SIXTY-SECOND ANNUAL REPORT

OF THE

Department of Health

OF THE

STATE OF NEW JERSEY

1939

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J. LYNN MAHAFFEY, M.D., *Director and Secretary*
EDMUND R. OUTCALT, *Deputy Secretary*
The offices of the Department are in the State House, Trenton

STATE OF NEW JERSEY,
DEPARTMENT OF HEALTH,
TRENTON, N. J., August 16, 1939.

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, 1939.

IRVIN E. DEIBERT, M.D.,
President,
State Department of Health.

STATE OF NEW JERSEY,
DEPARTMENT OF HEALTH,
TRENTON, N. J., August 16, 1939.

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, 1939. The reports of the Bureau Chiefs will give comprehensive accounts of the activities of the eight 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.

Outstanding in the events of the past year is the series of studies made by the New Jersey Health and Welfare Conference appointed by Governor A. Harry Moore and organized under the chairmanship of Dr. Robert C. Clothier, president of Rutgers University. The report of this committee will outline the public health needs and problems of New Jersey and their relation to the national health needs as set forth in the report of the Interdepartmental Committee to Co-ordinate Health and Welfare Activities, created by the president.

All groups dealing with health and welfare problems in New Jersey were represented in these studies so that an intimate knowledge of the situation as well as mature group judgment were brought to bear in discussions and subsequent reports of subcommittees.

The Department contributed by preparing a large amount of data and by supplying the services of numerous technically trained and experienced persons as committee members, as well as clerical assistance.

The current expansion of essential health services which began in 1936, when funds were first made available under the Federal Social Security Act, continued during the past fiscal year, although to a lesser extent than in the previous years. The Department has steadily increased its services to a point where the public is beginning to receive basic health services commensurate with the needs of a metropolitan state. The per capita expenditure is still low. The nature and extent of these services are set forth in the reports of the eight Bureaus of the Department, but a number having particular significance are mentioned here.

Pneumonia Deaths Prevented

Anti-pneumococcic sera for use in the treatment of patients financially unable to pay for the material was first made available for distribution by the Department shortly before the beginning of the fiscal year and had been furnished for the treatment of 782 patients by June 30, 1939. Case histories of 777 of these serum treated cases showed a mortality of 15

percent, which, on the basis of an expected mortality of 25 to 42 percent without serum therapy, warrants the conclusion that at least 132 lives were saved by this free serum. The death rate from pneumonia of 54.25 per 100,000 in 1938 was the lowest ever recorded in this State.

Types 1 and 2 horse sera and Type 1 rabbit serum were distributed from 34 stations. In addition, 17 of the distributing stations were supplied with Types 5, 7, 8 horse sera and Type 3 rabbit serum. The Department approved 115 laboratories for the typing of pneumococci and made a special study with the U. S. Public Health Service to determine the relative proportion of different types of pneumococci causing pneumonia in the State.

New Services for Mothers and Children

A maternal mortality rate of 3.3 was recorded in 1937 and in 1938, the lowest rate in the history of the State and about half the rate of the years previous to 1932. Obstetrical consultative services were provided in 108 instances to physicians attending women of the low-wage group at home and a delivery nurse service was provided in 1,340 home deliveries of women of this low income group. The proportion of maternal deaths during the first six months of pregnancy decreased eight percent from 1937 and 11 percent from 1936.

In 1938 as in 1937, the infant mortality rate was 39 per 1000 live births. This was the lowest state rate in the United States for 1937.

The preventive mental hygiene program instituted three years ago has been developed under the direction of an advisor in mental hygiene and parent-child relationships. Instruction and training of staff nurses has enabled them to teach the mother of infants and children whom they visit the basic facts of child nature and development so that parents may be prepared to anticipate and avoid the development of improper parent-child relationships in the important formative years of childhood.

Syphilis Campaign Expands

The Department's activities in the control of the venereal diseases were continued on the basic plans of previous years and were marked by the extension of diagnostic and treatment facilities for indigent and low-wage patients and by the inauguration of pre-marital and pre-natal blood testing required by Chapters 126 and 41, P. L. of 1938.

Nine new regional clinics for the treatment of indigent and low-wage venereal disease patients were established with the co-operation of local boards of health, bringing the total number of this type of clinic to 20. In addition, financial assistance was extended to five clinics operated independently by local health departments. It has been found necessary to increase clinic hours in seven of the regional clinics since January 1, 1939. At the same time, the demand for free anti-syphilitic drugs and their adjuncts by the physicians of New Jersey to be used for low-fee patients has increased steadily. The month of June, 1939, showed an increase of 80 percent in requests for free drugs over June, 1938.

Operation of the pre-marital examination law brought to light 760 cases of syphilis. Of 47,921 persons tested, 0.6 percent of the white applicants and 11 percent of the negro applicants gave positive laboratory tests. These are the best available data on the relative proportion of syphilis among whites and negroes in the State. There was a decided reduction in the number of marriages performed in New Jersey during the first months of operation of the pre-marital examination law, but the number of marriages was returning to normal at the end of the fiscal year.

A complete report of the operation of the pre-natal examination law will not be available until next year.

Cleaner Rivers Provided For

The activities of the Interstate Commission on the Delaware River Basin (Incodel) described in the annual report for 1938 resulted in the enactment by the 1939 Legislature of "An act to promote interstate co-operation for the conservation and protection of water resources in the Delaware river basin" which was approved by Governor Moore on July 1, 1939. This act, based on a reciprocal agreement with the other three signatory states of Delaware, New York and Pennsylvania, should serve as an effective instrument in improving the quality of the waters of the Delaware and in preserving these waters for future potable, industrial, recreational, and other uses.

The act divides the Interstate Delaware River into four zones based on the existing and potential quality and uses of the waters within each zone and establishes minimum requirements for sewage and waste treatment and for the quality of the river water for each zone.

To aid in the correction and control of the pollution of the waters of the Raritan River and its tributaries, the Department adopted two resolutions under authority granted to it by statute. The resolutions establish minimum requirements for method of treatment and quality of effluent of sewage and other polluting material discharged into these waters, the source of which was created subsequent to the respective effective dates of the resolutions.

As a result of the Department's efforts and the active co-operation of the interested industries and municipalities, the improvement of the waters of the Raritan River and its tributaries has continued during the past year. Abatement of discharges of harmful polluting matter into these waters has proceeded to such a point that plans are under consideration for the use of the improved waters as a source of public potable water supply; a large water front parkway and recreation center is under construction and the construction of others is contemplated. Large catches of fish, absent in recent years, are being reported up to Crab Island, about five miles below the city of New Brunswick.

Extensive studies of sewage treatment problems were carried on in addition to the heavy schedule of routine supervision to assure safe water supplies and adequate sewage disposal throughout the State.

Communicable Diseases Still a Problem

Diphtheria, a disease for which an effective prophylactic measure is available to all persons in New Jersey, showed a slight increase in 1938 over the two previous years with 574 cases and 33 deaths. Fifty-one percent of the fatal cases were children less than five years old. However, only eight percent of 46,741 persons receiving diphtheria toxoid distributed by the Department were under one year of age and only 42 percent were under five years. This record again emphasizes the need for increased efforts to secure immunization of children with diphtheria toxoid during the first year of life.

For the seventh consecutive year no case of smallpox was known to occur in the State, but it must be pointed out that this record can be continued only by maintaining a large proportion of vaccinated persons in the population. Rocky Mountain spotted fever showed a slight increase with 16 reported cases and eight deaths.

There was a marked increase in the number of examinations of specimens for evidence of communicable diseases during the year. The greater proportion of this increase was in the number of serodiagnostic tests for evidence of syphilis resulting from the operation of the premarital and pre-natal examination laws and the extension of the spyhilis control program in the State.

Rabies Reaches Peak

The unusually high incidence of rabies in animals which began in the early months of 1938 apparently reached its peak in January, 1939 but was still high at the close of the fiscal year.

To cope with this rapid increase the Department invoked for the first time the authority granted to it by statute to order local boards of health in affected areas to have all dogs confined except when on leash. At the close of the fiscal year the order had been applied to the boards of health in the counties of Bergen, Passaic, Essex, Union and Somerset and to eight boards of health in the northern section of Middlesex County and to several boards of health in Morris County.

An amendment to the rabies law making it possible for local boards of health to serve the necessary notice on dog owners by newspaper notification rather than by personal service, and changing the procedure of collection of penalties in case of violation, was submitted to the Legislature and became a law soon after the close of the fiscal year.

The special joint committee on rabies referred to in the annual report for the year 1937 continued its study of the rabies problem and of rabies legislation throughout the year. The committee found this problem to be complicated and far reaching and was not prepared to submit its final recommendation this year.

New Food and Drug Laws Adopted

Since the new Federal Food, Drug and Cosmetic Act applies only to those foods, drugs, cosmetics and certain therapeutic devices which are shipped in interstate commerce, a bill was introduced in the 1939 Legislature to make the requirements of New Jersey uniform with those of the Federal Act. Such a law was needed to make the same standards apply to food, drugs, cosmetics and devices prepared and distributed solely

within the State as apply to these shipped in interstate commerce. This bill was approved August 8, 1939.

Double indexing of birth records prior to 1901 was begun in October 1935 as a WPA project. This work has been completed for the 42 years prior to June, 1890 and records for the following 10 years are now being indexed. If personnel is available, the 1878-1900 marriage records will be indexed by both husbands' and wives' names. These records are in extensive use for old age pension purposes and in 1938, 22,046 searches of records were made.

Public Health Education in Demand

Information and advice intended to promote better individual and community health habits has been made available to the public. The Department has endeavored to keep the citizens of the State informed as to the public health program and its relation to them through the means of talks, use of visual aids, newspaper releases and regular issues of the official bulletin, Public Health News.

Courses for training of personnel for health departments were conducted in co-operation with Rutgers University as in recent years. Thirty students were enrolled in the summer courses and 111 students completed one or more of 12 winter courses offered. Professional education of staff members of the Department was continued through use of funds made available by the Federal Social Security Act. Nurses, sanitarians and medical staff members were enabled to refresh and increase their technical training through public health courses offered in several universities.

Department Expenditures

The total sum expended through the Department during the fiscal year was $916,610.75, of which $47,036.47 was allocated to certain local health departments and expended by them. The per capita expenditure for the program of the Department was 19.6 cents. Expenditures from State funds totalled $544,270.12 and from Federal funds supplied under the Social Security Act, $372,340.63. Revenue from licenses, fees, etc., amounted to $46,081.37, which was transmitted to the State Treasurer.

Combined Local Health Units Increase

Local health administration in some communities of the State, both rural and suburban, is seriously inadequate and in others is almost totally lacking. Many of these local communities do not contain a population great enough to support an adequate local health service. The establishment of regional health commissions by groups of local boards of health pooling their resources to support a joint public health program has been demonstrated to be a practical and efficient method of providing adequate local health services. Unfortunately the establishment of such regional health units has been limited, but it is hoped that the next few years will see a more widespread development of this type of local health administration. At the close of the year there were 20 regional health commissions maintaining clinics for the treatment of indigent and low-wage venereal disease patients from the participating municipalities, but providing no other services. There were also four local health units, two in Monmouth County and two in Union County, organized to provide an extensive program of local public health services for the participating municipalities. The success of these units has demonstrated the feasibility of this type of local health administration in New Jersey.

Report of Bureau of Administration

For the Year Ending June 30, 1939

EDMUND R. OUTCALT, *Chief*

At the meeting of the State Department of Health held on July 12, 1938, Irvin E. Deibert, M.D., was re-elected President, and Dr. E. W. Smillie, Vice-President, for the fiscal year ending June 30, 1939.

The following committees were appointed by the President to serve during the year:

(1) *Administrative Improvement Committee:* Dr. Deibert, Dr. Mahaffey, Mr. MacDonald, Dr. Coffey and Mr. Outcalt.

(2) *Advisory Committee:* to advise with Director on matters of controversy between meetings: Dr. Deibert, Dr. Smillie, Dr. Guthrie and Dr. Russell.

(3) *Budget Committee:* Dr. Russell, Dr. Guthrie, Mr. Fowler and Dr. Nichols.

(4) *Dental Committee:* Dr. Guthrie, Mr. Potts and Dr. Baker.

(5) *Kennels Committee:* to study proposed regulations with respect to kennels and small animal hospitals: Dr. Smillie, Dr. Guthrie and Mr. Bishop.

(6) *Legislative Committee:* Mrs. Rockafellar, Mr. Bishop, Mr. Potts and Dr. Guthrie.

(7) *Maternal and Child Health Committee:* Miss MacNaughton, Dr. Nichols and Dr. Baker.

(8) *Milk Committee:* Dr. Smillie, Dr. Russell and Mr. Bishop.

(9) *Nursing Committee:* Advisory Generalized Public Health: Miss MacNaughton, Mrs. Rockafellar, Dr. Nichols, Dr. Guthrie and Mr. Fowler.

(10) *Public Health Committee:* Dr. Nichols, Dr. Smillie and Dr. Baker.

(11) *Rabies Committee:* for the study and control of rabies in New Jersey: Dr. Smillie and Dr. Russell.

(12) *Shellfish Committee:* Mr. Fowler, Dr. Smillie and Mr. Potts.

(13) *Social Security Committee:* Miss MacNaughton, Dr. Nichols, Dr. Smillie and Dr Guthrie.

(14) *Venereal Disease Committee:* Dr. Smillie, Dr. Nichols, Mr. Fowler and Dr. Guthrie.

APPROPRIATIONS

During the fiscal year ending June 30, 1939, there was appropriated through State and Federal sources to the New Jersey State Health Department the sum of $963,495.57.

The State Legislature appropriated $552,811.23 and the following sums were received from the Federal Government under the Social Security and Venereal Disease Control Acts:

Social Security Act, Title V (U. S. Children's Bureau) Allotment	$75,473.70	
Balance from 1938	6,036.52	
Total		$81,510.22
Social Security Act, Title VI (U. S. P. H. S.) Allotment	$199,531.00	
Balance from 1938	58,316.12	
Total		257,847.12
Venereal Disease Control Act (U. S. P. H. S.) Allotment		71,327.00
Total Federal Funds		$410,684.34

Analysis of the appropriations granted to the State Department of Health discloses that the State Legislature appropriated 12.5 cents and the Federal Government 10 cents per capita for public health protection in New Jersey during the fiscal year 1938-39. Thus the State Health Department had available for the enforcement of the health laws, the promotion of the public health and the education of the public with respect to their health, approximately 22.5 cents per capita. This figure, while

low in comparison with appropriations of other densely populated states, has enabled the Department to expand its program, to a point where the public is beginning to receive the kind of health service which a metropolitan state ought to have. The most important responsibility that the commonwealth has to its people is the conservation of health and life. With the additional Federal funds available, the Department is fast developing efficient means for providing proper health services and it is expected that the appropriating authorities of the State will continue to make available the necessary funds for matching Federal allotments in order that the government of New Jersey may in greater measure fulfill its obligations to the people in the protection of their health. Considering the fact that the per capita appropriation for public health protection provided by the State is only equal to the tax paid in the purchase of three gallons of gasoline per year, it is apparent that New Jersey is not assuming the full proportion of its obligation to the people in health conservation. The appropriations for the ensuing fiscal year, 1939-1940, by the State have been somewhat drastically reduced and some activities will have to be curtailed. It is hoped that these funds will be replaced during the following year so that the trend toward adequate health service in New Jersey may continue.

Outline of Appropriations and Bureau Activities
Bureau of Administration

Personnel employed, June 30, 1939: Full time, 16.

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$12,613.28	$39,518.20	$52,131.48
Training of personnel	25,527.34	.....	25,527.34

This Bureau is in charge of all overhead activities of the Department as a whole, including budgeting, accounting and record keeping. It is charged with the secretarial, administrative and executive work and has a supervisory relation to the functions of all bureaus. Plans for the various activities of the Department are culminated in the Bureau and funds are allocated for their accomplishment. It also edits the bi-monthly publication, "Public Health News," and issues newspaper releases and cautionary bulletins.

Bureau of Local Health Administration

Personnel employed, June 30, 1939: Full time, 32. Part time, 1.

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$53,427.00	$44,809.48	$98,236.48
Subsidies to local health departments	47,482.00	.....	47,482.00

The investigation and control of communicable diseases, the compilation of standard morbidity and mortality statistics concerning such diseases, the dissemination of informative pamphlets concerning health, the free distribution of diphtheria toxoid, smallpox vaccine and anti-pneumococcic sera, rabies control, inspections of sanitary conditions at camps and roadside eating places and the investigation of nuisances prejudicial to the public health are functions of the above captioned Bureau. There are 567 local boards of health in New Jersey and inasmuch as many of them are unable to employ trained health officers to enforce approved, modern standards of health protection, the Bureau attempts by means of help and advice to bridge this gap in the public health organization of the State insofar as it is able. The State has been divided into seven districts and an office in charge of a public health expert employed by the Department has been established in each district for the purpose of aiding local health authorities in guarding the health of their respective communities. These officials give advice and assistance to local boards of health in public health protection.

Funds provided under the Federal Social Security Act, Title VI, have been extremely useful to this Bureau in enlarging the scope of its work. State appropriations have never been adequate in the broad field of disease prevention and in the field of local health administration. The Federal allocation of funds to New Jersey has enabled the Department to advance considerably this service, but the need is great and the State's responsibility in this particular avenue of public health must not be underestimated. Through the use of Federal funds, it has been possible to add two new health districts to the five originally established, additional personnel have been employed, and supplies and equipment have been purchased to make more efficient the operation of the original five district offices; several physicians and sanitarians skilled in epidemiology and disease prevention have been engaged in the central office for service

throughout the State, a public health nursing service is being established, much educational material is being distributed to the public and many lectures by experts illustrated with motion pictures are being given. The value of the service which this bureau can give as the result of these additional funds has been greatly advanced. Federal funds have likewise been made available to some municipalities for the purpose of rounding out their programs where local appropriations are inadequate and in some cases several of the smaller towns have joined together in the formation of a local health district and have been subsidized with Federal moneys. Recognition is also given to a W. P. A. Rural Sanitation Project sponsored by this Bureau under which over 16,000 sanitary pit privies have been constructed in the rural sections of the State.

Federal health authorities have recognized the need for trained public health personnel in order that the money expended for public health improvement may be used to the best possible advantage. Funds have been received for such training and courses have been established by this Bureau at Rutgers University where employees of local boards of health and others may receive special training in specific subjects. Some employees of the State Health Department have also been assigned to courses of special training at other colleges.

Toxoid Funds

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$6,000.00	$11,351.19	$17,351.19

Free distribution of diphtheria toxoid and smallpox vaccine is carried on through the Bureau of Local Health Administration. These materials are available to physicians and under limited conditions to local health boards throughout the State. They are distributed under careful supervision and accurate records are kept. As a result of the preventive work which has been carried on in the State, there has been no case of smallpox in seven years and the death rate from diphtheria is extremely low. The efforts of the Bureau to keep these two diseases under control will not be relaxed.

Pneumonia Control

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$6,800.00	$55,366.23	$62,166.23

The Legislature during the present fiscal year saw fit to make available funds for the purchase and distribution of anti-pneumococcic sera for the treatment of persons ill with pneumonia and financially unable to pay for it. Sufficient serum was released for the treatment of 782 patients and of the number treated 665 recovered. Federal funds were used to conduct studies with respect to the prevalence of various types of pneumonia in New Jersey. Notwithstanding the saving of life as a result of the appropriation of funds for pneumonia serum, the Legislature did not see fit to furnish an appropriation for this purpose during the ensuing fiscal year. The Bureau still has some of the sera on hand but this will be exhausted before the pneumonia season begins. Failure to continue the campaign among the indigents against this devastating disease is not in accord with recent advances which have been made in public health protection in New Jersey.

Division of Venereal Disease Control

Personnel employed, June 30, 1939:	Full time	19
	Part time	1
	Part pay	54
	Total	74

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$59,272.00	$26,340.68	$85,612.68

This Division is conducting an intensive campaign through medical, epidemiological and educational means, against the venereal diseases. Through follow-up by letter and personal visit, based upon positive laboratory reports and submitted by physicians from suspected cases of venereal disease and under the provisions of the pre-marital and pre-natal laws, check is made to determine whether persons in the communicable stage of syphilis are receiving treatment. Patients found delinquent in treatment as well as known contacts with cases of syphilis, and persons believed to be spreading infection, are supervised by local health officers.

The Division through its staff of field workers assists local health officers in this work and also in investigating and locating sources of infection, in having delinquents return to treatment, and in necessary epidemiological investigation. The Division aids local health departments in organizing clinics for the treatment of indigent and low-wage patients with syphilis and assists financially in the payment of physicians giving medical service in these clinics. Such clinics throughout the State are also furnished certain drugs for the treatment of cases of venereal disease. In addition, similar drugs are furnished physicians for use in private practice on indigent or low-wage patients. The Division also distributes large quantities of educational pamphlets on the subject, furnishes exhibit material for public gatherings and makes available the services of lecturers.

The State supplies less than one-half of the funds available for the control of the venereal diseases. Federal authorities, recognizing the tremendous toll in human lives which is taken by syphilis alone, have been influential in having the Congress pass the Venereal Disease Control Act under which liberal allocations of funds are made to the States. The venereal disease problem is being vigorously attacked by the State Health Department, and, on account of its magnitude, the State's financial responsibility should not be overlooked.

Bureau of Bacteriology

Personnel employed, June 30, 1939: Full time, 38.

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$40,360.00	$65,495.21	$105,855.21

Bacteriological and serological examinations of specimens from suspected and known cases of communicable diseases and from known and suspected carriers of the causative agents of such diseases, are made under the direction of the Bureau of Bacteriology. These specimens are received from physicians, local health officers, State, municipal and private institutions, in addition to those collected by the Department's personnel. During the fiscal year ending June 30, 1939, 214,357 specimens were examined. The Bureau also prepares for the chemical laboratory culture media, sterile collecting bottles and other sterile glassware for the examination of samples of water, sewage and shellfish. It

further inspects and licenses private and municipal laboratories throughout the State.

A great increase in the work of the Bureau has resulted from the expanded activities in venereal disease control. From 68,000 specimens examined for the presence of syphilis in 1937, there has been an increase to over 160,000 in 1939. The pre-marital and pre-natal blood test laws, which became effective during the present fiscal year, have been largely responsible for the increase in blood specimens examined. During the ensuing year, State appropriations for laboratory supplies by means of which these tests are made, have been drastically reduced, and it will be necessary to use Federal funds, if available, to carry out the provisions of statutes passed by the New Jersey Legislature. Unless the State recognizes the importance of providing funds for blood tests, the whole campaign against the venereal diseases will be in jeopardy.

Bureau of Food and Drugs

Personnel employed, June 30, 1939: Full time, 20.

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$49,477.50	$78,539.43	$128,016.93

Enforcement of the laws prohibiting the sale and distribution of adulterated food and drugs and the acts governing the sanitation of establishments where foods are produced, prepared, packed, stored or otherwise handled is under the direction of the Bureau of Food and Drugs. Inspections are made of dairy farms, creameries and milk pasteurizing plants, slaughterhouses, ice cream manufacturing plants, beverage bottling plants, cold storage warehouses, egg breaking establishments, canning factories, bakeries, restaurants, meat packing establishments, meat markets, drug stores and miscellaneous food establishments.

One of the important functions of the Bureau is the protection of the milk supply of the State. The law requires operators of milk plants, where milk is received from dairy farms for distribution in New Jersey, to secure a permit from this Department and fixes a permit fee of $25.00. Rigid inspections are made of these dairy farms and milk plants, and inspectors are required to travel out of the State on many occasions in order that the supervision of the milk supplied to consumers may be as

complete as possible. The number of personnel employed for this work, however, is entirely inadequate to cover the field properly. The inspection force in this Bureau should be increased considerably. It should be noted, however, that New Jersey is particularly fortunate in the fact that approximately 92 percent of its milk supply is pasteurized. The revenue from license fees in connection with this work was $15,425 in the fiscal year 1938-39.

The Bureau of Food and Drugs also engages in inspections of establishments where ice cream, frozen custards, sherbets and ices are manufactured, and the law fixes a license fee from $5.00 to $100.00 depending upon the volume produced. Samples of the product are collected for analysis to ascertain if it conforms with the established standard.

The Bureau is also charged with the enforcement of the laws and regulations governing the sanitation of shellfish. Funds supplied under the Social Security Act made possible the purchase of a new boat which is used in connection with sanitary inspection of shellfish grounds, and the examination of shellfish and the waters in which they grow for the purpose of ascertaining whether or not they are subject to contamination. In addition to the laboratory service conducted on the shellfish boat, the Department operates three land laboratories for this work. Inspections are also made of establishments from which shellfish are shipped in the shell and of shellfish shucking establishments. As a result of the supervision which is carried on by the Bureau of Food and Drugs, New Jersey oysters and clams are accepted for shipment anywhere in the United States as well as places outside of the country.

In view of the importance of protecting New Jersey's food supply, the inspection force of this Bureau should be increased.

Bureau of Engineering

Personnel employed, June 30, 1939: Full time, 26.

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$16,410.00	$60,311.67	$76,721.67

The Bureau of Engineering exercises supervision from a public health standpoint over the pollution of the waters of the State, excepting those waters in the Passaic Valley Sewerage District. It also exercises from the same standpoint supervision over all public water supplies. Samples

of water from 386 supplies, which include 188 municipal supplies, are collected and examined at least four times a year for the purpose of keeping the water supplied within the required standards as established for drinking water. The population served by these supplies numbers approximately 3,139,500. Pollution of the waters of the State, including the Atlantic Ocean and its estuaries, is investigated and recommendations are made to the Director and State Board of Health for the correction of those pollutions causing or threatening injurious health conditions. The Bureau co-operates with municipalities, local boards of health, associations and industry in improving the efficiency of the operation of sewage, industrial and water treatment plants, and assists and advises in the control of objectionable tastes and odors and in the location of objectional bacterial and plant organisms in the public potable water supply. It transmits to the State Department of Education the results obtained in the examination of 693 samples from rural schools, and to the State Water Policy Commission the results obtained in the examination of many samples of water from watersheds in the State.

The Bureau examines plans and specifications for sewer extensions, sewage treatment plants, water purification plants, and alterations and additions to such plants, as well as new and additional sources of water supplies. Examinations are made of water for certification of interstate carriers. It also examines plans and specifications for mausoleums. In order that the maximum efficiency may be obtained in the operation of water supply systems, water purification plants, and sewage treatment plants, the Bureau, with the assistance of a Board of Examiners, examines and licenses the operators of such systems and plants. Upon qualification a license is issued for a fee and is renewed annually.

Special sanitary surveys are made so far as the limited technical personnel of the Bureau of Engineering will permit. During recent years a special investigation of the pollution of the Raritan River, caused by the discharge therein of untreated industrial wastes and raw and inadequately treated domestic sewage, has been carried on. Personnel of the Bureau have co-operated with industries and municipalities in solving the various problems in connection with the treatment of their wastes. As a result, the quality of the water in the Raritan River has been greatly improved, and the success of the Bureau's efforts is nearing completion. For the first time in many years, fish life this year has been observed in

the Raritan River. A similar survey is pending in the Hackensack River Basin.

The Bureau of Engineering is working with the Interstate Commission on the Delaware River Basin, which Commission comprises authorities of Delaware, New Jersey, New York and Pennsylvania, in an effort to conserve and protect the water resources in the Delaware River Basin. This undertaking is great in scope and will prove of tremendous value to the States concerned. Assistance is also being rendered the Governor of New Jersey, who is sponsoring a proposal to use the waters of the Delaware and Raritan Canal as a source of potable water supply, through which Canal it is proposed that a water supply will be carried from the Delaware River to municipalities in the northern part of the State.

Through the allocation of Federal funds to the Bureau of Engineering, three sanitary engineers have been added to the staff and necessary equipment and supplies have been made available. However, on account of the large increase in the work brought about by the construction of sewerage and water systems under P. W. A. and other Federal grants, together with special undertakings for the improvement of the State's resources in connection with the potable water supply, the personnel of the Bureau should be expanded considerably, and, if progress is to continue, New Jersey should not fail to furnish the necessary facilities.

Bureau of Chemistry

Personnel employed, June 30, 1939: Full time, 15.

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$10,225.00	$26,380.20	$36,605.20

The Bureau of Chemistry makes chemical and bacteriological examinations of samples of foods, drugs, water, 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 Agent, New Jersey State Police, and the Fish and Game Commission. Analyses are also made of various samples of food and supplies under specifications for institutional use, 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 waterworks 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.

In view of the expanded activities of the Food and Drugs and Engineering Bureaus of the Department, the work of the Bureau of Chemistry has accordingly greatly increased. Certain water tests which have formerly been performed in the field under adverse conditions are now efficiently carried out in the chemical laboratory. The use of Social Security Act funds has made possible this improvement in the work of the laboratory and much new and modern equipment has been purchased and old equipment replaced.

Bureau of Maternal and Child Health

Personnel employed, June 30, 1939:

Full time	50
Part time	69
Part pay	60
Total	179

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$81,510.22	$107,692.53	$189,202.75

The Bureau of Maternal and Child Health, through supervisory and educational methods, has for its objectives the lowering of infant and maternal mortality and the development to better health of the children of New Jersey. Vast gains toward these objectives have been made during the past few years. During the calendar years 1937 and 1938, the maternal mortality rate in New Jersey was 3.3 per 1000 live births, the lowest in the history of the State; and the infant mortality rate for the same period was 39 per 1000 live births, the lowest in the United States.

The program of the Bureau is carried out upon a basis which is extremely economical to the State. Arrangements are made for the establishment and supervision, principally in the smaller municipalities and rural districts throughout New Jersey, of child hygiene nurses. The nurses instruct mothers and expectant mothers in personal hygiene and in the care of infants and children. These nurses are employed by the Bureau and paid from State funds for periods of demonstration. After approximately a year, the municipality in which the nurse has been placed is expected to pay her salary. Several municipalities sometimes join together in the employment of the nurse. However, after the municipality has assumed the salary, the nurse still remains under the supervision of the Bureau. Under such an arrangement, a unified, supervised program can be carried out throughout the whole State. Thus, while 200 nurses are supervised, only 10 are paid entirely from State funds and 29 are partially paid by the State, the municipality assuming the balance of the salary. Nine are paid by the State from Federal funds, and eight are partially paid. At the present time the municipalities of New Jersey are contributing $290,000 for child hygiene work as a result of the Bureau's demonstrations.

During 1938 there were 181 Baby Keep-well Stations conducted by the nurses associated with the Bureau. Half of these had physicians in attendance. Stations are conducted for mothers of the low-wage group that they may understand the proper development of their babies, the value of medical supervision, and receive guidance in care, feeding and management. During the same year over 900,000 school children were examined, and where defects were noted, recommendations were made for their correction. Large quantities of educational literature of value to parents were distributed.

The Bureau licenses maternity homes and exercises supervision over some 300 midwives. As a result of the work with midwives and with baby farms, and co-operation with hospitals and social agencies, a better supervision of unmarried mothers and their infants has been secured, and sympathetic care for more than 1,200 mothers and babies is obtained each year.

Active co-operation with the physicians of the State has procured for the medically needy more effective care in maternal and child health. The support of the Medical Society of New Jersey has been one of the

large factors in securing the encouraging results which have been attained in recent years.

Through active supervision, blindness from sore eyes of the new born has been practically eliminated. Sickness in infants and children has been reduced to a minimum through the education of mothers in the proper care of their children and has resulted in a great saving to the State in institutional costs.

Federal Social Security Act funds have been of great assistance in this work. It has been possible to employ a number of experts in a supervisory capacity, to engage many new nurses and physicians, and to make available the services of expert obstetricians in difficult cases of child birth. There has also been made available for the low-wage group a delivery nurse service whereby properly trained, registered, experienced nurses may be called by the doctor to assist him in home deliveries. Facilities have been provided through these funds for "refresher courses" for physicians and nurses in order that they may be informed of the most modern practices in connection with delivery and care of infants.

The work of the Bureau of Maternal and Child Health is extremely important in the development of the State's public health program. The economic value to the State of this great branch of the service cannot be discounted and the program deserves ardent support.

Bureau of Vital Statistics

Personnel employed, June 30, 1939: Full time, 19.

	Federal Funds	*State Funds*	*Total*
Appropriations 1938-39	$1,580.00	$37,006.41	$38,586.41

This Bureau has the custody of more than 7,000,000 records of births, marriages and deaths, which have occurred in the State of New Jersey since 1848. Approximately 135,000 records are received, indexed and filed annually.

Upon application, searches are conducted, and certified copies delivered of the records contained in the Bureau's vaults. The revenue produced from this service amounts to approximately $11,000 per year. Copies are furnished without charge to widows, veterans, veterans' organizations for compensation, and other pension purposes, to children

for school and employment purposes, and to individuals for enlistment in the army or navy of the United States.

Statistical data concerning births, marriages and deaths for the use of the Department in conducting its public health program are furnished by the Bureau of Vital Statistics. Statistical material compiled is eagerly sought by city, State and Federal Departments, insurance companies, chambers of commerce, students, statisticians, and associations interested in disease and accident prevention. The Bureau also supervises the registration of births, marriages and deaths in each municipality of the State.

Financial Need

At the suggestion of the President of the United States a National Health Conference was called in July, 1939, for the purpose of discussing a report made by a special committee appointed to survey the health and medical care needs of the United States. One of the conclusions reached by the committee was

> "that existing services for the conservation of national health are inadequate to secure to the citizens of the United States such health of body and mind as they should have."

In order that the State might fall in line with the national health movement, the Governor of New Jersey later in the year called "The New Jersey Health and Welfare Conference," and committees composed of selected individuals particularly interested in health and welfare, were appointed to study the needs of New Jersey in this field. The reports of the various committees of the Conference have not, as yet, been completed, but the conclusions thus far reached confirm the Department's findings, which agree with the general conclusion of the National Committee, that existing services for the conservation of public health are inadequate to secure to the citizens of New Jersey such health of body and mind as they should have. Space will not permit a detailed description of these inadequacies, but the important activities which need to be inaugurated or expanded may be outlined as follows:

1. State Health Districts
2. Local Health Units
3. Maternal and Child Health

4. Water Purification and Sewage Disposal
5. Food and Drug Inspection
6. Laboratory Services
7. Dental Health
8. General Sanitation
9. Venereal Disease Control
10. Tuberculosis Control
11. Pneumonia Control
12. Control of other Communicable Diseases
13. Cancer Control
14. Mental Hygiene
15. Diabetes
16. Heart Disease
17. Adult Hygiene
18. Occupational Diseases
19. Health Education
20. Public Health Nursing Service
21. Nutrition

Attention must also be given to the quality of the personnel employed in the State Health Department. It is a natural conclusion that this vital service cannot be rendered by personnel who are underpaid or inadequately trained. It is also evident that such expansion as has occurred thus far necessarily places far greater burdens and responsibilities upon the technical employees of the Department who control various types of activities, and serious consideration should be given to the readjustment of salaries of these individuals in order that they may be sufficiently compensated to ensure the success of the program. Salary ranges for properly trained medical and technical personnel are entirely too low and for this reason the Department has in many instances been handicapped in filling important positions.

While the Federal appropriations allocated to New Jersey under the Social Security Act have greatly improved public health services in this State, the studies which have been conducted by recognized health authorities show conclusively that the program is by no means complete. Recently an attitude to curtail State appropriations, and to encourage the use of Federal funds to relieve the State of its responsibilities, has

developed. Such a procedure can only result in failure for a program which has been planned on the basis of adequate public health services. On the other hand, an adequate program is economically sound and will return great dividends to New Jersey in the reduction of institutional care and the increased productivity of a healthy public.

Board of Examiners and Examinations

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

At the meeting of the Department on February 14, 1939, James J. Hagan, Jersey City; Patrick J. Monaghan, Newark; Edwin H. Coward, M.D., Pleasantville; together with Frank Yates, I. H. Shaw and Cecil K. Blanchard of the State Department of Health were reappointed as members of the Board of Examiners of Health Officers and Inspectors for the ensuing year. The Board reorganized by the election of James J. Hagan as President and Frank Yates as Secretary for one year.

During the year there were filed with the Department 312 applications for examination as Health Officer or as Inspector of the various classes.

Licenses were issued to those receiving a general average of 70 percent or more, as follows: Health Officer, 20; Sanitary Inspector of the first class, 65; Sanitary Inspector of the third class, 3; Food and Drug Inspector, 3; Lay Meat Inspector, 5; Milk Inspector, 2; Plumbing Inspector, 29.

Annual Conference

The 29th Annual Conference of State and Local Health Officials of New Jersey was held in the State House, Trenton, on February 17, 1939. The program of the Conference follows:

Morning Session, 10:15 A. M.

What Every Board of Health in New Jersey Should Do.

