cancer and other malignant tumors of the nature of the nature of the nature of the remained of the remaine | 1 1 15 3 3 | 4.5 | 8 8 | 25 | 18 267 31 53 | 9 | 1 27 4 6 | 1 9 1 | 17 | 45 3 17 2 | 5 4 |
| 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. | Gonococcus infection and other venereal diseases Purulent Infection, septicemia Yellow fever Malaria Other diseases due to protozoal parasites. Ankylostomiasis Hydatid cysts Other diseases caused by helminths Mycoaso Other infectious and parasitic diseases. Cancer and other malignant tumors of the buccal cavity and pharyax Cancer and other malignant tumors of the respiratory system Cancer and other malignant tumors of the respiratory system Other tumors of the cancer and other malignant tumors of the other season of the cancer and other malignant tumors of the respiratory system Cancer and complete malignant tumors of the cancer and other malignant tumors of the heads | 1 15 3 | 1 44 4 | 8 8 | 25 | 18 267 31 53 | 9 | 1 27 4 6 | 1 9 | 17 | 45 3 17 2 | 5 4 |
| 36. 37. 38. 39. 41. 42. 43. 44. 45. 46. 47. 48. | Gonococcus infection and other venereal diseases Purulent infection, septicemia Yellow fever Malaria Other diseases due to protozoal parasites. Ankylostomiasis Purulent infectious and parasite diseases caused by belminths Mycosso Other infectious and parasitic diseases. Cancer and other malignant tumors of the buccal cavity and pharpax Cancer and other malignant tumors of the digestive tract and peritoneum Cancer and other malignant tumors of the respiratory system Cancer and other malignant tumors of the other cancer and other malignant tumors of the respiratory system Cancer and other malignant tumors of other femnie gential Cancer and other malignant tumors of the Cancer and other malignant tumors of the Cancer and other malignant tumors of the Cancer and other malignant tumors of the Cancer and other malignant tumors of the Cancer and other malignant tumors of the | 1 15 3 3 1 | 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4 | 46 8 8 | 25 4 4 10 8 | 18 267 31 53 10 47 | 9 | 1 27 4 6 6 7 | 1 9 1 1 5 | 17 1 2 2 | 45 3 17 2 5 | 5 4 |
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| Hudson County | Вяуоппе | Cuttenberg | Harrison | Hoboken | Jersey City | Кеагну | Secutions | Union City | West New York | Hunterdon County | Lambertville | Mercer County | Princeton | Trenton | Middlesex County | Carteret | Highland Park | New Brunswick | Perth Amboy | Sayrevillo | South Amboy |
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| 1 39 463 | 1 1 28 | | | 6 87 | 1 22 241 | 1 28 | | 2 | 1 1 21 | 1 | 7 | 2 8 105 | õ | 2 7 64 | 9 | | 2 | 2 22 | 1 25 | 7 | |
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| 63 | 7 | | 2 | 5 | 27 | , | | 11 | 8 | اء | 1 | 28 | 2 | 18 | 17 | 1 | 1 | 6 | 4 | - 1 | |

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| WAICH FULLOW: 1934_Cantinued | OF NEW JERSEY WHICH FOLLOW: | AND MUNICIPALITIES | OF 5,000 OR | MORE INHABITANTS | IN 1930. | (COUNTY |
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| Clifton City | Hawthorne | Passale City | Paterson | Salem County | Salem City | Somerset County | Bound Brook | North Plainfield | Somerville | Sussex County | Union County | Ellzabeth | Lhuden | Phinneld | Rahway | Posoffa | Brown P. D. D. | MISCING LINER | Summit | w estneta | Warren County | Phillipsburg |
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| 39 | s | 43 | 109 | 25 | 9 | 38 | 3 | 4 | 7 | 31 | 187 | 78 | 14 | 30 | 7 | 10 | 8 | ā | 10 | 32 | | 12 |
| 2. | | 1 | 9 | | | 4 | | 1 | I | 2 | 12 | 2 | | J | , | | l | i | 1 | | I. | |
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| υ,. | • • • • | ø, | 0 | 4]. | • • • •] | 7 | 1, | 3 . | •••• | 1 | 23 | 6) | ••••• | 4 | 8 | •••• | ••••• | 1 | 4 | 9 | | 5 |
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| TABLE 20DEATHS FROM EACH | CAUSE, DETAILED | INTERNATIONAL LIST, IN THE COUNTIES |
| | | FIGURES INCLUDE PLACES |

| = | | | | | | | PIG | TUKES | INC | - 6 D | E PL | AULS |
|-------------|---|-------------|----------------|-------------|-------------|-----------|----------------|-------------|--------------|--------------|--------------|----------------|
| | | | County | | | | , | | | | | |
| | | South River | Monmouth C | Asbury Park | Long Branch | l Bank | Morris County | 161 | Madison | Morristown | Ocean County | Passule County |
| | | So | N _c | Αsl | Lor | Red | M _o | Dover | Ma | M | မီ | E E |
| _ | Typhoid fever | Ī | | <u>.</u> | i — | İ | Τ. | | | | † | |
| 2. | Paratyphoid fever Typhus fever | 1:::: | 12 | | 5 | : :::: | | 2 | | 1 | lj | . 2 |
| 3. 4. | Relansing fever | | | | | | | | | | | |
| 5. | Undulant fever | | | | | ::::: | : ::::: | | | i | | |
| 6. 7. | Measles | | ļ | | | | | | | ļ | .] | |
| 8. | Scarlet fever | 1 :::: | 4 | | 1 | | } | 1 | | | | 1 |
| 9. 10. | Whooping cough | 1 | 1 1 | | | 1 | i | 1 | | | [] | 8 |
| 11. | Influenza | 1 | 10 | | | | 10 | | ····i | ļ···· | | 6 25 |
| 12. 13. | Cholera | | | | | | | 1 | | | | |
| 14. | Plague | | | | • • • • • | | . 1 | | | | | 2 |
| 15. | Erysipelas | | 3 | | 1 | | 3 | | | ļ | | 3 |
| 16. | Acute poliomyelitis and acute polioencephalitis | l | 1 1 | i | 1 | ļ | - | 1 | l | ! | | ļ |
| 17. | Lethargic or epidemic encephalitis | | î | | | | | | | | | i |
| 18. 19. | | | | | | | . 1 | | • • • • • | | ···· | 8 |
| 20. | Anthrax (bacillus anthracis) malignant | | | j | | | | | | | ļ | 1 |
| 21. | pustule Rables | | | | | | | | | | ļ | |
| 22. | Tetanus | | 1 | | | 1 |] | | | | | 2 |
| 23. 24. | Tuberculosis of the respiratory system Tuberculosis of the meninges and central | 2 | 94 | 10 | 13 | 6 | 42 | 5 | 6 | 4 | 14 | 134 |
| 27 , | nervous system | | 1 | | | l | 2 | | | | · | 3 |
| 25. | Tuberculosis of the intestines and perito- | | | ļ | [| | ١. | ļ | | | [| 3 |
| 26. | neum Tuberculosis of the vertebral column Tuberculosis of the bones and joints | | 1 | | | 1 | 1 | | | | l:::: | i i |
| 27. | Tuberculosis of the bones and joints | | 1 | 1 | | | | • • • • • | | | | 2 |
| 28. | Tuberculosis of the skin and subcutaneous cellular tissue | l | | l | ١ | ١ | | | | | | 1 |
| 29. | Tuberculosis of the lymphatic system | | ····- | ; | | | 1 | | | | | 1 |
| 30. 31. | Tuberculosis of the genitourinary system Tuberculosis of other organs | 7 | 2 | | | | | | • • • • • • | | | 1 |
| 32. | Disseminated tuberculosis | | 2 | | | | | | | | 1 | 3 |
| 33. | Leprosy Sypnilis | | 19 | 5 | 3 | 4 | 6 | | | | 3 | 20 |
| 35. | Gonococcus infection and other venereal | | | | | ĺ | | | | _ | | |
| 36. | diseases Purulent infection, septicemia | :::: | 1 | | | | 1 | l::::: | | 1 | l | 1 |
| 37. | Yellow fever | | | | | | [<u>.</u> | | | | | |
| 38. 39. | Malaria Other diseases due to protozoal parasites | 1111 | • • • • • | | | | | | ••••• | • • • • | | |
| 40. | Ankylostomiasis | | | | | ļi | | | , | | | |
| 41. 42. | Hydatid cysts | | ····i | | | | | | | | | l:::: |
| 43. | Mycoses | | | | | | | | | | | |
| 44. 45, | Other infectious and parasitic diseases Cancer and other malignant tumors of the | | • • • • • • | • • • • • | • • • • • | | | • • • • • | | •••• | • • • • • | |
| | buccal cavity and pharynx | | 5 | 1 | 1 | 1 | 3 | | | | 1 | 14 |
| 46. | Cancer and other malignant tumors of the digestive tract and peritoneum | 4 | 110 | 10 | 18 | 10 | 78 | 3 | 6 | 17 | 31 | 228 |
| 47. | Cancer and other malignant tumors of the | | | | 2 | | | | | ٠,١ | | 17 - |
| 48. | respiratory system | 1 | 15 | 4 | 2 | 1 | s | | 1 | 1 | •••• | |
| | uterus | | 22 | 2 | • • • • • [| 2 | 12 | 1 | •••• | 2 | 8 | 53 |
| 49. | Cancer and other malignant tumors of other female genital organs | | 2 | 1 | ! | | 1 | | 1 | | 1 | 6 |
| 59. | Cancer and other malignant tumors of the | '] | ĺ | .] | | | | | | 2 | ام | 35 |
| 51. | breast | • • • • • | 22 | 4 | 1 | • • • • • | 25 | 1 | 1 | - 1 | 4 | |
| | male genitourinary organs | 1 | 17 | 1 | 1 | 2 | 12 | | 2 | 2 | 10 | 32 |
| 52. | Cancer and other malignant tumors of the | | 5 | | | 1 | 3 | | | | 3 | 6 |
| 53. | skin | | -1 | | | | 20 | 3 | 2 | 4 | 4 | 26 |
| | other or unspecified organs | | 16 | • • • • • | 3 | 1 | 20 | 3 | 21 | #1 | 4 | 40 |

TABLE 20.—DEATHS FROM EACH CAUSE, DETAILED INTERNATIONAL LIST, IN THE COUNTIES FIGURES INCLUDE PLACE.

| | <u> </u> | | | | | | | | | | | | | _ |
|----------------------|--|-----------------------|-----------------|---------------|-----------|---------------|--------------------|-------------|--|-------------|----------|----------------|---------------------------------------|------------|
| | | State Total | Aflantic County | Atlantic City | Hammonton | Pleasantville | Bergen County | Bergenfleld | Cliffside Park | Englewood | Fairview | Fort Lee | Garfield | Hackensack |
| | Nonmalignant tumors | 162 | 7 | 4 | 1 | | 23 | 1 | 2 | 2 | ••• | | 3 | |
| 56. 57. | fied | 70 118 44 | 3 2 | 2 2 | | | 10 4 | 2 | | 1 | | ! ! | | |
| 59. 60. | Gout Diabetes mellitus Scurvy | 1158 | 40 1 | 20 | i | 5 1 | 82 | <u>2</u> | 5 | 3 | 4 | 6 | 4 | 2 |
| 62. 63. | Beriberi Pellagra Rickets | 12 8 | 2 1 | 2 | | | | | | | | | | • • • • |
| 65. | Osteomalacia Diseases of the pituitary body Diseases of the thyroid and parathyroid | 1 1 | 1 | 1 | | | | | · · · · · · · · · · | | | | ··· | |
| 68. | glands Diseases of the thymus gland Diseases of the adrenals Other general diseases | 123 56 10 | | | 2 | | 12 6 1 | | $\begin{vmatrix} 2 \\ \dots \end{vmatrix}$ | 1 | | | | 1 1 |
| 70. 71. | Hemorrhagic conditions Anemias Leukemias and pseudoleukemias | 15 15 94 160 | • 3 | 1 | | | 1 4 5 20 | 2 | _i | 1 1 2 | ••• | • • • | ••• | |
| 73. 74. | Diseases of the spleen | 21 | 1 | 1 | | | 3 | | • • • • | | | | 2 | î |
| 76. | Alcoholism Chronic poisoning by other organic substances | 100 | 12 | 12 | | | 2 1 | | | | | • • • • • • | | 1 |
| 78. 79. | Chronic poisoning by mineral substances Eucephalitis | 53 76 | | | | | 2 2 6 | | | | • • • | | · · · · · · · · · · · · · · · · · · · | i |
| 81. | Progressive locomotor ataxia Other diseases of the spinal cord Cerebral hemorrhage, cerebral embolism and thrombosis | 30 89 3420 | 3 | 2 | 7 | | 6 | | | | | | | |
| 84. | General paralysis of the insane Dementia praecox and other psychoses Epilepsy | 144 52 70 | 6 | 5 1 | | 17 | 238 7 6 7 | 9 | 2 | | | | 18 1 | 23 1 |
| 86. 87. 88. | Convulsions (under 5 years of age) Other diseases of the nervous system Diseases of the organs of vision | 11 123 2 | 7 | 6 | | | 10 | | | | | | | |
| 90. | Diseases of the ear and of the mastoid process | $\frac{112}{20}$ | | | | 1 | 10 4 | 1 | | | 1 | | 1 | 3 |
| 92. 98. | Diseases of the myocardium | 140 1849 6339 | 89 | 55 | 4 | | | 1 12 | 17 | 9 | 4 13 | 5 15 | 9 19 | 11 34 |
| 95. | Diseases of the coronary arteries and angina pectoris Other diseases of the heart Aneurysm | 1797 1947 67 | 68 94 4 | 59 | 3 | 10 8 1 | 186 114 6 | 4 | 1 0 | 4 | 3 | 5 6 | 8 12 | 7 4 |
| 97. 98. | Arterio sclerosis Gangrene Other diseases of the arteries | 640 24 72 | 17 3 | 6 2 | 1 | | 51 | 5 | 1 | 2 | | 1 | 1 | |
| 100. 101, 102. | Diseases of the veins | 19 4 17 | 1 | | | | ₁ | | | | | | 1 1 | |
| 104. 105. | Other diseases of the circulatory system. Diseases of the nesal fossae and annexae Diseases of the larynx Bronchitis | 23 15 142 | 1 | | | : | 5 1 8 | | | | | | | |
| 107. | Broncho pneumonia Lobar pneumonia | 1085 1603 | 49 | 30 | | 3 | 68 | 2 | | | | 2 3 | 9 | 1 6 11 |

| Lodi | North Arlington | Ridgefield Park | Ridgewood | Rutherford | Wallington | Burlington County | Bordentown | Burlington City | Camden County | Audubon | Camden City | Collingswood | Gloucester City | Haddonffeld | Cape May County | Cumberland County | Bridgeton | Millville | Vineland | Essex County | Belleville |
|-----------|-----------------|-----------------|------------|------------|------------------|---------------------------|------------|-----------------|--------------------------------|---------|--------------------------|--|-----------------|-------------|--------------------|-------------------|-------------------|-----------|--------------|------------------------------|---|
| 2 | 1 | 2 | | | | 2 | 1 | | 7 | 1 | 1 | | | 2 | | | | | | 30 | 1 |
| | ; | | | ···· | 1 | 2 1 | 1 | | 5 5 | | 1 3 | | i | |] 1 | 2 | | 1 | | 17 28 | 1 |
| | | | | | | | | | | | | <u>.</u> | | | [| | | <u>-</u> | | 237 | |
| | 1 | 3 | 3 | 6 | 2 | 38 | | | 64 | 3 | 35 | $\begin{vmatrix} 2 \\ \dots \end{vmatrix}$ | \cdots | | 20 | 25 | | | 6 | | |
| | | | | | | | | | :::; | | | | | | | | | | | 2 | |
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| _ | | Bloomfield | East Orange | Irvington | Montelair | Newark | Nutley | Orange | South Orange | West Orange | Gloucester County | Woodbury |
| 54. 55. | Nonmalignant tumors | 2 | i | Ī | 3 | 15 | | | | | 3 | 1 |
| 57. | fied | 3 | 1 1 | 1 3 | 1 | 9 17 4 | | 1 | Ϊ | i | 3 | |
| 58. | Gout | | | į | | | | | | | | |
| 60. | Diabetes mellitus | 11 | 19 | 11 | 12 | 131 | 5 | 5 | 4 | 7 | 18 | 3 |
| 61. | Beriberi | | | | | | | • • • • | | · · · • | • • • • | • • • • |
| 62. | Beriberi Pellagra | | 1 | 1::::: | 1 | i | | | | | | |
| 63. | Rickets | | | | | | | | | | | |
| 64. | Osteomalacia | | | | | | | | | | | |
| 66 | Diseases of the pituitary body | • • • • | | | | | | | | | | |
| ٠٠. | glands | 1 | , | 1 | ١, | 10 | , , | | | ٠. | | |
| 67. | Diseases of the thymus gland | | | i i | | | | | | | 1 | |
| 63. | Diseases of the adrenals | | · | · | | 1 | | | | | ii | |
| 70 | Other general diseases | | | | | 3 | | | | | 1 | |
| 71. | Anemias | | | | • • • • • • | 1 6 | | 1 | | • • • • | 1 | |
| 72. | Leukemias and pseudoleukemias | 1 1 | 4 | | 1 | 17 | | 2 | •••• | ···i | 21 | |
| 73. | Di eases of the spleen | | . | | 1 | | | | | î | 1 | |
| 74. | Other diseases of the blood and blood- | | | Į. | ĺ | [] | | | i | | - | |
| 75. | making organs Alcoholism | | | | | 2 | | | •••• | | | |
| 76. | Chronic poisoning by other organic sub- | | | 1 4 | ., | 12 | • • • • • | 1 | •••• | 1 | 2 | |
| | Chronic poisoning by other organic sub- stances | | | | | | | | | | | |
| 77. | Chronic pol oning by mineral substances | • | | | | | | | | | | |
| 79. | Eucephalitis Meningitis | | | 1 | | 6 | | | | 2 | 2 | |
| 80. | Progressive locomotor ataxia | ···· | 1 | 1 | | 8 | | | | | •••• | • • • • |
| 81. | Other diseases of the spinal cord | | | | 1 | 7 | | | | • • • • • | 1 | • • • • |
| 82. | Cerebral hemorrhage, cerebral embolism | | | | 1 | | i i | | ` î | | | |
| 88 | and thrombosis | 32 | 72 | 83 | | 347 | 13 | 25 | 18 | 15 | 70 | 10 |
| 84, | Dementia praecox and other psychoses | 2 | 1 | ; 2 | 1 | 18 | | 2 | | 1 2 | 1 | |
| 80. | Epitensy | | | 2 | | . 7 | | | | 2 | : | |
| 86, | Convulsions (under 5 years of age) | | | | 1 | | | | | 7 | أأ | |
| 87. 88. | | | 2 | 4 | | 15 | 3 | 1 | 2 | | 1 | |
| 89. | Diseases of the organs of vision | •••• | | | | | | | | | | |
| | process | 1 1 | | 5 | j., i | 13 | | | i | | ا. | |
| 90. | l'ericarditis | | 1 | | | 1 | | ا ا | | | | |
| 91. | Acute endocarditis | 1 | | | [1] | 17 | 1 | 1 | 1 | | 5 | |
| 93. | Di eases of the myocardium | 21 47 | 27 127 | 13 81 | | | 10 | | 6 | 15 | 43 | 4 |
| 94. | Diseases of the coronary arteries and an- | | | 01 | 64 | 577 | 21 | 55 | 22 | 36 | 119 | 16 |
| | ana pectoris, | 21 | 55 | 23 | 24 | 222 | 4 | 26 | 14 | 20 | 28 | 6 |
| 95, | Uther diseases of the heart | 11 | | 16 | | 309 | 4 | 13 | 5 | 7 | 19 | 5 |
| 97. | Aneurysm Arterio selerosis | 6 | 9 | 3 | | | 1 | |] | | | |
| 98. | Gangrene | | | 1 | | 64 | 4 | 7(| 2 | 2 | 12 | |
| 99. | Other diseases of the arteries | | 1 | . | 1 | 9 | 1 | | | | ; | |
| 190. | Diseases of the veins | | 1 | 1 | | 4 | | | 1 | | | |
| 102. | Diseases of the lymphatic system | • • • • • | | | [| · · · · <u>·</u> | | [|] | | | |
| 103. | | **** | | | | 1 | | •••• | | • • • • | | • • • • |
| 104. | Disease; of the nasal fossae and annexae | 1 | | 1 | | 2 | | | | ····i | | • • • • |
| 105. | Diseases of the nasal fossae and annexae | ···· <u>·</u> | | | | 1 | | | | | | |
| | Broncho pneumonia | 2 6 | 6 13 | | | 14 | 2 | 5 | | 1 | 3 | |
| 108. | Lober preumonia | 14 | 30 | 12 | 11 | | 3 5 | 11 21 | 1 | ก | 22 | 1 2 |
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| 20 20 216 287 | | | 1 | (| i. | | (: | | : | | | ; | | :::: | 2 | [| :::: : | | 1 | :::: · | ···i |
| -4) | 7 | • • • • •] | : | الياسا | · · • <u>•</u> J | 1]. |] . | ي] . | · • • • j • | •••• | | 19 | •••• | 1 9 87 52 | . 1 | | [. | [. | | ! . | |
| 20 | 1 5 20 32 | 2 2 | 2 6 4 | 1 26 28 | 8 117 125 | 1 2 3 15 | 5 5 | 2 10 35 | 11 22 | 18 | | 12 52 75 | ! | 9 | 7 89 78 | 11. | 1 | 8 21 | 1. | | |