1. Have a balanced program.	Frank J. Osborne, Health Officer, East Orange; member Appraisal Form Committee.
2. Organize legally. Register Vital Statistics.	Wallace T. Eakins, Asst. Epidemiologist, N. J. State Department of Health.
3. Prevent, control and sometimes treat communicable diseases.	I. W. Knight, M.D., District Health Officer, N. J. State Department of Health.
4. Promote the health of the individual.	Julius Levy, M.D., Consultant N. J. State Department of Health.
5. Secure sanitary surroundings, water, milk, foods, etc.	Cecil K. Blanchard, Asst. Epidemiologist, N. J. State Department of Health.
How such a balanced program can be obtained.	Wm. H. MacDonald, Chief, Bureau of Local Health Adm., N. J. State Department of Health.

Afternoon Session, 2:30 P. M.

J. Lynn Mahaffey, M.D., Director of Health, presiding.

Pneumonia, A Public Health Problem.	H. A. Holle, M.D., Passed Assistant Surgeon U. S. Public Health Service.
New Jersey's Pneumonia Program.	Harvey F. Doe, M.D., Medical Assistant N. J. State Department of Health.
Six Months' Experience with the Pre-marital Examination Law.	John Hall, Field Supervisor N. J. State Department of Health.
Pre-marital Tests in a Venereal Disease Control Program.	Theodore Rosenthal, M.D., Director, Bureau of Social Hygiene, N. Y. City Health Department.
The National Health Conference.	Wm. H. MacDonald.
Program of the State Committee on Health and Welfare.	Joseph H. Kler, M.D., Chairman Executive Committee.

Evening Session, 7:30 P. M.

Dr. Mahaffey, presiding.

The Controlled Groups as a Case-Finding Medium.	Frederick P. Lee, M.D., Health Officer, Paterson.
Operation of the New Federal Food and Drug Law.	W. S. Frisbie, in charge Office of Co-operation, Food and Drug Adm., U. S. Department of Agriculture.

Cemeteries

The Department gave consideration to the application of the Carpatho-Russian St. Peter's and St. Paul's Cemetery Association for reversal of the decision of the Township Committee of Randolph Township, Morris County, by which decision the aforesaid Township Committee refused the application of the said Cemetery Association for the location of a cemetery or burial ground within the Township of Randolph. A special committee of the Department was appointed and a hearing relative to the said application was given by the committee at Dover, N. J., on September 2, 1938. Inasmuch as there appeared to be no menace to the public health involved, or other objection which would justify sustaining the said decision, the Department, on recommendation of the committee, voted that the decision of the Township Committee and Board of Health of Randolph Township, Morris County, in refusing to grant permission to the Carpatho-Russian St. Peter's and St. Paul's Cemetery Association to locate a cemetery in the Township of Randolph, Morris County, be reversed and that permission be granted by the State Department of Health to said Cemetery Association to locate a cemetery in Randolph Township.

Consideration was given to the application of the Holy Cross Cemetery, Inc., for reversal of the decision of the Township Committee and Board of Health of Ocean Township in refusing to grant permission for the establishment of a cemetery by said Holy Cross Cemetery, Inc., in Wayside, Township of Ocean, Monmouth County. A special committee of the Department was appointed and a hearing on the appeal was conducted at Oakhurst on October 4, 1938. It was pointed out that the enterprise is primarily intended for the burial of Italian Catholics and that one Catholic cemetery is now available for private use and another can be consecrated for the burial of indigents. It, therefore, did not appear that the need for another private cemetery was insistent and the Department, on recommendation of the committee, voted that the action of the Township Committee and Board of Health of Ocean Township in refusing to grant permission for the establishment of the proposed cemetery be sustained and that the appeal of the Holy Cross Cemetery, Inc., be denied.

Animal Experimentation

During the fiscal year 1938-1939 the following permits for experimentation on animals were granted in accordance with the provisions of Title 4:22–16, Article 2, Revised Statutes of New Jersey, for the purpose of promoting pharmacological research and testing pharmaceuticals:

Department of Biological Science of Rutgers University, New Brunswick, New Jersey; permit dated February 20, 1939.

Newark Beth Israel Hospital, William Antopol, M.D., Director of Laboratories, 201 Lyons Avenue, Newark, New Jersey; permit dated April 17, 1939.

Legislation

The following legislation of interest to health officials was enacted by the Legislature during the year 1939:

S-61, *Chap.* 13, *Taggart.* To appropriate $25,000 for the purchase of pneumonia serum.

S-92, *Chap.* 294, *Bowers.* To provide tuberculosis tests for school children.

S-93, *Chap.* 295, *Bowers.* To authorize boards of education to require physical examinations of all employees at least once in three years and also examinations of employees evidencing ill health.

S-94, *Chap.* 296, *Bowers.* Companion bill to S-92. To provide for a more thorough above-the-waist examination of school pupils.

S-101, *Chap.* 146, *Foran.* (For the President) To approve and apply to that part of the Delaware River Basin lying in this State uniform rules and regulations for the control of pollution of such waters and its tributaries which have been approved by joint negotiations between New York, New Jersey and Delaware and the Federal government.

S-144, *Chap.* 299, *Bowers.* To permit boards of education to require vaccination for diphtheria.

S-214, *Chap.* 248, *Taggart.* To provide for the extermination of the marihuana weed through the joint action of the prosecutor of the pleas and the State Department of Health; appropriates $2,500.

S-281, *Chap.* 254, *Scott.* To regulate tourist camps, trailer camps and overnight lodging places. Exempts licensed hotels having more than 10 sleeping rooms for guests.

S-352, *Chap.* 261, *Foran.* (For the President) To provide for the inspection by the Department of Health of restaurants, lunch rooms, cabins, bar rooms, hotels, or "other places where food or drink is offered for sale."

S-433, *Chap.* 336. Validates notices heretofore given by State Board of Health which had technical defects.

A-10, *Chap.* 227, *Cavicchia.* To provide that common law marriages entered into after April 1, 1939, shall be void.

A-11, *Chap.* 116, *Donahue.* To regulate the sale and distribution of eggs removed from incubators for hatching purposes.

A-245, *Chap.* 320, *Palese.* Makes numerous amendments to the act regulating foods, drugs, cosmetics, appliances and devices intended for use in the treatment of human ailments, to bring State regulations more in conformance with Federal regulations.

A-406, *Chap.* 176, *Pierson.* To permit municipalities owning their own water supplies or which contemplate establishing water supplies to make Reconstruction Finance Corporation loans for the establishment or improvement thereof.

A-464, *Chap.* 280, *Wickham.* To increase the membership of the State Board of Health by adding a registered pharmacist.

A-501, *Chap.* 201, *Stokes.* To permit the local boards of health or inspectors to insert newspaper advertisements where it is believed there is danger of the existence of rabies, instead of serving personal notice to owners of dogs.

A-549, *Chap.* 282, *Hess.* To continue the study of work of the Delaware and Raritan Canal Commission; appropriates $8,000.

A-610, *Chap.* 185, *Shepard.* To insert the descriptive word "Natural" in the act regulating the labeling of milk.

The following bills were introduced in the Legislature, but had not become laws at the time this report was submitted:

S-47, *Foran.* To make it a misdemeanor for any person or firm to wilfully or maliciously interfere, directly or indirectly, with any person or firm while lawfully engaged in the production, transportation, buying or selling of food or food products.

S-99, *Foran.* (For the President) To permit certified copies of Department of Health records to be admitted in evidence.

S-140, *Stanger.* To prohibit the distribution and sale of milk except in containers of such a character as to keep such milk beyond the reach of prowling domestic animals.

S-160, *Proctor.* To permit health officers to make arrests for violations of town ordinances or health board ordinances committed in their presence.

S-164, *Bowers.* To provide for the labeling of milk and cream to show the day on which it was produced.

S-171, *Stanger.* To require physicians, pharmacists and hospital heads to report the existence of venereal diseases in patients to the State Health Department, and the State Department to report such fact to the local Board of Health. Makes it a misdemeanor for a person infected with such disease not to apply for treatment.

S-186, *Driscoll.* To establish a uniform system of licensing dogs under the New Jersey Society for the Prevention of Cruelty to Animals.

S-244, *Stanger.* To regulate the taking of shellfish in the tidal waters of the State.

S-245, *Stanger.* To permit the taking of shellfish from the Great Egg Harbor River and the Tuckahoe River between April 1st and May 31st.

S-262, *Bowers.* To provide for the labeling of milk and cream so as to show the State in which the milk or cream was produced.

S-310, *Taggart.* To appropriate $12,000 to the State Department of Health for a dental health educational program.

S-318, *Scott.* To provide for licensing by the State Department of Health of persons conducting scientific experiments on domestic animals.

S-326, Foran. (By request) To regulate the inspection of milk supplies with the approval of the Secretary of Agriculture.

A-13, Donahue. To regulate the sale of ice cream, ices and kindred frozen products.

A-38, Friedland. To provide for the licensing of restaurants, except hotels and dining cars.

A-132, Mahr. To provide for the municipal licensing, anti-rabic vaccination and muzzling of dogs.

A-172, Wickham. To appropriate $10,000 for the eradication of the marihuana weed by the State Board of Health.

A-186, Freund. To create a State Water Authority to take over the functions of the Water Policy Commission, the North Jersey District Water Supply Commission, the Passaic Valley Water Commission and the Bergen County Water Commission.

A-286, Glickenhaus. To permit the State Board of Health to create a Bureau of Narcotic Control; provides for a supervisor at $3,500 a year.

A-417, DeVoe. To regulate the physical and chemical composition of and quantity of smoke, gases, etc., discharged into the atmosphere and to control the same.

A-500, Palese. To regulate the treatment of dead human bodies transported outside of the State.

A-516, Schaeffer. To permit ice cream merchants doing business in several municipalities to obtain a general permit from the State Board of Health rather than several permits from the various municipalities.

A-547, Wilensky. To dedicate the Delaware and Raritan Canal and its feeder to the purpose of public water supply.

A-559, Browne. To provide for the inspection and licensing under the Department of Health of proposed construction camps where the same are to be occupied by five or more.

A-608, McClave. To permit the State Health Department to designate a secretary at $500 a year to the persons engaged in conducting examinations to licensed operators of sewage treatment, water purification and water supply systems.

Statement of Revenue of the Department of Health of the State of New Jersey for the Year Ending June 30, 1939

Source	*Amount*
Analyses of water samples	$745.00
Audiometer rental	204.60
Laboratory receipts	323.24
Licenses—cold storage	290.00
" goat milk	54.41
" ice cream	6,540.00
" milk plant	15,475.13
" narcotics	175.00
" sewer and water plant operators	3,298.00
Miscellaneous	2.82
Penalties—violations F & D Laws	6,707.82
Searches of vital certificates	12,265.35
Total revenue transmitted to the State Treasury	$46,081.37

STATEMENT OF EXPENDITURES OF THE DEPARTMENT OF HEALTH OF THE STATE OF NEW JERSEY FOR THE YEAR ENDING JUNE 30, 1939

STATE FUNDS

CENTRAL ADMINISTRATION BUREAUS

	Administration	*Local Health*	*Vital Statistics*	*Food and Drugs*	*Engineering*	*Chemistry*	*Bacteriology*	*Totals*
Salaries	$25,610.09	$38,156.54	$33,292.50	$33,000.00	$49,901.40	$22,533.28	$34,092.48	$236,586.29
Laboratory supplies	.....	.....	.....	439.23	.....	2,527.89	11,201.67	14,168.79
Stationery and office supplies	2,592.53	317.30	171.00	.....	.....	108.37	.....	3,189.20
Auto maintenance	.....	1,440.08	.....	.....	1,062.66	.....	.....	2,502.74
Office equipment	.....	137.10	201.78	62.05	193.40	26.80	124.51	745.64
Engineering supplies	.....	.....	.....	.....	998.20	.....	.....	998.20
Replacing cars	.....	446.85	.....	.....	.....	.....	.....	446.85
Miscellaneous lab. expense	.....	.....	.....	.....	.....	.....	494.72	494.72
Other materials and supplies	25.00	10.10	28.71	.....	86.25	46.06	32.40	228.52
Traveling expense	3,008.01	661.28	20.61	8,609.15	3,384.92	68.27	199.83	15,952.07
Auto insurance	.....	231.80	.....	.....	218.45	.....	.....	450.25
Printing	2,989.35	511.91	1,625.97	136.45	399.56	29.00	520.05	6,212.29
Binding certificates	.....	.....	500.00	.....	.....	.....	.....	500.00
Rental tabulating machines	.....	588.00	708.00	.....	.....	.....	.....	1,296.00
Rental garages	.....	336.00	.....	.....	384.00	.....	.....	720.00
Court expenses	.....	.....	.....	239.64	142.30	.....	.....	381.94
Miscellaneous expense	2,348.40	157.72	119.91	12.70	189.47	271.07	1,171.17	4,270.44
Laboratory equipment	.....	.....	.....	.....	.....	319.89	898.95	1,218.84
Invest. Raritan river	.....	.....	.....	.....	2,500.00	.....	.....	2,500.00
Pre-natal blood tests	.....	.....	.....	.....	.....	.....	14,803.99	14,803.99
Totals	$36,573.38	$42,994.68	$36,668.48	$42,499.22	$59,460.61	$25,930.63	$63,539.77	$307,666.77

STATEMENT OF EXPENDITURES OF THE DEPARTMENT OF HEALTH OF THE STATE OF NEW JERSEY FOR THE YEAR ENDING JUNE 30, 1939—Continued

STATE FUNDS

APPROPRIATIONS FOR SPECIFIC PURPOSES

	Maternal and Child Health	*Venereal Disease Control*	*Ice Cream Licenses*	*Milk Plant Licenses*	*Sanitary Shellfish Control*	*Toxoid Distribution*	*Anti-Pneumo. Sera*	*Totals*
Salaries	$83,639.75	$17,617.68	$2,100.00	$8,580.00	$15,060.00	$1,620.00	$898.67	$129,516.10
Lab. supplies, drugs and biolog.	539.39	5,736.47	.....	.....	328.71	9,449.53	54.283.13	70,337.23
Stationery and office supplies...	709.18	140.94	241.42	349.47	153.72	36.42	.....	1,631.15
Auto maintenance	.....	.....	.....	.....	408.74	.....	.....	408.74
Office equipment	.....	179.50	.....	45.05	80.76	.....	.....	305.31
Inspectors equipment	.....	.....	.....	152.00	.....	.....	.....	152.00
Other material and supplies	.....	.....	.....	.....	.....	.....	.....	.....
Travel	15,866.28	1,787.77	166.64	2,356.03	1,859.23	97.85	99.99	22,233.79
Insurance—boat and car	.....	.....	43.90	.....	156.30	.....	.....	200.20
Printing	1,179.06	355.36	.....	.....	46.55	34.77	19.95	1,635.69
Rental—laboratory and car	.....	.....	48.00	.....	312.00	.....	.....	360.00
Court expenses	.....	.....	12.30	.....	.....	.....	.....	12.30
Maintenance of plants	.....	.....	.....	.....	516.59	.....	.....	516.59
Maintenance of boats	.....	.....	.....	.....	1,607.91	.....	.....	1,607.91
Miscellaneous expenses	166.27	329.98	.....	.....	.....	1.50	.....	497.75
Highland lab. and boat No. 4	.....	.....	.....	.....	242.61	.....	.....	242.61
Totals	$102,099.93	$26,147.70	$2,612.26	$11,482.55	$20,773.12	$11,240.07	$55,301.74	$229,657.37

TOTAL EXPENDITURES

Central Administration Bureaus	$307,666.77
Appropriations for specific purposes	229,657.37
Total	$537,324.14
State funds expended—salaries—U. S. Children's Bureau Project	3,415.00
Transferred to State House Commission—tel. and tel. charges	3,530.98
Total	$544,270.12

NEW JERSEY STATE DEPARTMENT OF HEALTH
UNITED STATES PUBLIC HEALTH SERVICE
STATEMENT OF EXPENDITURES 1938-1939
FEDERAL FUNDS

Project	*Salaries*	*Travel*	*Materials and Supplies*	*Total Expenditures*
Bureau of Administration	$6,415.85	$582.98	$5,147.91	$12,146.74
Bureau of Local Health Administration	8,866.67	2,397.32	7,040.50	18,304.49
Pneumonia Control	2,192.63	84.54	2,043.00	4,320.17
Bureau of Vital Statistics	360.00	.....	1,039.95	1,399.95
Bureau of Food and Drugs	10,985.62	4,216.32	29,218.85	44,420.79
Bureau of Chemistry	8,927.40	.....	748.83	9,676.23
Bureau of Engineering	9,940.00	2,458.22	2,318.92	14,717.14
Bureau of Bacteriology	13,534.96	.....	14,001.58	27,536.54
Rural Sanitation	1,800.00	3,977.30	99.97	5,877.27
Atlantic, Cape May Health District	2,347.04	382.51	168.14	2,897.69
Camden, Salem, Gloucester	3,060.00	410.02	411.42	3,881.44
Somerset, Hunterdon, Middlesex	.....	.....	240.00	240.00
Burlington Health District	4,200.00	14.04	610.94	4,824.98
Bergen, Passaic Health District	2,796.68	280.22	152.85	3,229.75
Sussex, Warren, Morris	5,792.32	431.66	908.78	7,132.76
Monmouth-Ocean Health District	1,800.00	371.13	92.78	2,263.91
Training of Personnel	13,577.92	357.44	.....	13,935.36
Venereal Disease Control Act—				
Central Administration	16,418.06	2,274.31	30,800.42	49,492.79
State Laboratory Services	4,187.42	64.66	7,087.16	11,339.24
Local Services	6,774.95	.....	.....	6,774.95
U. S. Children's Bureau—				
Maternal and Child Health	70,280.71	7,632.08	2,979.18	80,891.97
Total expenditures from current appropriation 1938-1939	$194,258.23	$25,934.75	$105,111.18	$325,304.16

NEW JERSEY STATE DEPARTMENT OF HEALTH
UNITED STATES PUBLIC HEALTH SERVICE
STATEMENT OF EXPENDITURES 1938-1939—Continued

Project	*Salaries*	*Travel*	*Materials and Supplies*	*Total Expenditures*
Expenditures of Subsidized Local Health Units				
Jersey City	$1,000.00	.....	.....	$1,000.00
Monmouth County Unit No. 1	2,000.00	$100.00	$300.00	2,400.00
Monmouth County Unit No. 2	6,632.88	921.68	1,090.85	8,645.41
Union County Unit No. 1	7,050.00	750.00	1,600.00	9,400.00
Union County Unit No. 2	3,909.80	379.92	106.79	4,396.51
City of East Orange	2,700.00	56.70	640.85	3,397.55
City of Camden	2,100.00	.....	92.00	2,192.00
City of Newark	7,600.00	.....	1,000.00	8,600.00
City of Paterson	4,821.00	.....	1,684.00	6,505.00
City of Plainfield	.....	.....	500.00	500.00
Total expenditures of local units	$37,813.68	$2,208.30	$7,014.49	$47,036.47
Total Federal funds expended	$232,071.91	$28,143.05	$112,125.67	$372,340.63

Report of the Bureau of Local Health Administration

For the Year Ending June 30, 1939

WM. H. MACDONALD, CHIEF

Expansion of the plan of distributing anti-pneumococcic sera, action requiring local health boards in several counties to have dogs confined on account of danger of spread of rabies, and the formation of groups of local boards of health for the support of venereal disease treatment clinics were matters of particular interest in the activities of the Bureau during the year.

Of great interest from the standpoint of the public is the fact that New Jersey's death rate from pneumonia for the year 1938 was the lowest recorded annual rate and that this year was the seventh consecutive year no case of smallpox was known to occur in the State.

There were 82,752 cases of the 34 diseases declared reportable by State regulations recorded in the office of the State Department during the calendar year 1938. Over two-thirds of these cases were of chickenpox, measles and whooping cough, which still exact a heavy toll of illness chiefly among our child population.

The 1938 diphtheria record of 574 cases and 33 deaths was slightly higher than either of the two preceding years. As in 1937, the counties of Hudson, Salem, Passaic and Camden showed case rates higher than the other counties. Fifty-one percent of the fatal cases of diphtheria were in children less than five years old. This record again should emphasize the need for continued and, in fact, increased efforts to have parents secure for their children the protection afforded against diphtheria by toxoid.

Although for another year, the seventh in succession, the State was free from smallpox, the occurrence of cases in many other states confirms the statement previously made that, with modern methods of transportation and the marked movements of population especially in vacation

periods, the disease may be introduced into the State at any time. In spite of New Jersey's record, therefore, vigilance in stressing vaccination must not relax.

Poliomyelitis in 1938 was low in prevalence. Five of the 10 fatal cases of the disease occurred in children below five years of age.

Scarlet fever was lower than the normal, both in the number of reported cases and recorded deaths.

Typhoid fever was recorded as the cause of only 18 deaths during the year.

The lowest annual case and death rates recorded in New Jersey from tuberculosis (93.6 and 44.3) was the distinction of 1938.

Pneumonia also showed the lowest recorded annual death rate, 54.2 per 100,000. By counties, the highest rate in 1938 was recorded in Ocean, followed by the counties of Hunterdon, Sussex, Warren and Gloucester.

Fifty-eight percent of the total deaths from measles (31) and all of the deaths from whooping cough (54) were among children who had not yet reached the fifth year of life. This again emphasizes the fact that these diseases are particularly serious among very young children.

Rabies

Two fatal cases of rabies in humans were recorded during the calendar year. One, a young child bitten on August 10, became ill on September 1 and died nine days later. Prior to the illness no report of the bite had been made to the local health department and no anti-rabic treatment was given. The second case was in an adult male bitten on July 30, who became ill on October 4, and who died on October 10. Anti-rabic treatment according to records available, was given between August 4 and 17.

That cases of rabies in humans occurred in the State in 1938 is not remarkable in view of the high prevalence of rabies among animals, particularly during the later months of the year. Reports were received of 573 cases of rabies which is considerably greater than the number of reports received during any year since the present system of reporting was adopted. All but 10 of the cases were in dogs.

Number of Cases of Rabies in Animals Reported by Local Boards of Health, by Counties and by Months, During the Year 1938

County	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	Total
Atlantic	0	1	0	0	2	0	0	0	0	0	0	0	3
Bergen	0	0	0	0	0	5	2	5	11	7	5	14	49
Burlington	1	0	1	1	2	1	0	2	0	2	0	0	10
Camden	0	0	0	1	2	5	5	4	0	0	1	0	25
Cape May	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumberland	0	0	0	0	0	0	0	0	0	0	0	0	0
Essex	0	3	9	6	13	12	20	14	15	20	17	26	155
Gloucester	0	0	0	0	0	1	0	0	0	0	0	0	1
Hudson	0	0	0	0	0	4	2	0	1	4	10	3	24
Hunterdon	0	0	1	0	0	0	0	2	0	0	0	0	3
Mercer	1	2	0	2	3	0	0	0	1	3	2	0	14
Middlesex	3	1	7	5	15	7	7	12	8	7	2	6	80
Monmouth	0	0	0	0	0	0	0	0	0	0	1	1	2
Morris	0	4	10	3	5	2	3	3	0	2	1	4	37
Ocean	0	0	0	0	0	0	0	3	0	0	1	0	4
Passaic	0	0	0	0	0	1	0	4	2	3	5	11	26
Salem	0	0	0	0	0	0	0	0	0	0	0	0	0
Somerset	0	4	2	1	4	1	1	1	4	3	2	3	26
Sussex	0	0	0	0	0	0	0	1	1	0	0	0	2
Union	0	1	3	3	2	2	5	8	14	22	17	17	94
Warren	0	0	1	4	2	3	1	1	0	2	3	1	18
State	5	16	34	26	57	44	46	60	57	75	67	86	573

The total number of persons in the State who received Pasteur treatment as a preventive of rabies during the year is not definitely known. However, in annual reports of local boards of health, it is stated that 1,075 persons to the knowledge of these boards received such treatments. The local health boards further report that expenditures from local public funds during the year in furnishing anti-rabic treatments to persons unable to pay was $7,950.25.

All cases of dog bite, under existing statutes, are reportable by physicians and others to local boards of health irrespective of any suspicion of rabies in the offending animal. In a summary of the reports of dog bites made in conformity with the law, the local boards of health listed 14,668 reported cases during 1938.

A communication was sent boards of health in the northeastern counties early in February calling their attention to the increased prevalence of rabies and urging local action designed to prevent its spread.

The special joint committee on rabies referred to in the annual report for the year 1937, continued active during the year and, in addition to a general consideration of the rabies problem, gave much study through a special sub-committee, to changes or additions to existing legislation which might be desirable for a more comprehensive and effective regu-

lation of dogs as part of general rabies control measures. The committee found its assignment so complicated and far-reaching that it was not prepared to submit its final recommendations to be considered before the 1938-39 session of the Legislature.

Meanwhile, in view of the continued increase in rabies in the northeastern section of the State, the State Department of Health at its meeting on February 14 decided to invoke the authority granted it by statute to order certain boards of health to notify each dog owner to confine dogs in a pen or enclosure except when on leash accompanied by a responsible person, for a period of three months or until a certificate of release was issued by the local board. This action designed to have dogs confined was recommended by the Joint Rabies Committee.

This was the first time the State Department had attempted to apply on a large scale any order to confine dogs. The original order applied to each board of health in the counties of Bergen, Passaic, Essex, Union, and Somerset and to eight boards of health in the northern section of Middlesex County.

Practically all boards of health involved promptly prepared and served the required notices to dog owners and secured the co-operation of local municipal governing bodies in catching and disposing of stray unclaimed dogs.

While the prevalence of rabies in the involved area was reduced during the three months' period, at its termination the degree of reduction was not sufficient in the opinion of the Department to justify withdrawal of the order. Consequently the order was extended for another period of three months and several boards of health in Morris County, where a new focus of infection of rabies occurred, were also included within its provisions. The order was still in effect at the end of the fiscal year.

Application of this order revealed two very practical difficulties in the administration of the existing statute. The act required that a notice by a local board of health to the owner of a dog to confine the animal, be served in writing. This necessitates personal service of each notice and most boards of health do not have sufficient personnel to do this; further the board of health as a rule does not know all persons within its jurisdiction who own dogs. Bringing legal action in a district court as required in the present statute in case of violation of an order of the local board was also found inconvenient by many health officials.

Therefore, an amendment to the present law was prepared and submitted to the Legislature making it possible for a board of health to serve the necessary notice on dog owners by newspaper notification rather than personal service; the amendment also changed the procedure for penalty collection in case of violation. This amendment had not yet been finally passed upon by the Legislature on June 30.

Investigation of Communicable Disease Outbreaks

The Bureau continues to stress the importance of careful investigation of cases of communicable diseases to determine, if possible, the source of infection and the likelihood of exposure of other persons. Employees in the Bureau during the fiscal year 1938-39 investigated 362 cases of the reportable diseases and 137 cases of gastro-enteritis.

One outbreak of 88 relatively mild cases of gastro-enteritis was investigated in a private institution for adult male students. From the information collected in the investigation it appeared the illness resulted from eating pressed veal which had been kept about 24 hours at room temperature during the midsummer period.

Undulant Fever

Fifty-two cases of this disease were reported during the calendar year, none of which was recorded as fatal. The highest number of cases reported in any county was in Morris. Histories of reported cases were obtained either in the field by employees in the Bureau or through local health officials. These histories showed that 34 of the 52 patients regularly used raw milk; two used both raw and pasteurized milk; six were reported to have used only pasteurized milk; four used pasteurized milk regularly and in addition used raw milk occasionally; one used pasteurized milk regularly but occasionally used milk from some unknown source; in two instances no data as to the use of milk was available.

Three cases not above included were in persons who because of their occupation regularly come in contact with animals. Two were employed in slaughterhouses and one was employed on a hog farm.

The high proportion of cases of undulant fever reported each year among users of raw milk compared with the reported cases among users of pasteurized milk should be and is an added incentive for still more general use of the pasteurized product.

During the year 1938-39 at least five local boards of health adopted ordinances requiring that uncertified milk sold locally shall be pasteurized. The total population of New Jersey municipalities in which the local boards of health now make such a requirement by ordinance is 1,246,866, or about one-third of the population of the State.

Rocky Mountain Spotted Fever

The continued and slightly increasing prevalence of this disease as indicated by case reports is disturbing. Sixteen cases were reported during 1938 resulting in eight deaths. Nearly all the cases occurred in the southern half of the State. However, throughout this area the cases were widely distributed. Lacking practical methods of tick control, news articles and pamphlets were issued directing attention to the possible danger from ticks and containing suggestions for the prevention of infection from this source. Through the co-operation of the National Institute of Health a limited quantity of Rocky Mountain spotted fever vaccine was made available for use.

Malaria

The number of reported cases of malaria dropped from 27 in 1937 to 16 in 1938. Histories of these cases obtained by employees in the Bureau or through local health officials clearly showed at least 11, and probably the 12th case had been infected outside New Jersey. Of the remaining four reported cases the diagnosis was not confirmed by laboratory examination in two instances.

Typhoid Carriers

At the close of the fiscal year 82 persons were recorded in the Department records as carriers of typhoid bacilli. Two were withdrawn from the list during the year, one by death and one after repeated negative specimens following removal of the gall bladder. Seven persons were added to the list of carriers; three were discovered through investigations to establish the source of infection of known cases of typhoid fever; three were listed after repeated specimens of discharges were found to contain typhoid bacilli after clinical recovery from an acute attack. One of the persons added to the list during the year was a carrier coming to New Jersey from another state.

A few of the carriers presented problems of care and maintenance experienced in similar cases in previous years. Unfortunately requests to the Legislature for the appropriation of a small sum to permit the Department to aid needy carriers in emergencies, under the provisions of Article 4A, Chapter 4, Title 26, of the Revised Statutes have not been acted upon favorably.

Assistance in Diagnosis

In response to special requests from physicians or local health departments aid was given in reaching a definite diagnosis in 26 cases suspected of being communicable diseases. The diagnosis established in these instances included scarlet fever, Rocky Mountain spotted fever, typhoid fever, measles, chickenpox, anthrax and tularemia.

Communicable Diseases on Dairies

Twenty-eight cases of scarlet fever, two cases of tuberculosis, one of typhoid fever, one of diphtheria and one of erysipelas were reported on 33 dairy premises at which 8,680 quarts of milk were produced daily. Arrangements were made at each of these premises for continuance of the sale of milk.

Free Toxoid and Vaccine

Distribution of diphtheria toxoid and smallpox vaccine was continued under Rules previously adopted by the Department and no important change was made in the method of distribution. Fifty-nine distributing stations at strategic points about the State were serving voluntarily at the end of the fiscal year. Reports show that 46,741 children received diphtheria toxoid during the year from the State supply furnished free and that 28,545 persons were vaccinated against smallpox with the State material. Each of these figures is appreciably higher than in any preceding year.

NUMBER OF PERSONS REPORTED AS GIVEN FREE STATE TOXOID OR VACCINE DURING THE YEAR ENDING JUNE 30, 1938

County	*Diphtheria Immunizations*	*Smallpox Vaccinations*
Atlantic	882	564
Bergen	4,786	3,821
Burlington	952	344
Camden	6,743	2,426
Cape May	449	394
Cumberland	350	277
Essex	11,953	5,195
Gloucester	830	458
Hudson	5,188	3,518
Hunterdon	598	52
Mercer	2,651	1,346
Middlesex	1,108	1,854
Monmouth	349	1,281
Morris	762	872
Ocean	230	221
Passaic	4,607	2,573
Salem	349	425
Somerset	173	1,201
Sussex	112	4
Union	3,169	1,455
Warren	500	264
Totals	46,741	28,545

Eight percent of the children reported as receiving the toxoid were less than one year old; 42 percent were less than five years old.

Reports of persons vaccinated with the State vaccine show three percent to have been children less than one year old while 46 percent were children below five years of age.

PNEUMONIA SERUM

Shortly before the beginning of the fiscal year of 1938-39, the Department, under authority and with funds granted by the Legislature, undertook the distribution of anti-pneumococcic sera for use in the treatment of patients financially unable to pay for the material. A plan of distribution was established whereby sera would be available at distributing stations at strategic points about the State, services being given

gratis by such stations. The number of distributing centers necessarily was limited because the high cost of serum and moderate funds available for its purchase prohibited keeping large supplies of material in stock. Chiefly for the same reasons the number of types of sera furnished was restricted to Types 1, 2, 5, 7, 8, horse serum, and Types 1 and 3, rabbit serum. Types 5, 7 and 8, horse serum, and Type 3, rabbit serum, were placed in 17 stations. Other types of the horse serum furnished were available at these same stations and at 17 other places.

Laboratories at which typing of pneumococci might be done in any case before release of serum for its treatment, were approved in conformity with law after investigation by the Bureau of Bacteriology. Such approval had been given 115 laboratories at the end of the fiscal year.

Although many requests were received for a supply of typing serum for use at approved laboratories none was furnished except a limited amount procured through small unexpended funds near the end of the year.

The program was conducted with the co-operation of the Pneumonia Committee of the State Medical Society and the Joint Pneumonia Committee made up of representatives of several groups especially interested. County Medical Societies co-operated and set aside at least one regular meeting for discussion of pneumonia. Speakers were furnished through the State Health Department for several such meetings and motion pictures on the subject of pneumonia were shown. A short non-technical film on pneumonia distributed by the Metropolitan Life Insurance Company was shown at a large number of motion picture theaters in the State.

At the beginning of the year, July 1, 1938, the Legislature made available for the purchase of serum, the balance unexpended from the appropriation of $25,000 made in the preceding year. This amount became exhausted and the furnishing of material had to be curtailed until the Legislature made an additional appropriation of $10,000 and still later of $25,000. All the sums appropriated were used by the end of the year although a substantial amount of serum remained undistributed in stations and available for use during the next fiscal year.

Serum was withdrawn from stations by 452 physicians to treat 782 patients from the time the material was first available early in 1938 to

June 30, 1939. Of these cases 407 were affected with Type 1 pneumococci and 130 with Type 2.

DISTRIBUTION OF ANTI-PNEUMOCOCCI SERA
FROM APRIL 14, 1938, TO JUNE 30, 1939

County	*No. Patients for Whom Sera Withdrawn by County of Withdrawals*							*No. Patients by County of Residence*
	Horse					*Rabbit*		
	1	*2*	*5*	*7*	*8*	*1*	*3*	*All Types*
Atlantic	7	4	0	3	5	0	2	20
Bergen	24	5	6	6	8	1	1	58
Burlington	14	5	1	2	0	0	0	25
Camden	38	5	3	15	5	1	2	62
Cape May	0	0	0	0	0	0	0	1
Cumberland	6	1	1	0	0	0	0	13
Essex	87	34	22	23	29	3	3	200
Gloucester	1	3	3	3	2	0	0	7
Hudson	80	19	5	12	17	0	0	134
Hunterdon	0	0	0	0	0	0	0	2
Mercer	15	3	0	7	2	0	3	22
Middlesex	23	7	1	9	2	0	0	46
Monmouth	27	1	0	0	3	0	0	32
Morris	12	1	4	4	1	0	0	21
Ocean	0	1	0	0	0	0	0	2
Passaic	30	7	4	4	5	2	0	47
Salem	0	0	0	0	0	0	0	4
Somerset	2	5	0	1	0	0	0	8
Sussex	9	15	0	1	1	0	0	23
Union	29	13	1	4	2	0	0	49
Warren	3	1	0	0	0	0	0	6
Total	407	130	51	94	82	7	11	782

Physicians obtaining serum were asked to forward this Department at the termination of the case, a history form showing the amount of serum used in each dose administered and other pertinent information. At the close of the year 777 of such report forms had been received. A tabulation of data on the report forms showed that of the 777 cases treated, 117 died. The mortality in the group was 15 percent. Data from various sources indicate that elsewhere in recent years the mortality in cases of pneumonia of the same specific types of pneumococci

ranged from 25 percent to 42 percent, depending upon the type involved. Had these rates prevailed among the cases treated with the serum supplied by the State, 132 persons who recovered would have died. This warrants the conclusion that the use of serum supplied by the State resulted in saving up to 132 lives.

TABLE SHOWING DISTRIBUTION OF 777 CASES OF PNEUMONIA TREATED WITH STATE SERUM, BY TYPE, WITH THE MORTALITY AND THE PROBABLE SAVING OF LIVES

Type and Kind of Serum		*Cases Treated*	*No. Treated Cases*		*Percent Mortality*	*Estimated Mortality Without Serum*	*Estimated Lives Saved*
			Recovered	*Died*			
Horse	1	409	360	49	12.	30	74
Rabbit	1	3	2	1	33.	30	0
Horse	2	129	106	23	17.8	42	27
Rabbit	3	14	9	5	36.	50	2
Horse	5	48	42	6	12.5	33	10
Horse	7	92	78	14	15.2	25	9
Horse	8	82	63	19	23.1	35	10
Total		777	660	117	15.		132

*Estimate based upon figures in "PNEUMONIA & SERUM THERAPY" by Lord & Heffron, published in 1938.

Other observations from the data tabulated from the 777 case history forms filed by physicians are:

Average duration of disease before serum given	3.14 days
Average amount of serum administered per case	119,055 units
Number cases in which blood cultures were taken	305
Number cases having severe reactions following serum	29
Number cases having mild reactions following serum	189
Number cases showing sequalæ (empyema, etc.)	178

In co-operation with the United States Public Health Service, a special study was carried on to determine the relative proportion of cases of pneumonia caused by the different types of pneumococci throughout the State. In this study, arrangements were made with laboratories in different sections of the State to save all specimens submitted for typing of pneumococci. These specimens were collected by a messenger and were typed by one technician at the State Laboratory. The services of this technician as well as other aid was furnished by the United States Public Health Service.

From the time this work started, August 22, 1938, to June 30, 1939, a total of 1,829 specimens were checked and in 1,474 pneumococci were found. Type 1 was most prevalent, followed by Types 3, 8, 7, 6 and 4 in the order named.

TYPES OF PNEUMOCOCCI FOUND IN SPUTUM SPECIMENS

Type	No.	Type	No.	Type	No.	Type	No.
I	203	VIII	119	XV	15	XXII	29
II	47	IX	32	XVI	35	XXIII	23
III	160	X	29	XVII	31	XXIV	9
IV	65	XI	24	XVIII	43	XXV	9
V	41	XII	5	XIX	37	XXVII	3
VI	66	XIII	30	XX	34	XXVIII	13
VII	97	XIV	51	XXI	11	XXIX	24
						XXX	14

UNITED STATES SOCIAL SECURITY ACT FUNDS

Continued subsidies for public health administration through the United States Public Health Service under Title VI of the Federal Social Security Act made it possible to retain the personnel previously assigned this Bureau and to pay rental charges for four district offices. In addition there was added to the force in one district office a Public Health nurse for communicable disease work whose principal duties are the investigation of cases of syphilis treated at local clinics, the follow up of contacts to such cases and also the follow up of cases delinquent in treatment.

The services of a physician on a part-time basis were utilized in lecturing to small groups of colored physicians in different parts of the State on the subject of tuberculosis with particular reference to this disease among the colored race.

Another physician on a part-time basis was assigned to visit local boards of health and industrial plants in the metropolitan area of the State to encourage and seek co-operation in the Department's proposal for blood testing of employed persons for evidence of syphilis.

For a short time a veterinarian was employed to aid in rabies control work.

Some subsidy from Federal funds was also continued as described last year to the boards of health in Newark, Jersey City, Camden, Paterson, East Orange and Plainfield.

Not only the Bureau but the Department suffered an irreparable loss during the year in the death of Dr. I. W. Knight. Dr. Knight was employed by the Department on April 25, 1916, as Assistant Epidemiologist and later as the first State District Health Officer.

Subsidies from Federal funds were also continued to four local health units, each comprised of a group of three or more local boards of health jointly employing the same local health officer and having a joint advisory committee of representatives of each of the component local boards. One of the units is comprised of Asbury Park and four other nearby municipalities; one includes Long Branch and five other municipalities; another includes Union Township, Kenilworth and Roselle in Union County while the fourth consists of Cranford Township, Clark Township and Garwood Borough in Union County.

INSPECTIONS OF LUNCH ROOMS AND CAMPS

Inspection of lunch rooms in rural areas and in small towns, either in conjunction with local health officials or independently, was carried on to the extent possible. A total of 1,376 inspections and reinspections were made of such establishments by employees in the Bureau and a large number of violations of provisions of statute pertaining to the sanitation of such places were corrected.

Late in the year at a special conference called by His Excellency, Governor Moore, the opinion was expressed by many that the approaching New York World's Fair would attract to New Jersey many tourists from all parts of the country journeying to the Fair and that control of sanitary conditions at highway eating places and other places open to the public would be a special problem for which health authorities of the State and the municipalities should assume responsibility. To meet such a situation two factors had to be considered; personnel and legislation giving the State Health Department definite jurisdiction over certain conditions pertaining to sanitation with authority to bring legal action promptly and readily in case of continued or flagrant violations.

No State funds for increased personnel were appropriated. However, in budgets of Federal funds allotted through the United States Public

Health Service, provision was made for additional inspection service for the summer beginning July 1, 1939.

A bill granting the Director of Health joint authority with local boards of health in matters relating to basic sanitation at public places was prepared and introduced for consideration by the Legislature. Public places within the scope of the proposed act were so defined as to include certain places of business, tourist cabins and camps as well as restaurants and lunch rooms. At the end of the year considered in this report this bill had not yet become a law.

Inspection of camps also was carried on during the year as extensively as practical. Many camps chiefly for boys and girls have been established in the State, most of which are in the northern counties. Experience has shown that local boards of health in many rural areas cannot be depended upon to ascertain conditions of sanitation at such camps and moreover, experience has shown that persons or organizations responsible for many such camps, cannot be depended upon even though intensely interested, to seek out and correct conditions at such places which might seriously affect the health of campers. Inspection by the State Department of Health partly meets this situation. During the year employees in the Bureau made inspections of 157 camps.

Special Investigations and Surveys

Complaints are referred to this Bureau of many conditions alleged to be public health nuisances. These include complaints of private water supplies, private sewage collection and disposal systems, garbage and refuse accumulations, fly and mosquito breeding area, etc. Matters of this character properly come within the jurisdiction of local health boards. During the year, however, the Bureau made 1,510 investigations of matters or complaints of this nature chiefly in company with representatives of local boards of health.

Employees in the Bureau joined with employees in the Bureau of Engineering in making special house to house inspections of sewage disposal at premises in Somerdale, Camden County; Hamilton Township, Mercer County; Piscataway Township, Middlesex County; Passaic Township, Morris County, and in making an extensive inspection of private water supplies in Englishtown Borough, Monmouth County.

Considerable time and effort of employees in the Bureau were given during the year to the work and deliberations of several Committees of the New Jersey Health and Welfare Conference called by Governor Moore to study health needs in the State as related to general findings and recommendations for the health and welfare of the nation as set forth in the report considered in July, 1938 at the National Health Conference.

Training of Health Personnel

Courses for training personnel for health departments, conducted in co-operation with Rutgers University, were offered as in recent years. These comprised (1) summer courses, held two days a week for six weeks, covering a two-summer period, which afford 144 hours basic training in the field of public health; and (2) winter courses held Wednesday evenings and Saturday afternoons for two terms of ten weeks each, which offer advanced training to employees of health departments and others approved by the Department.

Thirty students were enrolled in the summer courses in 1938 and received training in public health administration by means of lectures, laboratory work and field trips.

The 1938 winter courses offered instruction in communicable disease control, public information service for a health department, sanitation, bacteriology, food control, water supply and sewage disposal, public health problems, public speaking, parasitology, and insect control.

There were 138 persons admitted to these 12 winter courses, and 111 completed one or more of them. Since three classes were held at the same time, the maximum number of courses one person could attend during the winter was four. Five students completed four courses each, four completed three courses, 41 finished two courses, and 61 finished one course.

The faculty of Rutgers University, the Department's staff and various experts in the subjects taught were drawn upon to give instruction in these courses. Students and teachers both felt this method of training meets an important need in a practical way. The winter courses were supported by Federal funds allotted to New Jersey and were free to students approved by the Department.

One of the medical assistants assigned to the Bureau completed the post graduate course for physicians offered by the Harvard School of Public Health and leading to the degree of Master of Public Health. Three medical assistants also attended a symposium on rickettsial diseases at Harvard.

Three sanitarians in the Bureau were given leaves of absence to attend courses covering five months' instruction at the School of Public Health, University of Michigan. Two of them who attended the school in 1938 also received the degree of Master of Science in Public Health.

Other Work

Services rendered and work performed by the Bureau during the year, in addition to the activities mentioned, are indicated in part below:

Number of conferences with local health officials on questions pertaining to health work	5,691
Number of conferences with other public officials, physicians, and citizens on matters relating to public health	6,536
Number of meetings of local boards of health attended	218
Attendance at other public health meetings	405
Number of lectures given in summer courses for health officials	55
Number of lectures given in special courses for health officials	40
Number of other talks or lectures given or papers read	72
Number of persons given Schick, Dick or Mantoux tests or aid rendered in such tests	1,133
Number of water samples collected (private supplies)	794
Number of specimens collected from humans, either by employees of the Bureau, or with their aid, to be examined for pathogenic bacteria	1,642
Number of other specimens and samples collected for laboratory examination	120

Works Progress Administration Project

The Rural Community Sanitation project operated during the past year in all counties except Hudson and Essex. Under this project there are constructed outdoor pit privies of a standard type consisting of a concrete slab cover for the pit and a concrete riser for the seat, as part of the pit cover. Special urinal units are also being constructed to meet many requests for such units at semi-public places. All work in constructing and erecting the units is performed by WPA labor; all materials used in the construction including lumber, hardware, cement, paints, etc., are supplied by the person for whom the unit is built and erected.

The project sponsored by the Department is administered in the Bureau of Local Health Administration under the direction of Dr. N. E. Newbury, who is employed by the United States Public Health Service. Field assistants previously paid by the United States Public Health Service could not be continued on the payroll due to reduced appropriation to that organization, and during the latter part of the year, although the three assistants continued to work, their compensation was reduced and came partly from other funds. During the year, 6,218 units were erected. At the close of the year June 30, 1939, 402 men were working on the project. The cost of building material purchased by individuals and used in the construction of the 16,966 units erected since the project first opened amounts to $414,371.66.

Rural Sanitation Units Constructed in Counties of New Jersey

County	*Date Project Opened*	*Number Units Built for Fiscal Year Ending June 30, 1939*	*Total Number Units Built to June 30, 1939*
Atlantic	February 24, 1936	624	2,188
Burlington	February 24, 1936	276	1,223
Camden	February 24, 1936	329	1,073
Cape May	February 24, 1936	339	907
Cumberland	February 24, 1936	544	2,066
Gloucester	February 24, 1936	353	1,234
Salem	February 25, 1936	270	741
Mercer	July 1, 1936	326	1,145
Middlesex	September 7, 1937	269	386
Monmouth	February 24, 1936	364	1,168
Ocean	February 24, 1936	664	1,874
Somerset	September 7, 1937	327	427
Union	September 7, 1937	225	304
Bergen	July 1, 1937	178	387
Hunterdon	September 7, 1937	238	352
Morris	September 7, 1937	196	293
Passaic	July 1, 1937	204	377
Sussex	July 15, 1937	155	337
Warren	September 7, 1937	337	484
Total		6,218	16,966

Division of Venereal Disease Control

A report of the activities of this Division will be found elsewhere. In formulating the policy of developing venereal disease treatment clinics in several counties, groups of boards of health therein joined, with State aid, in establishing and maintaining clinics for infected persons in the low-wage group.

District health officers of the Bureau expended much time and effort in encouraging and aiding the organization of such groups. The fact that boards of health have pooled resources in such an undertaking, and through a central representative body maintained a clinic, is a definite demonstration of the practicability of joint local administration of a health project, if the local desire is sufficiently determined.

Such joint groups, organized either as legal regional health commissions or as voluntary health committees, existed at the close of the year in eight counties; one in Atlantic, three in Burlington, two in Cape May, one in Cumberland, one in Gloucester, one in Hudson, six in Monmouth, four in Morris and one in Ocean.

Local Boards of Health

In 1938 the number of municipalities, townships and other places in the State authorized by law to have a local health department was 567. The local boards of health in all but five of these districts filed with the State Department of Health an annual report as required by law. The information contained in the 562 reports received showed that the local health departments had funds available for their use during 1938 to the amount of $2,428,226.37, or 55 cents per capita. This sum does not include $191,016.80 which these departments reported as spent for hospital maintenance, garbage and rubbish removal. In 1931, 552 local departments reported an expenditure of $2,179,409.00, not including expenditures for hospitals, garbage and rubbish removal. This sum was equivalent to 52 cents per capita.

The amount of money available for local health departments in incorporated municipalities was, as usual, considerably greater than in townships. In 1938 the amount available to health departments in such municipalities, less deductions of amounts spent for hospital maintenance, garbage and rubbish removal, was equal to 63 cents per capita.

The comparable figure for townships was 23 cents per capita. In 1931 the corresponding amounts per capita were 59 cents and 23 cents.

The number of employees reported by 562 local health departments for the year 1938 was 2,018. Of this number 728 were recorded as full-time employees while 1,290 served on a part-time basis. The corresponding numbers for the year 1931 were 688 full-time employees and 1,043 part-time. Of the 562 local health departments which filed annual reports, 195 reported the employment of a health officer. Sixty-one of these health officers were employed on a full-time and 134 on a part-time basis.

REPORTED CASES OF CHICKENPOX IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	481	75	75	76	76	56	29	16	7	1	9	26	35
1 year	699	97	112	139	72	69	58	29	12	9	8	29	65
2 years	931	147	126	174	122	105	74	37	9	7	17	42	61
3 years	1113	174	182	219	155	107	83	20	9	10	16	52	86
4 years	1347	224	227	240	200	132	97	30	4	9	20	71	93
Under 5 years	4571	717	732	848	625	469	341	132	41	36	70	220	340
5 to 9 years	12463	2056	2113	2371	1706	1103	907	178	22	68	327	762	850
10 to 14 years	1587	236	290	308	248	169	104	13	7	12	31	84	85
15 to 19 years	191	33	38	38	27	20	8	2	1	0	2	8	14
20 to 24 years	77	8	12	13	12	10	4	5	1	0	0	2	5
25 to 34 years	86	10	14	14	13	10	5	2	0	1	2	3	7
35 to 44 years	44	10	4	8	4	6	2	1	0	1	1	3	4
45 to 54 years	6	0	1	0	1	2	0	2	0	0	0	0	0
55 to 64 years	2	2	0	0	0	0	0	0	0	0	0	0	0
65 years and over	4	1	2	0	1	0	0	0	0	0	0	0	0
Age not stated	25	6	3	1	1	4	0	0	0	0	2	3	5
Total	19056	3679	3209	3606	2643	1793	1371	335	72	118	435	1085	1310

REPORTED CASES AND DEATHS FROM CHICKENPOX IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	229	2	252	1	481	3
1 year	340	1	359	0	699	1
2 years	490	0	432	1	931	1
3 years	560	0	553	0	1113	0
4 years	682	0	665	0	1347	0
Under 5 years	2310	3	2261	2	4571	5
5 to 9 years	6495	2	5968	0	12463	2
10 to 14 years	813	0	774	0	1587	0
15 to 19 years	97	0	94	0	191	0
20 to 24 years	36	0	41	0	77	0
25 to 34 years	44	0	42	0	86	0
35 to 44 years	25	0	19	0	44	0
45 to 54 years	4	0	2	0	6	0
55 to 64 years	0	0	2	0	2	0
65 years and over	2	0	2	0	4	0
Age not stated	16	0	9	0	25	0
Total	9842	5	9214*	2	19056	7

REPORTED CASES OF DIPHTHERIA IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	17	5	4	1	3	1	1	0	0	0	0	1	1
1 year	23	1	5	2	1	3	4	0	0	1	2	1	3
2 years	40	6	9	5	3	3	1	1	3	1	2	1	5
3 years	39	1	5	7	5	4	1	2	2	1	3	2	6
4 years	36	5	3	2	5	2	3	3	3	1	2	3	4
Under 5 years	155	18	26	17	17	13	10	6	8	4	9	8	19
5 to 9 years	212	18	27	25	23	21	23	6	8	10	13	18	20
10 to 14 years	91	12	12	8	8	7	7	7	1	6	4	9	10
15 to 19 years	33	4	6	4	2	1	1	5	0	2	2	2	4
20 to 24 years	24	1	5	3	3	3	2	0	1	1	2	3	0
25 to 34 years	39	7	7	1	2	3	2	2	1	1	5	1	7
35 to 44 years	12	2	2	2	1	1	1	1	0	1	0	1	0
45 to 54 years	5	1	0	0	1	0	1	1	1	0	0	0	0
55 to 64 years	1	0	0	0	0	0	0	0	0	0	1	0	0
65 years and over	1	0	0	0	0	0	0	0	0	0	0	0	1
Age not stated	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	574	63	85	60	57	49	47	28	20	25	36	42	62

REPORTED CASES AND DEATHS FROM DIPHTHERIA IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	14	2	3	0	17	2
1 year	14	1	9	1	23	2
2 years	20	1	20	2	40	3
3 years	25	4	14	1	39	5
4 years	19	2	17	3	36	5
Under 5 years	92	10	63	7	155	17
5 to 9 years	113	6	99	3	212	9
10 to 14 years	48	0	43	1	91	1
15 to 19 years	9	0	24	0	33	0
20 to 24 years	8	0	16	0	24	0
25 to 34 years	10	1	29	0	39	1
35 to 44 years	3	0	9	2	12	2
45 to 54 years	2	0	3	1	5	1
55 to 64 years	1	1	0	1	1	2
65 years and over	1	0	0	0	1	0
Age not stated	0	0	1	0	1	0
Total	287	18	287	15	574	33

REPORTED CASES OF DYSENTERY IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	1	0	0	0	0	0	0	0	0	1	0	0	0
1 year	1	0	0	0	0	0	0	0	0	0	1	0	0
2 years	1	0	0	0	0	1	0	0	0	0	0	0	0
3 years	0	0	0	0	0	0	0	0	0	0	0	0	0
4 years	1	0	0	0	0	0	0	0	0	0	1	0	0
Under 5 years	4	0	0	0	0	1	0	0	0	1	2	0	0
5 to 9 years	4	0	0	0	0	0	0	0	0	2	1	1	0
10 to 14 years	2	0	0	0	0	0	0	1	0	0	1	0	0
15 to 19 years	2	0	0	0	0	0	0	0	2	0	0	0	0
20 to 24 years	2	0	0	0	0	1	0	0	0	0	0	0	1
25 to 34 years	3	0	0	0	0	2	0	1	0	0	0	0	0
35 to 44 years	2	0	0	1	0	0	1	0	0	0	0	0	0
45 to 54 years	1	1	0	0	0	0	0	0	0	0	0	0	0
55 to 64 years	1	0	0	0	0	0	0	1	0	0	0	0	0
65 years and over	2	0	0	0	0	0	1	0	0	0	1	0	0
Age not stated	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	22	1	0	1	0	4	2	3	2	3	5	1	1

REPORTED CASES AND DEATHS FROM DYSENTERY IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	0	1	1	0	1	1
1 year	1	0	0	0	1	0
2 years	1	0	0	0	1	0
3 years	0	0	0	1	0	1
4 years	1	0	0	0	1	0
Under 5 years	3	1	1	1	4	2
5 to 9 years	4	0	0	0	4	0
10 to 14 years	0	0	2	0	2	0
15 to 19 years	2	0	0	0	2	0
20 to 24 years	2	0	0	0	2	0
25 to 34 years	1	1	2	1	3	2
35 to 44 years	2	2	0	1	2	3
45 to 54 years	1	0	0	1	1	1
55 to 64 years	1	1	0	0	1	1
65 years and over	2	1	0	0	2	1
Age not stated	0	0	0	0	0	0
Total	18	6	5	4	23	10

REPORTED CASES OF EPIDEMIC CEREBRO-SPINAL MENINGITIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	4	0	0	0	0	2	1	1	0	0	0	0	0
1 year	0	0	0	0	0	0	0	0	0	0	0	0	0
2 years	1	0	0	0	0	0	0	0	0	1	0	0	0
3 years	4	2	0	1	0	0	1	0	0	0	0	0	0
4 years	2	2	0	0	0	0	0	0	0	0	0	0	0
Under 5 years	11	4	0	1	0	2	2	1	0	1	0	0	0
5 to 9 years	8	3	2	0	1	0	1	0	0	1	0	0	0
10 to 14 years	3	0	2	0	0	0	0	0	0	0	0	0	1
15 to 19 years	5	0	0	1	1	0	0	1	0	0	0	1	1
20 to 24 years	3	0	1	0	0	0	0	0	0	0	1	0	1
25 to 34 years	9	1	0	1	0	0	3	0	0	0	0	1	3
35 to 44 years	4	1	2	0	0	0	0	1	0	0	0	0	0
45 to 54 years	10	3	1	2	0	0	2	1	0	0	1	0	0
55 to 64 years	0	0	0	0	0	0	0	0	0	0	0	0	0
65 years and over	1	0	0	0	1	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	54	12	8	5	3	2	8	4	0	2	2	2	6

REPORTED CASES AND DEATHS FROM EPIDEMIC CEREBRO-SPINAL MENINGITIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	3	2	1	0	4	2
1 year	0	0	0	0	0	0
2 years	0	0	1	1	1	1
3 years	1	1	3	0	4	1
4 years	0	0	2	1	2	1
Under 5 years	4	3	7	2	11	5
5 to 9 years	6	0	2	1	8	1
10 to 14 years	2	1	1	2	3	3
15 to 19 years	4	1	1	0	5	1
20 to 24 years	1	1	2	1	3	2
25 to 34 years	8	2	1	2	9	4
35 to 44 years	2	0	2	0	4	0
45 to 54 years	4	2	6	2	10	4
55 to 64 years	0	1	0	0	0	1
65 years and over	1	1	0	0	1	1
Age not stated	0	0	0	0	0	0
Total	32	12	22	10	54	22

REPORTED CASES OF GERMAN MEASLES IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	55	9	3	5	10	7	4	4	3	3	0	3	
1 year	94	8	4	10	8	10	9	8	11	3	6	8	9
2 years	58	1	6	7	8	10	5	7	1	2	3	2	6
3 years	47	2	4	8	8	7	3	2	1	2	1	4	5
4 years	52	8	6	5	7	8	5	2	2	4	1	1	3
Under 5 years	306	28	23	35	41	42	26	23	19	14	14	15	26
5 to 9 years	308	43	35	62	42	44	34	10	5	8	9	7	9
10 to 14 years	71	6	4	16	17	10	2	0	2	2	5	6	1
15 to 19 years	25	4	6	1	4	1	3	2	0	0	1	2	1
20 to 24 years	5	0	0	3	1	0	0	0	0	0	0	0	1
25 to 34 years	6	0	0	2	1	3	0	0	0	0	0	0	0
35 to 44 years	1	0	0	1	0	0	0	0	0	0	0	0	0
45 to 54 years	0	0	0	0	0	0	0	0	0	0	0	0	0
55 to 64 years	1	0	0	0	1	0	0	0	0	0	0	0	0
65 years and over	0	0	0	0	0	0	0	0	0	0	0	0	0
Age not stated	3	0	1	0	0	0	0	0	0	0	1	1	0
Total	726	81	69	120	107	100	65	35	26	24	30	31	38

REPORTED CASES AND DEATHS FROM GERMAN MEASLES IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	24	0	31	0	55	0
1 year	47	0	47	0	94	0
2 years	32	0	26	0	58	0
3 years	22	0	25	0	47	0
4 years	26	0	26	0	52	0
Under 5 years	151	0	155	0	306	0
5 to 9 years	141	0	167	1	308	1
10 to 14 years	38	0	33	0	71	0
15 to 19 years	13	0	12	0	25	0
20 to 24 years	3	0	2	0	5	0
25 to 34 years	2	0	4	0	6	0
35 to 44 years	0	0	1	0	1	0
45 to 54 years	0	0	0	0	0	0
55 to 64 years	1	0	0	0	1	0
65 years and over	0	0	0	0	0	0
Age not stated	1	0	2	0	3	0
Total	350	0	376	1	726	1

REPORTED CASES OF INFLUENZA IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	13	0	1	6	1	0	0	0	0	2	1	1	1
1 year	14	0	2	4	2	0	0	1	1	0	2	1	1
2 years	21	1	3	6	2	1	0	3	0	0	2	2	1
3 years	19	2	2	7	3	1	0	1	0	2	0	0	1
4 years	11	1	1	4	1	0	0	0	1	1	1	0	1
Under 5 years	78	4	9	27	9	2	0	5	2	5	6	4	5
5 to 9 years	55	2	9	11	7	4	3	0	1	5	7	1	5
10 to 14 years	32	6	1	5	4	4	1	1	4	3	1	2	0
15 to 19 years	31	2	4	7	1	2	2	2	3	1	1	4	2
20 to 24 years	42	3	6	9	3	2	0	0	1	5	5	3	5
25 to 34 years	64	6	10	8	2	4	1	3	2	7	9	6	6
35 to 44 years	76	8	14	13	3	4	1	4	0	4	7	8	9
45 to 54 years	50	9	8	6	5	4	2	1	3	1	4	1	6
55 to 64 years	26	3	4	4	4	0	1	0	1	0	3	5	1
65 years and over	24	5	6	4	0	0	0	0	0	1	4	1	3
Age not stated	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	478	48	71	94	38	26	11	16	17	32	47	35	43

REPORTED CASES AND DEATHS FROM INFLUENZA IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	9	9	4	4	13	13
1 year	8	4	6	0	14	4
2 years	11	4	10	2	21	6
3 years	10	1	9	2	19	3
4 years	6	0	5	0	11	0
Under 5 years	44	18	34	8	78	26
5 to 9 years	43	5	12	3	55	8
10 to 14 years	17	3	15	1	32	4
15 to 19 years	18	0	13	3	31	3
20 to 24 years	19	2	23	5	42	7
25 to 34 years	16	6	48	6	64	12
35 to 44 years	39	5	36	4	75	9
45 to 54 years	25	14	25	12	50	26
55 to 64 years	11	16	15	16	26	32
65 years and over	11	30	13	43	24	73
Age not stated	1	0	0	0	1	0
Total	244	99	234	101	478	200

REPORTED CASES OF LETHARGIC ENCEPHALITIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	0	0	0	0	0	0	0	0	0	0	0	0	0
1 year	1	0	0	1	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	2	0	0	1	0	0	0	0	0	0	0	0	1
Under 5 years	3	0	0	2	0	0	0	0	0	0	0	0	1
5 to 9 years	2	0	0	0	0	0	1	0	0	1	0	0	0
10 to 14 years	4	0	0	1	0	0	0	0	0	0	1	0	2
15 to 19 years	1	1	0	0	0	0	0	0	0	0	0	0	0
20 to 24 years	4	0	0	0	0	0	0	0	1	0	0	0	3
25 to 34 years	3	0	0	0	0	1	0	0	1	0	0	0	1
35 to 44 years	1	0	0	0	0	0	1	0	0	0	0	0	0
45 to 54 years	3	0	0	0	0	1	2	0	0	0	0	0	0
55 to 64 years	1	0	0	0	0	1	0	0	0	0	0	0	0
65 years and over	1	1	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	23	2	0	3	0	3	4	0	2	1	1	0	7

REPORTED CASES AND DEATHS FROM LETHARGIC ENCEPHALITIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	0	0	0	1	0	1
1 year	1	0	0	0	1	0
2 years	0	0	0	0	0	0
3 years	0	0	0	0	0	0
4 years	0	0	2	0	2	0
Under 5 years	1	0	2	1	3	1
5 to 9 years	2	1	0	0	2	1
10 to 14 years	3	0	1	0	4	0
15 to 19 years	1	0	0	1	1	1
20 to 24 years	1	0	3	0	4	0
25 to 34 years	1	3	2	1	3	4
35 to 44 years	0	3	1	3	1	6
45 to 54 years	1	5	2	2	3	7
55 to 64 years	1	3	0	2	1	5
65 years and over	1	2	0	1	1	3
Age not stated	0	0	0	0	0	0
Total	12	17	11	11	23	28

REPORTED CASES OF MEASLES IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	509	65	84	90	93	72	42	18	11	5	4	14	11
1 year	1086	151	187	198	220	150	83	26	26	8	9	9	19
2 years	1465	207	260	292	305	201	124	43	4	5	5	10	9
3 years	1781	273	301	364	371	276	134	39	5	3	3	4	8
4 years	1989	296	351	418	415	294	146	45	10	1	3	4	6
Under 5 years	6830	992	1183	1362	1404	993	529	171	56	22	24	41	53
5 to 9 years	16457	2389	3437	5489	3514	2125	1053	157	19	16	21	18	19
10 to 14 years	3042	426	644	729	599	403	209	26	6	2	2	3	2
15 to 19 years	456	59	93	166	75	36	25	2	0	1	3	1	1
20 to 24 years	100	15	15	24	20	14	6	5	0	0	0	1	0
25 to 34 years	104	9	26	28	16	17	3	4	0	1	0	0	0
35 to 44 years	34	5	5	9	7	7	1	0	0	0	0	0	0
45 to 54 years	10	0	1	3	5	1	0	0	0	0	0	0	0
55 to 64 years	7	1	0	3	1	1	0	0	0	0	0	0	1
65 years and over	5	2	1	0	2	0	0	0	0	0	0	0	0
Age not stated	44	3	6	11	15	4	3	0	0	1	0	1	0
Total	27089	4101	5411	5818	5658	3601	1820	365	81	43	50	65	76

REPORTED CASES AND DEATHS FROM MEASLES IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	266	2	243	6	509	8
1 year	573	1	511	2	1086	3
2 years	755	3	710	2	1465	5
3 years	936	0	845	1	1781	1
4 years	1008	0	981	1	1989	1
Under 5 years	3540	6	3290	12	6830	18
5 to 9 years	8406	3	8051	8	16457	11
10 to 14 years	1517	1	1525	0	3042	1
15 to 19 years	261	1	195	0	456	1
20 to 24 years	38	0	62	0	100	0
25 to 34 years	39	0	65	0	104	0
35 to 44 years	12	0	22	0	34	0
45 to 54 years	7	0	3	0	10	0
55 to 64 years	0	0	7	0	7	0
65 years and over	2	0	3	0	5	0
Age not stated	25	0	19	0	44	0
Total	13847	11	13242	20	27089	31

REPORTED CASES OF MUMPS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	36	0	2	4	5	7	3	2	3	1	1	2	4
1 year	97	9	9	13	11	13	12	10	4	6	2	5	3
2 years	213	19	20	27	36	26	26	19	16	2	5	3	14
3 years	279	20	25	43	44	35	30	31	14	5	11	8	13
4 years	379	33	24	49	53	64	50	54	17	11	3	4	17
Under 5 years	1004	81	80	136	149	145	123	116	54	25	22	22	51
5 to 9 years	4790	347	547	873	870	690	594	269	82	30	107	135	220
10 to 14 years	1759	181	221	334	304	221	175	70	31	22	32	63	105
15 to 19 years	346	35	42	74	58	49	37	8	6	5	10	7	24
20 to 24 years	121	15	18	21	10	18	13	10	1	4	3	4	4
25 to 34 years	213	21	26	45	29	30	22	15	4	1	6	8	12
35 to 44 years	107	9	7	19	20	17	9	11	4	0	3	3	5
45 to 54 years	29	3	5	5	5	7	1	1	0	0	0	2	0
55 to 64 years	11	2	1	2	3	0	1	0	1	0	0	0	1
65 years and over	4	1	0	1	0	1	0	0	0	1	0	0	0
Age not stated	25	0	3	7	3	0	1	0	2	2	3	1	3
Total	8409	695	944	1517	1451	1169	976	500	185	110	186	245	431

REPORTED CASES AND DEATHS FROM MUMPS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	21	0	15	0	36	0
1 year	48	0	49	0	97	0
2 years	123	0	90	1	213	1
3 years	146	0	133	0	279	0
4 years	215	0	164	0	379	0
Under 5 years	552	0	452	1	1004	1
5 to 9 years	2635	0	2155	0	4790	0
10 to 14 years	942	0	817	0	1759	0
15 to 19 years	178	0	168	0	346	0
20 to 24 years	47	0	74	0	121	0
25 to 34 years	78	0	135	0	213	0
35 to 44 years	42	0	65	0	107	0
45 to 54 years	7	0	22	0	29	0
55 to 64 years	4	0	7	0	11	0
65 years and over	1	1	3	0	4	1
Age not stated	15	0	10	0	25	0
Total	4501	1	3908	1	8409	2

REPORTED CASES OF PARATYPHOID FEVER IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	0	0	0	0	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	1	0	0	0	1	0	0	0	0	0	0	0	0
3 years	2	0	0	0	1	0	0	0	0	1	0	0	0
4 years	0	0	0	0	0	0	0	0	0	0	0	0	0
Under 5 years	3	0	0	0	2	0	0	0	0	1	0	0	0
5 to 9 years	3	0	0	0	1	0	0	1	1	0	0	0	0
10 to 14 years	3	0	0	0	0	2	0	0	0	0	0	1	0
15 to 19 years	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24 years	2	0	1	0	0	0	1	0	0	0	0	0	0
25 to 34 years	4	0	0	0	0	0	0	3	0	0	0	0	1
35 to 44 years	1	0	0	0	0	0	0	1	0	0	0	0	0
45 to 54 years	1	0	0	0	0	0	0	1	0	0	0	0	0
55 to 64 years	2	0	0	0	0	0	0	1	0	0	1	0	0
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	0	0	0
Total	19	0	1	0	3	2	1	7	1	1	1	1	1

REPORTED CASES AND DEATHS FROM PARATYPHOID FEVER IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	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	1	0	0	0	1	0
3 years	1	0	1	0	2	0
4 years	0	0	0	0	0	0
Under 5 years	2	0	1	0	3	0
5 to 9 years	2	0	1	0	3	0
10 to 14 years	3	0	0	0	3	0
15 to 19 years	0	0	0	0	0	0
20 to 24 years	2	1	0	0	2	1
25 to 34 years	1	0	3	0	4	0
35 to 44 years	0	0	1	0	1	0
45 to 54 years	1	0	0	0	1	0
55 to 64 years	1	0	1	1	2	1
65 years and over	0	0	0	0	0	0
Age not stated	0	0	0	0	0	0
Total	12	1	7	1	19	2

REPORTED CASES OF PNEUMONIA IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	356	23	45	88	60	38	21	6	6	7	11	16	35
1 year	267	25	38	59	41	30	15	9	6	5	10	11	18
2 years	242	26	40	65	37	17	11	4	0	7	7	4	24
3 years	170	15	27	39	32	18	3	3	1	1	8	8	15
4 years	138	14	10	34	22	12	8	4	3	4	9	5	13
Under 5 years	1173	103	160	285	192	115	58	26	16	24	45	44	105
5 to 9 years	648	76	106	135	77	56	40	14	10	19	29	26	60
10 to 14 years	298	37	56	46	22	20	14	9	8	12	16	34	24
15 to 19 years	231	24	40	42	17	13	7	8	8	11	16	20	25
20 to 24 years	196	20	33	24	11	10	10	8	13	8	11	22	26
25 to 34 years	422	42	50	72	38	24	13	14	10	18	35	43	63
35 to 44 years	467	70	69	69	38	35	14	17	15	21	32	30	57
45 to 54 years	439	57	54	73	45	31	25	13	15	16	29	27	54
55 to 64 years	451	78	54	74	57	23	21	14	8	9	21	30	57
65 years and over	733	99	92	123	87	54	30	30	28	22	41	44	83
Age not stated	20	6	1	1	0	3	1	0	1	2	1	2	2
Total	5078	612	715	944	584	389	233	153	132	162	276	322	556

REPORTED CASES AND DEATHS FROM PNEUMONIA IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	210	196	146	170	356	366
1 year	126	44	141	43	267	87
2 years	130	25	112	21	242	46
3 years	86	14	84	7	170	21
4 years	77	8	61	7	138	15
Under 5 years	629	287	544	248	1173	535
5 to 9 years	348	15	300	18	648	33
10 to 14 years	170	14	128	16	298	30
15 to 19 years	148	20	83	14	231	34
20 to 24 years	105	18	91	21	196	39
25 to 34 years	232	72	190	53	422	125
35 to 44 years	278	116	189	80	467	196
45 to 54 years	278	180	161	77	439	257
55 to 64 years	257	213	194	143	451	356
65 years and over	340	376	393	421	733	797
Age not stated	7	0	13	0	20	0
Total	2722	1311	2286	1091	5078	2402

REPORTED CASES OF ACUTE ANTERIOR POLIOMYELITIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	0	0	0	0	0	0	0	0	0	0	0	0	0
1 year	3	0	1	0	0	0	0	0	1	0	0	0	1
2 years	3	0	0	0	0	0	0	0	1	1	1	0	0
3 years	0	0	0	0	0	0	0	0	0	0	0	0	0
4 years	3	0	0	0	0	0	0	1	0	1	0	0	1
Under 5 years	9	0	1	0	0	0	0	1	2	2	1	0	2
5 to 9 years	13	0	0	1	2	0	1	1	5	1	1	1	0
10 to 14 years	8	0	0	0	0	0	0	1	3	2	1	0	1
15 to 19 years	2	0	0	0	0	0	0	0	0	1	1	0	0
20 to 24 years	1	0	0	0	0	0	0	0	1	0	0	0	0
25 to 34 years	4	0	0	0	0	0	0	0	1	2	0	1	0
35 to 44 years	2	1	0	0	0	0	0	0	0	0	1	0	0
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	0	0
65 years and over	0	0	0	0	0	0	0	0	0	0	0	0	0
Age not stated	1	0	0	0	0	0	0	0	0	0	0	1	0
Total	40	1	1	1	2	0	1	3	12	8	5	3	3