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| _ | | South River | Monmouth County | Asbury Park | Long Branch | Red Bank | Morris County | Madlson | Madison | Morristown | Ocean County | Pussule County |
| | Nonmalignant tumors | | ((| 2 | | | 3 | 1 | | | | 11 6 |
| 56. 57. | fied | :::: | 1 4 3 | i | 1 | | 2 2 1 | | | | 2 | 5 |
| 59. | Gout Diabetes mellitus | | 54 | 5 | 9 | 3 | 44 | 3 | 3 | 8 | 12 | 75 |
| 61. | Scurvy Beriberi | | | | | | | | | | | |
| 62. 63. | Pellagra Rickets | ···; | | | | | | | | | | 1 |
| 64. | Osteomalacia | | | | | | | | | | | |
| 65. 66. | Diseases of the pituitary body Diseases of the thyroid and parathyroid | | | ••••• | | | | | | | | |
| 67 | glands | | 3 | | 1 | | 6 | | 1 | 1 | 2 | 9 |
| 68. | Diseases of the thymus gland | | | | | | | | (| | | ī |
| | Other general diseases | | 3 | 1 | | | ····i | | | | | · · i |
| 71. | Anemias Leukemias and pseudoleukemias | 1 | | 1 | 2 | | 2 | | | | 2 | 10 17 |
| 73. | Diseases of the spleen | | | | | | | | | | | 2 |
| 74. | Other diseases of the blood and blood- making organs | | 1 | | l | | | | l | | | 2 |
| 75. 76. | Alcoholism Chronic poisoning by other organic substances | | 1 | | | | | | | | 2 | 9 |
| 77. | Chronic poleoning by mineral substances | | | | | | 2 | | | | | |
| | Encephalitis | | 1 | | | | | | | | 2 | 5 |
| | Progressive locomotor ataxia Other diseases of the spinal cord | | | | | | 1 2 | | | 1 | 2 | 47 |
| | Cerebral hemorrhage, cerebral embolism | | | 24 | | 12 | 1 (| | | - | | 225 |
| 83. | and thrombosis General paralysis of the insane | | 178 S | | | | 5 | | | 23 | 51 2 | 13 |
| 84. | Dementia praecox and other psychoses | | 1 6 | - 1 | | • • • • • | 3 | 1 | | 1 2 | 2 | 5 3 |
| 86. | Epilepsy Convulsions (under 5 years of age) | · · · i | | | | | | | | |] | ì |
| | Other diseases of the nervous system Diseases of the organs of vision | | 10 | | | 2 | | | | | | |
| | Diseases of the ear and of the mastoid process | | 1 | 1 | | | | | | | - 1 | ٥ |
| 90. | Pericarditis | | 1 | | | | | | | | 1 | 3 |
| 91. 92. | Acute endocarditis | 2 | 96 | | 11 | 1 5 | 65 | ···ii | | 6 | 1 40 | 122 |
| 98. | Diseases of the myocardium | 9 | 276 | 23 | 24 | 27 | 228 | 21 | 16 | 33 | 51 | 361 |
| | Diseases of the coronary arteries and angina pectoris | 3 | 93 | 9 | 7) | | | 5 | 6 | 13 | 21 | 99 |
| 95. 96 | Other diseases of the heart | 2 | 121 | 18 | 14 | 6 | 32 2 | 1 2 | | 10 | 18 | 135 |
| 97. | Arterio sclerosis | | 31 | 7 | 4 | 1 2 | 19 | 1 | 1 | 2 | 21 | 63 |
| 99. | GangreneOther diseases of the arteries | | 3 | | 1 | | | | | | | 3 |
| | Diseases of the veins | | | | ::::: | | ::::: | | | :::: | :::: | 1 |
| 102. | Idiopathic anomalies of the blood-pressure. | | 1 | | 1 | ::::: | | |) | | • • • • | • • • • |
| 104. | Other diseases of the circulatory system Diseases of the masal fossae and annexae | | | | | | | | | | | 3 |
| 105. | Diseases of the larynx | ····i | 2 5 | _i | i | ::::: | i | | | | 3 | 1 10 |
| 107. | Broncho pneumonia | 1 5 | 42 | 5. 4 | 8 | 3 | 28 57 | 2 5 | 2 6 | 3 | 8 | 81 96 |
| 108. | Lobar pneumonia | ગ | 00; | 4. | 0) | 9 | 911 | 9 | · · | 1 | 9 | <i>8</i> 0 |

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| 1 | Clifton City | Hawthorne | Passale City | Paterson | Salem County | Salem City | Somerset County | Bound Brook | North Plainfield | Somerville | Sussex County | Union County | Elizabeth | Linden | Plutnfleld | Rahway | Roselle | Roselle Park | Summit | Westfleld | Warren County | Phillipsburg |
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| | | State Total | Atlantic County | Atlantic City | Hammonton | Pleasantville | Bergen County | Bergenfield | Cliffside Park | Buglewood | Fairvlew | Fort Lee | Cardeld | Huckensack |
| 110 | Pneumonia, unspecified | 114 100 | | 1 2 | ····i | 1 | 8 | | 2 | 1 | | i | | 2 1 |
| 112 113. 114. | infarct, and thrombosis of the lungs | 59 6 58 | 4 | 4 2 | | | 3 6 1 8 | | 1 | 1 | | 1 | i | 1 |
| 117. 118. | Diseases of the esophagus | 250 66 224 | 12 3 | 12 2 | 1 | 1 | 17 3 | :::: | i | i | | | 1 1 | |
| 121. 122. 123. 124. 125. 126. | age) Diarrhea and enteritis (2 years and over) Appendicitis Hernia, intestinal obstruction Other diseases of the intestines Cirrhosis of the liver Other diseases of the liver Billiary calculi | 113 511 395 66 378 48 172 | 10 8 22 10 3 12 2 | 6 9 5 1 6 | <u>2</u> 1 | 1 2 2 | 52 37 6 86 | 2 | 1 1 2 3 | 1 2 3 1 | i | 1 1 1 | 1 7 1 2 | 3 3 |
| 128. 129. | Other diseases of the gall-bladder and bill- ary passages Diseases of the pancreas Pertionitis, cause not specified Acute nephritis (including unspecified under lo years of age) Chronic nephritis | 88 27 23 151 3192 | 12 130 | 2 1 6 63 | 1 | 18 | 10 1 2 | ····i | | | 1 | | 1 | 1 |
| 132. 133. | Nephritis, unspecified (10 years and over). Other diseases of the kidneys and ureters (puerperal diseases excepted) | 166 97 39 | 111 | 5 4 | . | 3 | 249 8 8 | | 1 | | | 8 1 | 1 | 18 |
| 136. | Calculi of the urinary passages Disenses of the bludder Diseases of the urethra, urinary abscess, etc. | 24 15 | 1 2 | 1 1 | | | 1 | | | | | | | 1 |
| 138, | Diseases of the prostate Diseases of the male genital organs, not specified as venereal Diseases of the female genital organs, not | 235 8 | | | | | 16 | | | | | | | |
| 140. | specified as venereal | 112 61 10 | 4 1 | 3 | | | 9 2 | :::: | · · · · | ::: | ::: | ::: | ::: | • • • |
| 143. 144. 145. | Ectopic gestation Other accidents of pregnancy Puerperal hemorrhage Puerperal septicemia | 16 4 37 54 | ···i | 3 | | | 2 3 | i | 1 | | | | | |
| 147. 148. | Puerperal albiminuria and eclampsia Other toxemias of pregnancy Puerperal phlegmasia alba dolens, embolus, sudden death Other accidents of childbirth | 36 13 20 43 | 1 2 1 | 1 | | 1 | 2 1 | | | | | | 1 | ::: |
| 150. 151. 152. | Other and unspecified conditions of the puerperal state Furuncle carbuncle Phlegmon, acute abscess | 11 32 | | | | | 1 2 | | 1 | :.: :::: | | | | |
| 154. | Other diseases of the skin and annexa, and of the cellular tissue Osteomyelitis Other diseases of the bones (tuberculosis excepted) | 22 41 14 | 1 | i | | | 1 2 1 | i | i | 1 | | ::: : | | |
| | Diseases of the joints and other organs of locomotion Congenital malformations | 11 323 | 15 | 5 | i | 1 | 3 25 | i | 2 | 1 | 1 | 1 | 1 3 | 3 |

| | NEW | JE! FOL | | | | UNIC Contin | | LITI | ES 0 | F 5,0 | 00 0 | R M | RE | INH | ABIT | TANT | S 11 | 193 | 0. | (COV | NTY |
|-------|-----------------|-----------------|-----------|------------|---------------|--------------------------------|--------------|-----------------|---|---------|------------------------------|---------------------------|-----------------|-------------|------------------|--------------------------------|------------------|------------|----------|---|----------------------------|
| Lodi | North Arlington | Midgefield Park | Ridgewood | Rutherford | Wallington | Burlington County | Bordentown | Burlington City | Camden County | Audubon | Camden City | Collingswood | Gloucester City | Haddonfield | Cape May County | Cumberland County | Bridgeton | Millyllle | Vineland | Besex County | Belleville |
| 1 | | | | | | 1 6 | ₁ | : | 15 9 | :::: | 7 6 | _i | _i | | | 3 4 | 2 | | 1 | 30 | _i |
| i | i | | | 1 | i | 1 1 | | | 5 1 3 | i | i | | 1 | | 1 | 1 3 | 1 | i | | 8 14 | |
| | :::: | | | 2 | :::: :::: | 6 6 6 | | i | 15 16 3 | :::: | 9 | i | 1 | 2 | 3 | 6 1 | 1 | 3 | | 36 2 47 4 | 2 2 |
| 2 2 | 2 | 2 1 | 2 | 1 1 | 3 | 6 3 5 11 5 | 1 | 1 ::::i | 13 5 24 23 3 21 4 14 | | 7 15 12 2 9 1 | 1 1 1 2 1 | 3 | 1 1 1 | 7 3 1 2 | 8 2 4 9 5 1 | 2 2 2 3 | 1 4 | 1 | 42 20 136 79 10 88 13 49 | 1 2 4 1 1 2 |
| | 1 | :::: | 1 | | | 3 2 1 | | i | 6 1 2 | | 2 | i | | | 2 1 | 1 1 1 | 1 | :::: | | 12 6 7 | 1 |
| 4 | <u>5</u> | 8 | 16 1 | 21 | | 114 5 | 4 | | 21 | 10 | 14 136 9 | 18 | 20 | 3 6 | 3 27 1 | 82 82 | 22 | 14 14 | 1 12 | 656 30 | 2 <u>1</u> |
| | | | | 1 | | | | :::: | 11 1 2 | | 4 | :i | 2 | :::: | 1 2 1 | ···i | | | :::: | 17 11 2 | |
| | 1 | i | | :::: | : | 7 | | ···i | ė | | 5 | :::: | 1 | ···i | i | 5 | 8 | | ···i | 35 35 | |
| | | | 1 | 1 | | 2 2 | 1 | | 10 | | 5 | 1 | 1 | 1 | 5 1 | 1 2 | 1 | | | 20 10 | |
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| ···.i | :: : | | | ::: | | 1 2 | | 1 | 1 2 | :: | 1 | | | | :::: | 3 | ··i | | ::: | 3 8 | |
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| :::: | ::: : | ::: : | -:: | :::: : | | :::: | ::: : | | :::: : | ::: | :::: : | ::: : | | ::: | ::: | ··i : | ::: : | ::: | ··i | 8 11 | ::: |
| 1 . | | · i | | | | 1 . | ···i | 4 | 21 | | 13 | 2 | 1 | | 3 | 1 9 | 1 . | | | 2 54 | |

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| | | Bloomfield | East Orange | Irvington | Montelair | Newark | Nutley | Orange | South Orange | West Orange | Cloncester County | Woodbury |
| 110. | Pneumonia, unspecified | | 1 | 1 | 1 | 21 8 | | 4 | | | 3 2 | |
| 112. | Congestion, edema, embolism, hemorrhagic infarct, and thrombosis of the lungs Asthma | ··· _i | | _i | 1 | 4 7 | 1 | ₂ | :::: | i | _i | |
| 114. | Pulmonary emphysema Other diseases of the respiratory system. Diseases of the buccal cavity and annexa and of the pharynx and tonsils | | ····i | | i | 10 20 | | :::: | | | 3 | ···· |
| 117. 118. | Diseases of the esophagus | i | 5 1 | 3 | 1 | 26 26 2 | | i | | 1 1 | 7 2 | 3 |
| 120. 121. 122. | age) Diarrhea and enteritis (2 years and over) Appendicitis Hernia, intestinal obstruction | 5 6 | 1 1 9 7 | 1 7 4 | 2 8 3 | 32 13 86 44 | 2 3 | 4 4 | i | 3 1 | 4 3 8 4 | |
| 124. 125. 126. | Other diseases of the intestines Cirrhosis of the liver Other diseases of the liver Biliary calculi Other diseases of the gail-bladder and blii- | ₂ | 8 1 5 | 11 1 6 | 4 1 1 | 6 44 8 27 | | 1 6 2 1 | i | 4 2 | 2 8 2 1 | |
| 128, 129. | ary passages Diseases of the puncreas Peritonitis, cause not specified Acute nephritis (including unspecified under | | <u>.</u> 3 | | i | 5 4 3 | ····i | :::: | i | | 4 1 1 | i |
| 132. | 10 years of age) Chronic nephritis Nephritis, unspecified (10 years and over) Other diseases of the kidneys and ureters | 38 | 52 2 | 57 | 42 1 | 14 337 18 | 1 16 1 | 22 3 | ···- | ``ii | 103 5 | 20 1 |
| 134. 135. | (puerperal diseases excepted) Calculi of the urluary passages Diseases of the bladder Diseases of the urethra, urluary abscess, | 1 1 | 1 | 2 | ·····ģ | 11 7 2 | | | i | | 2 1 3 | |
| 137. | etc. Diseases of the prostate Diseases of the male genital organs, not | , 1 | 3 | | 1 2 | 22 22 | ···i | ···i | ···i | ···i | 2 | . 2 |
| | specified as venereal | | 2 | 1 | 1 | 12 | 1 | 2 | | | | |
| 141. | Abortion with septic conditions | | 1 | 1 | | 1 | | 1 | | | 1 | |
| 142. 143. | Ectopic gestation | 1 | ::::: | | | ····i | :::: | | :::: | | :::: | |
| 145. | Puerperal hemorrhage | | | | | 6 5 2 | 1 | | | | 2 | |
| 147. | Other toxemias of pregnancy | | • • • • | •••• | | 2 | •••• | • • • • | • | •••• | | • • • • |
| 149. 150. | sudden death | 1 | | | 2 | 4 | :::: | | | | 2 | ···i |
| | puerperal state Furuncle, carbuncle Phlegmon, acute abscess | :::: | 1 | ; | | | :::: | :::;] | | :::: | | • • • • |
| 153. | Other diseases of the skin and annexa, and of the cellular tissue | | | | 1 | 3 | | 3 | 1 | | | • • • • • |
| 155. | Osteomyelitis Other diseases of the bones (tuberculosis excepted) | | | | | 8 | | | | | | |
| | Diseases of the joints and other organs of locomotion Congenital malformations | 1 2 | | 3 | | 1 28 | i | 2 | | i | 12 | 3 |
| | | | | | | | | | | | | |

| WH | CH | FOL | LOW | : 19 | 34(| ontir | ued | | | | | | | | _ | | | | | | |
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| Hudson County | Вауонне | Guttenberg | Harrlson | Hoboken | Jersey City | Кеагпу | Secuncus | Union City | West New York | Hunterdon County | Lambertville | Mercer County | Princeton | Trenton | Middlesex County | Carteret | Highland Park | New Brunswick | Perth Amboy | Sayreville | South Amboy |
| 7 21 | | | i | 1 4 | 5 7 | 1 | _i | 2 | | _i | :::: | 8 | :::: | | 6 1 | i | :::: | | 2 | | :::: |
| 9 9 2 10 | 1 3 | | | 1 1 2 | 6 5 1 3 | 1 | | i i ; | ₂ | 8 1 | 1 1 | 1 1 | | 1 1 | 8 3 1 2 | | | :::: | 2 1 1 | | |
| 26 1 44 7 | 2 7 | 1 | | 3 | 13 | 2 3 | | 4 1 | 2 i | 2 | :::: | 10 | 1 1 | 4 3 | 7 10 3 | 2 1 | | 3 | 2 1 | | 1 |
| 56 24 73 63 16 83 4 28 | | 1 | 2 1 1 | 4 22 4 6 2 7 2 | | 9 2 3 3 | 1 2 | 10 3 | 1 7 4 1 1 3 1 | 4 2 3 4 4 1 2 | | 13 2 8 20 20 177 2 4 | 1 - | 7 1 8 14 2 13 2 2 | | 1 1 2 1 | 3 1 | 1 1 5 1 3 1 | 1 4 5 2 | 1 1 1 1 | 2 |
| 13 1 4 | 1 | | | ···i | | | | :::: | ::: <u>:</u> | | :::: | 5 1 | ! | 1 | :::: | | | : | | | |
| 17 381 28 | 39 39 | 10 | 10 1 | 2 24 3 | 171 15 | 27 | <u>4</u> | 36 3 | 19 1 | 5 26 4 | 7 | 13 145 5 | i | 100 2 | 11 125 6 | 7 | 3 | 14 14 | 36 3 | 4 | 3 |
| 13 7 7 | 2 1 | | | i | 4 | i | | 2 | | :::: | | 1 1 1 | | 1 1 1 | | : : | | 1 1 | | | :::: |
| 38 38 | 5 | | | ···i | 20 | 1 | 2 | 5 | ···i | 5 | 2 | 16 | ···i | 9 | 1 10 | 1 | | 2 | 1 | :::: | :::: |
| 26 8 | 2 | 1 | | | 14 5 | 1 | | i | 4 | 3 2 | | 5 6 | 1 | 3 4 | 4 2 | :::: | | 1 | ····i | :::: | |
| 6 1 9 10 5 2 | 2 2 4 | | 1 2 | 1 1 | 3 1 3 1 | 1 2 | | 1 | 1 1 1 | 1 | | 1 4 4 | i | 3 | 1 1 3 1 2 | 1 | | 1 1 | i | | |
| 4 4 | ₁ | | :::: | <u>i</u> | 2 1 | :::: | :::: | 2 1 | | i | | 1 5 | | 1 4 | 1 8 | _i | :::: | | :::: | :::: | ····; |
| 3 8 | _i | | :::: | | 1 6 | :::: | :::: | ₁ | :::: | :::: | | i | | :::: | ···i | :::: | :::: | :::: | ::: | ::: | |
| 5 7 | i | | :::: | | 4 5 | :::: | | 1 1 | :::: | | :::: | 1 | | 1 1 | 1 4 | | :::: | | 1 2 | | :::: |
| 4 | 1 | | | | | | | | 1 | | | 2 | •••• | 1 | 8 | 1 | | 1 | | | |
| 48 | 5 | | 1 | 5 | 23 | 2 | 2 | 3 | 3 | 2 | 1 | 24 | | 10 | 15 | 1 | 1 | 4 | 5 | اا | •••• |