REPORTED CASES AND DEATHS FROM ACUTE ANTERIOR POLIOMYELITIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	0	0	0	0	0	0
1 year	2	0	1	0	3	0
2 years	3	2	0	0	3	2
3 years	0	0	0	0	0	0
4 years	1	1	2	2	3	3
Under 5 years	6	3	3	2	9	5
5 to 9 years	9	0	4	0	13	0
10 to 14 years	5	2	3	1	8	3
15 to 19 years	2	1	0	0	2	1
20 to 24 years	1	0	0	0	1	0
25 to 34 years	1	0	3	0	4	0
35 to 44 years	1	0	1	0	2	0
45 to 54 years	0	0	0	1	0	1
55 to 64 years	0	0	0	0	0	0
65 years and over	0	0	0	0	0	0
Age not stated	1	0	0	0	1	0
Total	26	6	14	4	40	10

REPORTED CASES OF SCARLET FEVER IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	17	1	5	5	0	1	1	1	0	0	0	2	1
1 year	73	10	8	15	11	7	9	0	1	1	5	2	4
2 years	183	21	26	25	33	19	6	7	0	4	8	16	18
3 years	270	37	33	47	39	25	20	10	7	7	6	13	26
4 years	331	48	41	51	51	31	22	9	2	8	18	22	28
Under 5 years	874	117	113	143	134	83	58	27	10	20	37	55	77
5 to 9 years	2018	288	269	318	261	231	152	27	26	34	76	168	168
10 to 14 years	643	69	62	119	99	87	41	11	10	14	21	33	57
15 to 19 years	185	19	26	32	19	21	14	8	5	5	5	10	21
20 to 24 years	70	10	7	17	14	2	6	1	1	1	3	3	5
25 to 34 years	97	9	14	20	15	4	3	1	4	4	10	6	7
35 to 44 years	59	7	3	15	7	5	5	3	1	4	3	2	4
45 to 54 years	15	3	1	5	0	1	1	0	1	0	0	1	2
55 to 64 years	3	1	1	0	0	0	0	0	0	0	0	0	1
65 years and over	0	0	0	0	0	0	0	0	0	0	0	0	0
Age not stated	5	0	2	0	0	0	0	0	0	0	1	2	0
Total	3969	523	518	669	549	434	280	78	58	82	156	280	342

REPORTED CASES AND DEATHS FROM SCARLET FEVER IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	6	0	11	0	17	0
1 year	39	0	34	0	73	0
2 years	95	0	88	2	183	2
3 years	142	1	128	1	270	2
4 years	166	2	165	0	331	2
Under 5 years	448	3	426	3	874	6
5 to 9 years	971	2	1047	1	2018	3
10 to 14 years	294	0	349	0	643	0
15 to 19 years	95	0	90	0	185	0
20 to 24 years	19	0	51	0	70	0
25 to 34 years	34	1	63	1	97	2
35 to 44 years	21	0	38	0	59	0
45 to 54 years	9	1	6	0	15	1
55 to 64 years	2	0	1	0	3	0
65 years and over	0	0	0	0	0	0
Age not stated	1	0	4	0	5	0
Total	1894	7	2075	5	3969	12

REPORTED CASES OF TRICHINOSIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	0	0	0	0	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	1	1	0	0	0	0	0	0	0	0	0	0	0
Under 5 years	1	1	0	0	0	0	0	0	0	0	0	0	0
5 to 9 years	0	0	0	0	0	0	0	0	0	0	0	0	0
10 to 14 years	0	0	0	0	0	0	0	0	0	0	0	0	0
15 to 19 years	1	1	0	0	0	0	0	0	0	0	0	0	0
20 to 24 years	0	0	0	0	0	0	0	0	0	0	0	0	0
25 to 34 years	3	0	1	0	1	0	0	1	0	0	0	0	0
35 to 44 years	2	0	0	0	1	0	0	0	0	0	1	0	0
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	0	0
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	0	0	0
Total	7	2	1	0	2	0	0	1	0	0	1	0	0

REPORTED CASES AND DEATHS FROM TRICHINOSIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	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	1	0	1	0
Under 5 years	0	0	1	0	1	0
5 to 9 years	0	0	0	0	0	0
10 to 14 years	0	0	0	0	0	0
15 to 19 years	1	0	0	0	1	0
20 to 24 years	0	0	0	0	0	0
25 to 34 years	3	0	0	0	3	0
35 to 44 years	2	0	0	0	2	0
45 to 54 years	0	0	0	0	0	0
55 to 64 years	0	0	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	1	0	7	0

REPORTED CASES OF TUBERCULOSIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	12	1	1	1	2	1	1	1	0	1	1	1	1
1 year	16	2	0	6	1	2	1	1	2	0	0	1	0
2 years	15	1	3	2	1	0	2	1	2	2	1	0	0
3 years	15	1	0	0	1	0	4	4	2	2	0	1	0
4 years	12	0	1	1	0	0	2	0	2	3	1	2	0
Under 5 years	70	5	5	10	5	3	10	7	8	8	3	5	1
5 to 9 years	85	9	6	12	5	6	10	15	7	1	5	7	2
10 to 14 years	97	10	4	11	12	6	6	14	10	6	6	6	6
15 to 19 years	337	16	28	43	35	32	42	22	27	27	21	22	24
20 to 24 years	519	52	44	51	33	49	49	58	41	37	36	32	37
25 to 34 years	918	65	69	110	77	70	77	77	73	78	83	68	71
35 to 44 years	809	66	70	83	63	77	80	73	84	68	65	52	48
45 to 54 years	645	45	56	63	59	63	82	68	59	44	42	32	42
55 to 64 years	441	35	49	37	34	32	47	41	45	31	27	31	32
65 years and over	211	12	14	18	21	25	23	20	24	13	14	10	17
Age not stated	16	2	2	4	2	1	1	2	0	1	0	0	1
Total	4148	317	347	422	344	366	427	385	378	314	302	265	281

REPORTED CASES AND DEATHS FROM TUBERCULOSIS IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	8	7	4	7	12	14
1 year	11	7	5	8	16	15
2 years	10	6	5	3	15	9
3 years	10	3	5	1	15	4
4 years	5	3	7	3	12	6
Under 5 years	44	26	26	22	70	48
5 to 9 years	46	7	39	10	85	17
10 to 14 years	45	9	52	10	97	19
15 to 19 years	111	23	226	69	337	92
20 to 24 years	179	70	340	121	519	191
25 to 34 years	433	181	485	213	918	394
35 to 44 years	525	242	284	128	809	370
45 to 54 years	494	276	151	76	645	352
55 to 64 years	334	197	107	90	441	287
65 years and over	146	120	65	72	211	192
Age not stated	8	0	8	0	16	0
Total	2365	1151	1783	811	4148	1962

REPORTED CASES OF TYPHOID FEVER IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	0	0	0	0	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	5	0	0	0	1	1	1	1	1	0	0	0	0
Under 5 years	5	0	0	0	1	1	1	1	1	0	0	0	0
5 to 9 years	17	2	0	1	3	0	0	0	4	3	1	1	2
10 to 14 years	21	0	1	0	3	1	2	1	7	2	3	0	1
15 to 19 years	15	1	1	2	0	0	1	4	1	3	1	0	1
20 to 24 years	22	0	0	1	3	5	2	0	3	5	1	2	0
25 to 34 years	25	3	1	0	1	4	2	2	5	0	3	2	2
35 to 44 years	17	0	0	1	0	2	2	5	2	4	0	1	0
45 to 54 years	17	0	0	3	1	1	1	5	1	3	0	0	2
55 to 64 years	4	0	0	0	0	0	1	0	2	1	0	0	0
65 years and over	1	0	0	0	0	0	0	0	1	0	0	0	0
Age not stated	2	0	0	0	0	1	0	0	1	0	0	0	0
Total	146	6	3	8	12	15	12	18	28	21	9	6	8

REPORTED CASES AND DEATHS FROM TYPHOID FEVER IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	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	1	0	0	0	1
3 years	0	0	0	0	0	0
4 years	2	0	3	0	5	0
Under 5 years	2	1	3	0	5	1
5 to 9 years	10	0	7	1	17	1
10 to 14 years	14	1	7	3	21	4
15 to 19 years	11	1	4	1	15	2
20 to 24 years	10	1	12	3	22	4
25 to 34 years	15	2	10	1	25	3
35 to 44 years	11	1	6	1	17	2
45 to 54 years	12	1	5	0	17	1
55 to 64 years	3	0	1	0	4	0
65 years and over	1	0	0	0	1	0
Age not stated	1	0	1	0	2	0
Total	90	8	56	10	146	18

REPORTED CASES OF UNDULANT FEVER IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0
5 to 9 years	1	0	0	0	0	0	1	0	0	0	0	0	0
10 to 14 years	2	0	0	0	0	0	0	0	1	1	0	0	0
15 to 19 years	4	1	1	0	0	0	1	0	0	1	0	0	0
20 to 24 years	10	1	0	0	1	1	1	3	0	0	1	1	1
25 to 34 years	11	1	2	0	1	0	2	0	0	1	1	0	3
35 to 44 years	9	0	0	0	2	2	1	2	0	1	0	0	1
45 to 54 years	10	1	2	3	0	0	1	0	1	0	0	0	2
55 to 64 years	3	0	0	1	0	1	0	0	0	0	1	0	0
65 years and over	2	0	0	0	1	0	0	1	0	0	0	0	0
Age not stated	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	52	4	5	4	5	4	7	6	2	4	3	1	7

REPORTED CASES AND DEATHS FROM UNDULANT FEVER IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	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	0	0	0	0
Under 5 years	0	0	0	0	0	0
5 to 9 years	0	0	1	0	1	0
10 to 14 years	0	0	2	0	2	0
15 to 19 years	3	0	1	0	4	0
20 to 24 years	9	0	1	0	10	0
25 to 34 years	7	0	4	0	11	0
35 to 44 years	7	0	2	0	9	0
45 to 54 years	5	0	5	0	10	0
55 to 64 years	2	0	1	0	3	0
65 years and over	0	0	2	0	2	0
Age not stated	0	0	0	0	0	0
Total	33	0	19	0	52	0

REPORTED CASES OF WHOOPING COUGH IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Months

AGE GROUPS	NUMBER OF CASES												
	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Under 1 year	740	47	30	52	47	48	55	88	77	75	55	64	102
1 year	941	58	51	57	51	64	72	104	121	92	65	79	127
2 years	1158	54	74	72	71	94	67	126	149	116	70	115	150
3 years	1335	69	62	90	82	90	82	159	172	129	106	111	183
4 years	1341	80	72	81	87	88	119	144	137	130	82	139	182
Under 5 years	5515	308	289	352	338	384	395	621	656	542	378	508	744
5 to 9 years	5464	350	365	393	362	394	402	537	483	369	340	667	801
10 to 14 years	535	25	31	59	33	42	35	49	58	40	32	60	91
15 to 19 years	44	3	2	4	1	3	5	3	1	7	2	6	5
20 to 24 years	20	3	0	1	0	0	3	7	1	0	2	1	2
25 to 34 years	43	4	3	3	2	2	4	5	4	4	3	4	5
35 to 44 years	29	1	0	1	1	7	4	2	6	3	1	2	1
45 to 54 years	9	0	1	0	0	1	3	0	2	0	0	0	2
55 to 64 years	6	0	0	0	0	0	2	1	1	2	0	0	0
65 years and over	6	0	1	0	1	1	1	0	1	0	0	0	1
Age not stated	25	1	3	1	4	1	4	1	1	0	2	4	3
Total	11716	695	695	814	742	837	858	1226	1214	967	761	1252	1655

REPORTED CASES AND DEATHS FROM WHOOPING COUGH IN NEW JERSEY

For the Calendar Year 1938 by Age Groups and Sex

AGE GROUPS	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Under 1 year	393	18	347	14	740	32
1 year	450	5	491	6	941	11
2 years	578	2	580	4	1158	6
3 years	684	1	651	2	1335	3
4 years	674	1	667	1	1341	2
Under 5 years	2779	27	2736	27	5515	54
5 to 9 years	2717	0	2747	0	5464	0
10 to 14 years	268	0	287	0	555	0
15 to 19 years	17	0	27	0	44	0
20 to 24 years	3	0	17	0	20	0
25 to 34 years	8	0	35	0	43	0
35 to 44 years	7	0	22	0	29	0
45 to 54 years	1	0	8	0	9	0
55 to 64 years	0	0	6	0	6	0
65 years and over	0	0	6	0	6	0
Age not stated	18	0	7	0	25	0
Total	5818	27	5898	27	11716	54

REPORTED CASES AND DEATHS FROM CHICKENPOX AND DIPHTHERIA BY COUNTIES FOR 1938

COUNTIES	CHICKENPOX			DIPHTHERIA				
	Cases	Cases per 100,000 Population	Deaths	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population	Percent Fatality
Atlantic	154	107.92	0	2	1.40	2	1.40	100.00
Bergen	2562	592.78	1	20	4.62	2	0.46	10.00
Burlington	194	196.55	0	15	15.19	1	1.01	6.66
Camden	606	216.97	0	64	22.91	2	0.71	3.12
Cape May	156	460.17	0	1	2.95	0	....	....
Cumberland	61	82.88	1	14	19.02	0	....	....
Essex	8204	898.97	1	31	3.39	4	0.44	12.90
Gloucester	181	224.28	1	6	7.43	3	3.71	50.00
Hudson	799	111.34	1	275	38.32	14	1.95	5.09
Hunterdon	55	154.93	0	0	....	0	....	....
Mercer	482	242.21	0	6	3.01	1	0.50	16.66
Middlesex	422	180.34	0	11	4.70	2	0.85	18.18
Monmouth	1049	633.45	0	8	4.83	0	....	....
Morris	576	470.20	0	4	3.26	0	....	....
Ocean	63	166.68	0	8	21.16	0	....	....
Passaic	1117	348.08	0	75	23.37	2	0.62	2.66
Salem	57	154.95	0	13	35.13	0	....	....
Somerset	118	162.53	0	0	....	0	....	....
Sussex	188	474.22	0	3	10.31	0	....	....
Union	2087	580.34	2	11	3.13	0	....	....
Warren	25	48.82	0	7	13.67	0	....	....
State	19056	430.45	7	574	12.96	33	0.74	5.75

REPORTED CASES AND DEATHS FROM DYSENTERY, TRACHOMA, OPHTHALMIA NEONATORUM AND PARATYPHOID FEVER BY COUNTIES FOR 1938

COUNTIES	DYSENTERY		TRACHOMA		OPHTHALMIA NEONATORUM		PARATYPHOID FEVER	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Atlantic	0	0	0	0	0	0	1	0
Bergen	5	0	1	0	0	0	1	0
Burlington	0	0	0	0	0	0	0	0
Camden	0	1	0	0	2	0	4	0
Cape May	0	0	0	0	0	0	0	0
Cumberland	1	0	0	0	0	0	1	0
Essex	2	1	3	0	147	0	6	0
Gloucester	0	0	0	0	0	0	0	0
Hudson	5	2	0	0	1	0	2	1
Hunterdon	0	0	0	0	0	0	0	0
Mercer	1	0	0	0	7	0	0	0
Middlesex	2	4	0	0	0	0	0	0
Monmouth	2	1	0	0	0	0	0	0
Morris	0	0	0	0	0	0	0	0
Ocean	1	1	0	0	0	0	0	0
Passaic	0	0	1	0	0	0	2	1
Salem	0	0	0	0	0	0	0	0
Somerset	0	0	0	0	0	0	0	0
Sussex	0	0	0	0	0	0	0	0
Union	4	0	1	0	0	0	2	0
Warren	0	0	0	0	0	0	0	0
State	23	10	6	0	157	0	19	2

REPORTED CASES AND DEATHS FROM INFLUENZA AND PNEUMONIA BY COUNTIES FOR 1938

COUNTIES	INFLUENZA				PNEUMONIA			
	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population
Atlantic	2	1.40	3	2.10	30	21.02	84	58.86
Bergen	12	2.77	9	2.08	469	108.51	175	40.49
Burlington	0	....	6	6.08	58	58.76	49	49.64
Camden	17	6.06	21	7.52	394	141.06	149	53.34
Cape May	17	50.14	3	8.85	7	20.65	25	73.74
Cumberland	2	2.71	8	10.87	61	82.88	29	39.40
Essex	82	8.98	32	3.50	2302	252.24	444	48.65
Gloucester	0	....	7	8.67	48	59.48	65	80.54
Hudson	182	25.36	28	3.90	322	44.87	425	59.22
Hunterdon	0	....	0	....	24	67.60	33	92.95
Mercer	10	5.02	12	6.03	191	95.98	135	67.84
Middlesex	1	0.42	7	2.99	167	71.36	92	39.31
Monmouth	14	8.45	10	6.04	213	128.62	83	50.12
Morris	2	1.63	5	4.08	132	107.75	67	54.69
Ocean	0	....	6	15.87	31	82.01	42	111.11
Passaic	109	33.96	16	4.98	129	40.20	167	52.04
Salem	0	....	7	18.92	12	32.43	28	75.67
Somerset	3	4.13	3	4.13	126	173.55	41	56.47
Sussex	1	3.43	2	6.87	76	261.17	27	92.78
Union	24	6.83	12	3.42	277	78.91	200	56.98
Warren	0	....	3	5.86	9	17.58	42	82.03
State	478	10.79	200	4.51	5078	114.70	2402	54.25

REPORTED CASES AND DEATHS FROM MALARIA AND EPIDEMIC CEREBRO-SPINAL MENINGITIS BY COUNTIES FOR 1938

COUNTIES	MALARIA			EPIDEMIC CEREBRO-SPINAL MENINGITIS				
	Cases	Cases per 100,000 Population	Deaths	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population	Percent Fatality
Atlantic	0	....	0	1	0.70	0	....	....
Bergen	1	0.23	0	5	1.15	2	0.46	40.00
Burlington	1	1.01	0	1	1.01	0	....	....
Camden	0	....	0	7	2.50	0	....	....
Cape May	3	8.85	0	0	....	0	....	....
Cumberland	0	....	0	2	2.71	2	2.71	100.00
Essex	3	0.33	0	6	0.65	5	0.54	83.33
Gloucester	1	1.24	0	0	....	0	....	....
Hudson	2	0.28	1	6	0.83	1	0.14	16.66
Hunterdon	0	....	0	1	2.81	0	....	....
Mercer	0	....	0	0	....	0	....	....
Middlesex	1	0.42	0	4	1.71	3	1.28	75.00
Monmouth	0	....	0	3	1.81	0	....	....
Morris	0	....	0	0	....	0	....	....
Ocean	0	....	0	1	2.64	0	....	....
Passaic	2	0.62	0	4	1.24	3	0.93	75.00
Salem	1	2.70	0	0	....	0	....	....
Somerset	0	....	0	1	1.37	0	....	....
Sussex	0	....	0	3	10.31	1	3.43	33.33
Union	1	0.28	0	7	1.99	3	0.85	42.85
Warren	0	....	0	2	3.90	2	3.90	100.00
State	16	0.36	1	54	1.22	22	0.49	40.74

REPORTED CASES AND DEATHS FROM MEASLES AND GERMAN MEASLES BY COUNTIES FOR 1938

COUNTIES	MEASLES					GERMAN MEASLES		
	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population	Percent Fatality	Cases	Cases per 100,000 Population	Deaths
Atlantic	822	576.03	1	0.70	0.12	24	16.81	0
Bergen	6810	1575.66	5	1.15	0.07	96	22.21	0
Burlington	1693	1715.30	1	1.01	0.06	9	9.12	0
Camden	2400	859.29	3	1.07	0.12	45	16.11	0
Cape May	234	690.26	0	....	....	33	97.34	0
Cumberland	608	826.08	2	2.71	0.33	2	2.71	0
Essex	921	100.92	0	....	....	197	21.58	0
Gloucester	904	1120.20	1	1.24	0.11	2	2.48	0
Hudson	2507	349.36	8	1.11	0.32	25	3.48	0
Hunterdon	560	1577.46	0	....	....	2	5.63	0
Mercer	927	465.83	1	0.50	0.10	10	5.02	0
Middlesex	647	276.49	2	0.85	0.31	26	11.11	0
Monmouth	568	342.99	0	....	....	25	15.09	0
Morris	192	156.73	0	....	....	33	26.94	0
Ocean	131	346.56	0	....	....	3	7.93	0
Passaic	2900	903.71	0	....	....	34	10.59	0
Salem	293	791.89	1	2.70	0.34	1	2.70	0
Somerset	972	1333.84	4	5.51	0.41	9	12.39	1
Sussex	269	924.40	0	....	....	50	171.82	0
Union	2320	660.97	2	0.57	0.08	81	23.07	0
Warren	411	802.73	0	....	....	19	37.11	0
State	27089	611.90	31	0.70	0.11	726	16.40	1

REPORTED CASES AND DEATHS FROM ACUTE ANTERIOR POLIOMYELITIS AND SCARLET FEVER BY COUNTIES FOR 1938

COUNTIES	ACUTE ANTERIOR POLIOMYELITIS				SCARLET FEVER			
	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population
Atlantic	0	....	0	....	94	65.87	1	0.70
Bergen	5	1.15	0	....	402	93.01	0	....
Burlington	2	2.02	0	....	73	73.96	1	1.01
Camden	1	0.36	0	....	379	135.69	0	....
Cape May	0	....	0	....	27	79.64	0	....
Cumberland	2	2.71	0	....	86	116.84	0	....
Essex	14	1.53	2	0.22	935	102.45	1	0.11
Gloucester	2	2.48	1	1.24	84	104.09	1	1.24
Hudson	1	0.14	1	0.14	429	59.78	1	0.14
Hunterdon	0	....	0	....	50	140.84	1	2.81
Mercer	0	....	0	....	293	147.23	2	1.00
Middlesex	0	....	0	....	92	39.31	1	0.42
Monmouth	1	0.60	1	0.60	114	68.84	0	....
Morris	1	0.81	0	....	185	151.02	0	....
Ocean	0	....	0	....	22	58.20	0	....
Passaic	6	1.87	3	0.93	208	64.81	1	0.31
Salem	2	5.40	0	....	20	54.05	1	2.70
Somerset	0	....	0	....	60	82.64	0	....
Sussex	0	....	0	....	48	164.95	1	3.43
Union	3	0.85	1	0.28	332	94.58	0	....
Warren	0	....	1	1.95	36	70.31	0	....
State	40	0.90	10	0.22	3969	89.65	12	0.27

REPORTED CASES AND DEATHS FROM SMALLPOX AND TUBERCULOSIS BY COUNTIES FOR 1938

COUNTIES	SMALLPOX				TUBERCULOSIS				
	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population	Percent Fatality
Atlantic	0	...	0	...	108	75.68	78	54.66	72.22
Bergen	0	...	0	...	267	61.77	145	33.55	54.30
Burlington	0	...	0	...	70	70.92	39	39.51	55.71
Camden	0	...	0	...	218	78.05	115	41.17	52.75
Cape May	0	...	0	...	18	53.09	10	29.50	55.55
Cumberland	0	...	0	...	52	70.65	37	50.27	71.15
Essex	0	...	0	...	986	108.04	488	53.47	49.49
Gloucester	0	...	0	...	38	47.08	32	39.65	84.21
Hudson	0	...	0	...	675	94.06	368	51.28	54.52
Hunterdon	0	...	0	...	30	84.50	16	45.07	53.33
Mercer	0	...	0	...	216	108.54	83	41.71	38.42
Middlesex	0	...	0	...	223	95.30	81	34.61	36.32
Monmouth	0	...	0	...	240	144.92	78	47.10	32.50
Morris	0	...	0	...	190	155.10	34	27.75	17.89
Ocean	0	...	0	...	25	66.13	19	50.26	76.00
Passaic	0	...	0	...	377	117.48	133	41.44	35.28
Salem	0	...	0	...	30	81.08	17	45.94	56.66
Somerset	0	...	0	...	65	89.53	25	34.43	38.46
Sussex	0	...	0	...	16	54.98	11	37.80	68.75
Union	0	...	0	...	275	78.34	139	39.60	50.54
Warren	0	...	0	...	29	56.64	14	27.34	48.27
State	0	...	0	...	4148	93.69	1962	44.32	47.29

REPORTED CASES AND DEATHS FROM TYPHOID FEVER AND WHOOPING COUGH BY COUNTIES FOR 1938

COUNTIES	TYPHOID FEVER				WHOOPING COUGH			
	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population	Cases	Cases per 100,000 Population	Deaths	Deaths per 100,000 Population
Atlantic	22	15.41	2	1.40	162	113.52	1	0.70
Bergen	13	3.00	2	0.46	1528	353.54	0	....
Burlington	7	7.09	1	1.01	304	308.00	2	2.02
Camden	16	5.73	0	....	331	118.51	3	1.07
Cape May	1	2.95	0	....	19	56.04	0	....
Cumberland	4	5.43	0	....	68	92.39	2	2.71
Essex	15	1.64	5	0.54	4753	520.82	16	1.75
Gloucester	4	4.95	0	....	82	101.61	2	2.48
Hudson	17	2.37	5	0.69	630	87.79	7	0.97
Hunterdon	1	2.81	0	....	32	90.14	2	5.63
Mercer	8	4.02	1	0.50	262	131.66	2	1.00
Middlesex	8	3.42	1	0.42	91	38.89	1	0.42
Monmouth	7	4.22	0	....	621	375.00	1	0.60
Morris	8	6.53	0	....	449	366.53	1	0.81
Ocean	1	2.64	0	....	10	26.45	0	....
Passaic	5	1.56	1	0.31	964	300.40	2	0.62
Salem	3	8.11	0	....	8	21.62	1	2.70
Somerset	0	....	0	....	65	89.53	4	5.51
Sussex	2	6.87	0	....	99	340.20	1	3.43
Union	4	1.14	0	....	1204	343.02	6	1.71
Warren	0	....	0	....	34	66.40	0	....
State	146	3.29	18	0.40	11716	264.65	54	1.22

REPORTED CASES AND DEATHS FROM MUMPS, LETHARGIC ENCEPHALITIS, UNDULANT FEVER, TETANUS AND TRICHINOSIS BY COUNTIES FOR 1938

COUNTIES	MUMPS		LETHARGIC ENCEPHALITIS		UNDULANT FEVER		TETANUS		TRICHINOSIS	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Atlantic	29	0	0	1	0	0	0	1	0	0
Bergen	1070	1	3	5	2	0	2	0	0	0
Burlington	113	0	0	0	1	0	0	0	0	0
Camden	871	0	3	3	1	0	0	0	0	0
Cape May	76	0	0	0	0	0	0	0	0	0
Cumberland	98	0	1	3	6	0	0	2	0	0
Essex	2873	1	2	1	4	0	2	1	1	0
Gloucester	47	0	0	0	2	0	0	2	0	0
Hudson	109	0	5	4	2	0	2	4	1	0
Hunterdon	22	0	0	0	0	0	0	0	0	0
Mercer	440	0	1	1	5	0	2	0	0	0
Middlesex	214	0	0	4	2	0	0	0	0	0
Monmouth	1220	0	2	1	2	0	1	0	4	0
Morris	338	0	0	0	7	0	0	0	0	0
Ocean	29	0	1	1	2	0	0	0	0	0
Passaic	313	0	2	1	5	0	0	0	1	0
Salem	10	0	0	1	2	0	0	0	0	0
Somerset	123	0	0	0	0	0	0	0	0	0
Sussex	74	0	0	0	4	0	0	0	0	0
Union	324	0	3	2	4	0	0	0	0	0
Warren	16	0	0	0	1	0	0	1	0	0
State	8409	2	23	28	52	0	9	11	7	0

REPORTED CASES AND DEATHS FROM MISCELLANEOUS DISEASES FOR THE YEAR 1938

DISEASE	Male		Female		Total	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Anthrax	4	0	0	0	4	0
Malaria	10	0	6	1	16	1
Ophthalmia Neonatorum	100	0	57	0	157	0
Rabies	1	1	1	1	2	2
Rocky Mountain Spotted Fever	12	5	4	3	16	8
Streptococcic Sore Throat	148	16	147	23	295	39
Smallpox	0	0	0	0	0	0
Tularemia	8	0	0	0	8	0
Typhus Fever	1	0	1	0	2	0

Report of the Bureau of Engineering

For the Year Ending June 30, 1939

H. P. CROFT, C. E., CHIEF ENGINEER

This report deals with the following:

No. 1—Number of Water and Sewage Projects Examined and Approved from July 1, 1938, to June 30, 1939.

No. 2—Inspections Made and Certain Actions Taken During the Year.

No. 3—An Act to Promote Interstate Co-operation and Protection of Water Resources in the Delaware River Basin.

No. 4—The Delaware and Raritan Canal as a Source of Water Supply for New Jersey.

No. 5—The Pollution of the Waters of the Overpeck Creek, a Tributary of the Hackensack River—The Experimental Filter of the Englewood Sewerage Company, Englewood, New Jersey.

No. 6—The Sub-Committee on Sanitation of the Committee on Expansion of Public Health of the Governor's Committee on Health and Welfare.

No. 7—Pollution of the Raritan River and its Tributaries, and, Policies Established.

No. 8—Federal Aid for Increased Personnel.

No. 9—The Examination of Bay and Ocean Waters from South Amboy to Seaside Park.

No. 10—Pollution of the Waters of Inside Thorofare and the Investigation of the Atlantic City Sewerage Company's Experimental Down-Flow Sewage Rapid Sand Filter.

No. 11—Bacteriological Standards for Waters used for Potable and Domestic Purposes, and, to be used in Prosecution under Chapter 253, Laws of 1909 (Now Section 58:11 of the Revised Statutes).

No. 12—Certification of Water for Use on Interstate Carriers.

No. 13—Physical Connections.

No. 14—Water Supplies not now Recognized as Public Potable Water Supplies Pursuant to the Resolution adopted on January 10, 1933.
No. 15—Water Supplies Abandoned from July 1, 1938, to June 30, 1939.
No. 16—Private Supplies.
No. 17—Establishment of Factories on Watershed.
No. 18—School Supplies.
No. 19—Public Potable Water Supplies in New Jersey.
No. 20—Tabulation of Public Potable Water Supplies in New Jersey.
No. 21—Analyses of Waters from Public Potable Water Supplies in New Jersey.
No. 22—Status of Sewage Disposal as of June, 1939.

No. 1

NUMBER OF WATER AND SEWAGE PROJECTS EXAMINED AND APPROVED FROM JULY 1, 1938, TO JUNE 30, 1939

Character of Projects	*Number of Projects*	*Number of Applying Municipalities, Commissions or Companies*	*Number of Plans*	*Engineers' Estimates of Cost*
Sewage:				
Sewer extensions	61	46	181	$1,791,896.17
Alterations and additions to sewage and industrial waste treatment plants	24	22	125	2,496,540.00
Sewage and industrial waste treatment works, systems and appurtenances, new	28	25	529	4,913,734.96
Water:				
New systems and supplies	7	7	20	159,100.00
Alterations, improvements and additions to waterworks	45	38	113	1,329,846.53
Totals	165	138	968	$10,691,117.66
Total of engineers' estimates of costs for the fiscal year ending June 30, 1938				$3,042,782.51

No. 2

INSPECTIONS MADE AND CERTAIN ACTIONS TAKEN DURING THE YEAR

Special water inspections	270
Water complaints, conferences, hearings and meetings	71
Routine water inspections	33
Special sewage inspections	177
Sewage complaints, conferences, hearings and meetings	36
Water sample collections	32
Water inventory inspections	54
Railroad certification inspections	20
Sewage routine inspections	2
Gage installations, changes and repairs	9
Creamery, cannery, dairy and industrial waste inspections	35
Cross connection inspections	12
Hotel investigations	7
Sewage outfall inspections	9
By-pass sealing	2

Seventy man-working days were spent in the collection of samples from stream sampling stations; 74 man-working days were spent in attending court trials and serving court papers; 178 man-working days were spent in attending meetings, conferences, and hearings; 27½ man-working days were spent in collecting surf samples along the North Jersey coast; 43 man-working days were spent in stream survey work, and 293 man-working days were spent in special river investigations.

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

Allentown	8 days
Atlantic City	41½
Bound Brook	9
Englewood (Sewerage Company)	42
Haddon Township	15
Lakelands	17
Middlesex	7
New Brunswick	48
North Wildwood	7
Plainfield	11
Piscataway Township	9
Raritan	21
Sayreville	6
Somerville	41
Woodbridge	6½

The following man-working days were spent in the special investigation of high rate sprinkling filter plant:

North Carolina	27 days

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

Barnegat Bay	Molly Ann Brook
Big Timber Creek	Musconetcong River
Canoe Brook	Navesink River
Crooked Brook	Overpeck Creek
Crosswicks Creek	Passaic River
Delaware River	Patex Pond
Hackensack River	Rahway River
Kings Creek	Raritan River
Lake Musconetcong	Shark River
Lewis Brook	Shabakunk Creek
Metedeconk River	Wolf Creek

Stream pollutions investigated	100
Notices issued to cease stream pollution	72
Cases of stream pollution found to be abated	29
Cases referred to the Attorney General for prosecution	14
Notices issued upon municipalities or companies to immediately construct sewerage and waterworks, section 40:1-16, subdivision "g"	24
Notices issued to treat and/or purify water before distribution	15
Notices issued to make changes, alterations and additions to sewage system	2
Resolutions disapproving plans	2
Notices issued to cease discharge of improperly treated industrial wastes	10
Resolutions removing supply from list of water supplies as they have been abandoned	3
Resolutions approving plans for intercepting sewers and sewage treatment plants	3
Resolutions removing supply from list of water supplies as less than eight are supplied	3
Notices to cease distribution of water from unapproved source of water supply	2
Miscellaneous resolutions	10

No. 3—"An Act to Promote Interstate Co-operation and Protection of Water Resources in the Delaware River Basin."

The establishment and the first objective of The Interstate Commission on the Delaware River Basin (Incodel) were reported upon in the annual report for 1938. Information upon the activities of the Engineering Sub-Committee on Quality of interstate waters in the basin, and upon the actions taken by the Departments of Health of New York, Pennsylvania, New Jersey and Delaware, in the matter of sanitary standards, was also contained in the aforesaid annual report.

The objective and activities resulted in the establishment of Chapter 146, Laws of 1939. The act, approved by the Governor on July 1, 1939, is as follows:

"CHAPTER 146

"An Act to promote interstate co-operation for the conservation and protection of water resources in the Delaware river basin.

"Be it enacted *by the Senate and General Assembly of the State of New Jersey:*

PREAMBLE

"Whereas, The States of New York, New Jersey, Pennsylvania and Delaware have each created, and now maintain, a Commission (or Committee) on Interstate Co-operation for the purpose of establishing and maintaining governmental machinery to facilitate communication, negotiation, understanding and co-operation between said States, respectively, and other States of the Union, both regionally and nationally, with power to establish such committees, subcommittees, and advisory boards as are deemed advisable to conduct conferences and to formulate proposals concerning subjects of intergovernmental co-operation, to study the laws of the several States, hold public or private hearings, make findings and recommendations, and to submit drafts of legislation to promote uniform laws for the elimination of the confusion and conflict between the several States of the Union and the Federal Government in the matter of laws and administrative practices concerning conservation, prevention, abatement and control of pollution, water supply, public welfare, flood control, and other subjects; and

"Whereas, Said Commissions (or Committees) on Interstate Co-operation of said States have organized and established and are now maintaining as an instrument of governmental machinery a joint advisory board known as 'The Interstate Commission on the Delaware River Basin,' as a regional commission composed of standing subcommittees of said Commissions (or Committees) on Interstate Co-operation, respectively, for the purpose of entering upon a program to study the conservation, water supply, pollution and other potential uses and benefits of, and to develop integrated plans to conserve and safeguard, the waters of the Delaware river basin, in the following specified particulars:

"A. To serve as a fact-co-ordinating body and to develop the means and procedure by which the general plans and policies proposed for the development of the region may be carried out;

"B. To sponsor the carrying out of properly developed plans which result from surveys and research concerning population, land and water resources and uses, and other related subjects;

"C. To co-ordinate the activities of the Commission and Committees on Interstate Co-operation and their joint agency, the Council of State Governments, with the work of the appropriate State and Federal agencies for the prevention and abatement of pollution.

"D. To encourage interstate compacts and the enactment of uniform State laws for the abatement of water pollution, for flood control and for the proper general use and control of the waters of the Delaware river.