TABLE 20.—DEATHS FROM EACH CAUSE, DETAILED INTERNATIONAL LIST, IN THE COUNTIES FIGURES INCLUDE PLA

| - | | | | | | | 2101 | DEED | INCL | UDE | PLE | L, |
|--|---|-------------|------------------------------------|-------------------|-----------------------|------------------|-------------------------|-------------|-------------|--------------|-----------------|--------------------------------------|
| | | South River | Monmouth County | Asbury Park | Long Branch | Red Bank | Morris County | Dover | Madison | Morristown | Ocean County | Passufe County |
| 109. 110. | Pneumonia, unspecified | | 3 8 | | _i | 1 | 3 | | | _i | 4 | 6 8 |
| 111. 112. 113. 114. | Congestion, edema, embolism, hemorrhagic infarct, and thrombosis of the lungs. Asthma Pulmonary emphysema Other diseases of the respiratory system. Diseases of the buccal cavity and annexa | "i | 2 2 2 3 | 1 | ::::: | | 1 1 1 | | | 1 | 1 | 1 4 2 |
| 117. 118. | and of the pharynx and tonsils Diseases of the esophagus Ulcer of the stomach and duodenum Other diseases of the stomach Diarrhea and enteritis (under 2 years of | | 8 10 |] | i | 1 1 | 5 1 | | 2 1 | | 3 1 1 | 14 1 23 7 |
| 121. 122. 123. 124. 125. | age) Diarrhea and enteritis (2 years and over) Appendicitis Hernia, intestinal obstruction Other diseases of the intestinas Citrhosis of the liver Other diseases of the liver Biliary calculi | 1 1 | 4 6 21 13 1 16 2 | 1 1 1 | 1 1 4 1 2 | 1 2 1 2 | 23 13 4 8 2 | 2 1 1 | 7 1 1 | 4 3 2 | 8 8 5 | 11 10 39 83 5 17 2 |
| 127. 128. 129. | Other diseases of the gall-bladder and bili- ary passages Diseases of the pancreas Peritonitis, cause not specified Acute nephritis (including unspecified under 10 years of age) | | 1 1 6 | | 1 | | 4 1 2 | 1 | | | | 9 2 3 |
| 132. 133. 134. | Orthorn appurits Nephritis, unspecified (10 years and over). Other diseases of the kidneys and ureters (puerperal diseases excepted). Calculi of the urinary passages Diseases of the bladder. | | 166 7 5 3 | 11 2 2 1 | 32 | 12 1 | 109 3 4 1 | 13 | | 13 | 10 1 | 193 9 9 2 2 |
| 137. 138. | Diseases of the urethra, urinary abscess, etc. Diseases of the prostate Diseases of the male genital organs, not specified as veneral | :::: | 2 17 | 1 1 | 2 | | 13 | | i | 2 | 2 | ···żō |
| 140. | Diseases of the female genital organs, not specified as venereal | :::: | 6 4 | | 2 | ₂ | 1 | ::::: | | 1 | :::: | 5 2 |
| 142. 143. 144. 145. 146. 147. | Abortion without mention of septic condi- tions Ectopic gestation Other accidents of pregnancy. Puerperal hemorrhage Puerperal septicemin Puerperal albuminuria and eclampsia Other toxemias of pregnancy Puerperal pilegmasia alba dolens, embolus, | | 2 1 3 1 | i | | | 1 1 2 1 | i | i | | 1 | 2 5 4 6 4 |
| 149. 150. | Purperar pineguasia and unitars, emotions, sudden death Other accidents of childbirth Other and unspecified conditions of the puerperal state Furuncle, carbuncle Phlegmon, acute abscess | · · i | 2 2 1 | | i | | | | | | | 6 1 |
| 153. 154. | Other diseases of the skin and annexs, and of the cellular tissue | | 1 2 | | | | 2 2 | | | 1 | | 1 5 |
| 155. | Other diseases of the bones (tuberculosis excepted) | | 1 | 1 | | | | | | | | 2 |
| | locomotion Congenital malformations | :::: | 14 | 2 | 2 | | 8 | ····ż | j. | ··i | 3 | $\frac{1}{24}$ |

WHICH FOLLOW: 1934-Continued County County City City Somerville ទី Somerset Flizabeth Westfield Passale Sussex Roselle Salem Union 11 1|.... 11.... 3 18 3 ... i ... 23 5 12 25 22 5 8 16 26 12 2 34 12 23 17 12 29 169

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|--------------|---|-------------|----------------|----------|-----------|---------------|---------|---------------|----------|-----------|-----------|----------|----------|------------|
| | | - | County | City | l e | ě | County | - I | Park | _ | | | | 按 |
| | | State Total | | | Hammonton | Pleasantville | | Bergenfield | | Englewood | l e | Lee | Ξ | Huckensack |
| | | 5 | Atlantic | Atlantle | 8 | มหม | Rergen | T. Hard | CHffslde | gler | Fairview | Fort I | Garfield | cke |
| | | Sta | \ - | Αŧ | <u>#</u> | Ĕ | å | ng. | 5 | 튑 | Fa | <u>چ</u> | 5 | Ē |
| | | 81 | -,, | 10 | | | 6 | | | 1 | | 1 | | ; |
| 159. | Congenital debility | S44 | 15 40 | 27 | 1 | ···i | 48 | | i | 2 | | 2 | 1 | 1 |
| | Injury at birth | 262 165 | $\frac{7}{7}$ | 5 4 | | 1 | 14 | • • • • • | 1 | 3 | | | 2 | |
| 162. | | 138 | 5 | 5 | | • • • • | 2 | • • • • | | • | • • • • | | • • • | |
| 164. | sorption of corrosive substances | 70 197 | 4 | 3 | 1 | | 5 21 | | | 1 | • • • • | | | |
| 165. | Suicide by hanging or strangulation Suicide by drowning | 141 | 8 | 1 | 1 | 2 | 11 | | i | ī | | ; | 2 | 1 |
| 167. | Suicide by firearms | 31 158 | 1 6 | 1 | :::: | | | | 2 | | | | 2 | 2 |
| 168. 169. | Suicide by cutting or piercing instruments Suicide by jumping from high places | 28 31 | 1 | :::: | :::: | | 3 | | | 1 | | ::: | i | ::: |
| 170. 171. | Suicide by crushing | 8 | 3 | 2 | | :::: | 2 | | | | | | ::: | ::: |
| 172. 173. | Infanticide | 10 60 | 3 | | | • • • • | 1 5 | • • • • | •••• | | •••• | | ··; | |
| 174. | Homicide by cutting or piercing instru- | 27 | 1 | | | 1 | , | | | , | | | | |
| 175. | ments | 52 | 4 | 3 | | 1 | 1 | | 1 | | · · · · | | | |
| 176. 177. | Attack by venomous animals | 9 | | | | :::: | :::: | | | | | | | |
| 178. | Accidental absorption of poisonous gas Other acute accidental poisonings (gas ex- | 113 | 10 | 9 | 1 | • • • • • | 10 | • • • • • | •••• | | •••• | | 1 | |
| | cepted) | 40 51 | 2 | 1) |] | 1 | 2 | 1 | | :::-) | | · · · | | |
| 181. | Accidental burns (conflagration excepted). Accidental mechanical suffocation | 131 27 | 3 | 2 | •••• | | 12 | 1 | | 1 | •••• | | | 1 |
| 183. | Accidental drowning | 234 21 | 4 | 2 1 | | | 23 4 | 2 | | | 2 | 1 | 2 | |
| 185 | Accidental traumatism by firearms Accidental traumatism by cutting or pierc- | 1 : | Ī | 1 | | •••• | 2 | • • • • • | •••• | | • • • • | 1 | | ļ |
| 186a | ing instruments Accidental traumatism by fall Accidental traumatism by crushing, land- | 730 | 33 | 16 | · i | 6 | 65 | | 2 | 2 | 2 | 2 | 3 | 4 |
| 1861 | Accidental traumatism by crushing, land- slide | 1179 | 46 | 21 | 5 | 1 | 86 | 4 | 2 | 2 | 4 | 2 | | 5 |
| 187. 188. | Cataclysm | 3 | | :::: | :::: | | | | | | • • • • | | ::: | ::: |
| 189. | Hunger and thirst | 1 29 | 2 | 2 | | | | | | ···i | • • • • | | ::: | ::: |
| 191. | slide Catactysm Injuries by animals Hunger and thirst Excessive cold Excessive heat Lightning | 15 | | | | | 1 | • • • • | | | • • • • | | ::: | l::: |
| 193. | Accidents due to electric currents | 20 99 | 5 | | | 1 | 6 | | | | | • • • | • • • | |
| 194. 195. | Violent deaths of which the nature is un- | 30 | اً | 2 | 1 | 1 | | | -! | | | | | |
| 196. | | | | | | | | | | | | | | ::: |
| 198. | Execution of civilians by belligerent armies Legal executions | 1 | |) | | | | | | | • • • • | | | |
| 199. 200. | Sudden death | 25 | ···i | | ! | ::::j | 2 | | | | | ::: | ::: | 1 |
| | Total | 43547 | 1801 | 1021 | 85 | 155 | 3394 | 103 | 139 | 155 | 78 | 92 | 222 | 231 |
| Su | pplemental Tabulation of Certain Types of Violent and Accidental Deaths, 1934 | l | | | | | | | | | | | | |
| 201. | Accidents in mines and quarries | 4 | | •••• | • • • • | •••• | •••• | • • • • | •••• | | | • • • | | ··· |
| 203. | Accidents from agricultural machinery Elevator accidents | 7 | | | :::: | | | | | | | | | |
| | Accidents from machinery used for recre- | | اا | | | | | | | | | | | |
| 206. | Other machinery accidents | 17 26 | 2 | | 2 | ::::] | 1 | | | | | ::: | ::: | |
| 208. | Other railroad accidents Street car and automobile collisions | 98 | 1 | :::: | | :::: | | 1 | :::: | :::: | | ::: | | |
| 209. | Other street car accidents | 1026 | 41 | 19 | 3 | _i | 78 | 3 | 2 | | <u>.</u> | ••• | 6 | 1 |
| 211. | Motorcycle accidents Other land transportation accidents | 16 11 | 1 | i |] | | |] | | | | ::: | :::] | |
| 912 | Water transportation accidents | 53 | î | i | | | 3 | | | | | | | |
| 214. | Air transportation accidents | 0; | • • • • • • | | | 1 | | • • • • • • • | •••• | ••••] | • • • • • | | • ! | <u></u> . |

| Lodi | North Arlington | Ridgeffeld Park | Ridgewood | Rutherford | Wallington | Burlington County | Bordentown | Burlington City | Camden County | Audubon | Camden City | Collingswood | Gloucester City | Hnddonffeld | Cape May County | Comberland County | Bridgeton | Millyllle | Vineland | Essex County | Rollowillo |
|-------------|-----------------|-----------------|-----------|------------|-----------------|-----------------------|------------|------------------|-------------------------|---------|-------------------|----------------|------------------|-------------|----------------------|------------------------|------------------|-----------------------|----------------|--|------------|
| 1 1 2 | 1 | | | i | 2 2 3 | 28 5 5 15 | | 2 1 | 6 57 17 10 | 1 1 | 3 27 6 4 | 1 | 1 6 2 1 | | 4 3 1 3 | 3 22 9 4 5 | 12 4 1 | 2 3 2 1 3 | 2 | 7 186 44 28 21 | |
| | 1 | 1 | 1 | 1 2 | 1 | 2 2 1 1 4 | | 1 1 | 7 10 5 4 | i | 3 4 1 3 | 3 1 | | i i | 1 2 2 3 | 3 1 5 | 2 | 1 1 | | 21 48 30 3 24 5 9 1 | |
| | | | 1 | | | 2 2 | | 1 | 1 2 | | 1 1 1 1 | | | | 1 1 2 | 3 5 | i | i | 1 3 | 8 11 20 | |
| 1 | 1 | 1 | i | | | 1 2 6 1 5 | | 1 1 1 1 | 2 1 11 20 3 | | 10 10 10 | 1 | 3 | | 3 | 1 2 2 8 1 | 1 1 1 3 | 1 | | 10 9 19 9 25 2 | |
| i 4 | 1 1 | 2 1 | 4 1 | 4 1 | 3 | 15 36 | | 1 6 | 54 80 | · i | 23 29 | 3 6 | 6 3 | 2 1 | 4 7 | 15 18 | 3 | 4 | 1 3 | 164 201 | |
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|-----|-----|-----|-----|----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-------|----|-------|-----|-----|-----|----|-----|------|-----|-----|----|-----|-----|-----|-----|-------|----|-----|----|-----|-----|-------|-----|--------------|-----|-----|-----|-----|-----|
| ٠. | ١. | ٠. | ٠. | ŀ | ٠. | ٠ | ٠. | ٠. | ŀ | • | • • | ٠. | ٠. | ļ., | • • • | | • • • | ١٠. | | ١٠٠ | | | | | | | | | | | | | | | | | | | | | | | | ٠١٠ |
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| | ı i | | | 1 | | - 1 | | | 1 | | - 1 | | i | 1 | 1 | 1 | | 1 | i | | 2 | ١ | ٠. | | | | | ł | | | | | | f | | í | | - 1 | | - 1 | | :: | | il. |
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| _ | | Bloomfield | East Orange | Irvington | Montelair | Newark | Nutley | Orange | South Orange | West Orange | Gloucester County | Woodbury |
| 158 | . Congenital debility | ! | ١. | | ļ | | | | , | | | |
| 159 | . Premature birth | 5 | 11 | 7 | 4 | | 3 | 7 | 1 | 7 | 16 | 2 |
| 160 | . Injury at birth | . 3 | i 4. | 3 | 1 | 24 | 1 | 3 | | | 5 | 1 |
| 162 | Other diseases peculiar to early infancy . Senility | 1 2 | 1 | 1 | 1 | 17 13 | 1 | 2 1 | ···; | 1 | 6 | • • • • |
| 163 | . Suicide by solid or liquid poisons or by sh- | . 1 | | | | 1 | | ^ | 1 | | | • • • • |
| 3 64 | sorption of corrosive substances | 1 | | 1 | 1 | | 2 | | 1 | ا يـ ٠ ٠ ٠ | 1 | 1 |
| 165 | Suicide by hanging or strangulation | 2 | 6. | 3 | 1 | 24 18 | 1 | 3 | | 1 | 1 | 2 |
| 166 | Suicide by hanging or strangulation Suicide by drowning Suicide by drowning Suicide by drowning | 1:::: | | | | 3 | | | i | | i | ····i |
| 167 | Suicide by firearms | 2 | 2 | 2 | | 9 | 1 | | | | 5 | |
| 169 | Suicide by cutting or piercing instruments. Suicide by jumping from high places | | ۱۰۰۰۰٫ | | | 4 | | | | | 1 | • • • • |
| 170 | Suicide by crushing | | | | | 1 | | | | | | |
| 171 | Suicide by other means | | | | | | | | | | [| |
| 173 | Homicide by firearms | | | | • • • • • | | | • • • • • • | | •••• | • • • • | |
| 174 | Homicide by cutting or piercing instru- | - | | | | | | - 1 | | | | |
| 175 | Homicide by other many | | | | • • • • • | 7 9 | | 1 | :::: | | 3 | |
| 176 | Attack by venomous animals | | | 2 | | 9 | | | | | | |
| 177 | Poisoning by food | | | | | | | | | | | |
| 179 | Suicide by drowning Suicide by frearms Suicide by frearms Suicide by prearms Suicide by cutting or piercing instruments Suicide by jumping from high places Suicide by crushing Suicide by other means Infanticide Homicide by frearms Homicide by entiting or piercing instruments Homicide by other means Attack by venomous animals Poisoning by food Attack by venomous animals Poisoning by food Accidental absorption of poisonons gas Other acute accidental poisonings (gas excepted) | 3 | | | 1 | 11 | 1 | 2 | • • • • | 1 | 1 | |
| | cepted) | 1 | | 1 | | s | | | اًأ | |] | |
| 100. | Commagration | | | ! | | 6 | 11 | 2 | | | 3 | 2 |
| 182 | cepted) Conflagration Accidental burns (conflagration excepted) Accidental mechanical suffocation Accidental drowning | | + | 1 | •••• | 13 | | . 1 | | | 3 | • • • |
| 183. | Accidental mechanical suffocation Accidental drowning | 1 | 1 | 13 | ·····i | 20 | i | | | | 1 | |
| 184. | Accidental traumatism by firearms | | | 1 | | 1 | | | | [| 1 | 1 |
| 100. | ing instruments | | | i | | , , , l | | | 1 | ļ | - | |
| 136 | Accidental traumatism by fall | 10 | 11 | G | 6 | 104 | . 4 | S | 1 | 4 | 14 | 3 |
| 1001 | slide | | 10 | 19 | ا | 700 | ~ | ! | _ | _ | 20 | |
| 187. | Cataclysm | | | | | 193 | | 14 | | | | * |
| 188. | Hunger and thirst | | • | |] | | | ! | | ! | ! . | |
| 190. | Excessive cold | | ••••• | | ••••• | | •••• | •••• | • • • • | • • • • | | |
| 191. | Excessive heat | | | | | | | \ | | | 2 | |
| 193. | Accidents due to electric currents | | | [| • • • • • [| | [| | | • • • • [| ٠٠٠:[٠ | ••• |
| 194. | Other accidents | | 2 | | | 5 | | | •••• | • • • • | 21 | 1 |
| 195. | Violent deaths of which the nature is un- | 1 | - 1 | i | 1 | Ĭ | - | 7 | | | 1 | ••• |
| 196. | Wounds of war | | 2 | - | • • • • • | 5 | | 1 | | 1 | • • • • • | • • • |
| 197. | Execution of civilians by belligerent armies | | | | | | | | | | | |
| 198. | Legal executions | | | |] | 1) |] | | ! . | . | | |
| 200. | Cause of death not specified or ill-defined | | | | | 4 | | | ····· | | | |
| | Total | 364 | 726! | 5011 | 407 | 4817 | 167 | 405 | 1371 | 217 | 860. | 126 |
| Su | Accidental burns (confagration excepted). Accidental mechanical suffocation Accidental traumatism by firearms Accidental traumatism by firearms Accidental traumatism by cruting or piero- confagration of the state | | | | | | | | | | • | _ |
| | Violent and Accidental Deaths, 1934 | | | | | | | | | | | |
| 201. | Accidents in mines and quarries | | | . | | | | ! | | | | |
| LUQ. | Accidents from agricultural machinery Elevator accidents | | · · · · · | | • • • • • • | | | | - | • • • • • • | | |
| 204. | Accidents from machinery used for recreat | - 1 | 1 | | | 1 | | ٠٠٠٠/ | | | | • • • |
| | action | | | . | | . اچ | | · · · · • • • • • • • • • • • • • • • • | | | | |
| 205. | Other machinery accidents Railroad and automobile collisions Other railroad accidents | | | ····ii: | | 2 | | | | | 1 . | |
| 207. | Other railroad accidents | 1 | īΙ. | 1 | | 6 | 1 | 3 | 1 | | 2 | î |
| 209. | Other street car accidents | - | ٠٠٠; ا | | { | . إر | [- | ••• - | | ٠إ٠ | [- | |
| 210. | Automobile accidents (primary) | | Si. | ···ii | 14 | 95! | 2 | 11 | 4 | 5 | 34 | |
| 211. 212 | Other railroad accidents Street car and automobile collisions Other street car accidents Automobile accidents (primary) Motorcycle accidents Other street car accidents Other street |). | . [بِ |]. | | 1). | |). |]. | | 34 | |
| 213. | Other land transportation accidents Water transportation accidents Air transportation accidents | | | | | 1. | . | | | - | ; - | ••• |
| 214. | Air transportation accidents | | î. | | | 3 | | :::1: | ::: : | | | |
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| Hudson County | Вауоппе | Guttenberg | Harrison | Hoboken | Jersey City | Kearny | Secaucas | Union City | West New York | Hunterdon County | Lambertville | Mercer County | Princeton | Trenton | Middlesex County | Carteret | Ilighland Park | New Brunswick | Perth Amboy | Sayreville | South Ambor |
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| 10, 23, 17, 5, 19, 1, 1, | 1 1 2 1 2 1 2 | | 1 | 1 1 | 6 9 8 2 8 2 1 | 1 3 1 1 1 1 | | 2 2 3 1 2 | 1 3 1 | 7 | | 2 12 2 1 1 | | 2 9 5 1 4 2 1 | 3 7 15 3 7 2 1 | 1 | 1 1 1 | 2 2 3 1 1 1 2 | 1 2 | 1 | |
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| 11 | | 1 -1 3 | 2 | 1 | 1 | | 1 | ٠٠٠٠)٠٠ | | |
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| | | South River | Menmouth County | Asbury Park | Long Branch | Red Bank | Morris County | Dover | Madison | Morristown | Ocean County | Passule County |
| 160. 161. 162. | Congenital debility Premature birth Injury at birth Other diseases peculiar to early infancy Senility | i | 30 6 4 12 | 1 | | 3 2 | |] . | 1 1 | | 11 11 2 | 18 18 |
| 164. 165. 166. 167. 163. 169. 170. 171. | Sulcide by solid or liquid potsons or by absorption of corrosive substances. Suicide by poisonous gas Suicide by hanging or strangulation Suicide by farearms Suicide by firearms Suicide by cutting or piercing instruments Suicide by cutting from high places Suicide by crushing Suicide by crushing Suicide by other means Infanticide | | 3 19 3 1 13 5 | | 1 | 1 | 2 4 3 1 3 1 | 1 | i | 1 1 | 1 1 7 1 | 111 3 2 |
| 175. 176. 177. 178. | Homicide by firearms Homicide by cutting or piercing instru- ments Homicide by other means Attack by venomous animals Poisoning by food Accidental absorption of poisonous gas Other acute accidental poisonings (gas ex- cepted) | | 1 3 | 2 | 1 | 1 | 1 7 | 1 | | 1 | 1 i | 3 6 8 |
| 181. 182. 183. 184. 185. | Configration Accidental burns (configration excepted) Accidental mechanical suffocation Accidental drowning Accidental traumatism by firearms Accidental traumatism by cutting or piere- ling instruments Accidental traumatism by cutting or piere- | 1 | 4 8 3 19 2 2 | 1 3 1 1 | 1 | 1 2 | 4 5 4 | 1 | 1 | 1 | 2 3 6 1 | 3 11 20 2 |
| 186b 187. 188. 189. 190. 191. 192. | Accidental traumatism by crushing, land- slide Cataclysm Injuries by animals Hunger and thirst Excessive cold Excessive heat Lightning Accidents due to electric currents | 6 | 59 2 1 | | | 1 | 43 | 8 | 1 | 2 1 | 17 2 | 73 1 |
| 194. 195. 196. 197. 193. 199. | Other accidents Violent deaths of which the nature is un- known Wounds of war Execution of civilians by belligerent armies Legal executions Sudden death. Cause of death not specified or ill-defined | | 5 | 1 | | | 8 1 | | | 1 | 1 | 1 |
| | Total | 63 | 2032 | 222 | 230 | 154 | 13 35 | 122 | 96 | 207 | 501 | 2935 |
| 202. 203. 204. 205. 206. | Accidents in mines and quarries Accidents from agricultural machinery Elevator accidents Accidents from machinery used for recreation Other machinery accidents Railroad and automobile collisions | | 1 | i | | | 1 1 | | | | · · · · · · · · · · · · · · · · · · · | 1 2 |
| 207. 208. 209. 210. 211. 212. | Other rullroad accidents Street car and automobile collisions Other street car accidents Automobile accidents (primary) Motorcycle accidents Other land transportation accidents Water transportation accidents | 6 | 54 1 | 2 3 | 4 | 1 2 | 39 | 6 | 1 | 3 | 12 3 | 57 1 5 |