"E. To advance, perpetuate, and outline the work recommended by its conferences, and to develop and propose new objectives; and

"WHEREAS, It is the purpose of the Commissions (or Committees) on Interstate Co-operation of said four States, acting through said Interstate Commission on the Delaware river basin, to eliminate confusion and conflict among said States by the promotion and enactment of uniform laws in said States to preserve in a safe and sanitary condition the waters and watershed of said Delaware river basin and to provide uniform concurrent regulations for the control and the enforcement of the elimination of pollution in the waters thereof in said States, respectively; and

"WHEREAS, Said Interstate Commission on the Delaware river basin, in co-operation with the State health departments of said States, respectively, and the National Resources Committee and the Public Health Service of the Federal Government has made a study, for the purposes above recited of said Delaware river and its tributaries in said Delaware river basin, and has formulated proposals for the intergovernmental co-operation of said States in the correction and control of pollution of the waters thereof, which have been formally approved, ratified and accepted by the health departments of said States, the United States Health Service and the said National Resources Committee, respectively, in the following form:

"WHEREAS, A substantial part of the territory of the States of New York, New Jersey, Pennsylvania and Delaware is situated within the Delaware river drainage basin; and

"WHEREAS, The increase in the population of the various municipal areas situated within the Delaware river basin, and the growth of industrial activity within the basin, have resulted in increasingly serious pollution of the waters of the interstate Delaware river and its tributaries; and

"WHEREAS, Such pollution constitutes a grave menace to the health, welfare, and recreational facilities of the people living in the Delaware river basin, and occasions great economic loss; and

"WHEREAS, The control of future pollution and the correction of existing pollution of the waters of the interstate Delaware river and its tributaries is of prime importance to the people living in the Delaware river basin and can best be accomplished through the co-operation of the representatives of the people in the basin, in the States of New York, New Jersey, Pennsylvania, and Delaware;

"Now, therefore, the State of New York and the State of New Jersey and the Commonwealth of Pennsylvania and the State of Delaware agree and are bound as follows:

ARTICLE I

"Each of the signatory States pledges to each of the other signatory States faithful co-operation in the control of future pollution and in the correction of existing pollution of the waters of the interstate Delaware river and its west branch from the New York-Pennsylvania boundary line down to the Atlantic ocean. In order to effect such objects, each of the States agrees to enact adequate legislation, if necessary, to enable each such State so to require the treatment of sewage, industrial waste or other artificial polluting matter as to place and maintain the waters of the aforesaid interstate Delaware river, and of the tributaries thereof just above the confluence with the Delaware river, in the clean and sanitary condition required by the provisions of this agreement. Furthermore, each such State agrees so to enforce the provisions of these requirements, and other supplementary applicable legislation, if any, as to bring about the attainment of the objectives of pollution control and correction in accordance with such reasonable and effective programs as may be determined from time to time by the States in the manner prescribed herein.

ARTICLE II

"It is recognized by the signatory States that due to such variable factors as location, size, character, and flow, and of the many varied uses of the waters of the interstate Delaware river and its aforesaid west branch, such as water supply, recreation, navigation, industrial developments, maintenance of fish life, shellfish culture, agriculture, and other purposes, that no single standard of sewage and waste treatment and of quality of receiving waters is practical for all parts of the river. Therefore, in order to apply minimum requirements for the attainment of correction and control of pollution which will be appropriate to the varied factors including the existing and potential quality and uses of the waters, the interstate Delaware river is hereby divided into four zones, to wit:

"Zone I: Zone one is that part of the Delaware river and its west branch extending from the New York-Pennsylvania boundary line to the head of tidewater at Trenton, New Jersey, and Morrisville, Pennsylvania.

"The drainage basin contributary to this zone, excepting part of the Lehigh river basin, is relatively sparsely inhabited and contains few sewered communities and relatively few industrial establishments producing waste water. The streams draining this area being, in general, relatively clean and of high elevation, are well adapted as sources of public water supplies, after treatment or purification.

"The principal uses of the waters of the Delaware river in Zone one are expected to be for water supply after such treatment or purification as may be necessary, and for recreation, bathing, maintenance of fish and aquatic life, agriculture, and for other related purposes.

"Zone II: Zone two is that part of the Delaware river extending from the head of tidewater at Trenton, New Jersey, and Morrisville, Pennsylvania, to a line drawn perpendicular to the channel of the Delaware river from the mouth of Pennypack creek in Philadelphia, Pennsylvania, to the corresponding point on the New Jersey shore.

"The drainage basin contributary to this zone is somewhat more densely populated than that of Zone one, and it contains more sewered communities and industrial establishments.

"The principal uses of the waters of the Delaware river in Zone two are expected to be for water supply, after treatment or purification, and for recreation, navigation, maintenance of fish and aquatic life, agricultural, industrial and other purposes.

"Zone III: Zone three is that part of the Delaware river extending from the aforesaid line connecting the mouth of Pennypack creek in Philadelphia and the corresponding point in New Jersey to the Pennsylvania-Delaware boundary line.

"The drainage basin contributary to this zone contains populous metropolitan areas including Philadelphia, Pennsylvania, and Camden, New Jersey.

"The principal uses of the waters of the Delaware river in Zone three are expected to be for navigation, industrial water supply, and other purposes.

"The water in this zone, however, should be of such sanitary quality that it will not be unfit for use as sources of water supply, will not be harmful to fish life, and will not adversely affect the quality of the waters of the tidal tributaries.

"Zone IV: Zone four is that part of the Delaware river extending from the Pennsylvania-Delaware boundary line to the Atlantic ocean.

"The principal uses of the waters of the Delaware river in Zone four are expected to be for navigation, industrial water supply, commercial fishing, shellfish culture, recreation and other purposes.

"In order to attain conditions of cleanliness and sanitation of the waters of the Delaware river which will be consistent with the appropriate existing and future quality and uses of such waters, the following minimum requirements shall apply to the several zones herein provided. It is the purpose and intent of such requirements to apply to artificial (not natural) causes of pollution.

Article III

"In order to put and maintain the waters of the interstate Delaware river and its west branch as aforesaid, in a clean and sanitary condition, no sewage, industrial wastes or other polluting matter shall be discharged into, or be permitted to flow or fall into, or be placed in any respective zone of the interstate Delaware river as herein established, unless such sewage, industrial waste or other artificial polluting matter shall first have been so treated as to produce an effluent which will meet the following minimum requirements:

"Zone 1: (1) Such effluent shall be free of noticeable floating solids, color, oil, grease, or sleek, and practically free of suspended solids.

"(2) Such effluent shall be sufficiently free of turbidity that it will not cause noticeable turbidity in the water of the Delaware river.

"(3) Such effluent shall show a reduction of organic substances of at least eighty-five per centum (85%) as measured by the bio-chemical oxygen demand, and furthermore, such effluent in no case shall exceed a bio-chemical oxygen demand of fifty (50) parts per million, and furthermore, the discharge of such effluent, after dispersion in the water of the river, shall not cause a reduction of the dissolved oxygen content of such water of more than five per centum (5%). The aforesaid reduction in dissolved oxygen content shall be determined by the average results obtained from dissolved oxygen tests made upon samples collected on not less than six (6) consecutive days from points in the river above and below the point or points of effluent discharge.

"(4) Such effluent shall be of such quality that the most probable number of organisms of the Coli Aerogenes group shall not exceed one (1) per milliliter in more than ten per centum (10%) of the samples of sewage effluent tested by the confirmed test; *and provided, further,* that no single sample shall contain more than one hundred (100) organisms of the Coli Aerogenes group in one (1) milliliter.

"(5) Such effluent shall be sufficiently free of acids, alkalis, and other toxic or deleterious substances, that it will not create a menace to the public health through the use of the waters of the Delaware river for public water supplies, for recreation, bathing, agriculture and other purposes; nor be inimical to fish, animal or aquatic life.

"(6) Such effluent shall be free of offensive odors and also be free of substances capable of producing offensive tastes and odors in public water supplies derived from the Delaware river at any place above or below the discharge of such effluent.

"Zone 2: (1) Such effluent shall be free of noticeable floating solids, color, oil or grease, and practically free of both suspended solids and sleek.

"(2) Such effluent shall be sufficiently free of turbidity that it will not cause noticeable turbidity in the water of the Delaware river.

"(3) Such effluent shall show a reduction of organic substance of at least eighty-five (85) per centum as measured by the bio-chemical oxygen demand, and furthermore, such effluent in no case shall exceed a bio-chemical oxygen demand of one hundred (100) parts per million, and furthermore, the discharge of such effluent, after dispersion in the water of the river, shall not cause a reduction of the dissolved oxygen content of such water of more than ten (10) per centum. The aforesaid reduction in dissolved oxygen content shall be determined by the average results obtained by dissolved oxygen tests made upon samples collected on not less than six (6) consecutive days from points in the river above and below the point or points of effluent discharge.

"(4) Such effluent shall be of such quality that the most probable number of organisms of the Coli Aerogenes group shall not exceed one (1) per milliliter in more than twenty-five (25) per centum of the samples of sewage effluent tested by the confirmed test; *and provided, further,* that no single sample shall contain more than one hundred (100) organisms of the Coli Aerogenes group in one (1) milliliter.

"(5) Such effluent shall be sufficiently free of acids, alkalis, and other toxic or deleterious substances, that it will not create a menace to the public health through the use of the water of the Delaware river for public water supplies, for recreation, industrial and other purposes; nor be inimical to fish, animal or aquatic life.

"(6) Such effluent shall be free of offensive odors and also be free of substances capable of producing offensive tastes or odors in public water supplies derived from the Delaware river at any place below the discharge of such effluent.

"Zone 3: (1) Such effluent shall be free of noticeable floating solids, oil or grease, and substantially free of both suspended solids and sleek.

"(2) Such effluent shall be sufficiently free of turbidity that it will not cause substantial turbidity in the water of the Delaware river after dispersion in the water of the river.

"(3) Such effluent shall show a reduction of at least fifty-five (55) per centum of the total suspended solids and a reduction of not less than thirty-five (35) per centum of the bio-chemical demand. (It is the intent of this requirement to restore the dissolved oxygen content of the river water in this zone to at least fifty (50) per centum saturation. To accomplish this it may be necessary in the case of certain wastes, to obtain reductions greater than those required under this item.)

"(4) Such effluent, if it be discharged within two miles of a public waterworks intake or within prejudicial influence thereof, shall at all times be effectively treated with a germicide.

"(5) Such effluent shall be sufficiently free of acids, alkalis, and other toxic or deleterious substances, that it will not create a menace to the public health through the use of the waters of the Delaware river for public water supplies, or render such waters unfit for industrial and other purposes; or cause the water of the Delaware river to be harmful to fish life.

"(6) Such effluent shall be practically free of substances capable of producing offensive tastes or odors in public water supplies derived from the Delaware river.

"Zone 4: (1) Such effluent shall be free of noticeable floating solids, oil, or grease, and substantially free of both suspended solids and sleek.

"(2) Such effluent shall be sufficiently free of turbidity that it will not cause substantial turbidity in the waters of the Delaware river after dispersion in the water of the river.

"(3) Such effluent shall show a reduction of at least fifty-five (55) per centum of the total suspended solids and shall be subject to such further treatment as may be needed to prevent a nuisance.

"(4) Such effluent, if it be discharged within prejudicial influence of a public waterworks intake, or of recreational areas, or of shellfish grounds, shall at all times be effectively treated with a germicide, except that in the case of recreational area influence, such treatment need not be provided during the period from October fifteenth to May fifteenth of each year.

"(5) Such effluent shall be sufficiently free of acids, alkalis, and other toxic or deleterious substances that it will not create a menace to the public health through the use of the waters of the Delaware river for public water supplies, or render such waters unfit for commercial fishing, shellfish culture, recreational, industrial, or other purposes.

"(6) Such effluent shall be practically free of substances capable of producing offensive tastes or odors in public water supplies derived from the Delaware river.

"It is further recognized by the signatory States that the quality of the waters of the intrastate tributaries of the Delaware river and its aforesaid west branch are of interstate concern at their points of confluence with the Delaware river and its west branch. Therefore, it is also agreed that sewage, industrial waste or other artificial polluting matter discharged into, or permitted to flow or to fall into, or be placed in any intrastate tributary of the aforesaid Delaware river, shall be treated to that degree, if any, necessary to maintain the waters of such intrastate tributary immediately above its confluence with the aforesaid Delaware river in a condition at least equal to the clean and sanitary condition of the waters of the Delaware river immediately above the confluence of such tributary.

"Analyses and tests regarding the minimum requirements herein prescribed, shall be determined in accordance with the provisions contained in the American Public Health Association's latest edition on 'Standard Methods for the Examination of Water and Sewage.'

"The aforesaid requirements as to treatment of sewage, industrial wastes or other artificial polluting matter and as to the sanitary quality of receiving waters are minima. It is the intent and purpose of these requirements to accomplish reasonable and adequate control and correction of pollution. Due to the many variable factors involved, however, and to the impossibility of forecasting future developments with certainty, it may be necessary in the future to impose additional requirements, particularly in Zones two and three.

"The minima herein prescribed therefore shall be considered the first steps toward attaining the objectives sought, and if necessary may be required to be supplemented in the case that the general application of such minimum requirements does not adequately improve and maintain the sanitary quality of the waters of the Delaware river.

"1. That part of the area of the Delaware river basin lying within this State is hereby established and declared to be a component part of an interstate region for intergovernmental co-operation by said States in the conservation, protection and development of the water resources thereof by means of integrated plans, and said Interstate Commission on the Delaware River Basin is hereby recognized as the duly established regional commission or agency, of this State for intergovernmental co-operation in effectuating the purposes described in paragraph (2) of the above preamble, with full and complete authority to exercise, for the accomplishment of said purposes, the governmental machinery, powers and duties conferred by this State upon said Commission (or Committee) on Interstate Co-operation.

"2. The reciprocal agreement set forth in paragraph (4) of the above preamble is hereby ratified and applied to the waters and watershed of said Delaware river basin within the territorial limits of this State, and its terms and provisions shall supersede the terms and provisions of any existing laws and regulations applicable to that area, to the extent, only, that the terms and provisions of such existing laws and regulations are inconsistent with the terms and provisions set forth in said reciprocal agreement.

"3. The Department of Health is hereby empowered and directed to apply and carry into effect the proposals, terms and provisions of said reciprocal agreement, in the several zones therein prescribed, respectively within the territorial limits of this State, and to enforce the same by the exercise of such administrative and legal authority, and the institution and prosecution of such actions, suits or other proceedings as may be necessary or appropriate, as are now or may hereafter be provided under the laws and practice of this State.

"4. The Department of Health is hereby authorized and directed to co-operate with said Interstate Commission on the Delaware river basin in the further study of the sanitary condition of the waters of Delaware river and its tributaries in said Delaware river basin and to approve, adopt and enforce within this State, such reasonable modifications, changes or alterations in the zones or standards of quality of water in said river and tributaries as may, from time to time, be recommended by said Interstate Commission on the Delaware river basin, and approved by the departments of health of the other three States constituent to said Delaware river basin.

"5. The terms and provisions of said reciprocal agreement shall become effective upon receipt by the Secretary of State of this State of a certificate from the Executive Secretary of The Interstate Commission on the Delaware River Basin that an act in substantially the same form as this act has been passed by the Legislature, and approved

by the Governor, of one of the other three States constituent to said Delaware river basin, together with a certified copy of said act of said State, and thereupon the Secretary of State shall advise the Department of Health of this State accordingly.

"6. Nothing in this act shall be construed to apply to the Delaware and Raritan canal or its feeders.

"7. This act shall take effect immediately.

"Approved July 1, 1939."

It is to be noted that nothing in the aforesaid act shall be construed to apply to the Delaware and Raritan Canal or its feeder.

Paragraph 5 of the act sets up the procedure which must be satisfied, in order to make the reciprocal agreement effective.

There follows a copy of a letter to the Secretary of State from the Executive Secretary of The Interstate Commission on the Delaware River Basin:

"July 18, 1939.

"Hon. Thomas A. Mathis,
Secretary of State,
State House,
Trenton, New Jersey.

"DEAR MR. MATHIS:

"Chapter 146, P. L. 1939, New Jersey, is 'An act to promote interstate co-operation for the conservation and protection of water resources in the Delaware river basin.'

"Section 5 of this act reads:

'The terms and provisions of said reciprocal agreement shall become effective upon receipt by the Secretary of State of this State of a Certificate from the Executive Secretary of the Interstate Commission on the Delaware River Basin, that an act in substantially the same form as this act has been passed by the Legislature, and approved by the Governor, of one of the other three States constituent to said Delaware River Basin, together with a certified copy of said act of said State, and thereupon the Secretary of State shall advise the Department of Health of this State accordingly.'

"This letter is to certify that Chapter 600, Laws of New York, 1939, a properly executed copy of which is enclosed is an act in substantially the same form as that which was passed by the Legislature of New Jersey and approved by the Governor.

"Will you, therefore, kindly advise the Department of Health of New Jersey accordingly.

Respectfully yours,

DAVID W. ROBINSON,
Executive Secretary."

And there follows a copy of a letter from the Secretary of State to the Department of Health of the State of New Jersey:

"TRENTON, July 26, 1939.

"Dr. J. Lynn Mahaffey,
Director of Health,
State House,
Trenton, N. J.

"DEAR SIR:

"This is to advise you that in a communication under date of July 25, 1939, signed by David W. Robinson, Executive Secretary of the Interstate Commission on the Delaware River Basin, has forwarded to this Department a certified copy of Chapter 600, Laws of the State of New York, 1939, for the purpose of filing in accordance with Chapter 146, P. L. of New Jersey, 1939, approved July 1, 1939, as the same is set out in the fifth section of the said act.

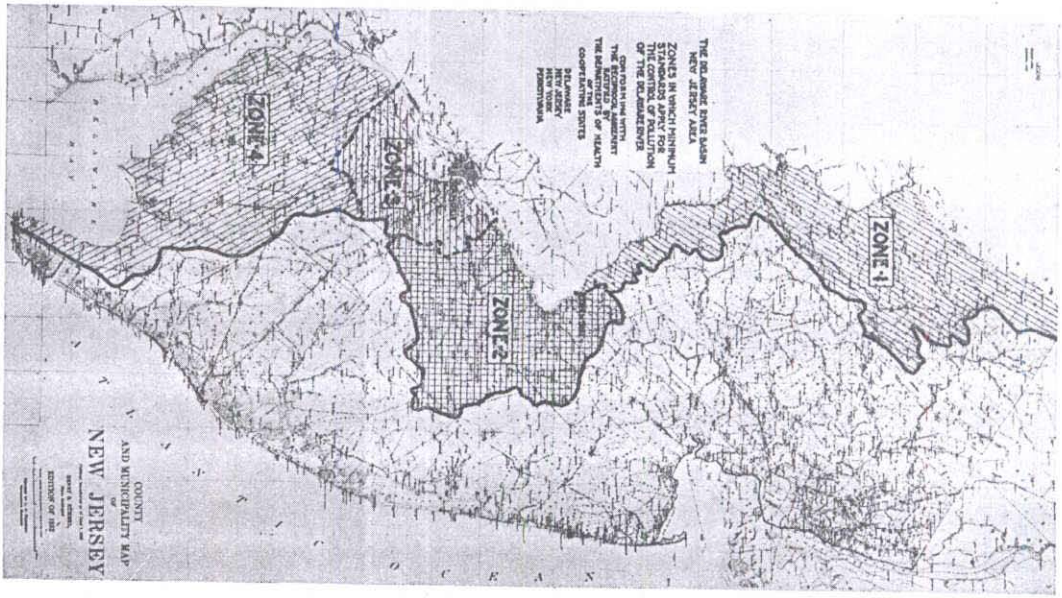
Very truly yours,

THOMAS A. MATHIS,
Secretary of State."

It is concluded, inasmuch as the provisions of paragraph 5 of Chapter 146, Laws of 1939, have been met, that the terms and provisions of the agreement, outlined in the said law, are now effective in the States of New York and New Jersey.

The following map shows the limits of the zones (Article II) in the New Jersey section of the Delaware River watershed. And the following table contains, in a summary form, the requirements (Article III) as to the treatment of sewage, industrial wastes or other artificial polluting matter discharged into the interstate waters, as well as into the tributaries of the interstate Delaware River (Article I).

(Reference: Annual Report, 1938.)



MINIMUM REQUIREMENTS AS TO THE TREATMENT OF SEWAGE, INDUSTRIAL WASTES OR OTHER ARTIFICIAL POLLUTING MATTER DISCHARGED INTO THE INTERSTATE DELAWARE RIVER BASIN ESTABLISHED BY CHAPTER 146, P. L. 1939

	ZONE 1	ZONE 2	ZONE 3	ZONE 4
Solids (floating)	Free of Noticeable	Same as 1	Same as 1	Same as 1
Color	Free of Noticeable	Same as 1	.....	.....
Oil	Free of Noticeable	Same as 1	Same as 1	Same as 1
Grease	Free of Noticeable	Same as 1	Same as 1	Same as 1
Sleek	Free of Noticeable	Practically free of	Substantially free of	Same as 3
Solids, suspended	Practically free of	Same as 1	Substantially free of, with reduction of at least 35%	Reduction of 55% of total specified plus further treatment if required, to prevent a nuisance
Turbidity	Shall not cause noticeable turbidity in receiving water	Same as 1	Not cause substantial turbidity in receiving water after dispersion	Same as 3
Biochemical Oxygen Demand	Shall show a reduction of at least 85% with effluent not exceeding 50 p.p.m.	Reduction of at least 85% specified with effluent not exceeding 100 p.p.m.	Reduction of not less than 35% to be effected. Greater B.O.D. reductions may be required.	.....
Dissolved Oxygen	After dispersion, the effluent shall not reduce content of receiving water more than 5%, as determined from average results of samples collected on not less than 6 consecutive days above and below discharge	Effluent, after dispersion shall not reduce content of receiving water more than 10%, based on 6 day sampling as in Zone 1	The intent of the B.O.D. requirement is to restore the dissolved oxygen content of the river water in this zone to at least 50% saturation	.....
Organisms—Coli-Aerogenes Group	Shall not exceed 1 per milliliter (c.c.) in more than 10% of effluent samples tested; and, no single sample shall contain more than 100 per milliliter (c.c.)	Shall not exceed 1 per milliliter (c.c.) in more than 25% of samples tested; no single sample shall contain more than 100 per milliliter (c.c.)	Effluent to be treated with a germicide if discharged within 2 miles (or within prejudicial influence) of a public waterworks intake	Effluent to be treated with a germicide if discharged within prejudicial influence of a public waterworks intake, or recreational area, or shellfish grounds. In case of recreational area, however, treatment not required from October 15 to May 15 of each year

p.p.m. = parts per million
c.c. = cubic centimeter

MINIMUM REQUIREMENTS AS TO THE TREATMENT OF SEWAGE, INDUSTRIAL WASTES OR OTHER ARTIFICIAL POLLUTING MATTER DISCHARGED INTO THE INTERSTATE DELAWARE RIVER BASIN ESTABLISHED BY CHAPTER 146, P. L. 1939—(Continued)

	ZONE 1	ZONE 2	ZONE 3	ZONE 4
Acids, Alkalis, Toxic, or Deleterious Substances	Sufficiently free of, so as not to create a menace to the public health through use of the receiving waters for public water supplies, recreation, bathing, agriculture and other purposes; nor be inimical to fish, animal or aquatic life	Sufficiently free of, so as not to create a menace to the public health through use of the receiving waters for public water supplies, recreation, industrial and other purposes; nor be inimical to fish, animal or aquatic life	Sufficiently free of, so that effluent will not create a nuisance through use of Delaware River for public water supplies, or render such waters unfit for industrial and other purposes; or cause the water of the Delaware River to be harmful to fish life	Sufficiently free of, so will not create a menace to the public health through use of Delaware River for public water supplies, or render such waters unfit for commercial fishing, shellfish culture, recreational, industrial or other purposes
Tastes and Odors	Free of offensive odors and free of substances capable of producing offensive tastes or odors in public water supplies derived from	Same as Zone 1	Same as Zone 1	Same as Zone 1

No. 4—THE DELAWARE AND RARITAN CANAL AS A SOURCE OF WATER SUPPLY FOR NEW JERSEY.

Honorable A. Harry Moore, Governor of New Jersey, designated, under date of June 7, 1938, Messrs. Charles Capen, H. T. Critchlow and H. P. Croft, to prepare a report which may be submitted to the Legislature with regard to the availability of the properties of the Delaware and Raritan Canal as a feeder for a new water supply project for the Metropolitan District of New Jersey; and, the Governor suggested certain items to be covered in the requested report.

The State Department of Health authorized H. P. Croft to participate in the preparation of such a report. And in accordance with the aforesaid instructions, a report was submitted to the Governor, under date of October 4, 1938.

The "Summary of Report" is as follows:

"The Delaware and Raritan Canal Water Project, investigated and reported upon herein, considers the utilization of the canal properties as a feeder for a new water supply project for the Metropolitan District of New Jersey. The properties studied to that end extend from the feeder intake on the Delaware River at Raven Rock, New Jersey, to a point near Bound Brook, a distance of 49 miles.

"This plan provides that a maximum of 230 million gallons daily (m.g.d.) and an average of 180 m.g.d. will be diverted and transported by gravity with provisions for taking 30 m.g.d. at Trenton for use in that area. The remainder of 200 m.g.d. maximum and 150 m.g.d. average will be delivered by gravity to a pumping station at Bound Brook. Provision, however, is made for taking by gravity up to 10 m.g.d. of water from the canal at Bound Brook for use of the New Brunswick area.

"An electrically operated pumping station of 200 m.g.d. capacity will lift the water through a pressure acqueduct 4.16 miles long into a storage reservoir at Dock Watch Hollow, north of Bound Brook. This basin has a total area of about 1,500 acres, and its rim varies in elevation, the lower places being 460 feet above sea level. For the first stages of the development it is proposed to store water up to elevation 380 feet, which would provide a usable capacity of 600 million gallons for a 20-foot drawdown. It is suggested, however, that the entire basin of 1,500 acres be acquired in order to better control the entire natural drainage into the reservoir as well as to provide for possible future enlargement. The dam site for this reservoir is on rock, and the proposed concrete masonry dam can be constructed so as to be readily increased in height when necessary.

"Immediately below the dam the water will be filtered and then carried in a transmission main, of 200 m.g.d. capacity, 20.75 miles to a point at the southern terminus of the 60-inch diameter supply main of the Wanaque system at the Newark-Elizabeth boundary.

"The investigation of the present needs for water in the Northern Metropolitan District discloses a surplus of supply over demand in the Paterson and Newark areas. However, taking into consideration the entire district, the falling off in demand during the depression and the certain future growth in population and industrial water demands, it would seem wise to proceed without further delay with the development of a major water supply project for the Metropolitan District. New York City, the Boston Metropolitan District, and Los Angeles, as well as other lesser metropolitan areas of the country, are now proceeding with undertakings to increase in large measure their available supply of water.

"A careful examination of the quality of the waters in the Delaware River in the vicinity of Raven Rock leads to the conclusion that these waters compare favorably with others being used for potable purposes. Consideration of the steps now being taken by the States of New York, Pennsylvania, and New Jersey to effect further abatement of pollution leads to the belief that an improvement in quality may be expected under interstate co-operation. The purification of waters of such quality by modern filtration methods, as herein proposed for this project, insures the potability of the final product.

"The properties of the Delaware and Raritan Canal provide water diversion rights in the Delaware River which, it is believed, can be transferred by legislative enactment to water supply uses. The feeder and canal afford a right-of-way across the State for an aqueduct to transport this water by gravity. The preferred Plan 1, of the three plans studied, contemplates a closed aqueduct for the entire distance. This would protect the diverted water from local contamination, from cross-drainage, storm water, and polluting material now entering the canal; provide greater reliability of service; and assure lower maintenance and operating cost. The conversion of a 100-year-old canal, with its many structures that carry it across streams and other obstructions, so as to render it suitable for use as a right-of-way for a public water supply aqueduct, involves many difficult problems most readily solved by the use of a closed aqueduct.

"A study of the comparison of the Delaware and Raritan Canal Water Project with the Chimney Rock project, proposed by the North Jersey District Water Supply Commission, and the Bunnvale project, proposed by the State Water Policy Commission, suggests certain advantages and disadvantages.

"Advantages: (1) Existing State ownership of water rights; (2) Existing State ownership of right-of-way from Raven Rock to Bound Brook; (3) Relatively large flow of Delaware River reduces amount of land necessary for storage purposes; (4) Relatively short time necessary to construct the projects; (5) Adapted to the present program of Federal financing of self-liquidating public works.

"Disadvantages: (1) Diversion of interstate waters may lead to possible delays through disagreement or litigation; (2) The further delay in, if not complete abandonment of, the development of intrastate waters from tributaries of Raritan and Delaware Rivers in New Jersey, by gravity, as proposed in the Chimney Rock and Bunnvale projects; (3) The perpetual operation of a pumping station with attending costs and possible interruption in service; (4) The greater distance to transport water from source to the Northern Metropolitan District.

"The comparison of estimated costs and capacities of the three projects, with filtration and delivery to the center of the district, is as follows:

	Delaware and Raritan Canal	*Chimney Rock*	*Bunnvale*
Capacity—M.G.D.	150	145	152
Capital cost	$33,743,000*	$51,994,000	$47,945,000
Construction cost per M.G.D. development	225,000	358,000	315,000
Pumping cost capitalized at 5%	10,400,000	.....	.....
Total comparative cost	$44,143,000	$51,994,000	$47,945,000
Comparative cost per M.G.D. developed	294,000	358,000	315,000

*Plan 1, see text of report.

"While these comparisons are not all strictly on the same basis, they are about the most representative figures available for such different types of projects."

In the "Special Message of Governor A. Harry Moore on the use of the Delaware and Raritan Canal as a water supply to the 163d Legislature of New Jersey. Also transmitting certain documents and reports," transmitted under date of February 13, 1939, the Governor states, in part, as follows:

"I appointed a committee . . . to investigate the feasibility of this plan and report upon its probable cost; also to report upon the quality of the water obtained from the Delaware River and the physical condition of the feeder and canal and their adaptability as a part of a water supply project. I set up this committee, composed of employees of the several State departments, because these men were already employed by the State and the taxpayers were thus saved any additional expense. The files of the various State departments are filled with a tremendous amount of data relating to the State's water supplies, all of which has been available to the committee such as the one I appointed."

Under date of March 15, 1939, the Governor requested a supplemental report on the Delaware and Raritan Canal Water Supply Project; such a report was forwarded under date of April 27, 1939. This report related, in brief, to possible objections to the proposal which had been pointed out by the Interstate Commission on the Delaware River Basin (Incodel).

Into the preparation of the reports entered: field inspections, the collection and examination of stream samples, investigations upon the treatment of sludge from water treatment plants, map and graph work, tabulations, and the examination of data in the files of the department.

The interested personnel in the Bureaus of Chemistry and Engineering —clerical and technical—took a great interest in the preparation of the report; it was due to their efforts that the department's assignments were completed in the allotted time.

The time and labor expended by the personnel of the said Bureaus to accomplish this task, resolved into terms of man-days, are as follows:

Bureau of Chemistry	80 man-days
Bureau of Engineering—technical	270 man-days
Bureau of Engineering—clerical	30 man-days

No. 5—The Pollution of the Waters of the Overpeck Creek, a Tributary of the Hackensack River—The Experimental Filter of the Englewood Sewerage Company, Englewood, New Jersey.

During the summer of 1936 extensive investigations were made of the plants discharging sewage into Overpeck Creek, among which was the Englewood plant. As a result of these investigations, the Department of Health of the State of New Jersey at a meeting held on January 12, 1937, adopted a resolution calling for the service of a notice upon the Englewood Sewerage Company requiring the said company to expand or intensify its method of sewage treatment prior to May 15, 1937, "so that the expanded or intensified method of sewage treatment will be one of sedimentation, oxidation (or nitrification) and chlorination . . . ." This notice also required that the additions and alterations to the plant comply with this Department's rules and regulations.

At a meeting of the Department of Health of the State of New Jersey held on March 9, 1937, it was on motion voted that the enforcement of the above notice, together with others against Bergen County municipalities, be held in abeyance until the meeting of September 1937, at which time those petitioning for an extension of time were to advise the Department as to the progress made in the establishment of joint sewage projects.

The consulting engineer for the Englewood Sewerage Company requested, under date of April 21, 1937, the reaction of this Department to "the type of sprinkling filter that is operated continuously by returning a portion of the effluent to the filter." Included in this letter was the statement "In submitting our plans for this new plant we wish them to

be sufficiently complete to relieve the Englewood Sewerage Company of any further responsibility for any pollution in the Overpeck Creek."

This Department's answer to the above letter, dated April 27, 1937, stated that the knowledge of the Bureau of Engineering relative to this type of filter was limited but that the engineering personnel believed that this method of treatment has considerable merit; further, "The Bureau of Engineering is loathe to recommend the aero-filter at Englewood, however, for the following reasons:

"1. It is understood that the Englewood Sewerage Company, by the construction of a new sewage treatment plant, intends to be relieved of any further responsibility for any pollution in the Overpeck Creek. It is implied, therefore, that the unconditional approval of the State Department of Health would be expected. While the Bureau of Engineering would favor an Aero-Filter installation at some plant in New Jersey, it would be hesitant to recommend an unconditional approval of the same regardless of even optimum conditions and prospects for its success.

"2. The records of this department indicate that the sewage at Englewood is very strong, the biochemical oxygen demand averaging about 410 parts per million and running over 600 parts per million during the periods of heaviest volume of flow. It will, therefore, be necessary that a plant which can be assured of providing a high degree of treatment be installed if a heavy oxygen demand is not to be imposed upon the receiving waters of Overpeck Creek which provide a low dilution factor at Englewood."

Under date of June 2, 1937, this Department was advised that

"At a meeting of the Board of Directors of the Englewood Sewerage Company last night it was voted to establish a sewage testing unit at Englewood for the purpose of determining the efficiency and application of a sprinkling filter operated by the recirculation of the sewage on the filter with the co-operation of the State Department of Health." . . . "Should this method of sewage treatment prove to be successful and economical under New Jersey conditions the company will prepare detailed plans and specifications for the establishment of a permanent plant of this nature to treat the sewage of the city of Englewood."

Paragraph 5, Chapter 186, P. L. 1930 (now Section 58:12–2 of the Revised Statutes) is, in part, as follows:

"It shall be the duty of the Department of Health of the State of New Jersey to investigate the various methods of sewage disposal; in order that it may be able to make proper recommendations in regard thereto. . . ."

The Department, at a meeting held on June 8, 1937, on motion, voted that the Bureau of Engineering be authorized to participate in the investigation being conducted by the Englewood Sewerage Company of a new method of sewage treatment. And on September 14, 1937, the

Department gave a hearing to representatives of interested municipalities in the Overpeck Creek Basin, and the motion was adopted that action upon the enforcement of notices issued, be held in abeyance pending the completion of the Englewood experimental plant.

The experimental plant was completed and placed in operation on October 24, 1937. Engineers of the Department participated in the investigation of the plant during the period from July, 1938 to July, 1939. The report was placed before the members of the Department at a meeting held on May 9, 1939, and the following recommendations were adopted:

"1. That the Department approve the report of the investigation of the Experimental High Capacity Trickling Filter of the Englewood Sewerage Company, 1937-1939.

"2. That copies of the report be forwarded to the Englewood Sewerage Company, the municipalities of Cliffside Park, Englewood, Leonia, Palisades Park, Ridgefield, Ridgefield Park, Teaneck Township and other interested parties.

"3. That the Englewood Sewerage Company be requested to advise this Department as to when final plans and specifications for additions and alterations to its sewage treatment plant, as required by the provisions of a notice issued by this Department on January 12, 1937, will be submitted for appropriate action or as to what action the said company contemplates relative to the compliance with the said notice.

"4. That the attention of the municipalities of Leonia, Palisades Park, Ridgefield, Ridgefield Park and Teaneck Township be called to the action taken by the Department of Health of the State of New Jersey at a meeting held on September 14, 1937; to wit, 'the enforcement of the notices issued by the Department upon only those municipalities which are considering the construction of a trunk sewer in the Overpeck Creek Basin, be held in abeyance pending the completion of investigations to be made at the Englewood Experimental Sewage Treatment Plant.'"

(Reference Annual Reports, 1932, 1933, 1934.)

No. 6—The Sub-Committee on Sanitation of the Committee on Expansion of Public Health of the Governor's Committee on Health and Welfare.

The Sub-committee on Sanitation organized on February 16, 1939; the members were as follows: J. E. Bacon, C. K. Blanchard, H. P. Croft and W. W. Scofield of the State Department of Health; H. T. Critchlow of the State Water Policy Commission; R. C. Errickson of the Board of Health of the City of Long Branch, and C. A. Hallgring and P. J. Monaghan of the Board of Health of the City of Newark. S. A. Kowalchik, senior sanitary engineer in the State Department of Health, served as secretary.