| WH | NEW ICH | JEI FOLI | OW: | AN 198 | D M 34—C | ontir | ned | LITE | ES 0: | F 5,0 | 000 O | R M | ORE | HKI | ABIT | TANT | S IN | T 193 | 0. | (COU | NTY |
|----------------------|------------|------------------------------------|----------------------------------|------------------------|-------------------------|-------------------|-------------|------------------|----------------|-----------------------|--|-----------------------|-----------------|------------|------------------|--------------|--------------|-----------------|-----------|----------------------------|--------------|
| Clifton City | Hawthorne | Passale City | Paterson | Salem County | Salem City | Somerset County | Bound Brook | North Plainfield | Somerville | Sussex County | Union County | Flizabeth | Linden | Plainfield | Rahway | Roselle | Roselle Park | Summit | Westfield | Warren County | Phillipsburg |
| 1 10 5 2 | 1 | 1 13 2 3 5 | 2 14 10 5 8 | 1 12 1 1 2 | 2 | 15 6 2 2 | 1 2 | i | 2 1 | 1 8 4 1 2 | | | 3 5 5 | 9 4 | 3 1 3 2 | 2 1 3 | 1 | 1 1 1 | 4 1 | 1 13 2 1 2 | 2 1 1 |
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| 11 | 4 | 15 1 1 | 1 | 13 2 1 4 | 1 | 24 | | 7 | | 18 | 91 1 1 | 31 1 1 | 9 | 11 | 6 | 1 | 1 | 1 | 2 | 12 1 1 | 1 |
| 380 | 105 | 548 | 1487 | 1 488 | 129 | 1 1 | 66 | 110 | 98 | 376 | 8 2 6 | 3 | 1 1 1 | 412 | 156 | 1 117 | 80 | 1 | 138 | 1 | 1 |
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| | | | | | TA | BLE 2 | L.—DE | ATHS | BY O | CUPA: | TIONS |
|--|--|--|--|-------------------------------|----------------------------|---|--|------------------------|-----------------------------------|-----------------------|-------------------|
| | | AGRICULTURE, FORESTRY AND ANIMAL HUSBANDRY | Parmers | Furm laborers | Fishermen and oystermen | Gardeners, florists, fruit growers and nurserymen | Other agricultural and animal husbandry pursuits | BXTRACTION OF MINERALS | Forumen, overseers and Inspectors | Miners | Quarry operatives |
| g 5 7 60 | to 19 to 29 to 39 to 49 to 59 to 69 to 60 and over | | 1 2 1 2 7 1 2 2 2 2 | 1 2 2 2 2 | 1 2 | 3 3 1 | 2 | | | 1 1 1 1 3 | 1 1 1 |
| malliam 50 | to 19 to 29 to 39 to 39 to 49 to 59 to 59 and over | | 1 4 9 29 31 13 | 1 2 4 4 1 1 | 2 2 5 2 | 1 4 9 10 6 2 | 1 1 | | | 1 | 1 1 |
| strong system and of the organs of the organs of special sense | to 19 to 29 to 30 to 30 to 39 to 49 to 59 to 59 to 69 to 69 and over | | 3 7 11 29 54 27 | i | 3 2 2 2 | 2 | i 1 | | | | 1 |
| ctreu 8ys 90 90 90 | to 19 to 29 to 39 to 39 to 30 to 50 to 50 to 60 to 60 and over | | 1 13 27 76 113 95 | 2 5 11 9 17 10 | 1 1 3 5 2 6 | | 1 1 1 1 3 | | 1 | 3 2 1 2 1 | |

| AND | AGE G | ROU | PS, I | NEW | JER | SEY | , 193 | 4 | | | | | | | | | | | | | |
|--|---|---|--|--|-----------------------------------|--|---|--|-----------------------|---------------------------------------|-------------------------------------|----------------------|---|---|------------------|--|-----------|---|--------------------------------------|---|---|
| MANUFACTURING AND MECHANIGAL INDUSTRIES | Bakers | Uncksmiths, forgemen and hammermen | Bollermakers | Brick and stone masons | Bullders and building contractors | Carpenters, coopers and cabinet makers | Compositors, Ilhotypers and typesetters | Dressmakers and seamstresses (not in factory) | Dyers | Electricians and electrical engineers | Bugineers (stationary) | Bugravers | Filers, grinders, buffers and polishers (metal) | Piremen (except locomotive and fire department) | Glasshowers | Jewelers, watchmakers, goldsmiths and silversmiths | Laborers— | General and not specified | Bullding and hand trades | Chemical industries | Clay and stone industries (excepting potteries) |
| | 2 2 2 1 1 1 7 7 10 3 3 22 3 1 1 1 1 2 2 S S | 1 1 1 5 5 2 2 2 7 7 5 5 1 1 1 1 5 5 2 2 2 1 1 1 1 1 | 22 2 2 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 13 5 3 2 2 13 5 9 | 1 1 1 2 2 3 3 3 2 2 4 5 6 6 | 40 40 40 41 41 41 41 41 41 41 41 41 41 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 12 11 11 12 11 12 13 13 13 13 13 13 14 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | 1 | 22 11 23 33 11 | 22 6 5 100 9 9 1 333 | 1 | 3 3 1 2 2 3 3 3 | 3 4 3 | 2 2 2 1 1 2 2 | 1 1 2 2 3 3 2 2 2 3 3 13 | | 2 35 52 57 37 37 208 1 1 1 4 4 29 72 56 27 57 195 195 | 3 3 1 1 3 1 7 7 | 1 3 3 3 3 4 4 5 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5 1 1 2 2 |
| | 1 | 5 8 12 15 6 | 1 2 5 3 2 | 1 3 10 8 15 14 8 | 21 11 16 22 7 | 1 3 16 38 64 83 52 | 1 1 1 | 2 1 1 6 9 5 | 2 4 2 4 6 | 3 3 8 10 2 | 1 3 8 19 36 18 12 | 1 2 2 2 | 2 4 4 3 | 2 3 7 6 15 6 | 1 1 2 2 | 2 3 7 15 9 3 | | 1 11 35 103 158 191 146 61 | 1 6 3 7 | 3 3 2 1 | 1 1 2 2 |

TABLE 21 .- DEATHS BY OCCUPATIONS AND

| | | | | TABI | E 21 | .—DI | ATH | IS BY | 7 000 | UPAT | IONS | AND |
|--|-----------------------|--|--------------------|-----------|-------------------|--------------------|----------------------------------|-------|--|---|--------------------------------|---|
| | Class industries | Iron, steel and other metal industries | Lonther industries | Potterles | Rubber industries | Textile industrics | Other industries | | Machinists, millwrights and foolmakers | Managers, superintendents and foremen manufacturing) | Manufacturers and officials | Mechanics (gunsmiths, locksmiths, wheelwrights, etc.) |
| 10 to 19 to | 1 | 1 | 1 | | 1 1 | 1 1 | | | 3 6 1 6 2 | 4 1 1 | 2 | 5 3 1 2 |
| Use the state of t | | 1 | 1 | | 2 | 1 1 | 1 1 3 1 1 | | 20 15 20 17 17 4 | | : 2 | 1 3 4 1 2 |
| und of the man of the | 1 | 2 | | 1 | . 1 | <u> </u> | 4 2 2 1 1 | | 2 4 13 17 11 5 | | 8 | 1 4 3 2 1 3 14 |
| at to 19 20 to 29 20 | 1 1 1 1 1 | 2 | 2 3 | 2 1 | <u> </u> | 1 4 | 2 5 7 8 5 1 28 | | 28 7 16 28 38 39 10 | | 2 4 16 21 22 10 | 5 7 |

| Milliners (grain, flow), freed, etc.) | = | 1 . | _ | | | T | T | 1 | | | | - | 1 | | | | | | = | |
|---|------------------------------------|---------------------------------|--------------------------------|---|------------------|------------------|-----------------------------------|---------------------|---------------------|--------------------------|-----------------------------------|---------------------|-----------------------------|---|-----------------------|-----------------------|------------------|--|--------------------|---------------------------------|
| 1 12 37 1 2 13 5 32 5 3 1 14 1 1 8 1 | Millers (grain, flour, feed, etc.) | Milliners and millinery dealers | Monlders, founders and casters | Painters, glaziers, varnishers, enamelers, etc. | Рарстиливетя | Phaterers | Plumbers and gas and steam Atters | Pressmen (printing) | Roofers and shaters | Semi-skilled Operatives- | Industry not stated | Chemical industries | Cignr and tobacco factories | Clay and stone industries (excepting potteries) | Clothing industries | Food Industries | (Hass industries | Iron, steel and other metal industries | Leather industries | Lumber and furniture industries |
| 1 | | 1 | | 1 | 1 | 1 | | 2 1 | | | 1 | | 1 | | 3 | | 1 | <u></u> | | |
| | 1 | 1 | | 1 8 | 1 1 1 | 2 1 | | | 2 | | 1 : | 1 1 | | 2 1 | 1 | 1 1 3 5 1 | | 1 10 18 9 2 | 6 7 4 1 | 1 2 3 2 |
| 1 1 1 1 2 3 1 2 5 3 2 | 1 | 1 | 1 1 1 | 3 4 10 10 10 2 | 2 | i | 1 3 2 5 5 | 6 5 2 | 2 | | 1 1 2 5 3 | 2 3 7 | 1 1 1 | 1 1 1 | 1 2 3 6 3 | 2 1 3 | 2 1 | 1 2 5 4 8 6 3 | 2 5 1 1 | i |
| 4 3 22 152 9 10 60 40 10 44 28 9 8 59 22 14 81 30 14 | 1 1 1 2 | 1 | 2 8 5 6 | 1 4 | 1 1 3 3 | 2 3 2 1 | | | | | 3 2 4 6 15 10 4 | | 2 | | 5 2 6 | | | 2 3 11 22 24 14 5 | 3 6 8 | 4 4 6 |

| | | | | TAB | LE : | 21.—DE | ATHS | BY C | CCUPA | TIONS | AND |
|--|---|-------------------|--------------------------------|---------------------------------------|------|--|--------------|-------------------------|---------------------------|--------------|---|
| | Potteries | Rubber industries | Textile industries | Other industries | | Shoemakers and cobblers (not in factory) | Stonecutters | Tailors and talloresses | Thomiths and coppersmiths | Upholsterors | Other manufacturing and mechanical industries |
| Totals 10 to 19 10 t | 2 4 2 1 | 1 2 1 | 12 6 8 5 1 | 3 11 4 6 3 5 | | 2 | 1 | 1 | | | 2 4 1 7 |
| 10 to 19 20 to 20 20 to 29 20 to 20 20 | 1 4 | 1 1 1 | 1 14 14 21 15 1 | 1 2 7 .9 9 7 | | 1 3 5 2 2 2 | 2 2 2 | | <u>.)</u> | 1 | 1 1 |
| et a care of the moral of the m | 2 6 1 | 2 | 17 5 3 | 2 1 2 4 3 13 1 1 | | 4 2 2 2 6 3 | 1 1 2 1 | <u> </u> | 2 6 2 4 1 | 2 | 1 |
| ## 10 to 19 | 1 2 2 5 1 2 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 | | | | ł | 11 4 11 13 7 47 | | 1 | - | I | 12 |

| TRANSPORTATION | Water- | Boatmen, canalmen, saflors and deck hands | Longshoremen and stevedores | Other pursuits | Road and Street | Carriage and hack drivers, draymen, teamsters and expressmen | Chaufeurs | Contractors and foremen (road building) | Garage keepers and managers | Laborers (road building) and street cleaners | Livery studle keepers and managers, hostlers and stable hands | Other pursuits | Itallroad- | Baggagemen and freight agents | Втакешеп | Conductors | Foremen, overseers and inspectors | Laborers | Locomotive engineers | Locomotive Aremen |
|----------------|--------|---|-----------------------------|------------------------------|-----------------|--|---------------------------------|---|-----------------------------|--|---|---------------------------------|------------|-------------------------------|-------------|-------------------|-----------------------------------|-----------------------|-------------------------|-------------------|
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| | | 1 1 1 2 4 1 | 1 3 3 | 2 1 1 1 | | 1 3 2 3 | 20 | i 1 | 1 1 2 | 2 1 4 | 1 1 2 | 34 2 | | 1 1 1 1 | 1 1 2 | 2 2 2 2 | 5 | 2 3 2 2 | 3 1 7 | 1 1 2 |
| | | 1 3 7 2 | | 1 2 1 2 5 | | 1 1 2 1 1 1 | 5 6 7 5 1 1 1 | | 1 1 1 2 | 1 | 1 3 1 1 | 1 2 1 2 1 2 1 | | | 1 2 | 1 2 | 2 1 2 1 | 1 1 2 1 | 1 1 2 2 | I |
| | | 1 4 6 9 9 9 9 9 9 38 | 2 4 3 2 | 1 3 4 2 | | 1 2 8 6 7 2 | 8 7 17 12 12 6 | | 1 1 1 1 1 | | 1 2 3 5 1 | 1 5 8 3 1 1 | | 2 1 | 1 3 1 1 1 6 | 1 1 3 10 | 1 6 5 4 3 | 2 8 6 2 1 | 1 3 11 10 3 | |

| | | | | | | TABL | E 21. | -DE | THS | BY | occi | JPAT: | IONS | AND |
|---|--|------|----------------------------|-------------------------------|--------------------------------|---------------------------|----------------|--|--|---------|---------------|---------------------|---------------------|-----------------------|
| | | | Motormen | Officials and superintendents | Switchmen, flagmen and yardmen | Ticket and station agents | Other pursuits | Express, Post, Telegraph and Telephone | Express messengers and rallway mull clerks | Linemen | Mail carriers | Telegraph operators | Telephone operators | Other pursuits |
| Tuberculosis of the respiratory system | 10 to 19 20 to 29 30 to 39 40 to 49 50 to 59 60 to 69 70 to 79 80 and | over | 2 | | 3 | | 1 1 1 3 | | 1 | 1 | 1 1 | 1 | 6 | 1 1 2 1 |
| Cancer and other unalignant tumors | 10 to 19 20 to 29 30 to 39 40 to 49 50 to 59 60 to 69 70 to 19 80 sad c | ver | 1 1 1 1 1 4 | 1 | 2 3 2 | | 3 5 4 | - | | | i | 1 1 1 | 1 | 2 1 4 |
| Discases of the nervous system and of the organs of | 10 to 19 20 to 29 30 to 39 40 to 49 50 to 59 60 to 69 70 to 79 80 and co | ver | 1 | 1 2 | 1 2 4 | 1 1 | 1 3 3 | | | 1 | 1 2 | 2 1 | | 1 4 2 |
| Diseases of the circulatory system | 10 to 19 20 to 29 30 to 39 40 to 49 50 to 69 70 to 79 80 and co | ver | 2 2 2 1 5 | 7 3 2 1 | 1 5 9 4 2 | 1 1 1 1 3 | | | 1 2 1 | 1 2 | 6 | 1 2 1 1 | 1 | 1 4 6 4 6 |

| AGE G | ROUPS | , 415 | | -51.1, | 1002 | | inued | | | • | | | | | | | _ |
|-------|---|----------------------|------------------|----------------------------|--|---|-------------|---------------------------------|----------------------------------|---|---------------------------|----------------------------------|--------------------------------------|--|------------------------------|-------------------------------|-------------------------------------|
| TRADE | Bankers, brokers and moneylenders | Clerks in stores | Deliverymen | Luborers | Real estate and insurance agents and officials | Salesmen and saleswomen | Undertukers | Wholesale and retail dealers | Other pursuits | PUBLIC SERVICE (NOT BLSEWHERE CLASSIFIED) | Firemen (tire department) | Laborers (public service) | Marshals, sheriffs, detectives, etc. | Officials and inspectors (city, county, state, U.S.) | Polleemen | Soldlers, sallors and marines | Other pursuits |
| | 1 | 2 5 2 3 | 2 | 1 | 1 2 1 2 1 2 1 | 8 11 6 3 1 1 | | 4 6 8 4 7 2 1 | 1 | | 1 1 | 3 1 2 | 1 1 | 1 1 1 | 2 1 | | 3 2 2 |
| | 1 1 5 4 7 | | 1 1 1 1 | 2 1 2 | 4 | | 2 | 8 | 2 2 2 2 2 2 | | 1 2 | 2 5 2 2 | | 3 6 6 | 6 6 3 5 | 1 | 1 14 20 17 2 |
| | 3 1 4 2 | 1 | 1 1 | 1 | 45 5 7 9 | | 1 | 1 11 32 25 36 15 | 2 3 | | 3 2 3 | | 3 | 16 1 1 1 3 3 1 8 | 1 2 5 | 2 | 2 3 10 11 1 |
| | 10 2 6 5 21 9 8 | 3 | ļ | 1 1 1 6 3 2 | 24 1 3 9 26 44 34 15 | 1 1 14 26 49 41 34 4 | Ī | 4 19 49 | 1 2 2 3 4 13 7 | | 1 6 10 7 | 11 1 5 3 9 6 2 | 2 1 1 | 12 5 11 12 11 5 | 8 3 3 17 14 8 | 2 2 2 3 | 27 1 6 24 51 38 8 |
| | 51 | 22 | | 13 | 132 | 173 | 8 | 481 | 33 | | 24 | 27 | 5 | | 45 | 10 | 128 |

| | | | | TA | BLE | 21 | -DE | ATH | BY | 00 | CUP | ATIO | NS A | IND |
|--|----------------------|----------------------------|--------------------------------|--------------------------|--|---------------------------------|------------------|------------------------------------|---------------------------------|---|------------------|-------------------------|--------------------------------------|---|
| | PROFESSIONAL SERVICE | Architects | Authors, editors and reporters | Chemists, assayers, etc. | Civil and mining engineers and surveyors | Clergymen | Dentists | Designers, draftsmen and inventors | Lawyers, judges and justices | Musicians and teachers of music | Photographers | Physicians and surgeons | Teachers and other educators | Other professional and semi-professional pursuits |
| Totals | | 1 | 1 1 | | 1 | 1 | | 1 | i | 5 3 | 2 1 3 | i | 5 1 1 1 2 | 7 6 2 3 |
| Tabus and the state of the stat | ٠ | 2 1 1 1 1 5 | 1 2 2 1 1 | 2 1 | 1 3 2 | 1 1 3 2 2 2 1 | 1 1 1 1 | 1 1 1 1 | 1 2 4 4 1 1 12 | 2 5 5 | 1 1 1 3 | 4 2 1 1 | 1 5 14 7 12 4 4 43 | 3 9 17 17 6 3 |
| Totals Totals Totals Totals Totals Totals Totals Totals Totals Totals Totals Totals Totals Totals Totals | | 1 | 1 | | 2 1 2 | | | 2 2 | 12 1 1 2 1 5 | 14 1 2 2 2 1 3 1 | 1 1 | 1 1 2 | 1 2 1 5 11 7 4 | 33 4 4 4 14 7 32 |
| 10 to 19 20 to 29 20 to 29 20 to 29 20 to 29 20 to 29 20 to 29 20 to 29 20 to 29 20 to 29 20 to 40 to 40 20 20 20 20 20 20 20 20 20 20 20 20 20 | | 3 1 5 1 2 | 1 2 1 3 5 3 | | 10 | _ | | 1 1 2 2 4 1 | 2 9 10 13 3 | 1 5 8 4 5 9 4 | 4 2 4 1 | 32 5 8 11 5 | 3 6 6 23 19 5 | 12 12 12 22 35 23 8 |

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| Harbers, halvdressers and manicurists | Bartenders | folel keepers and managers | Housekeepers and stewards | Jaultors and sextons | Launderers and laundresses | Porters (except in stores) | Restaurant, cafe and lunch room keepers | Saloankeepers | Servants | Walters | Other pursuits | CLERICAL OCCUPATIONS | Agents, canvassers and collectors | Bookkeepers, cashlers and accountants | Clerks (except clerks in stores) | Other clerical pursuits | Totula |
| 4 4 8 | H | 1 | 6 121 125 92 61 84 | 1 | 2 2 4 | | | i | 4 24 22 | 1 3 7 2 2 1 | 3 6 4 4 3 | | | 1 1 | 32 | 13 5 | |
| | | i | 61 84 16 | 1 | 2 | | | | 4 24 22 6 6 6 | 2 1 | 3 | | | 444 | 13 6 4 1 | i | 39 39 27 16 |
| 15 | 3 | 2 | 455 | 8 | 10 | 13 | 2 | 1 | 69 | 16 | 22 | | 1 | 22 | | | 169 |
| 2 | | | 16 101 291 | 1 | 1 2 2 | 1 | 1 | | 1 1 6 17 | 2 | 1 2 | | | : 2 4 | 1 2 7 8 | 1 3 | 16 57 101 |
| 6 1 6 | 1 | 1 2 2 3 3 2 | 291 425 530 841 85 | 6 11 4 3 | i | 5 | 3 2 | | 17 10 7 | 2 3 2 1 | 2 4 12 7 | | 3 | 2 4 7 8 5 | 1 2 7 8 25 27 16 5 | 5 1 | 101 125 83 13 |
| 16 | 2 | 10 | 1789 | 25 | 7 | 12 | 12 | | 42 | 8 | 26 | • | 6 | 26 | 91 | 10 | 404 |
| 1 | | <u> </u> | 10 53 | | | | | :::: | 3 4 | :::: | 2 1 | | | i | | 1 1 | 5 12 |
| 4 3 6 3 | | 1 1 2 1 | 10 53 127 253 359 324 147 | 8 3 7 1 | 2 1 | 2 1 3 | 1 1 | | 5 24 4 10 2 | 1 1 1 3 | 2 1 1 3 3 6 | | 1 1 | 2 4 7 2 | 10 14 7 | 1 3 3 1 1 | 5 12 33 58 85 77 |
| 17 | | 5 | 1274 | 1 15 | 4 | 6 | | 1 | 52 | ·····7 | 16 | | 2 | 16 | 3 | 10 | 304 |
| | 1 | | 4 | | | •••• | | | 6 | | | | | | | Ì | |
| 2 8 10 | 6 1 | 1 9 | 137 311 590 | 2 5 16 | 8 5 | 1 2 8 | 2 4 7 | | 11 28 28 | 1 4 2 8 4 5 | 2 10 18 | | 1 1 7 7 | 5 10 | 11 11 33 | 2 5 1 6 9 4 | 161 101 |
| 2 8 10 10 8 5 | 6 1 5 1 | 1 9 6 9 | 51 137 811 590 972 1030 546 | 2 5 16 15 22 3 | 5 5 1 1 | 1 2 8 7 10 2 | 2 4 7 8 1 | 1 1 2 | 11 28 28 30 10 9 | 4 5 1 | 2 2 10 18 19 19 | | 7 4 | 5 10 14 15 24 12 | 1 11 33 47 57 33 15 | 4 3 | 16 49 101 184 271 252 117 |
| 43 | 14 | 27 | 3641 | 63 | 16 | 25 | 23 | 4 | 122 | 25 | 75 | | 21 | 85 | 208 | 30 | 986 |

TABLE 21,-DEATHS BY OCCUPATIONS AND

| | | | TA | BLE 2 | 1.—DE | ATHS | BY 0 | CCUPA | TIONS | AND |
|--|---|---|---------------------------------|-------------------------|---|--|--------------------------|-----------------------------------|--------|-------------------|
| | AGRICULTURE, FORESTRY AND ANIMAL HUSRIANDRY | Farmers | Parm laborers | Fishermen and oystermen | Gardeners, florists, frult growers and nurserymen | Other agricultural and animal husbandry pursuits | , extraction of minerals | Foremen, overseers and Inspectors | Miners | Quarry operatives |
| 10 to 19 20 to 29 20 to 29 20 to 29 20 to 29 20 to 29 20 to 29 20 to 29 20 to 40 to 49 20 to 69 20 | | 1 7 11 11 8 42 | 2 2 1 2 1 2 1 | 1 1 3 | 1 1 3 2 7 2 2 | 1 | | | 1 | 1 |
| end of the first state of the fi | | 1 3 3 3 | | | 1 1 | | | | 1 | |
| ## (10 to 19 | | 3 4 8 8 6 2 | | | 2 1 | | | | 1 1 3 | |
| 10 to 19 20 10 10 10 10 10 10 10 10 10 10 10 10 10 | : | 1 1 3 11 23 43 43 39 | 11 14 3 3 | 1 1 1 | 1 3 4 6 | 1 | | | 2 | 1 1 2 |

| AND MECHANICAL | | ermen | | | | makers | afters | ıt in factory) | | E.I. | | | ers (metal) | e department) | | s and silversmiths | | | | | g potteries) |
|------------------------------|------------------|-------------------------------------|--------------|------------------------|-----------------------------------|---|--|---|------------|---------------------------------------|----------------------------------|-----------|---|---|--------------|--|----------|--|--------------------------|---|---|
| MANUFACTURING AND INDUSTRIES | Bakers | Blacksmiths, forgemen and hammermen | Bollermakers | Brick and stone masons | Builders and building contractors | Carpenters, coopers and cabinet makers | Compositors, Buctypers and typesetters | Dressmakers and seamstresses (not in factory) | Dyers | Electricians and electrical engineers | Buglucers (stationary) | Engravers | Filers, grinders, buffers and polishers (metal) | Plremen (except loconotive and fire department) | Glasshlowers | Jewelers, watchmakers, goldsmiths and silversmiths | Laborers | General and not specified | Bullding and hand trades | Chemical industries | Clay and stone industries (excepting potteries) |
| | 1 1 3 | 3 2 | | 5 2 2 | 3 | 1 3 4 6 9 4 2 | i | 3 1 1 | | 1 2 | 1 2 1 1 1 | | 1 | 1 2 1 2 | | 1 2 1 1 | | 2 12 23 44 41 21 20 4 | 1 1 | 1 1 1 1 | i |
| | 1 | 1 | | 10 | 5 | 29 2 1 2 2 | 1 | 1 | i | 1 | 1 | | 1 | 1 | | 5 | | 167 1 2 5 8 9 10 2 | 4 | 1 | 1 |
| | 1 2 1 3 3 2 2 | 2 | 1 1 | 3 2 1 | 1 2 2 2 | 7 4 7 8 12 6 8 | | 1 1 1 | 2 | 1 1 4 2 | 1 1 2 7 | | | 2 2 2 2 | | 1 2 1 | | 38 4 14 27 22 25 6 2 | 1 | 1 | |
| | 1 2 3 3 | 1 | 2 | 6 | 2 3 6 3 | 40 2 1 2 12 23 28 18 | 1 | 3 1 1 1 1 2 | 2 1 | 8 1 1 2 3 1 | 10 1 1 8 10 2 | 1 1 | 1 | 7 1 2 1 | 3 | 4 1 2 2 2 2 | | 100 4 10 23 37 58 34 14 | 1 2 1 | 3 | 1 |

| | | | | T | ABL | E 21. | .—DI | ATH | S BY | 000 | UPAT | IONS | AND |
|--|------------------|--|--------------------|---------------------------------|-----------|-------------------|--------------------|------------------|------|--|--|-----------------------------|---|
| | Glass Industries | Iron, steel and other metal industries | Leather industries | Lumber and furniture industries | Potteries | Rubber industries | Textile industrics | Other industries | | Machinists, millwrights and toolmakers | Managers, superintendents and foremen (managacturing) | Manufacturers and officials | Mechanics (gunsmiths, locksmiths, wheelwrights, etc.) |
| (10 to 19 (20 to 29 (20 to | | 2 1 1 2 1 1 | | 1 | 1 | 1 | i 1 | <u></u> | | 2 2 5 7 3 7 1 | 33 33 11 1 | 1 1 1 3 5 2 13 | 3 1 |
| Page and the Page | | 1 | | | 1 | 1 | | | | 2 1 | 2 2 1 | | 1 2 2 |
| Totals Put of 19 | 1 | 1 1 | 1 | | 1 | 1 | 1 | 1 1 | | 1 3 6 13 5 3 1 | 2 8 5 3 2 | | 1 8 3 2 |
| Unavourement of the following light of the fo | 1 | 1_1 | IJ | | | | 2 2 2 | 2 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 5 5 12 7 | | |

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|------------------------------------|---------------------------------|--------------------------------|---|---|------------|--------------------------------------|---------------------------------------|---------------------|-------------------------|----------------------------|-----------------------|-----------------------------|---|-----------------------------|-----------------|------------------|--|--------------------|---------------------------------|
| Millers (grain, flour, feed, etc.) | Milliners and millinery dealers | Monklers, founders and casters | Palnters, glaziers, varalshers, enamelers, etc. | Paperhangers | Plasterers | Plumbers and gas and steam fitters | Pressmen (prluting) | Roofers and slaters | Semi-skilled Operatives | Industry not stated | Chemical industries | Cigar and tobacco factories | Clay and stone Industries (excepting potteries) | Clothing industries | Food industries | Glass Industries | Iron, steel and other metal industries | Ceather Industries | Lumber and furniture industries |
| | | 31 | | 1 | | 3 5 4 4 1 | 1 2 | 1 | | 2 2 2 2 2 2 | 1 1 3 1 2 | 1 1 1 | | 2 2 2 | 1 | 1 | 5 3 4 6 2 1 | | 1 |
| | | 1 | 1 22 3 | | | 1 1 1 | ī | | | 1 1 1 | | 1 | | 1 | 4 | | 21 | 1 | 1 |
| | 1 | 1 1 1 1 1 | 6 1 44 8 5 3 3 | | | 3 3 2 1 | 1 2 1 1 | 1 | | 1 2 1 1 1 1 | 1 1 | 1 | 1 1 | 1 1 2 4 | 1 2 1 | i | 1 1 3 2 3 5 1 | 1 2 1 | 1 |
| | 1 | 1 2 3 3 3 | 20 1 8 12 6 12 4 | 1 | 1 1 | 9 1 2 1 8 5 2 1 | 5 1' 1 1 8 8 4 1 | 2 | | 1 2 1 | 3 3 3 2 | 38 2 5 | 1 2 2 2 2 | 12 1 2 6 4 1 | 23311 | 1 1 1 1 3 | 15 21 7 10 8 2 | 1 5 | 1 1 3 |

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| | | | | | | TAE | BLE | 21.—D | EATHS | BY | OCCUP, | ATIONS | ANI |
| N-2-2-2-2 | | | rles | Rubber industries | Textile industries | Other industries | BLE | Shoemakers and cobblers (not in factory) | Stonecutiers | Tailors and failoresses | Themiths and coppersuiths | Upholsterers | Other manufacturing and mechanical industries |
| | | | Potterles | Rubb | | | | Shoen | Stone | Tailor | Tingn | Uphol | Other |
| Pneumonia. | 10 to 19 20 to 29 30 to 39 40 to 49 50 to 59 60 to 69 70 to 79 80 and | | 1 1 | 1 2 1 2 6 | 5 3 3 5 3 1 | 2 2 6 2 1 1 | | 1 2 1 1 | | 1 1 2 3 | 3 2 1 6 | 2 | 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| | 10 to 19 20 to 29 30 to 39 40 to 49 50 to 59 60 to 69 70 to 79 80 and 60 otals | | 2 | | 3 2 2 | 2 | | 1 2 | 1 1 | | 1 | | |
| | 10 to 19 20 to 29 30 to 39 40 to 49 50 to 59 60 to 69 70 to 79 80 and co | | 1 | 1 2 2 | 1 3 5 4 4 4 1 | 4 4 3 1 5 1 | | 1 3 2 7 | | 2 2 2 2 3 2 | i | | 11 4 3 3 |
| Non-veneral diseases of the genito-urinary system and annexa | 10 to 19 20 to 29 30 to 39 40 to 49 50 to 59 70 to 79 80 and o | ver | 1 4 1 | 1 2 1 | 1 5 2 17 6 3 | 2 2 3 8 4 2 | | 3 1 7 2 | 3 2 | 1 3 2 8 2 1 | 1 1 2 1 | 1 1 1 | 2 2 1 5 1 |

| AGE | GRO | UPS, | NEV | V JE | RSE | Y, 193 | 4—Co: | ntinu | eđ | | | | | | | | | | | |
|----------------|--------|---|-----------------------------|----------------|-----------------|---|----------------------------|---|-----------------------------|--|--|----------------------------|-----------|-------------------------------|------------------|-------------|-----------------------------------|-------------|-----------------------|--------------------|
| TRANSPORTATION | Water- | Boatmen, canalmen, sallors and deck hunds | Longshoremen and stevedores | Other pursuits | Road and Street | Carringe and hack drivers, draymen, teamsters and expressmen | Chauffeurs | Contractors and foremen (road building) | Garage keepers and managers | Luborers (road building) and street cleaners | Livery staille keepers and managers, hostlers and stable hands | Other pursuits | Rallroud- | Baggagemen and freight agents | Brukemen | Conductors | Foremen, overseers and Inspectors | Lahorers | Locomotive Engineers | Locomotive firemen |
| | | 2 2 2 1 1 1 1 1 | 1 4 | 1 2 1 | | 1 1 1 1 | 1 | i | | 2 1 1 2 | | 1 1 1 2 2 1 | | 1 | 1 1 2 | 2 2 2 | 1 | 1 3 | 1 1 2 | |
| | | | | | | 1 1 | 2 2 | 1 | | | | 1 | | | 1 | i 1 | i | 1 1 1 | | |
| | | 1 1 1 | | 1 1 | | 1 | 4 6 7 3 2 | | i | 1 1 1 | | 3 1 2 | | | 2 3 | 1 2 1 | 1 | 2 1 | 1 1 1 1 | |
| | - | 1 1 4 1 2 | 1 1 2 | 1 1 4 1 | | 3 3 2 1 | 4 5 6 3 3 8 | | 1 1 2 | 1 1 1 1 1 | 1 1 2 | 1 1 4 2 | | 1 | 1 2 2 2 | 5 2 | 4 1 | 1 2 1 | 1 1 1 2 3 | |