The committee considered and reported upon the following items: public water supplies, public sewerage systems, industrial wastes, physical cross connections between approved and unapproved water supplies and between approved water supplies and drains, the supervision of public water supplies and sewerage systems, swimming pools, garbage and rubbish collection and disposal, recreation places other than camps, rural school sanitation, camp sanitation, eating places and food handling establishments, shellfish, and private water supplies and sewage disposal.

The committee submitted its report, under date of March 28, 1939. There follows the text of the Introduction and the Summary of the aforesaid report.

"Introduction

"Recognizing the fact that sanitation plays an important part in the promotion of health, happiness and prosperity of any community, and that the greater the population density, and the more vigorous the industrial and recreational activities, the greater the need for sanitation, it is deemed advisable to consider first the more important aspects of New Jersey's development and its present position as compared with other States.

"The State of New Jersey occupies a unique location between and partially within two of the nation's greatest commercial, industrial and financial centers. This geographical location, coupled with the fact that approximately 90 percent of its boundary is contiguous to large bodies of water, explains in a large measure its economic and social pattern. It also explains to a considerable degree the State's industrial activity and its extensive developments as suburban and recreational areas.

"Upon its small area, which is only 0.252 percent of the total area of the United States, New Jersey sustains 3.34 percent of the entire population of the country. From 1900 to 1930 it rose in population rank from sixteenth to ninth place while from 1890 to 1930 its population increased 180 percent. The average population of the State is now 570 per square mile. Only one state in the union, Rhode Island, exceeds this density. Such improved facilities as railroads, highways, power and other utilities, and the increased leisure time of the populace have largely contributed to an abnormal population increase in the seacoast area, and the lakeland regions in the northern section of the State.

"The largest rate of population growth, naturally, has been in the metropolitan areas, amounting in instances to phenomenal proportions. Practically all communities of the State, however, have maintained a fair rate of population increase.

"Trends and present circumstances indicate that New Jersey is likely to continue, for many years, to grow at a rate greater than most other sections of the country. Only a sharp reversal of present trends will turn the flow in other directions. Evidences are that New Jersey will be one of the last states to feel the current decline in rate of population increase for the country as a whole. This is of large significance to planning for future development and future service.

"Bearing the above facts in mind, the committee has endeavored to determine what sanitation facilities and services are available to the people of the State, the shortcomings of these services and facilities; and what additional physical equipment, facilities, services and policies are required to assure that the health of its people will be safeguarded. The results of its determinations are presented in this report."

"SUMMARY

"New Jersey's dense population, industrial activity, extensive shore line on ocean, bays and rivers and recreational development all demand that sanitation be given adequate attention in any program of health and welfare.

"So much has already been attained in the protection of public potable water supplies, shellfish and milk, and certain other foods, and in the treatment of sewage, that New Jersey is a leading state in these matters. Sanitation of swimming pools, rural schools and camps, urban and rural eating places and of food manufacturing establishments presents problems which have been studied and analyzed but cannot be met with present public health funds, personnel and legislation. The disposal of industrial wastes, garbage and refuse; adequate sanitary safeguards for places of recreation and for private water supplies and sewage disposal systems each represents a situation known to be unsatisfactory, but data are lacking for quantitative analysis.

"Local public health administration as now constituted in New Jersey does not function well in most rural areas nor in all urban municipalities. For this reason and since supervision of many of the matters above-mentioned is vested in the State Department of Health, more State supervision is thought necessary to accomplish most of the improvements recommended by the committee. A study has also been made of the activities of New Jersey State Water Policy Commission in relation to public water supplies, and it has been determined that an expansion of this agency is needed to meet its problems.

"Generally, the recommendations of the committee include:

"(1) Increased supervision of public water supplies and sewerage systems, and industrial wastes disposal to secure optimum efficiency and protection.

"(2) Construction of facilities to meet present and future needs for safe water supplies and adequate treatment of sewage and industrial wastes.

"(3) Establishment of hydrological and climatological stations to permit of a more adequate study of the ultimate yield of the State surface waterways and ground water for water supply purposes.

"(4) Adequate legislation and supervision to safeguard users of public swimming pools and bathing places.

"(5) Adequate legislation and increased supervision to safeguard patrons of public eating places and camps.

"(6) Increased supervision of the harvesting of shellfish.

"(7) Increased jurisdiction and supervision of certain food manufacturing establishments, and of rural school water supplies.

"(8) Study of municipal garbage disposal to determine the nature and extent, and to evolve a solution of the sanitary problems relating thereto.

"(9) Study of the operation of recreational places to determine the nature and size, and to evolve a solution of sanitary problems relating thereto.

"(10) More advisory aid to rural residents so as to secure safer water supplies derived from private wells, springs, etc., and more adequate disposal of sewage by privately owned septic tank systems and cesspools.

"COSTS

"The estimated costs of the recommended expansions are as follows:

"(a) Increased supervision and assistance	$147,360	per yr.
"(b) Equipment for use in supervision and assistance	25,250	
"(c) Construction of water supplies, sewerage systems	62,825,000	
"(d) Construction of industrial wastes treatment plants	Unknown	

"In arriving at the above estimates of cost of supervision and assistance, it was assumed that the work would be performed largely by the Department of Health of the State of New Jersey. However, should it be found possible to expand local health units and lodge in these units the responsibility of the supervision of local problems in sanitation, the committee's estimates of the per annum cost of supervision and assistance to the State may be reduced materially.

"RESULTS EXPECTED

"1. Increase the safeness and improve the attractiveness of the potable water supplies; and provide an adequate supply of potable water for the immediate future needs.

"2. Reduce, substantially, the pollution of the waters of the State; and recover, for recreational uses and shellfish propagation, a large portion of the State waterways, thereby lessening the hazards to health, comfort and property.

"3. Eliminate the dangers incident to unsafe waters and excreta disposal at rural schools.

"4. Improve the cleanliness and safety of foods, including milk, and improve food handling, thereby reducing the danger of illness and food-borne diseases.

"5. Reduce insanitary conditions in general, and thereby provide more adequate safeguards to the health of the public at large."

The Committee on Expanded Public Health adopted the following resolutions:

"WATER SUPPLY SYSTEMS AND SEWAGE DISPOSAL SYSTEMS AT RURAL SCHOOLS

"WHEREAS, A public school is an integral part of any community; and,

"WHEREAS, A large proportion of the population of any community spends considerable time at public schools; and,

"WHEREAS, The public school is a training place for youth from the standpoints of scholarship, good citizenship, and community responsibility; and,

"WHEREAS, The Committee-at-Large of the Committee on Expanded Public Health of the New Jersey Health and Welfare Conference has learned, through the report prepared by its Sub-committee on Sanitation, that water supplies and the means of disposing of human wastes from many public schools are unsafe and in violation of existing health regulations; therefore,

"Be It Resolved, By the Committee-at-Large of the Committee on Expanded Public Health of the New Jersey Health and Welfare Conference, at its meeting held on the

17th day of May, A. D. one thousand nine hundred and thirty-nine, that providing and maintaining safe sanitary facilities, including the supply of water and the collection and disposal of human wastes at public schools, should be the special interest of the community and the State; and,

"Be It Further Resolved, By the said Committee-at-Large that the water supply and method and means of disposing of human wastes, including the installation of plumbing at public schools, should at least meet the standards and requirements fixed in State Health Laws and regulations, and in the regulations of the Local Board of Health of the community; and,

"Be It Further Resolved, By the said Committee-at-Large, that it hereby recommends that either by permission of State and local Departments of Public Instruction or by legislation that authorized agents of the interested local boards of health or the State Department of Health determine, through inspections, whether compliance is made with the said laws, requirements and regulations, and in case violations are found the said health agencies shall notify the State or local boards of education, which shall promptly take steps to correct such violations."

"Recreational Areas

"Whereas, The Committee-at-Large of the Committee on Expanded Public Health of the New Jersey Health and Welfare Conference has learned, through the report prepared by its Sub-committee on Sanitation, that in New Jersey, because of its position in relation to the metropolitan areas of New York and Philadelphia, its possession of readily accessible and widely popular ocean beaches, and its numerous attractive small lakes and ponds in the northern upland region, recreational activities in the State are increasing almost in phenomenal proportions; and,

"Whereas, The said Committee-at-Large has found and determined that no State health agency exercises organized supervision over sanitation practices in said areas; and,

"Whereas, The said Committee-at-Large is of the opinion that there is a real need for increased supervision of sanitation practices in recreational areas in order to safeguard the health of the patrons and all residents of watershed in that area and that said supervision should be exercised by public health authorities; therefore,

"Be It Resolved, By the Committee-at-Large of the Committee on Expanded Public Health of the New Jersey Health and Welfare Conference, at its meeting held on the 17th day of May, A. D. one thousand nine hundred and thirty-nine, that legislation be promulgated, for enactment, which will vest in the Department of Health of the State of New Jersey and the interested local boards of health the necessary powers to enforce the installation of proper and adequate sanitation facilities at recreational areas and afford the patrons of recreational areas proper and adequate sanitation services."

"Private Water Supply Systems and Sewerage Systems

"Whereas, The Committee-at-Large of the Committee on Expanded Public Health of the New Jersey Health and Welfare Conference has learned, through the report prepared by its Sub-committee on Sanitation, that, in many instances, tracts of land are developed for habitation in localities where public water supply systems and/or sewerage systems are not available, nor likely to be available for many years in the future; and,

"Whereas, In certain of these localities the ground formations are not suitable for the proper and adequate disposal of sewage and other polluting material by private systems, nor are they suitable for the development of safe private water supplies; and,

"Whereas, In certain other areas little consideration is given by the developers of the installation of suitable and adequate systems for the disposal of sewage and other polluting material, or to the development of safe water supply systems; and,

"Whereas, The proper and adequate method of the disposal of sewage and other polluting material should be determined, and the practicability of obtaining a safe water supply, public or private, should be assured prior, rather than subsequent, to the development of any tract of land for habitation; therefore,

"Be It Resolved, By the Committee-at-Large of the Committee on Expanded Public Health of the New Jersey Health and Welfare Conference, at its meeting held on the 17th day of May, A. D. one thousand nine hundred and thirty-nine, that legislation be promulgated, for enactment, requiring that before any map of a real estate sub-division shall be approved by a governing body, in accordance with Section 46:23-2c of the Revised Statutes, such map shall be accompanied by a statement from the local board of health, exercising jurisdiction over such areas, that a public potable water supply and a public sewerage system are available, or that, in its opinion, a safe water supply is assured and the safe disposal of sewage and excrement on lots proposed in such sub-division is practicable.

"Plumbing Installation

"And to determine through what local agency, i. e. Health Department, Building Department, et cetera, the enforcement of regulations on the installation of plumbing systems, shall be carried out, and

"Be It Further Resolved, That it be urged a thorough and scientific study be made by some State or national agency, institution or department to determine authoritatively the minimum installation and design of house plumbing systems, which will operate efficiently and be conducive to the health and comfort of the occupants of homes or buildings in which such systems are installed."

The following is an excerpt from the report of the Chairman of The Committee on Expansion of Public Health to the Executive Committee of The Governor's New Jersey Conference on Health and Welfare:

"Sanitation: This splendid and outstanding report, as it stands, should be published in its entirety as soon as possible, as it presents the present situation with recommendations as to all of the sanitary problems existing in New Jersey, together with the solution of these problems and the estimated costs thereof. This study will serve as a textbook, for years to come for all who wish to know the sanitary problems of this State and what is needed to correct them."

The time and labor expended by the personnel of the Bureau to accomplish this task, resolved into terms of man-days, are as follows:

Technical staff	50 man-days
Clerical staff	45 man-days

No. 7—Pollution of the Raritan River and its Tributaries, and Policies Established

The sanitary survey and the "clean-up" of the Raritan River and its tributaries have continued during the past year. The fine spirit of co-operation shown by most of the interested industries, in the effort to abate the discharge of harmful polluting matter into the waters of the river, will go far toward restoring these waters to their rightful position in the existence of the people in the lower Raritan Valley. Already plans are under consideration for the use of the improved waters as a source of public potable water supply; a large water front parkway and recreation center is under construction and the construction of others is contemplated. Fish are returning to the Raritan River; large catches are reported up to Crab Island—about five miles below the City of New Brunswick.

There are 192 industries located in the lower Raritan Valley; that is, below the confluence of the north and south branches of the Raritan River. Of these industries, 36 had discharged or were found to be discharging material directly into the river, and information upon their waste disposal, as of June 30, 1939, is contained in the following table:

Classification	*Number Plants in Classification*	*Total Wastes in M.G.D.*	*Total Oxygen Requirements in Pounds/Day*	*Population Equivalents*	*Total Free Acid—Pounds/Day*
No longer discharging to Raritan River	7	1.730	4,407	25,916	12,050
Treatment installed—results satisfactory	3	15.350	21,190	124,460	18,061
Treatment plants under construction ...	5	12.931	27,566	127,500	5,600
Experimenting with treatment processes—progress satisfactory	6	4.616	12,239	71,935	103,042
Not considered polluting	4	0.910	11	66	.....
Waiting upon construction of new municipal sewer lines	4	0.084	69	410	.....
Progress unsatisfactory	4	2.513	9,653	56,600	24,396
Out of business	2	0.722	1,597	9,380	.....
Moving off watershed	1	0.022	58	340	.....

Before the start of the industrial clean-up, the daily discharge from the 36 industries averaged 38,158,000 gallons of wastes which had oxygen absorbing properties of 76,790 pounds—an amount equivalent to the oxygen absorbing properties in the wastes from a population of 416,600; in addition, 163,149 pounds of acid were discharged daily. With the operation of the industrial wastes treatment plants, including plants now under construction and proposed, the oxygen absorbing properties in the discharged wastes should be reduced 88.8 per cent and the acid reduced 85 per cent.

During the fiscal year ten new sewage treatment plants were placed in operation and these receive, on an average, 10,770,000 gallons of sewage per day from a population of over 93,500. The operation of these plants reduce the biochemical oxygen demand of the discharged wastes from 21,589 pounds to 8,942 pounds—a reduction of about 59 per cent.

Most of the work in the Raritan River Valley has been done by a special technical force which has expended the following man-working days:

Investigation of the operation of new sewage treatment plants	208
Investigation of industrial wastes	94
Investigation of receiving waters	91
Office, including preparation for field work and court cases	350

The investigation of the pollution of the waters of the Raritan River and its tributaries was instituted on July 1, 1931. At that time Russell E. Watson, Esq., was appointed, with no remuneration, as special deputy attorney-general in charge of the legal work relating to pollution. It is due to the efforts of Mr. Watson and the sincere encouragement of the director and board members that the progress has been made in this complicated and difficult problem.

The members of the Department of Health of the State of New Jersey, at a meeting held on November 15, 1938, adopted a policy, which relates to the discharge of sewage and other polluting matter, the source of which was created subsequent to such date. The policy is as follows:

"Whereas, The Department of Health of the State of New Jersey has caused to be made extensive inspections and investigations of the sanitary qualities of the waters of the Raritan River and has required the installation of works for the treatment of domestic sewage, industrial wastes and other polluting matter discharged therein; and,

"WHEREAS, The municipalities located along and near the Raritan River and corporations operating manufacturing plants along and near the Raritan River have expended and are expending large sums of money for the construction and operation of plants for the treatment of domestic sewage or industrial wastes or other polluting matter in compliance with notices to cease polluting the Raritan River issued by the Department of Health of the State of New Jersey; and,

"WHEREAS, The Raritan River is the natural place of discharge of sewage and other polluting matter from premises and municipalities located in the watershed of the Raritan River and the control of such pollution from new sources in said watershed is necessary in order that the beneficial results of the treatment plants and works heretofore constructed, now being constructed and hereafter to be constructed in compliance with notices issued by the Department of Health of the State of New Jersey as aforesaid shall not be impaired; and,

"WHEREAS, Section 58:12-3 of the Revised Statutes reads in part as follows:

'Pollution of waters by sewage prohibited. Except under such conditions as shall be approved by the Department, no person, corporation or municipality shall build any sewer, drain or sewerage system from which it is designed that any sewage or other harmful and deleterious matter, solid or liquid, shall flow into any of the waters of this State, or build, cause to be built or operate any plant for the treatment of sewage or other polluting substance from which the effluent is to flow into any of such waters, . . . Before the building of any plant for the treatment of sewage or other polluting substance as aforesaid, any new plans therefor shall be submitted to the Department.';

and,

"WHEREAS, In order that the waters of the Raritan River shall not be polluted in such manner as to cause or threaten injury to the inhabitants of the said watershed either in their health, comfort or property, it is necessary that the sewage and other polluting material discharged in the said river from new sources be subjected to a minimum method of treatment of sedimentation, oxidation (or nitrification) and chlorination, so that a well clarified and highly oxidized effluent, low in bacterial content, will be discharged into the said river; therefore,

"Be It Resolved, By the Department of Health of the State of New Jersey, at a meeting held on the fifteenth day of November, A. D. one thousand nine hundred and thirty-eight, that under the power and authority granted to the said Department of Health by the provisions of Chapter 10, Title 58 of the Revised Statutes, said chapter being entitled 'Pollution of Waters,' Chapter 11, Title 58 of the Revised Statutes, said chapter being entitled 'Water and Sewerage Plants and Systems in General,' Chapter 12, Title 58 of the Revised Statutes, as amended by Chapter 224 of the Laws of 1938, said chapter being entitled 'Sewerage Districts and Sewerage District Boards,' and particularly by said section R. S. 58:12-3 above quoted, that all sewage and other polluting matter, the source of which was not created, established, caused or maintained prior to the fifteenth day of November, A. D. one thousand nine hundred and thirty-eight, or which was not discharged into the Raritan River prior thereto, shall, before discharge into the waters of the Raritan River, be subjected, as a minimum, to a method of treatment equivalent to that obtained by sedimentation, oxidation (or nitrification) and chlorination, so that a well clarified and highly oxidized effluent, low in bacterial content, will be discharged from the said new sources of pollution; and,

"Be It Further Resolved, That this policy, hereby established, shall apply to the discharge of sewage, industrial and/or manufacturing wastes and other polluting matter and shall apply to any person, firm or corporation, municipal or otherwise; and,

"Be It Further Resolved, That this policy shall become effective immediately."

To aid in the correction and control of the pollution of the waters of the Raritan River and its tributaries, the Department at a meeting held on June 13, 1939, adopted the following preamble and resolution:

"WHEREAS, The control of future pollution and the abatement of existing pollution in the waters of the Raritan River and its tributaries from the mouth of the said river to the confluence of the Raritan and Millstone Rivers, are of prime importance to the people living in and adjacent to the said section of the river, and, are necessary in order to place and maintain the waters of the said river in a condition satisfactory for safe and economical use as public and industrial water supplies after reasonable treatment, suitable for recreational usage, fit for supporting fish and other aquatic life, safe for shellfish propagation and adaptable to such other uses as may be legitimate, and, further, render and maintain said waters free from unsightly or malodorous nuisances due to floating solids, scum, oil or grease, sleek or sludge deposits and free from all such pollution that may cause or threaten injury to any of the inhabitants of this State either in their health, comfort or property; and,

"WHEREAS, The Department of Health of the State of New Jersey acting since 1931 under special and regular appropriations, has made, and is making, through its representatives, investigations of the sanitary conditions of the aforesaid waters of the Raritan River and its tributaries, and, based upon the findings of investigations made, has issued recommendations and orders upon certain municipalities and industrial establishments to cease the discharge of raw or inadequately treated domestic sewage, industrial wastes or other polluting matter into the said waters, and to dispose of such domestic sewage, industrial wastes or other polluting matter in a manner satisfactory to the said Department of Health; and,

"WHEREAS, Most of the aforesaid municipalities and industrial establishments have complied, or are complying, with the aforesaid recommendations and orders issued by the said department, and the said State Department of Health is of the opinion that the sewage treatment works and the industrial waste treatment works constructed, and in the course of construction, represent the expenditure of over six million dollars ($6,000,000) by the interested municipalities and industries and the Federal government, and the maintenance and operation of the said works by the interested municipalities and industries involve an additional expenditure of large sums of money; and,

"WHEREAS, The Department of Health of the State of New Jersey is of the opinion that the aforesaid sewage treatment works and the industrial waste treatment works are designed to treat raw sewage and other polluting matter now or formerly discharged from municipally owned and operated sewer systems to an amount of over thirty-three million (33,000,000) gallons of sewage per day—the amount of over twenty-one million six hundred forty thousand (21,640,000) gallons is now being contributed by a population of over two hundred fifty thousand (250,000) persons, and, are designed to treat raw sewage, industrial wastes and other polluting

matter now or formerly discharged from industrial plants to an amount of over thirty-eight million (38,000,000) gallons per day, said thirty-eight million gallons of waste having an oxygen absorbing power equal to the normal sanitary wastes of a contributing population of over three hundred forty thousand (340,000) persons; and,

"WHEREAS, Section 58:12-2 of the Revised Statutes of New Jersey is as follows:

'58:12-2. *Powers and duties of Department of Health relative to sewage disposal and pollution of waters; orders for improvements; appeal.* The State Department of Health, hereinafter in this chapter designated as the "Department," shall investigate the various methods of sewage disposal in order that it may be able to make proper recommendations in regard thereto, shall require alterations, additions or improvements to sewage treatment works, shall investigate all complaints of pollution of the waters of this State which shall be brought to its notice, and may inspect any of the waters of this State.

'If the Department finds that any of said waters are being polluted in such manner as to cause or threaten injury to any of the inhabitants of this State, either in their health, comfort or property, or that any sewage treatment works are inadequate in capacity or unit design to properly care for, treat and dispose of sewage before an effluent from such works is discharged into any of said waters, it shall notify in writing any person, corporation or municipality found to be polluting said waters or owning, operating or controlling, separately or jointly, any such inadequate sewage treatment works, that prior to a time to be fixed by the Department, which time shall not be later than five years from the date of the notice, the person, corporation or municipality polluting said waters must cease such polluting and make such disposition of its sewage and other polluting matter as shall be approved by the Department, and such person, corporation or municipality owning, operating or controlling inadequate sewage treatment works as aforesaid must alter, add to or improve such works in order that the sewage being received therein shall be cared for. treated and disposed of, and the effluent discharged into said waters in a manner approved by the Department.

'Any person, corporation or municipality aggrieved by the finding of the Department may appeal therefrom to the court of chancery at any time within three months after being notified thereof, and said court may hear and determine such appeal in a summary manner according to the course and practice of the court in other cases, and thereupon may affirm the finding of the Department or reverse or modify the finding in whole or in part as the court shall deem just and reasonable.';

and,

"WHEREAS, Section 58:12-3 of the Revised Statutes of New Jersey is as follows:

'58:12-3. *Pollution of waters by sewage prohibited.* Except under such conditions as shall be approved by the Department, no person, corporation or municipality shall build any sewer, drain, or sewerage system from which it is designed that any sewage or other harmful and deleterious matter, solid or liquid, shall flow into any of the waters of this State, or build, cause to be built or operate any plant for the treatment of sewage or other polluting substance from which the effluent is to flow into any of such waters, or, after the date specified in the notice provided for by section 58:12-2 of this title, permit any sewage or other polluting matter to flow into such waters from any sewer, drain or sewerage system under

its control. Before the building of any plant for the treatment of sewage or other polluting substance as aforesaid, any new plans therefor shall be submitted to the Department.';

and,

"WHEREAS, The Interstate Sanitation Commission, established under the provisions of Subtitle 7, Title 32 of the Revised Statutes of New Jersey, has the authority to group the waters of the Interstate Sanitation District into two classes, to wit: Class 'A' and Class 'B'; and, that the Class 'A' is the group 'in which the designated water areas are expected to be used primarily for recreational purposes, shellfish culture or the development of fish life'; and,

"WHEREAS, Article VII, Section 32:18-8 of the Revised Statutes of New Jersey, is, in part, as follows:

'1. It is agreed between the signatory states that no sewage or other polluting matters shall be discharged or permitted to flow into, or be placed in, or permitted to fall or move into the tidal waters of the district, except under the following conditions and restrictions:

'(1) All sewage discharged or permitted to flow into Class "A" waters of the district shall first have been so treated as—

'a. to remove all floating solids and at least sixty per cent (60%) of the suspended solids; and

'b. to effect a reduction of organisms of the B. Coli group (intestinal bacilli) so that the probable number of such organisms shall not exceed one per cubic centimeter in more than fifty per cent (50%) of the samples of sewage effluent tested by the partially confirmed test; *provided, however,* that in the case of discharge into waters used primarily for bathing this bacterial standard need not be required except during the bathing season; and

'c. to effect a reduction in the oxygen demand of the sewage effluent sufficient to maintain an average dissolved oxygen content in the tidal waters of the district and in the general vicinity of the point of discharge of the sewage into those waters, at a depth of about five feet below the surface of not less than fifty per cent (50%) saturation during any week of the year. . . .';

and,

"WHEREAS, Article VIII, Section 38:18-9 of the Revised Statutes of New Jersey is, in part, as follows:

'1. Each of the signatory states agrees, that in so far as waters within its jurisdiction may flow into any portion of the district, all sewage discharged or permitted to flow into any stream tributary to the tidal waters of the district shall be treated to that extent, if any, which may be necessary to maintain such tributary immediately above its confluence with the tidal waters of the district in a sanitary condition at least equal to the classification requirements determined by the commission for the tidal waters of the district into which it discharges. The waters of the Hudson River, immediately above the mouth of the Sparkill Creek on the westerly side and the New York-New Jersey boundary extended on the easterly side of the river, shall be maintained in a sanitary condition at ebb tide at least equal to the sanitary condition prevailing in the waters of the river immediately below said boundary at flood tide.';

and,

"WHEREAS, The Department of Health of the State of New Jersey is in receipt of a preamble and resolution, adopted by the Interstate Sanitation Commission, at a hearing held by said commission on December 8, 1937, which classifies the waters of the Raritan Bay together with the Raritan River up to the Victory Bridge, on said river, between the municipalities of Perth Amboy and South Amboy as Class 'A' waters, said preamble and resolution reading as follows, to wit:

'WHEREAS, Upon due notice, public hearings upon the predominate use of the waters of the Interstate Sanitation District were conducted at Perth Amboy, N. J., on the twenty-eighth day of April, nineteen hundred and thirty-seven; at Keansburg, N. J., on the twenty-first day of July, nineteen hundred and thirty-seven; and at Brooklyn, N. Y., on the eighteenth day of August, nineteen hundred and thirty-seven, as provided by the terms of the Compact entered into between the States of New York and New Jersey, and

'WHEREAS, A study was made by this Commission through its staff and employees, and

'WHEREAS, The Commissioners have given proper study to the question, now after due deliberation,

'Be It Resolved, By the Interstate Sanitation Commission at a meeting held on the eighth day of December, nineteen hundred and thirty-seven, that the waters of the Interstate Sanitation District including 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; and the tidal waters of greater New York City south of the narrows and of Arthur Kill south of Outerbridge Crossing, together with all the estuaries and tidal waters of the Interstate Sanitation District adjacent thereto—shall be designated:

CLASS "A" WATERS

in conformity with the terms and conditions of the aforesaid Compact.

'Adopted at the regular meeting of the Interstate Sanitation Commission December 8, 1937.

S. G. HESS (Signed),
SETH G. HESS,
Chief Engineer-Executive Secretary.';

'[SEAL]

and,

"WHEREAS, The Department of Health of the State of New Jersey at a meeting held on November 15, 1938, adopted a preamble and resolution reading as follows:

'Be It Resolved, By the Department of Health of the State of New Jersey, at a meeting held on the fifteenth day of November, A. D. one thousand nine hundred and thirty-eight, that under the power and authority granted to the said Department of Health by the provisions of Chapter 10, Title 58 of the Revised Statutes, said chapter being entitled "Pollution of Waters," Chapter 11, Title 58 of the Revised Statutes, said chapter being entitled "Water and Sewerage Plants and Systems in General," Chapter 12, Title 58 of the Revised Statutes, as amended by Chapter 224 of the Laws of 1938, said chapter being entitled "Sewerage Districts and Sewerage District Boards," and particularly by the said section R. S. 58:12-3 above-quoted, that all sewage and other polluting matter, the source of which was not created, established, caused or maintained prior to the fifteenth day of November, A. D. one thousand nine hundred and thirty-eight, or which was not discharged into the Raritan River prior thereto, shall, before discharge into the waters of the Raritan River, be subjected, as a minimum, to a method of treatment equivalent to that obtained by sedimentation, oxidation (or nitrification) and chlorination, so that a well clarified and highly oxidized effluent, low in bacterial content, will be discharged from the said new sources of pollution; and,

'Be It Further Resolved, That this policy, hereby established, shall apply to the discharge of sewage, industrial and/or manufacturing wastes and other polluting matter and shall apply to any person, firm or corporation, municipal or otherwise; and,

'Be It Further Resolved, That this policy shall become effective immediately.'; and,

"WHEREAS, The Department of Health of the State of New Jersey has been requested to establish standards of purity in the matter of existing pollution of the waters of the Raritan River and its tributaries; and,

"WHEREAS, A preamble and resolution was adopted, on February 15, 1938, by the Mayors Association of Middlesex County, which preamble and resolution is, in part, as follows, to wit:

'WHEREAS, The municipalities bordering on the Raritan River were directed by decrees made by the Court of Chancery of New Jersey in suits instituted by the New Jersey State Department of Health to cease polluting the Raritan River by emptying untreated domestic sewage therein, and

'WHEREAS, The said municipalities have complied or are complying with the said decrees at an aggregate cost of approximately $4,000,000.00, and

'WHEREAS, The Raritan River is grossly polluted by the discharge therein of untreated industrial wastes; and

'WHEREAS, The said municipalities bordering on the Raritan River were given to understand that the New Jersey State Department of Health intended to proceed against industrial polluters of the Raritan River as the final step in its program for the purification of the river as soon as the domestic sewage problem had been solved; and,

'WHEREAS, The Raritan River will continue to be a grossly polluted stream unless industrial wastes now being discharged therein are treated and in such case the moneys spent by the municipalities will be largely wastes; now therefore,

'Be It Resolved, By the Mayors Association of Middlesex County, New Jersey, that the New Jersey State Department of Health be commended for its efforts to enforce the law respecting the pollution of the Raritan River and be

urged to complete its program for the purification thereof by the control of industrial pollution as soon as possible.

'Be It Further Resolved, That this association extend to the New Jersey State Department of Health its support and co-operation in its efforts to control industrial pollution.';

and,

"WHEREAS, The Department of Health of the State of New Jersey has found and determined that in order that domestic sewage, industrial wastes or other polluting matter, now discharged into the waters of the Raritan River and its tributaries from the mouth of the said river to the confluence of the Raritan and Millstone Rivers, shall not injure or threaten injury to the health, comfort or property, or recreational facilities of the people living in, and adjacent to, said section of the Raritan River Basin, and cause great economic loss, such domestic sewage, industrial wastes or other polluting material shall be subjected to a method of treatment, as a minimum, which will produce an effluent which, at least, will meet the following requirements.

"1. The effluent shall contain no free acidity; that is, all titratable acidity shall be neutralized.

"2. The effluent shall be free of noticeable floating solids, scum, oil, grease or sleek.

"3. The effluent shall be sufficiently free of color or turbidity, or both, so that after dispersion in the receiving waters, or not more than one thousand (1,000) feet above or below the point of effluent discharge, it will not substantially discolor, alter the natural color or add to the turbidity of the receiving waters.

"4. The effluent shall be free of caustic alkalinity or other toxic or deleterious substances.

"5. The effluent shall be free of offensive odors.

"6. The effluent shall be of such a quality that the most probable number of organisms of the Coli-Aerogenes Group shall not exceed one (1) per cubic centimeter in more than twenty-five per centum (25%) of the samples of effluent tested by the partially confirmed test; *and provided, further,* that no single sample shall contain more than ten (10) organisms of the Coli-Aerogenes Group in one (1) cubic centimeter.

"7. The effluent after dispersion in the receiving waters, or not more than one thousand (1,000) feet above or below the point of effluent discharge, shall not reduce the dissolved oxygen content in such receiving waters below fifty per centum (50%) saturation. The aforesaid dissolved oxygen content shall be determined by the average of the results of the analysis of at least six (6) samples collected at approximately equal intervals during any eight hour (8 hr.) period of any day; now,

"Be It Resolved, By the Department of Health of the State of New Jersey, at a meeting held on the thirteenth day of June, A. D. one thousand nine hundred and thirty-nine, that under the power and authority granted to the said Department of Health by the provisions of certain sections of Title 58 of the Revised Statutes, domestic sewage, industrial wastes or other polluting matter now discharged into, or now permitted to flow or fall into, or now placed in the waters of the Raritan River and its tributaries from the mouth of the said river to the confluence of the Raritan and Millstone Rivers shall be subjected to a method of treatment, as a minimum, which will produce an effluent which will, at least, meet the following requirements:

"1. The effluent shall contain no free acidity; that is, all titratable acidity shall be neutralized.

"2. The effluent shall be free of noticeable floating solids, scum, oil, grease or sleek.

"3. The effluent shall be sufficiently free of color or turbidity, or both, so that after dispersion in the receiving waters, or not more than one thousand (1,000) feet above or below the point of effluent discharge, it will not substantially discolor, alter the natural color or add to the turbidity of the receiving waters.

"4. The effluent shall be free of caustic alkalinity or other toxic or deleterious substances.

"5. The effluent shall be free of offensive odors.

"6. The effluent shall be of such quality that the most probable number of organisms of the Coli-Aerogenes Group shall not exceed one (1) per cubic centimeter in more than twenty-five per centum (25%) of the samples of effluent tested by the partially confirmed test; *and provided, further,* that no single sample shall contain more than ten (10) organisms of the Coli-Aerogenes Group in one (1) cubic centimeter.

"7. The effluent after dispersion in the receiving waters, or not more than one thousand (1,000) feet above or below the point of effluent discharge, shall not reduce the dissolved oxygen content in such receiving waters below fifty per centum (50%) saturation. The aforesaid dissolved oxygen content shall be determined by the average of the results of the analysis of at least six (6) samples collected at approximately equal intervals during any eight hour (8 hr.) period of any day; and,

"Be It Further Resolved, That this policy, hereby established, shall apply to the discharge of sewage or other polluting matter; and,

"Be It Further Resolved, That this policy shall become effective immediately; and,

"Be It Further Resolved, That this policy shall not repeal the policy established by the Department of Health of the State of New Jersey at a meeting held on November 15, 1938; said policy relating to stream pollution, the source of which was not created, established, caused or maintained prior to November 15, 1938; and,

"Be It Further Resolved, By the Department of Health of the State of New Jersey that a copy of this resolution be made a part of the records of the Department of Health of the State of New Jersey, to be used in all prosecutions made under the provisions of certain sections of Title 58 of the Revised Statutes, for the control or abatement of existing pollutions in the waters of the Raritan River and its tributaries from the mouth of the said river to the confluence of the Raritan and Millstone Rivers."

(Reference: Annual reports for 1931, 1932, 1933, 1934, 1937, 1938.)

No. 8—FEDERAL AID FOR INCREASED PERSONNEL

During this fiscal year the Bureau was again able, through the aid granted by the Federal Government to retain on its staff, in addition to its normal personnel, one (1) sanitary engineer-chemist, and three (3) assistant sanitary engineers. This additional personnel continued inspections of the various water supplies, sewage treatment plants, and performed other allied work, viz., stream sampling, drafting, compiling of statistical data, preparation of court exhibits, etc. In general the scope of the field and office work was expanded commensurately with the expansion of the personnel.

More particularly, the Bureau was able to further its investigations and studies of the industrial pollution of the Raritan River, and to co-operate with the many industries in developing feasible and effective methods of treatment of their respective wastes. All these efforts together with the policing and inspections of the existing sewage and industrial treatment works produced fruitful progress towards the completion of its "pollution-abatement program" in the Raritan Valley, which was initiated by the Department several years past.

Also, the Bureau was aided greatly in the examination of the plans and specifications for sewerage and water projects submitted to the Department for approval, a pronounced influx of which continued as a result of the additional Federal grants and loans made available to New Jersey municipalities for the construction of such public works.

In addition, the Bureau intensified its activities in the investigation and study of the pollution of the Delaware River, which was done in co-operation with the Interstate Commission on the Delaware River Basin, a commission created by the mutual actions of the States of New York, Pennsylvania and New Jersey—Delaware co-operating.

The Bureau was also able to cope successfully with the administration of the water superintendents licensing act (Chapter 206, P. L. 1939), a new duty imposed upon the Bureau by an act of legislation; to participate in the preparation of the "Report on the Utilizations of the Delaware and Raritan Canal for a Metropolitan Water Supply in the State of New Jersey," and the "Report of the Sub-Committee on Sanitation of the Expanded Committee on Public Health of the State of New Jersey," which work was done pursuant to the instructions of the Governor of New Jersey; and to co-operate with the Atlantic City Sewerage Company and the Englewood Sewerage Company in the performance of tests in certain proposed experimental methods of sewage treatment.

No. 9—The Examination of Bay and Ocean Waters From South Amboy to Seaside Park

In August, 1938, bacteriological examinations were made of surf samples collected from South Amboy to Seaside Park. The procedure was in conformity with a program instituted prior to 1930. Samples were collected from 92 bathing beaches located upon the shores of the

Raritan and the Sandy Hook Bays and the Atlantic Ocean. The results obtained in the examinations of samples collected, are shown in the table which follows this article.

It is concluded, as of August, 1938, that: the sanitary conditions of the bay waters have improved since the preceding survey; the bay waters, except in and around South Amboy and Keansburg, are relatively safe for recreational purposes, including bathing; and, the ocean waters, adjacent to the bathing beaches from Sea Bright to Seaside Park, are relatively safe for recreational purposes, including bathing.

Due to increased work in duties established by law, board action and usage, and limited personnel, a survey of the bay and ocean waters was not made in the summer of 1939; therefore, an opinion cannot be expressed upon these waters for that period.

(Reference: Annual Report, 1930 to 1935, 1938.)

BACTERIOLOGICAL DATA

S-1 to S-92 Aug. 20, 1938
S-101 to S-192 Aug. 30, 1938

SURF SAMPLES COLLECTED AUGUST 29 AND 30, 1938 FROM SOUTH AMBOY TO SEASIDE PARK, N. J.

Sample No.	MUNICIPALITY	LOCATION	TIME	TIDE	COLI-AEROGENES GROUP	INDEX COLI PER C.C.
S-1	South Amboy	One Block East of Railroad Station	11:00 AM	high	Present 4 of 5 — 0.1 c.c.	8.0
S-101	South Amboy	One Block East of Railroad Station	5:55 AM	low	Present 2 of 5 — 0.01 c.c.	40.0
S-2	South Amboy	West of Railroad Pier	11:00 AM	high	Present 3 of 5 — 0.01 c.c.	60.0
S-102	South Amboy	West of Railroad Pier	5:55 AM	low	Present 2 of 5 — 0.01 c.c.	40.0
S-3	South Amboy	East of Railroad Pier	11:00 AM	high	Present 1 of 5 — 0.01 c.c.	20.0
S-103	South Amboy	East of Railroad Pier	5:55 AM	low	Present 1 of 5 — 0.01 c.c.	20.0
S-4	Morgan	West of Jetty	11:30 AM	high	Present 2 of 5 — 0.1 c.c.	4.0
S-104	Morgan	West of Jetty	6:10 AM	low	Present 1 of 5 — 0.01 c.c.	20.0
S-5	Morgan	Cheesequake Creek at Bay	11:20 AM	high	Present 2 of 5 — 0.1 c.c.	4.0
S-105	Morgan	Cheesequake Creek at Bay	6:10 AM	low	Present 4 of 5 — 1.0 c.c.	0.8
S-6	Morgan	East of Jetty	11:20 AM	high	Present 2 of 5 — 0.1 c.c.	4.0
S-106	Morgan	East of Jetty	6:10 AM	low	Present 1 of 5 — 0.1 c.c.	2.0
S-7	Laurence Harbor	West End of Restaurant-Inlet	11:30 AM	high	Present 3 of 5 — 0.1 c.c.	6.0
S-107	Laurence Harbor	West End of Restaurant-Inlet	6:20 AM	low	Present 1 of 5 — 0.1 c.c.	2.0
S-8	Laurence Harbor	East End of Restaurant	11:35 AM	high	Present 1 of 5 — 0.1 c.c.	2.0
S-108	Laurence Harbor	East End of Restaurant	6:20 AM	low	Present 4 of 5 — 1.0 c.c.	0.8
S-9	Laurence Harbor	Beach West of Siedler's	11:45 AM	high	Present 3 of 5 — 0.1 c.c.	6.0
S-109	Laurence Harbor	Beach West of Siedler's	6:20 AM	low	Present 3 of 5 — 0.1 c.c.	6.0
S-10	Siedler's Beach	West of Restaurant	11:45 AM	high	Present 2 of 5 — 0.1 c.c.	4.0
S-110	Siedler's Beach	West of Restaurant	6:25 AM	low	Present 3 of 5 — 1.0 c.c.	0.6
S-11	Siedler's Beach	East of Restaurant	11:45 AM	high	Present 4 of 5 — 1.0 c.c.	0.8
S-111	Siedler's Beach	East of Restaurant	6:25 AM	low	Present 3 of 5 — 1.0 c.c.	0.6
S-12	Keyport	100 Feet Above Outfall	11:55 AM	high	Present 4 of 5 — 0.1 c.c.	8.0
S-112	Keyport	100 Feet Above Outfall	6:35 AM	low	Present all of 5 — 0.1 c.c.	10.0
S-13	Keyport	100 Feet Below Outfall			No Sample Taken	
S-113	Keyport	100 Feet Below Outfall	6:35 AM	low	Present all of 5 — 0.1 c.c.	10.0
S-14	Keyport	Main Beach at Dock	11:55 AM	high	Present 2 of 5 — 0.1 c.c.	4.0
S-114	Keyport	Main Beach at Dock	6:35 AM	low	Present 3 of 5 — 0.1 c.c.	6.0

S-15	Keyport	Boat Works	12:00 N	1 hr. ebb	Present all of 5 — 1.0 c.c.	1.0
S-115	Keyport	Boat Works	6:35 AM	low	Present all of 5 — 1.0 c.c.	1.0
S-16	Union Beach	Yacht Club	12:10 PM	1 hr. ebb	Present 3 of 5 — 0.1 c.c.	6.0
S-116	Union Beach	Yacht Club	6:45 AM	low	Present all of 5 — 1.0 c.c.	1.0
S-17	Keansburg	Laurel Avenue	12:25 PM	1 hr. ebb	Present 3 of 5 — 0.1 c.c.	6.0
S-117	Keansburg	Laurel Avenue	7:00 AM	1 hr. flood	Present 3 of 5 — 0.1 c.c.	6.0
S-18	Keansburg	Oakwood Place	12:30 PM	1 hr. ebb	Present 1 of 5 — 1.0 c.c.	0.2
S-118	Keansburg	Oakwood Place	7:05 AM	1 hr. flood	Present 4 of 5 — 0.1 c.c.	8.0
S-19	Keansburg	Carr Avenue	12:35 PM	1 hr. ebb	Present 2 of 5 — 0.1 c.c.	4.0
S-119	Keansburg	Carr Avenue	7:10 AM	1 hr. flood	Present 1 of 5 — 0.01 c.c.	20.0
S-20	Keansburg	Grandview Avenue	12:40 PM	1 hr. ebb	Present 3 of 5 — 0.1 c.c.	6.0
S-120	Keansburg	Grandview Avenue	7:15 AM	1 hr. flood	Present 4 of 5 — 0.1 c.c.	8.0
S-21	Keansburg	Bayview Avenue	12:45 PM	1 hr. ebb	Present 2 of 5 — 0.1 c.c.	4.0
S-121	Keansburg	Bayview Avenue	7:15 AM	1 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-22	Keansburg	100 Feet West of Outfall			No Samples Taken	
S-122	Keansburg	100 Feet West of Outfall	7:20 AM	1 hr. flood	Present all of 5 — 1.0 c.c.	1.0
S-23	Keansburg	500 Feet East of Outfall	12:50 PM	1 hr. ebb	Present 2 of 5 — 0.1 c.c.	4.0
S-123	Keansburg	500 Feet East of Outfall	7:20 AM	1 hr. flood	Present all of 5 — 1.0 c.c.	1.0
S-24	Ideal Beach	Beacon Avenue	12:55 PM	1 hr. ebb	Present 2 of 5 — 0.1 c.c.	4.0
S-124	Ideal Beach	Beacon Avenue	7:25 AM	1 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-25	Atlantic Highlands	Atlantic Beach	1:10 PM	2 hr. ebb	Present 1 of 5 — 1.0 c.c.	0.2
S-125	Atlantic Highlands	Atlantic Beach	7:35 AM	1 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-26	Atlantic Highlands	Richard's Beach	1:10 PM	2 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-126	Atlantic Highlands	Richard's Beach	7:35 AM	1 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-27	Atlantic Highlands	Free Beach	1:45 PM	2 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-127	Atlantic Highlands	Free Beach	7:35 AM	1 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-28	Highlands	Atlantic Avenue	1:50 PM	2 hr. ebb	Present all of 5 — 1.0 c.c.	1.0
S-128	Highlands	Atlantic Avenue	7:40 AM	1 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-29	Highlands	Cornwall Avenue	1:50 PM	2 hr. ebb	Present 3 of 5 — 1.0 c.c.	0.6
S-129	Highlands	Cornwall Avenue	7:40 AM	1 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-30	Highlands	Shrewsbury Pumping Station No. 1 Public Beach	1:55 PM	2 hr. ebb	Present 3 of 5 — 1.0 c.c.	0.6
S-130	Highlands	Shrewsbury Pumping Station No. 1 Public Beach	7:45 AM	1 hr. flood	Present 3 of 5 — 1.0 c.c.	0.6
S-31	Sea Bright	Sandless Beach	2:05 PM	3 hr. ebb	Present all of 5 — 1.0 c.c.	1.0
S-131	Sea Bright	Sandless Beach	7:50 AM	1 hr. flood	Present 4 of 5 — 1.0 c.c.	0.8

BACTERIOLOGICAL DATA

S-1 to S-92 Aug. 29, 1938
S-101 to S-192 Aug. 30, 1938

SURF SAMPLES COLLECTED AUGUST 29 AND 30, 1938 FROM SOUTH AMBOY TO SEASIDE PARK, N. J.—Continued

Sample No.	MUNICIPALITY	LOCATION	TIME	TIDE	COLI-AEROGENES GROUP	INDEX COLI PER C.C.
S-32	Sea Bright	Beach Club	2:20 PM	3 hr. ebb	Present 1 of 5 — 1.0 c.c.	0.2
S-132	Sea Bright	Beach Club	7:55 AM	1 hr. flood	Present 1 of 5 — 1.0 c.c.	0.2
S-33	Sea Bright	Beach Club	2:20 PM	3 hr. ebb	Present 4 of 5 —10.0 c.c.	0.0
S-133	Sea Bright	Beach Club	7:55 AM	1 hr. flood	Present 3 of 5 — 1.0 c.c.	0.6
S-34	Sea Bright	Peninsula House	2:25 PM	3 hr. ebb	Present all of 5 —10.0 c.c.	0.0
S-134	Sea Bright	Peninsula House	8:10 AM	2 hr. flood	Present 4 of 5 — 0.1 c.c.	8.0
S-35	Long Branch	Seaside Baths	2:40 PM	3 hr. ebb	Present all of 5 — 1.0 c.c.	1.0
S-135	Long Branch	Seaside Baths	8:25 AM	2 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-36	Long Branch	At Outfall	2:45 PM	3 hr. ebb	Present 4 of 5 — 1.0 c.c.	0.8
S-136	Long Branch	At Outfall	8:30 AM	2 hr. flood	Present 3 of 5 — 0.1 c.c.	6.0
S-37	Long Branch	Dixons Baths	2:50 PM	3 hr. ebb	Present 2 of 5 — 1.0 c.c.	0.4
S-137	Long Branch	Dixons Baths	8:35 AM	2 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-38	Long Branch	City Beach	2:55 PM	3 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-138	Long Branch	City Beach	8:40 AM	2 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-39	Long Branch	Atlantic Baths	3:00 PM	4 hr. ebb	Present 4 of 5 — 0.1 c.c.	8.0
S-139	Long Branch	Atlantic Baths	8:45 AM	2 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-40	Long Branch	Neptune Baths	3:05 PM	4 hr. ebb	Present 2 of 5 — 0.1 c.c.	4.0
S-140	Long Branch	Neptune Baths	8:55 AM	2 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-41	Long Branch	Colonial Baths	3:10 PM	4 hr. ebb	Present 2 of 5 — 0.1 c.c.	4.0
S-141	Long Branch	Colonial Baths	9:00 AM	3 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-42	Elberon	Garfield Terrace	3:15 PM	4 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-142	Elberon	Garfield Terrace	9:15 AM	3 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-43	Deal	North of Outfall	3:20 PM	4 hr. ebb	Present 2 of 5 — 0.1 c.c.	4.0
S-143	Deal	300 Feet North of Outfall	9:20 AM	3 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-44	Deal	South of Outfall	3:20 PM	4 hr. ebb	Present 3 of 5 — 0.1 c.c.	6.0
S-144	Deal	300 Feet South of Outfall	9:20 AM	3 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-45	Deal	Phillip Avenue	3:25 PM	4 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-145	Deal	Phillip Avenue	9:35 AM	3 hr. flood	Present 2 of 5 — 1.0 c.c.	0.4

S-46	Deal	Casino	3:30 PM	4 hr. ebb	Present 3 of 5 — 1.0 c.c.	0.6
S-146	Deal	Casino	9:40 AM	3 hr. flood	Present 1 of 5 — 1.0 c.c.	0.2
S-47	Allenhurst	Casino	3:20 PM	4 hr. ebb	Present 4 of 5 —10.0 c.c.	0.0
S-147	Allenhurst	Casino	9:50 AM	3 hr. flood	Present 3 of 5 — 1.0 c.c.	0.6
S-48	Allenhurst	At Outfall	3:26 PM	4 hr. ebb	Present 1 of 5 — 1.0 c.c.	0.2
S-148	Allenhurst	At Outfall	10:00 AM	4 hr. flood	Present 1 of 5 — 1.0 c.c.	0.2
S-49	Lock Harbor	At Outfall	3:20 PM	4 hr. ebb	Present all of 5 —10.0 c.c.	0.0
S-149	Lock Harbor	At Outfall	10:00 AM	4 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-50	Asbury Park	Eighth Avenue	3:15 PM	4 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-150	Asbury Park	Eighth Avenue	10:16 AM	4 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-51	Asbury Park	Third Avenue	3:10 PM	4 hr. ebb	Present 4 of 5 — 1.0 c.c.	0.8
S-151	Asbury Park	Third Avenue	10:10 AM	4 hr. flood	Present all of 5 — 1.0 c.c.	1.0
S-52	Asbury Park	Colored Beach	3:00 PM	4 hr. ebb	Present all of 5 — 0.1 c.c.	10.0
S-152	Asbury Park	Colored Beach	10:01 AM	4 hr. flood	Present 3 of 5 — 0.1 c.c.	6.0
S-53	Ocean Grove	North End of Pavilion	3:00 PM	4 hr. ebb	Present all of 5 — 1.0 c.c.	1.0
S-153	Ocean Grove	North End of Pavilion	9:57 AM	3 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-54	Ocean Grove	South End of Pavilion	3:05 PM	4 hr. ebb	Present 1 of 5 — 1.0 c.c.	0.2
S-154	Ocean Grove	South End of Pavilion	9:53 AM	3 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-55	Bradley Beach	North of Newark Avenue	2:55 PM	3 hr. ebb	Present all of 5 — 0.1 c.c.	10.0
S-155	Bradley Beach	200 Feet North of Newark Avenue	9:46 AM	3 hr. flood	Present 3 of 5 — 0.1 c.c.	6.0
S-56	Bradley Beach	South of Newark Avenue	2:50 PM	3 hr. ebb	Present all of 5 — 0.1 c.c.	10.0
S-156	Bradley Beach	200 Feet South of Newark Avenue	9:44 AM	3 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-57	Bradley Beach	Lakeine Avenue	2:45 PM	3 hr. ebb	Present all of 5 — 1.0 c.c.	1.0
S-157	Bradley Beach	Lakeine Avenue	9:40 AM	3 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-58	Bradley Beach	Fifth Avenue	2:40 PM	3 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-158	Bradley Beach	Fifth Avenue	9:36 AM	3 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-59	Bradley Beach	Second Avenue	2:35 PM	3 hr. ebb	Present 3 of 5 — 1.0 c.c.	0.6
S-159	Bradley Beach	Second Avenue	9:32 AM	3 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-60	Avon	Norwood Avenue	2:22 PM	3 hr. ebb	Present 2 of 5 — 1.0 c.c.	0.4
S-160	Avon	Norwood Avenue	9:27 AM	3 hr. flood	Present all of 5 — 1.0 c.c.	1.0
S-61	Avon	At Outfall	2:22 PM	3 hr. ebb	Present all of 5 —10.0 c.c.	0.0
S-161	Avon	At Outfall	9:23 AM	3 hr. flood	Present all of 5 — 0.1 c.c.	10.0
S-62	Belmar	Second Avenue	2:15 PM	3 hr. ebb	No Sample Taken	...
S-162	Belmar	Second Avenue	9:14 AM	3 hr. flood	Present all of 5 — 1.0 c.c.	1.0

BACTERIOLOGICAL DATA

S-1 to S-92 Aug. 29, 1938
S-101 to S-102 Aug. 30, 1938

SURF SAMPLES COLLECTED AUGUST 29 AND 30, 1938 FROM SOUTH AMBOY TO SEASIDE PARK, N. J.—Continued

Sample No.	MUNICIPALITY	LOCATION	TIME	TIDE	COLI-AEROGENES GROUP	INDEX COLI PER C.C.
S-63	Belmar	Fifth Avenue	2:13 PM	3 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-163	Belmar	Fifth Avenue	9:07 AM	3 hr. flood	No bottle	...
S-64	Belmar	300 Feet North of Outfall	2:10 PM	3 hr. ebb	Present 3 of 5 — 0.1 c.c.	0.6
S-164	Belmar	300 Feet North of Outfall	9:02 AM	3 hr. flood	No bottle	...
S-65	Belmar	300 Feet South of Outfall	2:08 PM	3 hr. ebb	Present all of 5 — 1.0 c.c.	1.0
S-165	Belmar	300 Feet South of Outfall	8:58 AM	2 hr. flood	Present 3 of 5 — 0.1 c.c.	6.0
S-66	Belmar	16th Avenue	2:05 PM	3 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-166	Belmar	16th Avenue	8:50 AM	2 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-67	Spring Lake	Como Outfall	2:00 PM	3 hr. ebb	Present 3 of 5 — 1.0 c.c.	0.6
S-167	Spring Lake	Como Outfall	8:42 AM	2 hr. flood	Present 4 of 5 — 0.1 c.c.	8.0
S-68	Spring Lake	Ludlow Avenue	1:58 PM	2 hr. ebb	Present 3 of 5 — 1.0 c.c.	0.6
S-168	Spring Lake	Ludlow Avenue	8:38 AM	2 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-69	Spring Lake	Newark Avenue	1:50 PM	2 hr. ebb	Present 1 of 5 — 1.0 c.c.	0.2
S-169	Spring Lake	Newark Avenue	8:35 AM	2 hr. flood	Present 4 of 5 — 0.1 c.c.	8.0
S-70	Spring Lake	Morris Avenue	1:45 PM	2 hr. ebb	Present 2 of 5 — 1.0 c.c.	0.4
S-170	Spring Lake	Morris Avenue	8:30 AM	2 hr. flood	Present 4 of 5 — 0.1 c.c.	8.0
S-71	Spring Lake	South End of Pavilion	1:40 PM	2 hr. ebb	Present 3 of 5 —10.0 c.c.	0.0
S-171	Spring Lake	South End of Pavilion	8:25 AM	2 hr. flood	Present all of 5 — 1.0 c.c.	1.0
S-72	Spring Lake	Penn Avenue	1:38 PM	2 hr. ebb	Present 3 of 5 — 1.0 c.c.	0.6
S-172	Spring Lake	Penn Avenue	8:22 AM	2 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-73	Sea Girt	Beacon Avenue	1:18 PM	2 hr. ebb	Present 1 of 5 — 1.0 c.c.	0.2
S-173	Sea Girt	Beacon Avenue	8:13 AM	2 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-74	Sea Girt	Stockton Avenue	1:15 PM	2 hr. ebb	Present 2 of 5 —10.0 c.c.	0.0
S-174	Sea Girt	Stockton Avenue	8:07 AM	2 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-75	Manasquan	At Outfall	1:08 PM	2 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-175	Manasquan	At Outfall	7:57 AM	1 hr. flood	Present 2 of 5 — 0.1 c.c.	4.0
S-76	Manasquan	Main Street	1:04 PM	2 hr. ebb	Present 1 of 5 — 1.0 c.c.	0.2
S-176	Manasquan	Main Street	7:53 AM	1 hr. flood	Present 1 of 5 — 0.1 c.c.	2.0
S-77	Manasquan	North of Inlet	1:02 PM	2 hr. ebb	Present all of 5 —10.0 c.c.	0.0
S-177	Manasquan	100 Yards North of Inlet	7:50 AM	1 hr. flood	Present 4 of 5 — 1.0 c.c.	0.8
S-78	Point Pleasant	Water Street	12:39 PM	1 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-178	Point Pleasant	Water Street	7:41 AM	1 hr. flood	Present 4 of 5 — 1.0 c.c.	0.8
S-79	Point Pleasant	Central Avenue	12:48 PM	1 hr. ebb	Present 1 of 5 — 0.1 c.c.	2.0
S-179	Point Pleasant	Central Avenue	7:38 AM	1 hr. flood	Present all of 5 —10.0 c.c.	0.0
S-80	Point Pleasant	Atlantic Avenue	12:08 PM	1 hr. ebb	Present 3 of 5 — 0.1 c.c.	6.0
S-180	Point Pleasant	Atlantic Avenue	7:31 AM	1 hr. flood	Present 4 of 5 — 1.0 c.c.	0.8
S-81	Bay Head	Beacon Hotel	12:00 N	1 hr. ebb	Present 1 of 5 — 1.0 c.c.	0.2
S-181	Bay Head	Beacon Hotel	7:25 AM	1 hr. flood	Present 3 of 5 — 1.0 c.c.	0.6
S-82	Bay Head	Osborne Avenue	11:50 AM	high	Present 1 of 5 — 1.0 c.c.	0.2
S-182	Bay Head	Osborne Avenue	7:22 AM	1 hr. flood	Present 4 of 5 — 1.0 c.c.	0.8
S-83	Bay Head	200 Feet South of Bridge Street	11:35 AM	high	Present 4 of 5 —10.0 c.c.	0.0
S-183	Bay Head	200 Feet South of Bridge Street	7:20 AM	1 hr. flood	Present 4 of 5 — 1.0 c.c.	0.8
S-84	Mantoloking	Williams Place	11:45 AM	high	Present all of 5 —10.0 c.c.	0.0
S-184	Mantoloking	Williams Place	7:15 AM	1 hr. flood	Present all of 5 — 1.0 c.c.	1.0
S-85	Mantoloking	Lyman Place	11:39 AM	high	Present 2 of 5 —10.0 c.c.	0.0
S-185	Mantoloking	Lyman Place	7:12 AM	1 hr. flood	Present 4 of 5 — 1.0 c.c.	0.8
S-86	Lavallette	President Avenue	11:32 AM	high	Present 2 of 5 — 1.0 c.c.	0.4
S-186	Lavallette	President Avenue	7:05 AM	1 hr. flood	Present 4 of 5 — 1.0 c.c.	0.8
S-87	Lavallette	At Outfall	11:30 AM	high	Present 2 of 5 —10.0 c.c.	0.0
S-187	Lavallette	At Outfall	7:03 AM	1 hr. flood	Present 3 of 5 — 1.0 c.c.	0.6
S-88	Seaside Heights	Kearny Avenue	11:13 AM	high	Present 4 of 5 — 1.0 c.c.	0.8
S-188	Seaside Heights	Kearny Avenue	7:00 AM	low	Present 4 of 5 — 1.0 c.c.	0.8
S-89	Seaside Heights	At Outfall	11:12 AM	high	Present all of 5 — 1.0 c.c.	1.0
S-189	Seaside Heights	At Outfall	6:58 AM	low	Present all of 5 — 1.0 c.c.	1.0
S-90	Seaside Heights	At Old Pavilion	11:02 AM	high	Present 4 of 5 — 1.0 c.c.	0.8
S-190	Seaside Heights	At Old Pavilion	6:55 AM	low	Present 3 of 5 — 1.0 c.c.	0.6
S-91	Seaside Heights	Decatur Avenue	11:00 AM	high	Present 3 of 5 —10.0 c.c.	0.0
S-191	Seaside Heights	Decatur Avenue	6:47 AM	low	Present 3 of 5 — 0.1 c.c.	6.0
S-92	Seaside Park	Below Cottage Group	10:58 AM	high	Present 3 of 5 — 1.0 c.c.	0.6
S-192	Seaside Park	Below Cottage Group	6:45 AM	low	Present 4 of 5 — 1.0 c.c.	0.8

No. 10—Pollution of the Waters of Inside Thorofare and the Investigation of the Atlantic City Sewerage Company's Experimental Down-flow Sewage Rapid Sand Filter.

Following the conclusion of certain investigations made by representatives of the Department of the operation of the Atlantic City Sewerage Company's City Island sewage treatment plant and the Brigantine City municipal sewage treatment plant, and the sanitary quality of the waters contiguous thereto, the Department at its meeting held on January 12, 1937, on motion, voted that a copy of the report of the findings be forwarded to the authorities of the City of Atlantic City and Brigantine City, and to the Atlantic City Sewerage Company, with the request that the Atlantic City officials take cognizance of the pollution of its bathing beaches and that both of the municipalities and the company study the findings contained in the report and advise the Department as to the results of their deliberation.

After an exchange of several communications between the Department and the Atlantic City Sewerage Company and Atlantic City, the Department at its meeting held on September 14, 1937, considered a proposal submitted by the Atlantic City Sewerage Company, requesting it:

(a) To acquiesce in the installation of the experimental down-flow filters; and,
(b) To co-operate with the company in the investigation of the said filter.

After due consideration the Department, on motion, voted that:

1. The Department approves of the installation of the experimental sewage filter proposed by the said company.

2. The representatives of the Department of Health will co-operate in the investigation of the aforesaid experimental sewage filter, but that this co-operation will be restricted to the number of personnel and funds available.

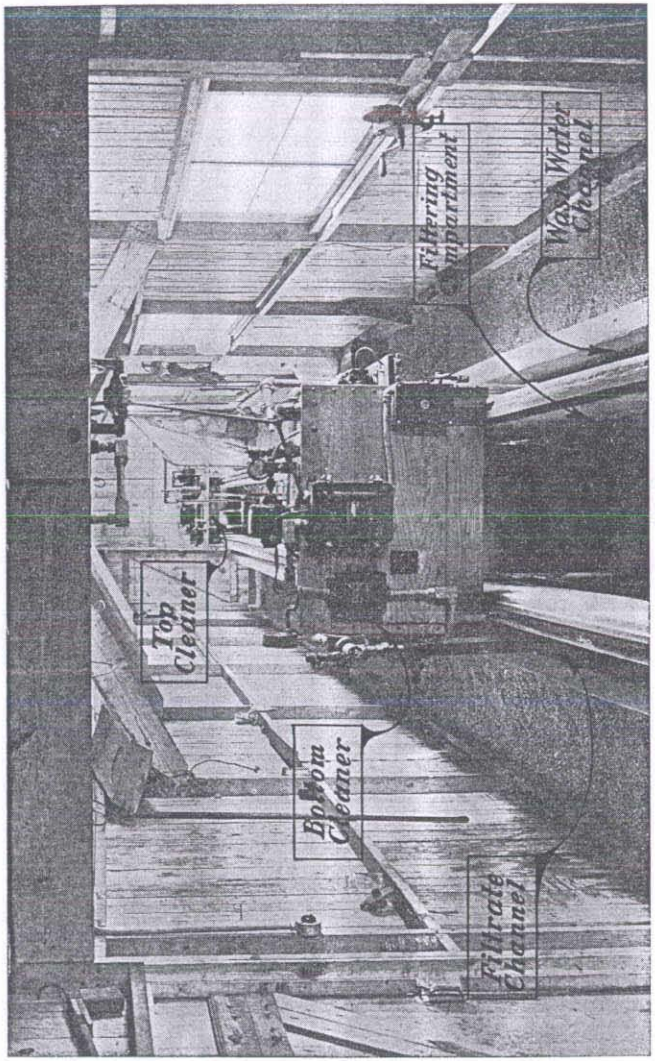
3. That the Atlantic City Sewerage Company be required to subject its sewage plant effluent to effective chlorination, said system of chlorination to be placed in operation on or before May 15, 1938; *and, further,* that said chlorination shall be continued during each day of the year.

With respect to the last mentioned item the Department caused the service of a notice upon the said company on October 19, 1937, requiring that it must and shall, prior to May 15, 1938, expand and/or intensify its method of treatment, to include efficient sedimentation and effective chlorination. On April 12, 1938, the Department granted the Atlantic City Sewerage Company a year's extension of time in order that it may further its experiments.

During the course of the ensuing year representatives of the Department collaborated with the Atlantic City Sewerage Company in the investigation of the experimental sewage down-flow rapid sand filter. More specifically these investigations were made on May 15 and 16, April 26 and 27, July 16 and 17, and October 16, 17 and 18, 1938.

Space will not permit a detailed description of this filter. It may be described, briefly, however, as a rectangular channel 52 feet in length, 2 feet in width and 3 feet 8 inches in depth. Spanning this channel, several inches above the floor, is a woven iron screen (¼ inch mesh) upon which is mounted a fine copper slotted screen with openings of approximately 0.012". This screen in turn is superimposed by a 6" layer of filtering sand (effective size equal to 0.44 mm.; uniformity coefficient equal to 2.0). The effective filtering area is 69± square feet. (See attached photograph.)

In general, the operation of the filter is as follows: The sewage is distributed through port-holes over the entire area of the filtering sand, and then passes downward through the sand, the fine screen and the supporting grit screen. The filtered effluent enters a channel running the full length of, and adjacent to, the filtering compartment, which discharges into the receiving waters. The filtering media is cleaned by means of two devices which travel the length of the filter on rails provided for that purpose. One of the devices is designated as the "top-cleaner" and its function is to free the filtering media of the solids retained on the surface. This cleaner operates automatically at regular time intervals, and is actuated by means of a switch which may be set to operate at any interval desired. The other cleaner, designated as the "bottom-cleaner," frees the screen and filtering media of the solids impregnated throughout the depth of the media and retained on the screen. The operation of this mechanism is actuated by a switch which is controlled automatically by a predetermined head-loss, caused by the clogging of the media. In other words, when the differential in head, that is, the difference between the water levels in the filtering compartment and the filtering channel, reaches the predetermined head, the switch is thrown into contact and thereby actuates the travel of the mechanisms. The wash



Atlantic City Sewerage Co.'s Experimental Down-Flow Sewage Filter

water, including the freed solids, is discharged by each of the mechanisms into a dirty wash channel (See attached photograph.)

The paramount purpose of these investigations was to determine if this filter, in addition to removing the larger solids, would substantially remove the organisms of the coli-aerogenes group. It was hoped that with the high degree of suspended solids removed, the reduction of the organisms of the coli-aerogenes group would prove as effective as by chlorination.

One factor in the consideration of filtration was the very high cost of chlorinating the entire flow of sewage.

After a very careful analyses of the findings of these investigations, the Atlantic City Sewerage Company concluded that the filter would not produce the desired objectives. In consequence thereof the Department on April 11, 1939, ordered the said company to install and place into operation, on or before June 1, 1939, chlorine apparatus for the disinfection of the sewage treated at the City Island plant and to submit, on or before February 1, 1940, satisfactory plans and other engineering data for the installation of permanent means and/or devices for efficient sedimentation and effective chlorination, and that the said works be constructed and placed into operation on or before June 1, 1940.

With further respect to the investigation of the experimental filter it was generally concluded:

1. That the experimental down-flow sewage filter handled successfully a sewage flow up to 200,000 gallons per day, which, upon the basis of 100 gallons per capita, is equivalent to a sewage flow contributed by a population of 2,000 persons.

2. That during the course of these investigations, the sewage was filtered at an average rate ranging from 1.5 gallons per minute per square foot to 2.04 gallons per minute per square foot.

3. That the operation of the filter was not interrupted at any time during the course of the investigation as a result of mechanical failures.

4. That the surface and bottom cleaners operated effectively during the course of the investigations, since at no time has there been any apparent clogging of the media or the screen.

5. That it is believed the time of operation was not of sufficient duration to guarantee uninterrupted service over a prolonged period.

7. That the filter caused a consistent reduction in the suspended solids, on the basis of the average of the daily results of analysis, ranging from 20 parts per million to 61 parts per million.

9. That the filter caused a consistent reduction to a lesser or greater degree in the oxygen consumed and the biochemical oxygen demand.

11. That the reduction of the suspended solids does not reduce correspondingly the bacterial content.

13. That the filter caused consistently a reduction of the chlorine demand of the sewage ranging from 2.5 parts per million to 7.5 parts per million.

The time and labor expended by the personnel of the Bureaus to accomplish this task, resolved into terms of man-days, are as follows:

Bureau of Engineering—technical staff	460 man-days
clerical staff	16 man-days
Bureau of Chemistry	110 man-days

No. 11—Bacteriological Standards For Waters Used For Potable and Domestic Purposes, and, to be Used in Prosecution Under Chapter 253, Laws of 1909 (Now Section 58:11 of the Revised Statutes).

Acting under the advice of the Attorney-General, the State Department of Health, at a meeting held on January 12, 1937, adopted a preamble and resolution which, in part, stated that in all prosecutions the "bacteriological quality for drinking and culinary water supplied by common carriers in interstate commerce adopted by the Public Health Service of the United States of America as of June 20, 1925, be and they are hereby adopted as bacteriological standards for waters used for potable and domestic purposes in the State of New Jersey." In the preamble and resolution reference was made to the B. coli group, as defined by the American Public Health Association in "Standard Methods of Water Analysis."

The text in the eighth edition of "Standard Methods of Water Analysis," produced the following resolution, adopted April 11, 1939:

"Whereas, The Department of Health of the State of New Jersey did, at a meeting held on the twelfth day of January, A. D. one thousand nine hundred and thirty-seven, adopt the following resolution:

'Be It Resolved, By the Department of Health of the State of New Jersey, at a meeting held on the twelfth day of January, A. D. one thousand nine hundred and thirty-seven, that in all prosecutions under Chapter 253, Laws of 1909, the drinking water standards in respect to the bacteriological quality for drinking and culinary water supplied by common carriers in interstate commerce adopted by the Public Health Service of the United States of America as of June 20, 1925, be and they are hereby adopted as bacteriological standards for waters used for potable and domestic purposes in the State of New Jersey. . . .';

and,

"Whereas, The Department of Health of the State of New Jersey has found and determined that the terms B. Coli and/or B. Coli Group are contained in the aforementioned drinking water standards; and,

"Whereas, The Department of Health of the State of New Jersey has determined that the term B. Coli and/or B. Coli Group, as it appears in all editions of Standard Methods of Water Analysis prior to the Sixth Edition, is equivalent to the Coli-Aerogenes Group as defined in the Eighth Edition of Standard Methods of Water Analysis; now, therefore

"Be It Resolved, By the Department of Health of the State of New Jersey, at a meeting held on the eleventh day of April, A. D. one thousand nine hundred and thirty-nine, that the terms B. Coli and/or B. Coli Group where they appear in the preamble and resolution adopted at a meeting of the Department of Health on January 12, 1937, be and hereafter are considered equivalent to the Coli-Aerogenes Group, as defined in the Eighth Edition of Standard Methods of Water Analysis."

(Reference: Annual report for 1938.)

No. 12—Certification of Water For Use on Interstate Carriers.

During the year of 1938, the Department received from the Surgeon-General of the United States Public Health Service, a request to intensify and expand its activities in connection with the certification of water used on interstate carriers. The request issued under date of April 18, 1938, and was contained in "State Officers' Circular Letter No. 28."

The procedure, as expanded in the calendar year of 1938, consists of: The inspection of water supply systems and to include the method of delivering the water to the conveyance and the sanitary precautions taken by the carrier company (but not an inspection of the conveyance itself); notification to the Surgeon-General, in case a supply becomes unsafe due to a catastrophe, such as a flood, or when the local health officer may order the water to be boiled, or when an order is issued by the State Department of Health for the sanitary improvement of the supply.

The certifications are of three classes: favorable, provisional and prohibitive. And from the aforesaid circular letter:

"Supplies having cross connections with other supplies of unsafe character or of unknown sanitary quality shall in no instance be recommended for favorable certification, unless such cross connections are protected in a manner approved by the State Department of Health having jurisdiction and are inspected regularly by an agent of such Department. By-passes between raw and treated supplies shall be considered as cross-connections."