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| : . | - | | | | TABL | E 21. | —DE | ATHS | BY | occi | UPAT: | IONS | AND |
|--|---|----------|-------------------------------|-------------------------------|--------------------------|-----------------|---|--|----------|---------------|-------------------|---------------------|------------------|
| | | Motorwen | Officials and superintendents | Switchmen, Augmen and yardmen | Teket and station agents | Other pursuits | Express, Post, Telegraph and Telephone- | Express messengers and rallway mail clerks | ГАпевнен | Mail carriers | Теюдирь орегатовя | Telephone operators | Other pursuits |
| ty (10 to 19 20 to 29 20 to 29 20 to 39 40 to 49 40 to 49 50 to 59 60 to 69 70 to 79 80 and over | | 1 | 2 | 1 1 | 1 2 | 2 4 2 | | | 1 | 1 | | 1 1 2 | 1 1 2 1 |
| ₩ Let 🗑 30 to 39 | | 1 | | 1 | | 1 1 | | | | | | | |
| 40 du lo 19 | | 22 | 1 | 1 | i 1 | 2 | | 1 | | 1 1 2 2 | 3 | 1 1 1 | 1 |
| 10 to 19 | | 2 | 1 | 1 3 3 3 | 2 1 | 1 2 2 | | | | 2 1 | 1 3 1 | 1 1 1 1 1 3 | 1 3 |

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|-------|-----------------------------------|---|-------------|-------------|--|---------------------------------------|-----------------------|-------------------------------------|---------------------|--|---------------------------|---------------------------|--------------------------------------|--|-----------------------|-------------------------------|----------------------------------|
| ткаря | Bankers, brokers and moneylenders | Clerks in stores | Deliverymen | Laborers | Real estate and insurance agents and officials | Salesmen and saleswomen | Undertakers | Wholesale and retail dealers | Other pursuits | PUBLIC SERVICE (NOT ELSEWHERE CLASSIFIED) | Piremen (fire department) | Laborers (public service) | Marshals, sheriffs, detectives, etc. | Officials and luspectors (elfy, county, state, U.S.) | Policemen | Soldlers, saflors and marines | Other pursuits |
| | 1 1 3 | | 3 2 1 | 1 | 1 | 1 1 5 12 6 3 2 1 | i | 1 3 14 13 17 8 4 | 1 2 2 | | 1 | 2 3 1 4 | | 1 2 1 | 1 2 1 1 15 | | 17 |
| | | 1 1 | | | 2 1 1 | 2 3 1 1 | 1 | 1 1 2 2 2 2 1 | | | 1 1 | 10 | | | | | 1 |
| | 1 4 1 2 | 1 2 1 | 1 1 | 1 1 2 | 3 2 4 4 1 1 | 1 3 7 7 12 7 3 3 3 | 1 1 2 | 2 8 19 19 18 10 2 | 2 2 2 1 | | 2 2 | 1 2 2 4 1 | 1 1 | 2 3 2 3 3 3 | 1 1 4 1 | 3 | 4 6 10 6 |
| | 2 1 2 3 2 10 | 1 2 1 2 1 2 1 2 1 | 3 | 1 1 1 | 2 4 9 12 8 7 | 1 1 8 9 15 4 5 | 1 1 1 1 1 | 3 19 25 30 42 16 | 4 2 4 | | 1 | 2 1 2 | 1 1 2 | 1 3 7 2 | 2 1 4 2 6 | 1 | 1 2 2 2 11 7 6 |

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|--|----------------------|------------------|--------------------------------|--------------------------|--|------------------|------------------|---|------------------------------|---------------------------------|------------------|-------------------------|---|---|
| | PROFESSIONAL SERVICE | Archifects | Authors, editors and reporters | Chemists, assayers, etc. | Civil and mining engineers and surveyors | Clergymen | Dentists | Designers, draftsmen and inventors | Lawyers, Judges and Justices | Musicians and teachers of music | Photographers | Physicians and surgeons | Teachers and other educators | Other professional and semi-professional pursuits |
| 10 to 19 | | | 2 | 1 1 1 1 | | 1 1 2 | | 1 2 | 2 2 2 1 | í— | i | 1 1 1 3 | 2 4 3 1 2 | 4 4 4 1 6 1 24 |
| empirers of the substitution of the substituti | | | | | 1 | 1 | | 1 | 2 | | i | | i | 1 1 |
| Totals Totals 10 to 19 | | 1 | 2 | 1 | 2 | 3 1 1 | 1 2 | 1 | 1 | 2 2 1 1 2 | 1 1 1 2 | 1 | 1 1 1 1 3 5 3 2 | 2 6 3 5 7 5 3 |
| Marken of the control | | 1 1 1 2 | 1 1 1 1 | 1 2 1 | 1 1 | 4 4 4 2 | 1 1 1 1 | 2 1 1 1 | 1 1 3 3 1 | 1 2 1 1 1 | i | 1 1 5 1 | 2 3 1 3 4 2 ————————————————————————————————— | 1 2 3 9 9 6 3 |

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|--------------------------------|---------------------------------------|------------|----------------------------|--|-----------------------|----------------------------|----------------------------|---|---------------|----------------------------------|-----------------------|----------------------------|----------------------|-----------------------------------|---------------------------------------|-----------------------------------|---------------------------------|---|
| COMMENTED AND PERSONAL SERVICE | Barbers, hairdressers and manicurists | Bartonders | Hotel keepers and managers | Housekeepers and stewards | Janitors and sextons | Launderers and laundresses | Porters (except in stores) | Restaurant, cafe and lunch room keepers | Saloonkeepers | Servants | Walters | Other pursuits | CLBRICAL OCCUPATIONS | Agents, canvassers and collectors | Bookkeepers, cashlers and accountants | Clerks (except clerks in stores) | Other clerical pursuits | Totals |
| | 2 4 4 1 | 1 1 | | 2 30 51 75 94 111 183 53 | 2 2 5 5 | 1 1 2 | 1 1 1 1 1 | 1 4 1 1 1 | 1 | 3 3 8 8 8 4 1 | 3 2 3 1 | 1 1 6 7 1 2 | | 1 2 1 1 1 5 | 1 5 3 4 2 1 1 | 1 7 8 9 8 8 | 1 5 1 2 1 1 2 | 11 109 186 317 315 316 283 104 |
| | 1 3 | | i 1 | 6 7 11 10 28 18 11 | 1 | | 1 | | | 2 4 1 | 1 1 | 2 | | | 1 2 | 1 3 2 1 3 2 | 1 2 2 | 3 15 32 49 57 71 44 24 |
| | 2 4 1 1 1 8 | | 1 2 4 2 | 2 31 80 128 160 129 83 27 | 1 3 1 1 | 1 6 1 | 1 2 1 2 6 | 32 4 22 2 2 | 2 2 1 | 2 1 8 6 4 2 | 1 1 1 3 2 | 1 6 3 2 | | 1 2 2 | 7 | 3 10 7 8 10 3 2 | 2 1 2 2 1 | 15 102 203 863 427 336 196 49 |
| | 3 5 4 8 | 1 | 1 1 2 3 4 | 3 30 70 165 232 314 800 157 | 1 2 4 3 5 | 1' 3 | 2 2 2 2 1 | 1 1 2 | 1 2 1 | 2 3 6 8 10 4 2 | 4 1 | 3 5 6 3 2 | | 5 4 5 1 | 12 1 3 2 3 7 3 | 1 3 7 8 8 15 16 | 9 3 2 2 3 1 | 8 73 143 352 547 823 757 346 |
| 1 | 22 | 1 | 11 | 1271 | 17 | 5 | 7 | 5 | 4 | 35 | 6 | 19 | İ | 11 | 19 | 63 | 11 | 3049 |

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| | | | T. | ABLE | 21.—D | EATHS | BY | OCCUP. | ATION | S AND |
|----------|--|---|--|----------------------------------|---|--|------------------------|-----------------------------------|---------------------------------|---------------------------------|
| | AGRICULTURE, FORESTRY AND ANIMAL HUSBANDRY | Parmers | Farm laborers | Fishermen and oystermen | Cardeners, florists, fruit gruwers and nurserymen | Other agricultural and animal husbandry pursuits | EXTRACTION OF MINERALS | Foremen, overseers and inspectors | Minera | Quarry operatives |
| 10 to 19 | | 24 8 7 3 | 1 1 | | 1 1 1 | 1 | | | i 1 | |
| 10 to 19 | | 4 4 6 6 9 5 6 | 1 1 4 3 8 4 1 | 3 2 3 2 1 | 2 3 1 1 5 3 1 4 20 | 2 1 2 | | 1 2 | 1 1 1 1 | 1 |
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| 10 to 19 | | 1 9 18 56 107 209 278 206 | 3 3 12 18 32 33 31 16 | 3 5 8 8 16 9 9 | 3 8 4 13 84 44 61 19 | 4 5 3 4 5 1 3 25 | | 1 1 1 1 | 1 3 6 2 6 7 1 | 2 2 3 1 3 1 1 |

MANUFACTURING AND MECTANICAL INDIVISITIES OND MECTANICAL INDIVISITIES AND MECTANICAL INDIVISITIES AND MECTANICAL INDIVISITIES AND MECTANICAL INDIVISITIES AND MECTANICAL INDIVIDUAL AND STATE AND ST

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|---|--------------------------------|--|--------------------|---------------------------------|----------------------|--------------------------------------|---------------------------------|--|-------|---|--|---|---|
| | Glass industries | Iron, steel and other metal industries | Leather industries | Lumber and furniture industries | Potteries | Rubber Industries | Textile industries | Other indistries | | Machinists, millwrights and toolmakers | Managers, superintendents and foremen (manufacturing) | Manufacturers and officials | Mechanica (gunamitha, locksmitha, wheclwrighta, etc.) |
| 10 to 19 20 to 29 30 to 39 51 40 to 49 52 50 to 59 60 to 69 70 to 79 80 and over | | 1 2 3 1 | | | | | | 1 | | 3 1 | 1 2 1 | 1 2 1 | 1 |
| 10 to 19 20 to 29 20 to 29 20 to 30 to 39 20 to 30 to 39 20 to 30 to 39 20 to 30 to 39 20 to 30 to 39 20 to 30 to 30 20 to 30 | 2 | 1 2 1 6 1 | 1 | | | 1 1 2 | 1 1 1 2 | 1 2 3 2 1 | | 2 6 8 6 11 5 2 1 | 20 | 2 1 2 1 3 2 1 | 3 9 6 8 5 |
| Totals | 1 | 1 4 | 1 | | | 1 | | 1 1 2 1 | | 1 7 4 10 1 | 2 1 4 5 1 3 | 1 3 3 5 1 | 3 1 5 1 2 |
| 10 to 18 | 2 2 2 2 1 2 | 2 9 7 31 31 23 14 4 | 1 | 2 2 | 1 4 1 2 | 1 1 1 2 3 3 3 3 | 1 2 6 5 4 5 1 | 2 5 8 19 18 16 10 2 | | 2 18 32 64 117 108 99 25 | 8 18 51 65 59 46 6 | 1 3 7 13 33 68 59 22 | 3 23 28 86 34 16 19 12 |

| AGI | GR | OUPS | , NE | W JEI | RSEY, | 1934 | -Conti | nued | | | | | | | | | | | |
|------------------------------------|---------------------------------|-------------------------------------|---|---|--------------------------------------|--------------------------------------|-------------------------------------|-----------------------------|--------------------------|--|--|--|---|---|------------------------------------|--------------------------------------|---|-------------------------------------|---------------------------------|
| Millers (grain, flour, feed, etc.) | Milliners and millinery dealers | Moulders, founders and custors | Painters, glaziers, varnishers, cnamelers, etc. | Papetlangers | Phaterers | Plumbers and gas and steam fitters | Pressmen (printing) | Roofers and staters | Semi-skilled Operatives- | Industry not stated | Chemical industries | Cigar and tobacco factories | Clay and stone industries (excepting potteries) | Clothing industries | Pood industries | Glass industries | Iron, steel and other metal industries | Leather industries | Lumber and furniture industries |
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| | Potteries | Rubber industries | Textile industries | Other industries | | Shoomakers and cobblers (not in factory) | Stonecutters | Tallors and fulloresses | Themiths and coppersoiths | Upholsterers | Other manufacturing and mechanical industries |
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| TRANSPORTATION | . Water- | Boatmen, canalmen, sailors and deck hands | Longshoremen and stevedores | Other pursuits | Road and Street | Carringe and back drivers, draymen, teamsters and expressmen | chaufeurs | Contractors and foremen (road building) | Carage keepers and managers | Laborers (road building) and street cleaners | Livery stable keepers and managers, hostlers and stable hands | Other pursuits | Baliroad— | Baggagemen and freight agents | Вгакетеп | Conductors | Foromen, overseers and inspectors | Luthurers | Locumotive engineers | Loconotive dremen |
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| | Motormen | Officials and superintendents | Switchmen, flagmen and yardmen | Ticket and studion agents | Other pursuits | Express, Post, Telegruph and Pelephone- | Express messengers and rullway mall clerks | Linemen | Mail carriers | Тектирі оречиств | Telephone operators | Other pursuits |
| 10 to 19 20 to 29 20 to 29 21 to 29 21 to 49 22 to 49 23 to 59 24 to 649 25 to 59 26 to 69 20 to 79 20 and over | | 1 | 1 | | 1 1 1 | | 1 1 | | 1 | | | 1 1 1 |
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| TRADIA | Rankers, brokers and moneylenders | Clerks in stores | Deliverymen | Luborers | Rent extrate and insurance agents and officials | Salestnen and salestwomen | Undertakers | Wholesale and retall dealers | Other pursuits | PUBLIC SERVICE (NOT ELSEWHERE (LASSHERD) | Ffremen (five department) | Lahorers (public service) | Marshals, sheriffs, detectives, etc. | Officials and inspectors (city, county, state, U.S.) | Polkennon | Soldiers, sallors and marines | Other pursuits |
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| | | | | T/ | ABLE | 21. | —DE | ATH | S B | Y 00 | CUP | ATIC | ns | AND |
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| | PROFESSIONAL, SERVICE | Architects | Authors, editors and reporters | Chemists, assayers, etc. | Civil and mining engineers and surveyors | Clergymen | Dentists | Designers, draftsmen and inventors | Lawyers, Judges and Justices | Musicians and teachers of music | Photographers | Physicians and surgeons | Tenchers and other educators | Other professional and semi-professional pursuits |
| Totals T | | 1 | | | 1 | | 1 1 1 | 1 1 1 | 1 1 | 1 1 1 | 1 | 1 1 2 | 2 2 2 1 | 1 3 2 3 1 |
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| DOMESTIC AND PERSONAL SERVICE | Barbers, hairdressers and manicurists | Bartenders | foret keepers and managers | Housekecpurs and stewards | Janifors and sextons | Launderers and laundresses | Porters (except in stores) | Restaurant, cafe and lunch room keepers | Salounkeepera | Servants | Walters | Other pursuits | CLERRICAL, OCCUPATIONS | Agents, canvassers and collectors | Bookkeepers, cashlers and accountants | Clerks (except clerks in stores) | Other clerical pursuits | Totals |
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| | 1 2 2 2 3 1 | 2 1 2 1 | 1 2 2 1 | 7 81 36 57 70 75 88 63 | 1 1 3 2 2 2 | 3 | 1 | <u> </u> | | 2 7 4 8 7 2 | 4 1 1 1 | 1 3 3 3 3 2 8 | | 1 1 1 | 2 2 1 3 2 | 2 | 2 4 1 3 1 1 | 63 281 275 368 377 309 201 105 |
| | 3 1 4 4 4 2 1 | 1 2 | 2 3 2 1 | 17 156 197 190 242 329 188 52 | 1 1 2 1 | 2 | 1 2 1 1 | 1 | | 2 12 14 13 16 6 3 | 5 1 2 | 1 6 7 4 4 | | 2 1 | 1 3 2 3 1 3 2 1 | 2 10 8 8 9 5 2 | 1 4 4 5 1 | 38 295 347 461 539 594 343 123 |
| | 15 2 14 13 29 42 29 27 9 | 3 10 10 10 10 10 | 1 2 13 24 22 19 4 | 43 493 881 1462 2164 2904 2530 1142 | 1 2 7 15 45 49 41 8 | 2 8 13 15 15 3 5 | 1 4 6 13 14 20 20 3 | | 3 4 3 4 4 | 68 9 61 63 86 126 75 42 16 | 2 18 14 14 28 12 10 | 23 4 16 13 42 56 51 46 8 | | 3 3 6 21 18 6 2 | 16 2 26 21 38 40 41 44 18 | 45 96 79 101 134 145 90 32 | 16 7 37 12 27 28 15 11 | 2740 205 1587 2362 4341 6120 7511 6042 2437 |
| | 165 | 82 | 85 | 11619 | 168 | 61 | 81 | 81 | 18 | 478 | 99 | 236 | | 59 | 230 | 685 | 139 | 30605 |

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| TABLE 28.—TABULATION OF DEATHS IN ATLANTIC COUNTY FOR 1884, AGGORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | | CAUSE OF DEATH | - | ALL CAUSES Typhotd and paraCybold fever Typhotd and paraCybold fever Typhotd for the control of |
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estimated population, 891,400.

| - | TABULATION OF DEATHS IN ENGLEWOOD CITY FOR 1884, | OITY F | OE 19 | M, ACC | ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | 10 TO | THE | ABB | DGE | A D | FERN, | LTION | AL I | IST C | F CA | USES | OF 1 | EAT | ы | ı |
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| | ALL CAUSES | 155 | 84 | 12 | 88 | = | -83 | | | 13 | - | -1- | 12 | 22 | 18 | 23 | 20 | = | 60 |] [|
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| Other diseases of the nervous system and of the organs of special sense | 411 | 199 | | | | | - | | = | -:- | | | | ======================================= | | - 00 | _ : : |
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| 9 Sentility O Suicide Homicide NY Olem and accidental deaths (suicide and | 401 | <u> </u> | | | | | ::: | | : : <u>:</u> | | - C | 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | : : : : |
| | R | e : | <u>::</u> = : | | !! | <u> </u> | :: | ÷ | # | - : | F : | | 7 | C4 : | | | :: |
| Estimated population, 18,600. | | Total resident deaths, 155. | dent des | ths, 15 | آمر ا | | | | - | ate pe | r 1,00 | Rate per 1,000 population, 8.2. | lation, | 8.2. | İ | | . |

| | | TABULATION OF DEATHS IN GARFIELD CITY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | OITY FO |)R 198 | 4, ACC | ORDI | NG TO | TH | E AB | RIDG | 03 | TER | VATI | NAL | LIB | 9 | CAU | 83 | <u>1</u> | EATE | | |
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| TABULATION OF DEATHS IN HACKENSACK CITY FOR 1884, ACCORDING TO THE | | CAUSE OF DEATH | ALL CAUSINS Typhold and paratyphold fever (Spinius |
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| | • | Abridged International List Rumber | |

| | Rate per 1,000 population, 8.9. | o popula | per 1,00 | Rute 1 | | | | | , 281. | Total resident deaths, 231 | esident | Total r | | | Estimated population, 25,700. |
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| Bronchitts Preumonins Other diseases of the respiratory system (tu- | : :==== | 2 : 5 | | <u> </u> | <u> </u> | 1 | | | | - | 1 2 3 | : :: :::ਜ | ρο : οι | | 9 : 8 | · <u> </u> | = n = n |
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| ABULATION OF DEATHS IN BUBLINGTON COUNTY CAUSE OF DEATH! ALL CAUSES ALL CAUSES ALL CAUSES Small box Smal | TABULATION OF DEATHS IN BUBLINGTON COUNTY FOR 1984, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | AGR PERIODS | Temale Color, 11 other than wh Color, 12 other than wh Color, 13 other 1 year Color, 14 other 1 year Color, 15 other 2 years Color 29 Colo | 618 556 91 95 8 1 6 4 114 12 24 44 69 92 168 217 252 169 27 | 3 6 1 | | 9 6 | 23 29 8 | N IG | | 71 9 2 3 | 1 I I I I I I I I I I I I I I I I I I I | 14 24 8 | | |
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| death not specified or 11-defined | 75 58 22 9 8 2 1 | and accidental deaths (subjede and | 100 | 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | 52 30 22 10 52 | of the bones and organs of locometion. 4 2 2 | Les publicats fairle | , 1 1 2 | 11 8 | 123 54 60 10 | 10 10 10 10 10 10 10 10 10 10 10 10 10 1 | G G G G G G G G G G G G G G G G G G G | 9 6 6 | 56 84 22 7 16 4 1 1 22 1 2 3 2 6 | 20 1 | 318 183 185 19 1 1 1 3 4 10 21 43 | 14 8 6 | 80 0 H 1 1 1 1 0 0 0 4 H 0 0 0 1 H 0 | Haore NHRax∷H | ирн и н короп — н ж | 8 g 4 n 0 0 n n 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Na 5 | HO: 10 : 10 HOLD 4 : 10 0 0 | 514 (D H : 0131 H 01 H : 01 0 | NO N H H 00 | | нын (9 мм. 4 н | | | | HH | | <u> </u> | : I | 881 881 881 881 881 881 881 881 881 881 | 4888 5 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | n an an an an an an an an an an an an an | system sy | tory tory tory after aft | sens sens sens sepul desplus nito nito nanc nanc nanc nanc nanc nanc nanc nan | signal and | Supering the supering | of control | San anna anna anna anna anna anna anna | disserved by the property of t | the repeated by the repeated b |
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| | Estimated population, 11,200. | Trot | Total resident deaths, 150 | nt deat | ha, 156 | | - | - | _ | _ | Pat | | 000, | Rate per 1,000 population, 13.3. | tlon, | 13.3. | 1 | - | |

| | TABULATION OF DEATHS IN CAMDEN COUNTY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | UNTY EC | R 198 | , Acc | RDIN | 0 TO | THE | ABI | ETDG13 | A A | TERN | ATTO | NAL | LIST | OF C | AUBE | S OF | DEA | 曹川 | | |
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| TABULATION OF DEATHS IN CAMDEN CITY FOR 1884, ACCOUNTING TO THE ABRIDGED INTERNATIONAL LIST OF CAUGES OF LEALES. AGE PERIODS | CAUSE OF DRATH | Typhod and partityphod fever 1 Typhod and partityphod fever 1 Smallpox Smallpox 1 Smallpox Smallpox 1 Smallpox Smallpox 1 Smallpox Smallpox 1 Therefore on the regitatory system 5 Synlis man for the regitatory system 5 Synlis man for the regitatory system 5 Synlis moder forms of the regitatory system 5 Synlis moder forms of the regitatory system 5 Synlis moder forms of the regitatory system 5 Synlis moder for the regitatory system 5 Synlis moder for the regitatory system 5 Synlis moder for the matter 5 Dishoter meditator of which the matter 2 Dishoter meditator of which the matter 2 Dishoter meditator of which the matter 2 Synlis moderate of the matter 3 Synlis moderate of the matter 3 Synlis moderate of which the matter 2 Synlis moderate of which the matter 2 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate of which the matter 3 Synlis moderate 3 Synlis moderate 3 Synlis moderate 3 Synlis moderate 4 Synlis moderate 4 Synlis moderate 4 Synlis moderate 4 Synlis moderate 4 Synlis moderate 6 S |
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| e and accidental deaths (suicide and line excepted). | Congenital debility and malformations, prema- | | | . | | | : " | : : | | | | : : : | | <u> </u> | |
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| | homichle excepted) Cause of death not specified or ill-defined | | 4 : | | | | - : | | e1 : | <u>- </u> | 7 | ÷ : | | <u>":</u> | 60 |

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| ALL CAUSES OF DEATHS IN CARE MAY GOUNTY FOR 1884, ACCOEDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH ALL CAUSES OF DEATH ALL CAUSES OF DEATH ALL CAUSES OF DEATH ALL CAUSES OF DEATH ALL CAUSES | and cri or an an |
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| | Betimated population, 81,200. | | Total resident deaths, 462. | siden | t dea | - ţ | - 62 | | | | | | Ra | Rate per 1,000 population, 14.8 | _ ÷ | - 8 | | ₽ E | 14.8 | | | | |
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| TABULATION OF DEATHS IN BRIDGETON CITY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH CAUSE OF DEATH | 10 10 19 |
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| Estimated population, 15,900. | 1 | Total resident deaths, 269 | ent deuti | 18, 269. | | - | | - 2 | re per | - 000 h | Rate per 1,000 population, 16.9. | n, 16.9 | - | - |

| 11- | TABULATION OF PEATHS IN MILLYILLE CITY FOR 1834, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | CILL | 70R 19 | 34, ACO | ORDI | TG TO | THE | ABR | IDGE | INI Q | ERNA | TION | AL I | IST 0 | F CA | UBES | OF D | ATH | | |
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| | | | | Rate per 1,000 population, 13.7 | fon, | ulat | pop | 000 | er 1 | te ! | R | | | | | | | 202. | 18, 23 | Total resident deaths, | ent | restd | otal. | Ţ | | | | Estimated population, 14,700. |
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| ADDITION OF DEATHS IN ESSEX COUNTY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL TIEM OF CHANGE | | CAUSE OF DEATH | | ALL CAUSES | Typhoid and paratyphoid fever Typhus fever | Smallpox | Scarlet fever | Whooping cough Diphtheria | Influenza Plague | Tuberculosis of the respiratory system Other forms of tuberculosis | 20 | Other infectious and parasitic diseases Cancer and other malignant tumors | Tumors, nonmalignant, or of which the nature is not specified | Chronic rheumatism and gout Diabetes mellitus | Alcoholism (acute or chronic) | Progressive decreases and caronic poisonings. | Cerebral hemorrhage, cerebral embolism and | curoumogra |
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| TABULATION OF DEATHS IN BLOOMFIELD | | CAUSE OF DEATH | ALL CAUSES Typhodd and pentryhold fever Examilius fever Measter Measter Measter Whoping cough Thinkering |
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| | | 8.9. | Rate per 1,000 population, 8.9. | ndod (| 1,000 | te per | Ra | | | | | | s, 364 | death | sident | Total resident deaths, 364. | F | | Estimated population, 40,800. |
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| - | TABULATION OF DEATHS IN EAST ORANGE CITY | E OTTY | FOR 1984, ACCORDING TO | 984, A | COOR | DING | TO T | THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | BRID | GED | INTE | B.N.A.1 | TONA | 1 1 | 5 | CAU | BES | OF D | EAT | |
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| | Rate per 1,000 population, 10.2, | populat | er 1,000 | Rate p | | | | 26. | Total resident deaths, 726. | esident | Total r | | | Estimated population, 71,000. |
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| Betimated population, 62,100. Total resident deaths. 501. | Itale ner 1.000 nonulation, 8.0. |

| | TABULATION OF DEATHS IN MONTCLAIR | TOWN | FOR 1984, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | 1934. | 1000 | DING | 10 | THE | ABRI | DGED | INI | RNAT | NOL | 1 | ST OF | CAU | SES (| F DE | ATA | İ |
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| zəquiny. | CAUSE OF DEATH | | | | other tha | 18681 | | | | 81697 | | | | | <u> </u> | | | | 194 | | . 12 |
| | | IstoT | угаје | Female | | Under | I Year | 3 70815 | 4 Jean | TabaU | 6 01 2 | 10 10 | 62 03 03 | 86 01 08 | 65 01 05 65 01 05 | 69 01 09 | 61 of 07 | 68 of 08 | 90 впа 06 | | Unknow |
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| | Typhoid and paratyphoid fever Typhus fever | | :: | :: | | | :: | <u>::</u> | :: | :: | :: | | | :: | :: | | | - ! ! | | | |
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| | Whooping cough | | | :: | : : : : | : : | : : | :: | :: | : : | : : | | | : : | : : | :: | ::: | : : | : : | | |
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| 69 | Piagne Tuberculosis of the respiratory system | ======================================= | 9 | : : ai | | : - | :- | :: | :: | :" | | | -61 | :13 | :13 | : 7 | | | | | |
| | Other forms of tuberculosis | T | : | - | | :: | <u>::</u> | :: | | :: | :: | :: | - : | - | T : | : : : : | :: | :: | :: | | |
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| 282 | Alcoholism (acute or chronic) | 7 | | <u>::</u> | | | - | <u> </u> | !! | :: | :: | | | <u>:</u> | F | 11 | | :: | :: | <u>::</u> | |
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| Tabulation of deaths in orange city for 1884, according to the abridged international list of causes of death | | CAUSE OF DEATH | ALL CAUSES | 1 Typhold fever 2 Typhold fever 8 Manilox 8 Manilox 8 Manilox 8 Manilox 9 Manile 1 Manilox 9 Manilox 1 Manilox 9 Manilox 1 Manilox 9 Manilox 1 Manilox 1 Manilox 9 Manilox 1 Manilox 9 Manilox 1 Manilox 1 Manilox 9 Manilox 1 Manilox |
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| Rate per 1,000 population, 11.3. | Rate | | leaths, 405. | Total resident deaths, 405 | ē. | Estimated population, 35,800. | |
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| | <u>.</u> | : :: :: :: | <u>:-</u> | : | | Other diseases of the genitourinary system | 93 (|
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| 3 9 15 22 31 27 3 | 61 | | 1 | 62 16 | 114 52 | the organs of special sense | • |
| | | -, - | - | - | | 23 Other diseases of the nervous system and of | 61 |
| | | | | | | | |

| | TABULATION OF DEATHS IN SOUTH ORANGE VILLAGE FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | VILLAGE: | FOR 1 | 34, AC | 10 KD | T DNI | o TH | E AB | RIDGI | 8 | TERN | ATIO | NAL | LIST | OF CA | USES | OF. D | EAT | ы | |
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| | ALL CAUSES | 181 | -29 | 75 | 2 | 1 | | - | | | | 4 | - io | -8 | 61 | - 86 | == | - 1 | | |
| -0 | Typhoid and paratyphoid fever | | - : : | | | ::: | :: | -:: | <u> </u> | :: | - : : | | - : : | - : : | -:: | | :: | - : : | | |
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| 2 £ | Diabetes mellitus | - | | · | : | : | | | | | | <u> </u> | | <u> </u> | = | = | Ç1 | | | |
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| 25 | Cerebral hemorrhage, cerebral embolism and | | - i- | = | _ | _ | | _ | | _ | | _ | | | | - 10 | | _ | | |

| ,,, | Rute per 1,000 population, 9.3. | ,000 popul | tate per 1 | | | | 137. | deaths, | Total resident deaths, 137. | Tota | | Estimated population, 14,700. | Estimated |
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| | | | - <u>:</u> - <u>:</u> | - : | 93 | 3 | : | _ | | 61 | 77 | ure birth and other diseases of early infancy | ture birth and |
| <u>:</u> | | <u>-</u> | : | : | | | <u>:</u> : | | - | <u>-</u> - | _ | of the bones and organs of locomotion | of the bones a |
| <u>:</u> : : | <u> </u> | | <u>:</u> : : | | _ | | <u>:</u> : | : | : | <u>:</u> | : | Discusses of the skin and cellular tissue, and | Jisenses of the |
| | | <u>:</u> | <u>-</u> | : : : | | | <u>-</u> | : | | | - | Other diseases of pregnancy, childbirth and | Other diseases |
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| : | | | : = : | | : | | ÷::::::::::::::::::::::::::::::::::::: | | 61 | = | ** | Other discusses of the digestive system | ther discuses e |
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| | ALL CAUSES | 217 | 101 | 113 | | | 1 | | Ħ | 11 | -24 | | 2 | 15 | | 32 | - 등 | - 22 | 23 | = |
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| Volutellis Other diseases of the engestro system Other diseases of the genitoarinary system Unrapeal soutteening Other diseases of pregnancy, childbirth and the americans statement of the control | N=- =================================== | -x- | | : : : : : : : : | | | | = | | : | in : | : 121 | : : : : | 21 |
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| homicide excepted) | 7 | | <u> </u> | ÷ | <u> </u> | | C1 : | CN : | ÷ : | - : | ii : | - : - : | - : | <u>;;</u> |

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| Nomitatio exception). versus (survine mass). The second of the first profiled or 1D-defined. | | : | <u> </u> | | | | | ю :н н : .н | <u> </u> | : : : : : : : : : : : : : : : : : : : | # :: | | | : : :::::: |
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| TABULATION OF DEATHS IN HUDSON COUNTY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | Mentobs | Total Total Total Total Total Color, If other than wh Under 1 year 2 years 3 years 4 years 10 to 39 10 to 39 10 to 59 10 to 59 10 to 59 10 to 59 10 to 59 20 to 59 20 to 59 30 to 59 30 to 59 30 to 59 30 to 59 | 0046 3812 8134 273 422 46 40 37 38 581 87 180 388 405 881 1274 1531 1144 376 87 | 1 |
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| TABULATION OF DEATHS IN HUDSON COUNTY | т | List Number 1 1990 1 19 | ALL CAUSES 694 | |

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| -27 | 17 | ន | 46 | 62 | 63 | C) | 80 | 27 | 42 | 23 | Ŀ | φ, | E | 20 | 9 | = | 3- | 20.0 | 283 | 377 | : : | homicide excepted) Cause of death not specified or Hi-defined | excepted) |
| | : | : | 21 | 27 | 4 | 5 | 5 | € | = | <u>-</u> | : | : | ÷ | ÷ | | N | ž. | | - | Şi. | pag | lolent and accidental deaths (suicide and | nd accidental |
| 4 | | 201 | 10 | 101 | 10 | 10 | = | | | | : | : | : | ÷ | | - | 9: | | φ, | 88 | : | | |
| | : | • | : | : | <u>:</u> | <u>:</u> | <u>:</u> | | - | - | | · : | | ; | | : | 4 | . 21 | | 9 | : | Sentitity | |
| _ | | | | _ | _ | _ | | | | 37.6 | | - | _ | | 243 | 2 | ======================================= | 138 | | 549 | fancy | ture birth and other diseases of early infancy | h and other dise |
| _ | | | 7 | - | 12 | 65 | ÷ | = | - | m | -:- | - | - | = | + | : | 30 | 2 | - | 7.7 | | of the bones and organs of locomotion | ones and organ; debility and m |
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| TABULATION OF DEATHS IN BAYONNE CITY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUBES OF DEATH | 160 | Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total | AIL CAUSINS 409 319 38 40 9 5 5 7 | Typhodi and paratyphold fever Typhodi and paratyphold fever Monitor Mo |
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| G TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | AGR PRITODS | Cuprowa 2 years 2 to 5 3 tears 4 tears 5 tears 7 tears 7 tears 7 tears 7 tears 7 tears 7 tears | 3 2 1 16 6 8 13 22 27 50 48 28 2 2 | | | | | | | Z | | | | | | 2 1 | 0 0 0 |
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| TABULATION OF DEATHS IN ASBURY PARK CITY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | 931 | 2 years | AIL CAUSES 222 110 112 61 18 2 | 2 3 2 | | | | | | 20 20 | B 0 0 0 | : | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | locomotor ataxia and general | 3 2 2 | Serental nemorinage, cereman cumponism and |
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| Rate per 1,000 population, 14.4. | Total resident deaths, 222, | Estimated population, 15,400. |
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| | e. | ion, 11 | Rate per 1,000 population, 11.9. | 1,000,1 | te per | Ra | | | | | 8, 230. | Total resident deaths, 230. | resident | Total r | • | | Estimated population, 19,200. |
|------|------------------|----------|----------------------------------|----------------------|----------|--|-------------------|-----|----------|---|---------------|-----------------------------|----------|--------------|----------|--------|---|
| or . | | + | <u>;</u> ; | 두 : | * | - | 1 | | | <u>: : </u> | :: | 20 | | | `` | 10 | Cause of death not specified or III-defined |
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| | | := | | <u>:</u> | F | - | | | | <u>: :</u> | | | | | <u> </u> | * | Sulcide |
| | - : | - | | - | <u> </u> | - | - | ю | <u>:</u> | [_I | : | 4, | 3 | 6N | | KÇ. | ture hirth and other disenses of early infancy Sentility |
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| OF G | | 85 of 05 | 23 | | | | * : | · 60 | 11 | 1: | : | : 81 |
| TABULATION OF DEATHS IN RED BANK BOROUGH FOR 1984, ACCORD ING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | | 65 of 04 | 16 | | | - | - : | | | | - | - = |
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| MIL | | | 3 | Typhold and paratyphold fever Typhold Similar Similar Mensle Script fever | Whoping cough | Unbergings of the respiratory system | Syphilis | Other infectious and parasitic diseases | fumors, nonmalignant, or of which the bature is not specified. | Diabetes mellitus Alcoholism (scute or chronic) | Other general diseases and chronic poisonings Progressive locomotor ataxia and general | paraly Cerebral |
| TAI | | TISE TABILIDEE | - | | > <u></u> | _:-: | · · · | 43 | | | 82 | |
| ļ | İ | Abridged international | 1 | | | | | | | | | |

| 12 13 | 22 | 11 33 | | T | 1 | T | | | 100 | E E E E E E E E E E | | N . | Rate per 1,000 population, 12.8. |
|---|--|---|------------------------|---|---|--|---|---|-----|---------------------------------------|---|--|----------------------------------|
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| | | C1 | | | - i | :- | | | | | - | 7 | Rate p |
| | | 61 | : : : : | - | | - | | | | <u>::</u> | <u>:</u> :- | N : | - |
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| | | | <u> </u> | | | | | | | :: :: :: | <u>:</u> :- :: | | s, 154. |
| - := | | 8 | | | | - | _ | | 10 | | : | : : co | Total resident deaths, 154. |
| | | e 9 | | | | 1 2 | | | F | 61 | - | N :- | Total resi |
| | 80 | 18 | : | 1 24 | ∞ <u>₽</u> | T 6 | | | -20 | . x3 | H ; | 11 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| Other diseases of the nervous system and of the organs of special sense. | Other diseases of the checulatory system | heumonins Other disenses of the respiratory system (tu- | Darrhoen and enteritis | Appendicitis Disenses of the liver and biliary passages | Other disenses of the digestive system | Other diseases of the genitourinary system | | | | | Homicide Violent and accidental deaths (suicide and | homicide excepted) | Estimated population, 12,000. |

| Industration begind a received the received received the received | TABULATION OF DEATHS IN MORRIS COUNTY FOR 1884, | 133 Total 133 Total 143 To | 86 | 9lam9T 2 11114 C 2 48 415 | Penale P | Dinder 1 Jear B | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | d | 3 7 7 8 17 8 18 9 19 19 19 19 19 19 19 19 19 19 19 19 1 | arac 5 Tears | M 6 of C 2 | 80 8 91 01 01 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | AG 01 00 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | AG 0100 AG 1 11 11 11 11 11 11 11 11 11 11 11 11 | | 88 89 01 09 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | CAC CAC CAC CAC CAC CAC CAC CAC CAC CAC | 68 01 08 | 1970 bus 00 | Luknown |
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DEPARTMENT OF HEALTH

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| | ABBLERALION OF DEATHS IN MURINISTOWN TOWN FOR 1984, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | N TOWN | FOR | 1934, 7 | CCOR | DING | 20 | HE A | BRID | GED 1 | NEE | NAT | ONA | LIB | r of | OAUSI | ES OF | DEA | Ħ | | |
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| | ALL CAUSES | 207 | 66 | 108 | 23 | -6 | - | _ | - T | ۵ | -21 | - | - 5 | | - 61 | 37 | 49 | = | - 2 | - 89 | |
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| 22 | Cerebral homorrhage, cerebral embolism and | : | | : | - | <u>:</u> | <u>:</u> | - | : | : | : | ÷ | ÷ | <u>:</u> : | <u>:</u> : | : | <u>:</u> | ÷ | ÷ | : | |

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| TABULATION OF DEATHS IN OCEAN COUNTY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | elite AGB PRRIODS | Total Total Total Color, II offer than will Color, II offer than will Louise I year 1 year 2 years 2 years 4 years 10 to 19 20 to 29 10 to 19 20 to 29 20 to 39 20 to 50 20 to 59 2 | . 501 283 218 22 29 2 4 85 5 13 29 18 41 70 90 115 72 13 | |
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| TABULATION OF DEATHS IN OCEAN C | | САUSE ОР DEATH | ALL CAUSISS | Typhold and maratyphold fever Smallyx Smallyx Smallyx Mansles Scarlet fever Whoshing cough Diplication of the resignatory system The green of the resignatory system The green of the resignatory system The green of the resignatory system The green of the resignatory system Syphilis from of tuberclosis Syphilis from of tuberclosis Syphilis from of tuberclosis Thunos, nonnalignant, or of which the nature Universa monotory malignatic, or of which the nature Dipostate research diseases and propriet special green to the strength of the system of the strength of the system of |
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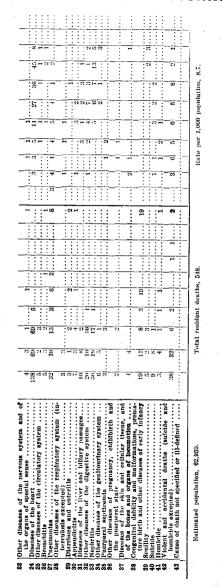
| - 1 | TABULATION OF DEATHS IN PASSAIC COUNTY FOR 1884, ACCORDING TO THE ABRIDGED INTERNALIGIAL LIST OF CAUSES OF DEATH | MINIO | FOR | 934, A | CCOK | P I | 2 | 4 H | BRIT | J. | F | T V | | 7 | 7 | 4 | 200 | 5 | TWI | . | | |
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| | ALL CAUSES | 2005 | 1566 | 1369 | - ā | 35 | 17 | - <u>1</u> | 14 | 7 237 | <u> </u> | 93 | 131 | 173 | 313 | 476 | 638 | 203 | <u></u> | 8 | : | |
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| | TABULATION OF DEATHS IN CLIFTON CITY FOR 1884, ACCORDING TO | CITY FO | R 1994 | ACCC | RDIN | o To | THE | ABR | IDGE | EXI O | ERN | VIIO | TAL. | TSI | OF CA | THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH | J JO | EAT | | | 11 |
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| | TABULATION OF DEATHS IN SALEM COUNTY FOR 1984, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATHS | INTY FO | OR 1934 | , ACC | RDING | o To | THE | ABRI | DGEI | TNI | ERNA | TION | AL L | ST 0 | CAU | SES C | DE DE | ATH | | . | |
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| 22 | Other discases of the circulatory system | 4 | 20 | | : | 1 | : | : | : | : | : | : | : | : | : | : | _ | - | ., | _ | : | : | - |
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| 8 | Distributes and enteritis | 9 | 21 | 4 | : | 2 | 57 | : | : | : | c ł | : | : | | : | : | | | _ | _ | : | T | |
| 8 | Appendicitis | SN. | | **! | : | | : | - - | | : | = | : | _ | : | : | : | | : | : | : | : | | |
| 3 | Diseases of the liver and billary passages | • | : | ت | : | | : | : | : | : | : | _ | : | : | : | : | _ | _ | 7 | 34 | : | : | |
| _ | Other diseases of the digestive system | 90 | 1.0 | ** | : | | : | : | 1 | - | :1 | | : | : | 7 | | : | | _ | ?1 | : | | |
| _ | Nephritis | 8 | 19 | = | : | | | : | | : | = | - | : | 7 | 7 | : | •• | ~ | 2 | 90 | : | | |
| 35 | Other diseases of the genitourinary system | io. | r) | : | | | : | : | | : | - | : | : | <u>:</u> | - | : | : | | <u>-</u> | | : | :: | |
| _ | Puerperal septicemia | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | | : | : | : | | |
| _ | Other discuses of pregnancy, childbirth and | | | | _ | | _ | _ | _ | _ | _ | | _ | _ | | | | | | _ | _ | _ | |
| _ | the puerperal state | Ŧ | 1 | _ | | | - | - | : | : | : | : | _ | _ | - | : | | | - | - | -: | | |
| 2 | Diseases of the skin and cellular tissue, and | | | | _ | _ | | _ | _ | | | | | _ | _ | | _ | _ | _ | _ | | | |
| | of the bones and organs of locomotion | 1. | 1 | - | : | | : | - | : | : | - | : | - | | - | : | : | | - | | : | | |
| 38 | Congenital debility and malformations, prema- | _ | | | _ | _ | _ | _ | _ | _ | | | | | _ | | _ | _ | _ | | _ | _ | |
| | ture birth and other diseases of early infancy | 18 | 16 | ~1 | | | | : | 18[| : | 18 | | : | : | - | : | : | | | - | : | : | |
| 8 | Senility | 21 | - | | : | | : | : | : | : | : | : | : | : | : | : | : | : | | | | - | |
| 9 | Sufelde | - | 9 | _ | : | | : | : | : | : | : | : | : | | : | 80 | -1 | | | : | : | : | |
| 4 | Homfeide | *** | === | : | : | | : | - | : | : | : | : | : | : | : | 7 | -1 | : | | : | : | : | |
| 2 | 42 Violent and accidental deaths (suicide and | _ | | | _ | | _ | _ | _ | _ | | | | _ | | | | _ | _ | | _ | _ | |
| | homfelde excepted) | 26 | 8 | • | : | | - | : | : | : | : | - | F | F | -:- | 4 | _ | | 4 | ÷ | : | - | |
| 43 | 43 Cause of death not specified or Ill-defined | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | | : | | : | : | : | |
| | | | | | | _ | | _ | _ | _ | _ | _ | | _ | _ | | | _ | _ | _ | _ | | |
| | Estimated nonulation 98.800 | | E | Total nesident deaths 978 | della | 4 | | 97.0 | | | | ĺ | | 2 | 0 00 0 000 000 000 | 8 | | 1 | | | | | |

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| | CAUSE OF DEATH | Typhodd and paratyphold fever Typhodd and fever Typhodd fe |
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| " | Isnotianistal begindA | |

| 0. | Rate per 1,000 population, 9.0 | popula | 1,000 | te per | Ra | | | | | ,926. | the, 2 | nt des | Total resident deaths, 2,928 | Total | | | Estimated population, 323,206. |
|---------|--------------------------------|--------|--------------|----------------|-------|----------|----------|----|------|---------|----------|--------|------------------------------|-------|-------------|-----|---|
| : | - | | 9 | | | <u>-</u> | _ | - | | <u></u> | <u>:</u> | - | | 8 | | 89 | Cause of death not specified or ill-defined |
| 12 8 | 28 | - 63 | - 75 | 24 | 13 18 | | 14 | | - C1 | -2 | 4 | | | - 4 | • | ģ | Violent and accidental deaths (suicide and homicide excepted) |
| : | | : | <u>~</u> | 83 | _ | : | | : | İ | - | | : | | 10 | | | Homicide |
| 11 | Ξ | 10 | 00 | | _ | | _ | : | : | : | | : | 13 | 30 | | 43 | Sulcide |
| 4 | | : | : | : | _ | : | _ | : | : | - | | - | | 00 | | Ā | Senflity |
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| | | - | <u>~</u> | = | | _ | : | : | - | - | | : | 20 | 73 | - | | of the bones and organs of locomotion |
| | _ | _ | - | _ | _ | _ | | _ | | | _ | _ | | _ | | | Diseases of the skin and cellular tissue, and |
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| | - | , | • | 000 | | - | _ | | | | | 6 | 9 | | | • | nerneral senticemia |
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| e i | | 7 | K | 60 | _ | _ | | - | - | - | 64 | 61 | 11 | 6 | _ | 8 | bereuksts excepted) |
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| \$ | 104 22 | 147 | 82 | 33 | 97 | 4 | 81 | : | = | | - | 47 | 387 | | | 11 | Diseases of the heart |
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| TABULATION OF DRATHS IN ELIZABETH CITY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DRATH | | CAUSE OF DEATH | ALL CAUSES Typhold and paratyphold fever Typhold and paratyphold fever Typhold and paratyphold fever Typhold fever Typhold fever Typhold fever Typhold fever Typhold fever Thighness Thighness of the residentiety system Other ferms of tuberculosis Malaria |
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| Other diseases of the nervous system and of the organs of special sense of the heart of the heart blanes of the heart blanes of the heart blanes. Brounditis broughtits of the clerified system (the offered issues of the respiratory system (the heart-tools accepted in the control of the control of the control of the control of the control of the control of the control of the offere and billary passages. Other diseases of the digestive system | Other diseases of the genitourinary system Purprail septicemia Other diseases of pregnancy, childbirth and the purprail state Diseases of the skin and cellular tissue, and of the bouse and organs of becompton. | ttre birth and other diseases of early infines Statelly Statelle Houselde Violent and accidental deaths (suicide and hombelle excepted) | i i |
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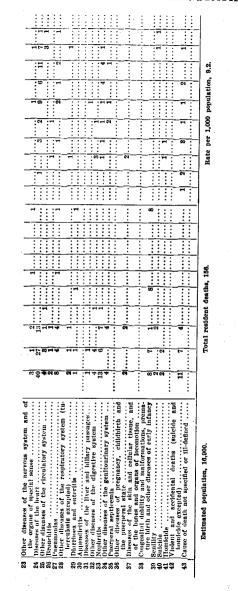
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| TABULATION OF DEATHS IN LINDEN CITY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF | | | ALL CAUSES | Typitotd and paratyphold fever Typinos fever Typinos fever Typinos fever Sentie fever Whoning cough Diphtheria Thintera |
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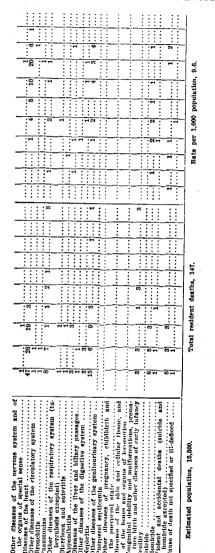
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| TABULATION OF DEATHS IN PLAINFIELD CITY FOR 1984, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST | 2) | Jeal Years Color, It other than Whi Under J years 2 years 2 years 4 years 5 to 9 | 111 11 11 11 11 11 11 11 11 11 11 11 11 |
| TABULATION OF DEATHS IN PLAINFIELD CIT. | | Isnotiarratal bashid | ALL CAUSES Typhod and paratybloid fever Typhus fever Smalliox Measles Rendet fever Measles Rendet fever Measles Proposition of the registerer Thereton and there registerer Thereton and there malfamat tumor Thunes and other malfamat tumor Cancer and other malfamat tumor Cancer and other malfamat tumor E nother incestions and measles Thunes an onnaitement tumor Thunes incesting and the matter Thunes incesting and the matter Thunes incesting and the matter Thunes incesting and the matter Thunes incesting and the matter Thunes incesting and the matter Thunes incesting and the matter Thunes incesting and the matter Thunes and other matter Thu |

| | 11.5. | Rate per 1,000 population, 11.5. | 000 pop | per 1,(| Rate | | | | | , 412. | Total resident deaths, 412. | estdent | Total r | - | | Estimated population, 35,600. |
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| | | | - | - | - | | 10 | | - | 19 | 2 | 4 | ~ | ~ | 19 | ture birth and other diseases of early infancy |
| T | : | - | : | : | : | | : : | <u>:</u> : | <u>:</u> | <u>:</u> : | | - | | | • | Congenital debility and malformations, prema- |
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| : <u> </u> | : | • | <u> </u> | : | <u>:</u> | : | | | - | | | - | | _ | | memeral senticemia |
| 4 | 37, | :: :: | 71 | : | <u>:</u> :: | ::- | _ | : | : | - | | s - | 4 | | | Other diseases of the genitouringly system |
| | <u></u> | = - | : | <u>:</u> | : | | _ | : | : | : | | | ~ | | ٠ | Nanheltte |
| | = | 1 | οų | 24 | : | | | ::- <u>-</u> -: | : | : | : | - | _ | | ~ ' | Diseases of the liver and biliary hassages |
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| | | <u> </u> | - | | - | | _ | : | | : | - | : | | | e0 : | Diarrhoes and enteritis |
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| : - - | <u>:</u> N | * | 3- | 71 | <u>:</u> | - | : | : | <u>:</u> : | - | | • | • | • | í | Other diseases of the respiratory system (tu- |
| | : | - | : | : | <u>:</u> | ····(····(·····(···· | _ | **** · · · · · · · · · · · · · · · · · | <u>:</u> | <u>:</u> | : | | | : | 78 | Prontmondos |
| 00 | 1 20 | est. | - | - | - | : | | | -: | : | : | - - | _ | _ | - | liber diseases of the circulatory system |
| | : | 31 | 2 | 10 | 4 | : | : | | | : | : | 7 | F- | ~ | ?? | Diseases of the heart |
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392

| 1) - | TABULATION OF DEATHS IN RAHWAY CITY FOR 1884, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH AGE PERIODS | TY FOR | 1934, | P CC0] | TO THE | ដ | THE | ABRI | DGEI | EN1 | ERNI | AGE | TIONAL LIBT | IST (| # OF | UBEB | to l | DEAT | | - |
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| | CAUSE OF DEATH | IntoT' | Male | Female | Color, if other than white | Under 1 year | I year | 3 7ears | 4 76275 | Under 5 years | 6 01 0 | 10 to 18 | 62 01 02 | 98 of 08 94 of 04 | 20 to 28 | 89 01 09 | 62 03 02 | 68 of 08 | 1940 bas 06 | Спепомп |
| | ALL CAUSES | 156 | 8 | 99 | - | 6 | . | - | - | 13 | | 4 | | | | - 53 | - | 36 20 | * | : : |
| | Typhold and paratyphold fever | | | | | | | | | ::: | | | : : : : : : | | | | | | | |
| | Smarijox Measles | | | | | | | 11 | :: | :: | | | <u>: :</u> : : | | | | | | | |
| | Whooldng cough | | | | | | | | | <u>: :</u> : : | | | | | | | | .0 | | : |
| | Influenza | | - | | : | | : : | 1 | | | | | | | | | | | | - |
| | Plague | <u>-</u> | 4 | | 64 | ÷ | _ | | <u>:</u> : | :- | | : | | - | 61 | | H . | | : : | <u>: :</u> |
| | Other forms of tuberculosis | | | - | | | • | | | : | : : | | - | | | | ÷ | - - | | : |
| | | | | | ÷ | - | : | : | : | <u>:</u> : | : | : | : | : | : | : | <u>:</u> | : | | |
| 24 | | 1 | <u> </u> | · t | | | | <u>: :</u> | <u>:</u> - | :" | | Ī | | | : :- | : :eo | 4 | - | | 1 |
| | Cancer and other manginant tumors | - | | | | | | | | : | | | | -: | | | <u>:</u> | : | <u>:</u> | <u>:</u> |
| | Is not specified | | | | | | | | _ | | _ | : | : | | | | _ | : | : | : : |
| | Chronic rueduatism and Solic | | : | ο 1 | : | ÷ | | | : | : | | : | | | | 7 | | | | |
| 222 | | :01 | - F | - | | | ! ! | <u>: :</u> : : | | | | = | | ÷ | | - | : | - | <u>:</u> | <u>:</u> |
| | <u> </u> | ;— ē | - 6 | | | | | | | : | _ | | | | -= | <u>-</u> : | : | -= | : | <u>:</u> |
| . : | paralysis of the insube | N . | 4 | - | - | - | <u>-</u> | | | _ | | _ | | | - | | | | - | |





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| IABULATION OF DEATHS IN WARREN COUNTY IN 1984, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUBES OF DEATH | | | AGIS PERTIODS |
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| COUNTY | | | |
| IN WARREN (| | | |
| F DEATHS 1 | | | |
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| | 11 | | |

| 2 6 2 4 1 1 1 1 1 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 | Tota | Other diseases of pregninary citibibitis and phenomen of the star and citibibitis fissue and of the bones and organs of locemotion. Organital debility and malformations, prema, small of the bones and other diseases of sarly infancy Suicific and other diseases of sarly infancy Suicific and excellental death for the population of death not specified or ill-defined. Estimated population, 50,000. |
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| 112: 22 112: 24 12: 24 12: 25 12: 25 13: 25 13: 25 13: 25 14: 25 15: 25 16: 25 | 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Dharbucian and enteritis phenenicalis Discusses of the liver and biliary passages (tilner illeauses of the discetive system Nobintials Other discusses of the gentlourinary system |
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