The Bureau is endeavoring to comply, since January 1, 1939, with the expanded procedure, except in the method of delivering the water to the conveyance and the sanitary precautions taken by the carrier company in the municipalities of Jersey City and Hoboken. The vast railroad yards, the proximity of these yards to New York City and the location therein of the District Engineer's Office, together with the experience of its personnel, have resulted in the District Engineer of the United States Public Health Service assuming such obligations in Hoboken and Jersey City, as an agent of this Department.

To meet the additional requirements established by the expanded procedure, it is estimated that one hundred and fifty (150) man-working days will be required of the technical staff; the estimate does not include clerical work and analytical work—the latter performed in the Bureau of Chemistry.

Certification of water for use on interstate carriers is done under the calendar year. From January 1 to December 31, 1938, 31 public and five private watering supply sources, serving 128 carrier watering points, located in 48 municipalities, were certified. Certificates were issued to 58 carrier companies, grouped as follows: 11 railroad companies, 43 steamship companies, and 4 airlines. The certificates covered 41 watering points for railroads, 81 for steamship lines, and six for airlines.

No. 13—Physical Connections.

April 1, 1939, marked the 10th anniversary of the effective date of Chapter 13 of the Sanitary Code. This chapter of the code is designed to regulate physical connections between public potable water supplies and any other water supplies. The code defines a physical connection as any "cross-connection * * * which permits or may permit any flow of water into an approved public potable water supply from any other water supply unapproved by the Department * * *." Physical connections not existing on or before April 1, 1929, are prohibited. In cases where the connection existed prior to April 1, 1929, it may be continued if certain protective devices are installed and if a permit for its maintenance so protected is obtained from the Department. Application for a permit must be endorsed by the local Board of Health and the interested public water supply purveyor. Permits are renewed annually upon the recommendation of the local health authority and water department. Periodic tests of the protective devices are required.

No accurate appraisal of the value of Chapter 13 of the Sanitary Code during its first 10 years can be made. It falls within the category of little heralded measures taken to protect the public health. The only time that "physical connections" to a public water supply would assume any prominence or even existence in the mind of the layman would be upon the outbreak of an epidemic traced to the pollution of a water supply through such a connection. It is sufficient to say that the enforcement of this regulation has resulted in the elimination of hundreds of menaces to the quality of the State's public potable water supplies.

Physical connections are becoming of more concern to waterworks men. This is an important development. The sanitary code is an instrument of public health control and its enforcement lies with the local and State health departments. Experience has shown, however, that the waterworks man usually takes an active part in the elimination of physical connections as soon as he is made aware of their importance. The water purveyor can of course control any connections to his water supply system. The waterworks men have been very helpful in their co-operation with the Bureau in reporting physical connections.

The interest of waterworks men in this matter is evidenced by the policy of the American Water Works Association in choosing its annual convention headquarters. That association has made a detailed sanitary survey, including an investigation of water supply cross-connections, a prerequisite of any hotel chosen as headquarters. It requires the elimination of any water supply hazards. The 1939 convention was held in Atlantic City. The Department was requested to make an investigation of the water supply and other sanitary features at eight hotels under consideration. Physical connections to the water supplies were of primary importance in this investigation. Some connections were found and eliminated promptly. Based upon the findings at the eight hotels investigated it was concluded that the local board of health would be justified in making a survey of other hotels in the city. In response to the Department's suggestion the city health officer agreed that such an investigation should be made. The Department's records indicate that the city health department is proceeding accordingly.

The Bureau desires to emphasize that despite the progress already evidenced, there is an ever-present responsibility on local health officials and water purveyors if the menace of physical connections to public potable water supplies is to be minimized. Representative investigations lead to the conclusion that there remains much to be done in the elimination of connections of long standing; that new connections in violation of the sanitary code may be anticipated. It is significant in the Bureau's experience that the owner of an industrial plant or other establishment maintaining a physical connection to a public water supply, no matter how remote the inherent danger, seldom hesitates to the fullest extent when he is made aware of the risk involved.

The Bureau desires to co-operate with all parties interested in the elimination of physical connections to public potable water supplies. It is dependent upon local authority for effective control. The co-operation evidenced during the first 10 years of operation of the regulation is duly appreciated.

The tabulation lists physical connections under permits as of June 30, 1939.

PHYSICAL CONNECTIONS UNDER PERMITS AS OF JUNE 30, 1939

NAME OF MUNICIPALITY	NAME OF COMPANY	PUBLIC POTABLE WATER SUPPLY	UNAPPROVED WATER SUPPLY	ORIGINAL PERMIT No.	ORIGINAL PERMIT DATE ISSUED
Arlington	E. I. du Pont de Nemours & Co., Inc. (formerly Du Pont Viscoloid Co., Inc.)	Kearny Water Department (North Jersey District Water Supply Commission)	Drilled wells	133	9- 3-29
Avenel	Security Steel Equipment Corp. (formerly Steel Equipment Corporation)	Middlesex Water Company	Artesian well	120	5- 7-29
Bayonne	American Radiator & Standard Sanitary Corp. (formerly American Radiator Company)	Bayonne Water Department (North Jersey District Water Supply Commission)	Rain water from reservoir	129	5- 7-29
Bayonne	The Babcock & Wilcox Company	Bayonne Water Department (North Jersey District Water Supply Commission)	Still water system	110	4- 2-29
Bayonne	Madden Form Brassiere Co., Inc.—Bald Holdlac Rubber Company (formerly Schwarzenbach-Huber Company)	Bayonne Water Department (North Jersey District Water Supply Commission)	Cistern	95	4- 2-29
Belleville	Eastwood-Nealley Corporation (formerly Eastwood Corporation) (originally Eastwood Wire Corp.)	Belleville Water Department (Newark Water Supply)	Passaic River	102	4- 2-29
Bloomfield	The Clark Thread Company	Bloomfield Water Department (Newark Water Supply)	Third River	55	4- 2-29
Bloomfield	General Electric Company	Bloomfield Water Department (Newark Water Supply)	Open reservoir—factory fire pump cistern	38	2- 5-29
Bloomfield	Thomas Oakes & Company, Inc.	Bloomfield Water Department (Newark Water Supply)	Third River	49	4- 2-29
Bloomfield	Samuel Townsend Lawn Mower Co. (formerly Chase Brass & Copper Co., Inc.) (originally Consolidated Safety Pin Company)	Bloomfield Water Department (Newark Water Supply)	Tony's Brook	23	1- 8-29
Bloomfield	Westinghouse Lamp Company	Bloomfield Water Department (Newark Water Supply)	Artesian well	46	2- 5-29
Bogota	Continental Paper Company	Hackensack Water Company	Hackensack River	107	4- 2-29
Bogota	Federal Paper Board Co., Inc.	Hackensack Water Company	Hackensack River	104	4- 2-29
Bridgeton	Martin Dyeing & Finishing Co.	Bridgeton Water Department	East Lake	67	4- 2-29
Burlington	U. S. Pipe & Foundry Company (formerly U. S. Cast Iron Pipe & Foundry Company)	Burlington Water Department	Delaware River	85	4- 2-29
Butler	American Hard Rubber Company	Butler Water Department	Pequannock River	90	4- 2-29
Butler	Pequanoc Rubber Company	Butler Water Department	Pequannock River	128	5- 7-29
Camden	Armstrong Cork Company	Camden Water Department	Delaware River and artesian well	126	5- 7-29
Camden	Campbell Soup Company	Camden Water Department	Delaware River	66	4- 2-29
Carlstadt	Franco-American Chemical Works	Hackensack Water Company	Artesian well	119	5- 7-29
Carlton Hill (East Rutherford)	Standard Bleachery & Printing Company	Hackensack Water Company	Passaic River and artesian well	110	4- 2-29
Carteret	Foster Wheeler Corporation	Middlesex Water Company (Perth Amboy)	Private wells	39	2- 5-29
Clifton	Clifton Paper Board Co., Inc. (formerly Clifton Paper Mills)	Passaic Valley Water Commission	Passaic River	74	4- 2-29
Clifton	Tidewater Realty Company (formerly Dundee Textile Co.)	Passaic Valley Water Commission	Dundee Canal	130	5- 7-29

PHYSICAL CONNECTIONS UNDER PERMITS AS OF JUNE 30, 1939—Continued

NAME OF MUNICIPALITY	NAME OF COMPANY	PUBLIC POTABLE WATER SUPPLY	UNAPPROVED WATER SUPPLY	ORIGINAL PERMIT No.	ORIGINAL PERMIT DATE ISSUED
Clifton	Eureka Printing Company	Passaic Valley Water Commission	Wensel Brook	90	4- 2-29
Clifton	Givaudan-Delawanna, Inc.	Clifton Water Department	Well	94	4- 2-29
Clifton	Haberland Manufacturing Co.	Jersey City Water Department	Reservoir fed by springs	88	4- 2-29
Clifton	Henry Doherty Silk Company (formerly Stanlaw Corporation) (originally The Textile Buildings Company)	Passaic Valley Water Commission	Private supply and cistern	103	4- 2-29
East Newark	East Newark Realty Corporation (formerly The Clark Thread Co.)	New Jersey Suburban Water Co. (Passaic Valley Water Commission)	Reservoir filled from city main	78	4- 2-29
East Newark	Stewart Hartshorn Company	East Newark Water Department (New Jersey Suburban Water Company—Passaic Valley Water Commission)	Fire protection and hot well	42	2- 5-29
East Orange (Ampere)	Crocker Wheeler Electric Manufacturing Company	East Orange Water Department	Well	131	6- 4-29
East Orange (Bloomfield)	General Electric Company	East Orange Water Department	Open reservoir, factory fire pump cistern (process water)	36	2- 5-29
East Orange	The A. P. Smith Mfg. Company	East Orange Water Department	Deep well	86	4- 2-29
Edgewater	The Barrett Company	Hackensack Water Company	Hudson River	104	4- 2-29
Edgewater	Aluminum Company of America (formerly The U. S. Aluminum Company)	Hackensack Water Company	Hudson River	111	4- 2-29
Edgewater	Spencer Kellogg & Sons, Inc.	Hackensack Water Company	Hudson River	134	10- 1-29
Fairview	Bellman Brook Bleachery Co.	Hackensack Water Company	Overpeck Creek and Wolf Creek	105	4- 2-29
Garfield	Samuel Hird & Sons, Inc.	Garfield Water Department	Passaic River	40	2- 5-29
Garwood	Sonoco Product Company (formerly The Aeolian Co.) (originally Votey Organ Co.)	Plainfield-Union Water Company	Driven well	83	4- 2-29
Garwood	Knickerbocker Ice Company	Plainfield-Union Water Company	Driven well	125	5- 7-29
Gloucester	Armstrong Cork Company	Gloucester City Water Department	Delaware River	138	4- 1-30
Gloucester	The Hinde & Dauch Paper Co.	Gloucester City Water Department	Delaware River	69	4- 2-29
Gloucester	H. & D.—Lang Manufacturing Co. (formerly The Lang Co.)	Gloucester City Water Department	Delaware River	1	1- 8-29
Hackensack	Harper Terminal, Inc. (formerly Harper Bros., Inc.) (originally Wm. Campbell Wallpaper Co.)	Hackensack Water Company	Reservoir filled from brook	106	4- 2-29
Hammonton	Cassco Corporation	Hammonton Water Department	Artesian well	168	4-13-37
Harrison	Hyatt Roller Bearing Company	Harrison Water Department (New Jersey Suburban Water Company—Passaic Valley Water Commission)	Deep wells	99	4- 2-29
Harrison	R.C.A. Radiotron Company, Inc. (formerly General Electric Co., Incandescent Lamp Department)	Harrison Water Department (New Jersey Suburban Water Company—Passaic Valley Water Commission)	Plant fire reservoir	18	1- 8-29
Harrison	Stewart Hartshorn Company	Harrison Water Department (New Jersey Suburban Water Company—Passaic Valley Water Commission)	Fire protection and hot well	43	2- 5-29
Hightstown	Hightstown Rug Company	Hightstown Water Department	Rocky Creek	148	12- 2-30

Hoboken	Bethlehem Steel Co.—Hoboken Yard (formerly Bethlehem Shipbuilding Corp., Ltd.) (formerly United Shipyards, Inc.) (originally United Drydocks, Inc.—Fletcher Plant)	Hoboken Water Department (Jersey City Water Department)	Hudson River	93	4- 2-29
Hohokus	Hohokus Bleachery	Hohokus Water Department	Hohokus Creek	5	1- 8-29
Jersey City	Colgate-Palmolive-Peet Co.	Jersey City Water Department	Hudson River water	14	1- 8-29
Jersey City	Lackawanna Laundry (formerly Consolidated Laundries Corp.)	Jersey City Water Department	Cistern	30	1- 8-29
Jersey City	P. Lorillard Company	Jersey City Water Department	Rain water and make-up water from city main	35	2- 5-29
Jersey City	The Riegel Sack Company	Jersey City Water Department	Cistern	17	1- 8-29
Jersey City	United States Rubber Company (formerly Eureka Fire Hose Mfg. Company)	Jersey City Water Department	Cistern	64	4- 2-29
Jersey City	Wilson & Bennett Mfg. Company (formerly The Clark Thread Co.)	Jersey City Water Department	Reservoir	31	1- 8-29
Jersey City	Peter J. Schweitzer, Inc.	Jersey City Water Department	Cistern	32	1- 8-29
Jersey City	Public Service Electric & Gas Co. (West End Gas Works)	Jersey City Water Department	Hackensack River	159	6- 5-34
Kearny	Congoleum-Nairn, Inc.	Kearny Water Department (North Jersey District Water Supply Commission)	Plant system from Passaic River	56	4- 2-29
Kearny	The Linen Thread Co., Inc. (formerly Barbour Flax Spinning Company)	Kearny Water Department (North Jersey District Water Supply Commission)	Passaic River and three wells	20	1- 8-29
Kearny	Koppers Company (formerly Koppers Gas & Coke Co.) (originally Seaboard By-Product Coke Co.)	Kearny Water Department (North Jersey District Water Supply Commission)	Plant service water, Hackensack River	121	5- 7-29
Kearny	Swift and Company	Kearny Water Department (North Jersey District Water Supply Commission)	Well water	135	10- 1-29
Kearny	United Cork Companies	Kearny Water Department (North Jersey District Water Supply Commission)	Passaic River	107	9-15-36
Kearny	Western Electric Company (formerly Ford Motor Co.)	Kearny Water Department (North Jersey District Water Supply Commission)	Passaic River	101	4- 2-29
Keyport	Armstrong Cork Company (formerly Whitall Tatum Co.)	Keyport Water Department	Gravity tank filled with deep well water	147	9- 2-30
Linden	The Simmons Company	Elizabethtown Water Company, Consolidated	Private well	4	1- 8-29
Linden	Volupte, Inc. (formerly Superior Products Corp.)	Elizabethtown Water Company, Consolidated	Elevated gravity tank (city water)	136	12- 3-29
Little Falls	The Beattie Mfg. Company	New Jersey Water Service Company (Passaic Valley Water Commission)	Passaic River	76	4- 2-29
Little Falls	Little Falls Laundry	New Jersey Water Service Company (Passaic Valley Water Commission)	Raceway	26	1- 8-29
Long Branch	Monmouth Memorial Hospital Association	Monmouth Consolidated Water Company	Deep well	165	10- 8-35
Maurer	American Smelting & Refining Company	Perth Amboy Water Department	Staten Island Sound and plant reservoir	50	4- 2-29
Maurer	Barber Asphalt Corporation (formerly The Barber Co., Inc.)	Perth Amboy Water Department	Woodbridge Creek	169	10-19-37
Milltown	Michelin Realty Corporation (formerly Michelin Tire Co.)	Milltown Water Department	Lawrence Brook	47	4- 2-29
Millville	The Millville Mfg. Company	The Millville Water Company	Maurice River	118	5- 7-29
Millville	Armstrong Cork Company—Whitall Tatum Department (formerly Whitall Tatum Co.)	Millville Water Department	Maurice River	72	4- 2-29
Montclair	T. A. Adams	Montclair Water Department (North Jersey District Water Supply Commission)	Private artesian wells	146	9-11-30
				143	6- 3-30

PHYSICAL CONNECTIONS UNDER PERMITS AS OF JUNE 30, 1939—Continued

NAME OF MUNICIPALITY	NAME OF COMPANY	PUBLIC POTABLE WATER SUPPLY	UNAPPROVED WATER SUPPLY	ORIGINAL PERMIT No.	ORIGINAL PERMIT DATE ISSUED
Montclair	Board of National Missions of the Presbyterian Church in U. S. A. (formerly Jarvie Commonweal Fund) (originally Estate of James N. Jarvie)	Montclair Water Department (North Jersey District Water Supply Commission)	Artesian well	137	4- 1-30
Newark	Celluloid Corporation	Newark Water Department	Artesian well	100	9-11-34
Newark	Merchants Refrigerating Co.	Newark Water Department	Well and chemically treated city water	161	2-26-35
Newark	White Laboratories, Inc. (formerly Health Products Corporation)	Newark Water Department	Well	162	2-26-35
Newton	Associated Dyeing & Printing Company, Inc. (formerly Sussex Print Works)	Newton Water Department	Suction reservoir supplied by rain water	117	5- 7-29
Nutley	Hoffmann-La Roche, Inc.	Nutley Water Department	Private artesian well	171	5- 9-39
Orange	Orange Dairy Company, Inc.	Orange Water Department	Private well	155	3- 7-38
Orange	Thomas A. Edison, Inc.	Orange Water Department	Deep rock wells, T. A. Edison plant	132	7- 2-29
Passaic	The Acheson Harden Company	Passaic Valley Water Commission	Cistern, city water and well water	59	4- 2-29
Passaic	Andrew McLean Company	Passaic Valley Water Commission	Canal water	15	1- 8-29
Passaic	Campbell Morrell & Co., Inc.	Passaic Valley Water Commission	Passaic River	13	1- 8-29
Passaic	The Manhattan Rubber Mfg. Div. of Raybestos-Manhattan, Inc. (formerly The Manhattan Rubber Mfg. Company)	Passaic Valley Water Commission	Wells	77	4- 2-29
Passaic	Manhattan Print Works	Passaic Valley Water Commission	Dundee Canal	11	1- 8-29
Passaic	The Okonite Company (formerly The Dundee Water Power and Land Company)	Passaic Valley Water Commission	Dundee Canal	163	4- 9-35
Passaic	The Pantasote Leather Company	Passaic Valley Water Commission	Weasel Brook	81	4- 2-29
Passaic	Robbins Conveying Belt Company	Passaic Valley Water Commission	Concrete reservoir	10	1- 8-29
Passaic	U. S. Rubber Products, Inc. (formerly United States Rubber Co.) (originally N. Y. Belting & Packing Company)	Passaic Valley Water Commission	Dundee Canal	16	1- 8-29
Paterson	Associated Dyeing & Printing Company, Inc.	Passaic Valley Water Commission	Passaic River	151	6- 2-31
Paterson	The Linen Thread Company, Inc. (Barbour Flax Spinning Co.)	Passaic Valley Water Commission	Upper race, Passaic River	6	1- 8-29
Paterson	Doherty & Wadsworth Company	Passaic Valley Water Commission	Artesian well	67	4- 2-29
Paterson	Dolphin Jute Mills	Passaic Valley Water Commission	Raceway fed from Passaic River	51	4- 2-29
Paterson	Wright Aeronautical Corporation	Passaic Valley Water Commission	Open reservoir and well	98	4- 2-29
Paterson	Arbrew Realty Corporation	Passaic Valley Water Commission	City water to two underground cisterns	84	4- 2-29
Paterson	Eastwood Realty Company (formerly Estate of Benjamin Eastwood)	Passaic Valley Water Commission	Cistern—roof drains and well water	58	4- 2-29
Paterson	Hall Mills (Vaugn S. Hall)	Passaic Valley Water Commission	Artesian well and rain water	3	1- 8-29
Paterson	John Hand & Sons, Inc.	Passaic Valley Water Commission	Reservoir	92	4- 2-29
Paterson	The Madison Ave. Realty Co.	Passaic Valley Water Commission	Cistern	19	1- 8-29
Paterson	The Manhattan Shirt Company	Passaic Valley Water Commission	Passaic River	9	1- 8-29
Paterson	Morrison Machine Company	Passaic Valley Water Commission	Open reservoir	97	4- 2-29
Paterson	Phoenix & Harmony & Industry Mills (Bertha Grobart)	Passaic Valley Water Commission	Passaic River	104	6-11-35
Paterson	Public Service Electric & Gas Company	Passaic Valley Water Commission	Deep wells	156	6- 6-33
Paterson	United Piece Dye Works (Weidmann Division)	Passaic Valley Water Commission	Passaic River	7	1- 8-29
				8	1- 8-29
				113	4- 2-29
Paterson	Marie Walder	Passaic Valley Water Commission		114	4- 2-29
Perth Amboy	Chesebrough Mfg. Company, Consolidated	Perth Amboy Water Department	City water cistern	115	4- 2-29
Perth Amboy	General Cable Corporation (formerly Standard Underground Cable Company)	Perth Amboy Water Department	Raritan River	123	5- 7-29
			Well and salt water	79	4- 2-29
Perth Amboy	International Smelting & Refining Company (formerly Raritan Copper Works)	Perth Amboy Water Department	Wells	48	4- 2-29
Phillipsburg	A. D. Juilliard & Co., Inc.—Standard Silk Division (formerly The Standard Silk Co.)	Peoples Water Company	Wells and cisterns	44	2- 5-29
Plainfield	International-Plainfield Motor Company (formerly International Motor Company)	Plainfield-Union Water Company	Private sprinkler system	21	1- 8-29
Rahway	Merck & Company, Inc.	Rahway Water Department	Wells	65	4- 2-29
Raritan	Raritan Mills (formerly Raritan Woolen Mills & Somerset Mfg. Company)	Somerville Water Company	Raritan River	52	4- 2-29
				53	4- 2-29
Ridgefield	Lowe Paper Company	Hackensack Water Company	Deep wells	130	6- 4-29
Riegelsville	Riegel Paper Corporation (Warren Glen Mill) (formerly Warren Mfg. Company)	Riegel Paper Corporation supply	Musconetcong River	157	9-12-33
Riegelsville	Riegel Paper Corporation (Hughesville Mill)	Riegel Paper Corporation supply	Musconetcong River	100	4-13-37
Rockaway	Klondale Bleach, Dye & Print Works, Inc.	Rockaway Water Department	Rockaway River	158	2- 6-34
Roselle	The Watson-Stillman Company	Plainfield-Union Water Company	Wells	54	4- 2-29
Rutherford	Becton, Dickinson & Company	Hackensack Water Company	Deep well	144	9-11-36
Salem	Gayner Glass Works	Salem Water Department	Salem River	170	5- 9-39
South Bound Brook	The Ruberoid Company	Bound Brook Water Company	Delaware and Raritan Canal	2	1- 8-29
South River	Sidney Blumenthal & Co., Inc., South River Division (formerly South River Spinning Company, Inc.)	South River Water Department	Pond	73	4- 2-29
Trenton	The Acme Rubber Mfg. Company	Trenton Water Department	Pond Run Creek	24	1- 8-29
Trenton	American Steel & Wire Company	Trenton Water Department	Assunpink Creek and Delaware and Raritan Canal	124	5- 7-29
Trenton	Crescent Insulated Wire & Cable Company	Trenton Water Department	Assunpink Creek	70	4- 2-29
Trenton	Panelyte Corporation	Trenton Water Department	Assunpink Creek	154	7- 7-31
Trenton	Princeton Worsted Mills, Inc.	Trenton Water Department	Delaware River and Sanhican Creek	149	1- 6-31
Trenton	Public Service Electric & Gas Company	Trenton Water Department	Delaware and Raritan Canal	152	6- 2-31
Trenton	Public Seating Company (formerly N. J. Seating Co.) (originally N. J. School Furniture Co.)	Trenton Water Department	Cistern	27	1- 8-29
Trenton	John A. Roebling's Sons Company	Trenton Water Department	Delaware and Raritan Canal	28	1- 8-29
				29	1- 8-29
				87	4- 2-29
Trenton	Jos. Stokes Rubber Company	Trenton Water Department	Assunpink Creek	139	5- 6-30
Union City	Union Warehouse Corporation (formerly The Schwarzenbach Huber Company)	Hackensack Water Company	City water cistern	109	4- 2-29
West Orange	Thomas A. Edison, Inc.	Commonwealth Water Company	Artesian wells	142	5- 6-30
West Orange	Montclair Golf Club	Commonwealth Water Company	Well	166	6- 9-36
Wharton	Gotham Silk Hosiery Co., Inc.	Wharton Water Department	Rockaway River	82	4- 2-29

No. 14—Water Supplies Not Now Recognized as Public Potable Water Supplies Pursuant to the Resolution Adopted on January 10, 1933.

The Department of Health of the State of New Jersey at a meeting held on January 10, 1933, adopted a preamble and resolution in which, based upon an opinion from the Attorney-General, it was resolved that "in order for sources of water supplies to be considered as public potable water supplies, they must represent sources of supply from which water is distributed or sold to consumers for potable purposes in eight or more dwellings and/or properties, and where water from sources of supplies is distributed or sold to less than said number of dwellings and/or properties such supplies will hereafter be considered as private sources of water supplies and which supplies come within the jurisdiction of local boards of health having control over the territory wherein such supplies are located." The following tabulation shows the supplies removed from the public potable water supply list from July 1, 1938, to June 30, 1939:

Location	*Owner*	*Source of Supply*
Helmetta (Jamesburg Section)	Property Owners Cooperative Association	1 driven well, 224′ deep
Montville Twp.	Plausha Park Land Co.	1 driven well, 200′ deep
Newfield	Charles C. Ober	1 driven well, 26′ deep

No. 15—Water Supplies Abandoned From July 1, 1938, to June 30, 1939.

Location	*Owner*	*Source of Supply*
Dover Twp., Normandy Beach Section	J. Milton Slim (Coast and Inland Development Co.)	1 driven well, 1038′ deep
Middletown Twp.	Water Witch Club	4 driven wells, 140-225′ deep

No. 16—Private Supplies.

Seventy-eight samples of water from private sources of supply have been examined in the laboratory and payment to the amount of $735.00 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. 17—Establishment of Factories on Watersheds.

During the year, under the provisions of Chapter 280, Laws of 1921 (known now as Section 58:10–17 to 58:10–21), the following applications were approved for the construction of industrial plants upon watersheds in the State:

No. 158—Orange (Abbott-Hogan, Inc.)—plant for cleaning clothes.
No. 159—Union Twp. (Clemens Manufacturing Co.)—plant for the manufacture of church pews, tables, chairs, school furniture and other articles of wood.
No. 160—Orange (Talens School Products Manufacturing Co.)—plant for the manufacture of water colors and wax crayons.
No. 161—Orange (Hand Craft Corp.)—plant for the manufacture of rugs.
No. 162—Ewing Twp. (Luscombe Airplane Corp.)—plant for the manufacture of metal airplanes.

No. 18—School Supplies.

Six hundred and ninety-three samples of water have been examined in the laboratory of the Bureau of Chemistry from rural 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. This work has been supplemented by field investigations which have been made upon the request of interested school officials.

No. 19—Public Potable Water Supplies in New Jersey.

"How much water do the people of New Jersey drink in a year?" That question was submitted to the Department through a popular radio program. It was easily answered by a rough estimate and in the spirit in which it was submitted. Most questions reaching the Department concerning water supply are not so easily answered. Prospective home owners, vacationists at our recreation centers, tourists, industrial promoters, magazine editors, the press, other government agencies, all are represented among the petitioners for information about the State's public potable water supplies. The volume of such requests is increasing rapidly. The apparent widespread interest indicates that the public is becoming more concerned with the quality of its water supply. The Department aims to reply to all reasonable requests for such data. To be able to do so requires the maintenance of an up-to-date record for ready reference or repeated searching of voluminous files.

The ever-increasing need for a detailed record in a simplified form led the Bureau to the establishment of a public potable water supply inventory. Adding impetus to the movement was the enactment in 1938 of the supplement to the water and sewage treatment plant licensing law. The supplement brought under the licensing act all "water supply systems," whereas the original act was limited to treatment and purification plants. Thus the Department was obliged to become interested in the water supply systems from the sources of the water to the ultimate distribution, even in instances where there was maintained only a distribution or transmission system, the water being purchased from another purveyor. The inventory was expanded to include all water supply systems.

To secure uniformity in the inventory a questionnaire embodying suggestions of every member of the technical staff of the Bureau was drawn. The questionnaire was comprised of four forms, known as A, B, C and D, each having a specific purpose. Form "A" was a General Information Sheet, applying to all water supply systems and including information such as water consumption, seasonal influences, the ownership of the distribution system in each municipality served, the extent to which services are metered, storage facilities, inter-connections with other water supplies (public and private), a list of the municipalities

served, the number of service connections and estimated population served in each, and the method of financing the service. Form "B" applied only to a well supply and included details on the source, the treatment and purification processes, and units employed and the laboratory control exercised. Forms "C" and "D" were similar to Form "B" and applied only to surface and spring supplies respectively. Despite every effort toward condensation and simplicity the questionnaire was truly a formidable document.

The data was collected and recorded on the forms by the engineering staff in conjunction with routine field assignments in so far as such a canvass was practical. The field survey was directed especially toward the smaller supplies where there was no technical supervision.

Augmenting the field survey the questionnaires were mailed to the licensed operators or other recognized authorities. A cover letter explained the purpose of the inventory and was written as a personal appeal for co-operation. The Department's authority for requesting such information was not cited; nor was there any suggestion of such authority. Ninety-eight percent of the questionnaires were completed and returned within ninety days. The Bureau takes great pleasure in expressing its gratitude to the operators and superintendents, without whose co-operation the inventory could not have been made.

The tabulation "Public Potable Water Supplies in New Jersey" and the statistics listed below are based exclusively upon the data obtained through the questionnaire. They include factors generally of most interest to the public. They represent only a small part of the data included in the inventory.

It should be emphasized that within the metropolitan area from Elizabeth to Paterson there are inter-connections between the State's largest water supplies such as make any separation between service areas little more than a guess. The source of supply for some areas undoubtedly varies from day to day. This situation has influenced the Population Data recorded below. Some petitions to the Department have sought to single out municipalities and populations served with waters from different sources. Such data are impossible to obtain in some instances. Some of the largest supplies are obtained from both surface and ground sources and the waters are mixed in the distribution system or even at the treatment plants. The distinction between population served by pub-

licly and privately owned systems will also bear comment. Note that the word "systems," not "supplies" is used in this case. The distinction is made between the source of supply and the distribution system delivering the water for consumption. Thus the population of the City of Elizabeth is included in the 2.76 million people served by publicly owned systems. Reference to the tabulation shows that the distribution system in Elizabeth is owned by the city; that the water is obtained from two privately owned and one publicly owned supply. Thus it is possible to determine that Elizabeth is served by a publicly owned system but any attempt to determine how much of the population receives water from each of the sources of supply is utterly hopeless.

An interesting illustration of the complications confronted in assembling the inventory is the City of Clifton. No information had been obtained from this municipality at the time the tabulation was compiled but all that remained to be obtained from that source was confirmation of a few details. Other sources supplied enough information to give a comprehensive picture of the situation. Clifton owns a share in the Wanaque system of the North Jersey District Water Supply Commission and through that ownership is served in part directly by the Passaic Valley Water Commission. The city also owns and operates a system through which it distributes water purchased at wholesale from the Passaic Valley Water Commission, the Town of Montclair, and the City of Jersey City. In addition to areas served by systems owned and operated by the city and the Passaic Valley Water Commission there are sections of Clifton which are served directly by the towns of Montclair and Nutley.

The inventory is the most complete record of simultaneous data on public potable water supplies ever assembled by the Department. It is believed to be as accurate and as complete as it is practical to compile. It should be possible to make the inventory a valuable reference for many years to come. Most of the data are of a semi-permanent nature at least. Other factors will change. The value of the inventory will be dependent largely upon the simplicity and efficiency of the method devised to keep the record current. With this in mind a simplified filing system was established. A visible index card file will house the complete record. There will be a card for each source of supply and each water supply system in the state. The card will be of adequate size to provide for all

details including extra space for natural changes. Thus it will be possible by glancing at a single card of standard letter size to obtain a comprehensive picture of any water supply. The simplicity of the original record should prove to be the basis of a simple method of maintaining a current inventory.

PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY

1939 INVENTORY AS OF JUNE 30, 1939

Water Supply Systems:	
Which include a source of supply	283
Which do not include a source of supply*	53
Total systems	336
Water Supply Systems:	
Publicly owned	184
Privately owned	152
Total	336
Water Supply Systems Which Include a Source of Supply:	
Publicly owned	142
Privately owned	141
Total	283

Established Sources of Supply:

	*Treated and/or Purified**	*Not Treated or Purified**	*Total*
Well supplies	155	153	308
Spring supplies	16	11	27
Infiltration galleries	3	0	3
Surface supplies	61	0	61
Total	235	164	399

Treatment and/or Purification Plants Employing:	
Prolonged storage	24
Algae control	46
Aeration	60
Coagulation	35
Slow sand filters	7
Rapid sand filters	28

*Water is obtained from another purveyor.
*By one or more processes indicated below.

Pressure filters	30
Iron removal	30
Softening	1
pH Control for corrosiveness	34
Activated carbon	14
Ammoniation	35
Chlorination	162
Population Data:	*Million*
Served by publicly owned systems	2.76
Served by privately owned systems	1.16
Total	3.92
Served with water treated and/or purified*	3.55
Served with water not treated or purified*	.37
Total	3.92
Served with ground water exclusively	1.11
Served with surface water exclusively	2.15
Served with mixed water	.66
Total	3.92
Municipalities:	
Served in whole or in part	456
Not served	114
Total	570
Consumption Data (1938):	*M.G.D.*
From publicly owned systems	300
From privately owned systems	95
Total	395
From surface supplies	272
From ground supplies	123
Total	395
Treated and/or purified*	353
Not treated or purified*	42
Total	395
Chlorinated	330
Not chlorinated	65
Total	395

*By one or more processes listed.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	SERVICE: CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Absecon City (Atlantic)																										
See Pleasantville (Atlantic County Water Company)																										
Alexandria Township (Hunterdon)	No public water supply																									
Allamuchy Township (Warren)	No public water supply																									
Allendale Borough (Bergen)																										
Municipality	....	....	.060	Municipal	3 wells, 147-150′ deep, 12″ dia.	x				None	1930							None								
Allendale	570	2,000	....																							
Allenhurst Borough (Monmouth)																										
Municipality																										
Allenhurst	348	*700	*	Municipal	3 wells, 550′ deep, 8″ dia.	x				Complete analysis—Quarterly	1898		x			x	x				x			x		x
Ocean Township (part)	10	* 50	....																							
Allentown Borough (Monmouth)																										
Municipality																										
Allentown	235	700	.080	Municipal	Indian Run Lake	x				Alkalinity, pH, turbidity—Daily	1907						x			x		x		x		
Alloway Township (Salem)	No public water supply																									
Alpha Borough (Warren)																										
Municipality	....	....	....	Municipal	1 well, 363′ deep, 8″ dia.	x				None	1939											x				
Alpha	300	1,500	(New)																							
Alpine Borough (Bergen)																										
See New Milford (Hackensack Water Company)																										
Andover Borough (Sussex)																										
Municipality																										
Andover	100	500	.015	Municipal	1 well, 47′ deep, 18″ dia.	x				None	1937							None								
Asbury Park City (Monmouth)																										
Municipality	....	....	*	Municipal	8 wells, 1,150′ deep, 10″ dia.	x				None	1885		x			x					x					x
Asbury Park	2,000	*	....																							
Neptune Township (part)	25	*	....																							
Asbury Park City (Monmouth)																										
Also see Long Branch—(Monmouth Consolidated Water Company)																										
Atlantic Township (Monmouth)	No public water supply																									
Atlantic City (Atlantic)																										
Municipality				Absecon Pumping Station	13 wells, 100-675′ deep, 16-26″ dia.	x				Bacteriological—Daily	'25-'29-'31			x				x				x	x			
Atlantic City	10,617	*65,748	*	Absecon Creek	Absecon Creek					Bacteriological—Daily	1882			x				x				x	x			
Atlantic City (Atlantic)																										
Hotel Breakers	1	....	.060	Hotel Breakers	2 wells, 800′ deep, 6″ dia.	x				City chemist	....							None								
Hotel Brighton	1	....	.075	Hotel Brighton	1 well, 840′ deep, 6″ dia.	x				City chemist—Monthly	1894							None								
Chalfonte-Haddon Hall	1	....	.450	Chalfonte-Haddon Hall	4 wells, 850′ deep, 5-16″ dia.	x				City chemist—Monthly	1868							None								
Hotel Dennis	1	....	2.00	Hotel Dennis	1 well, 855′ deep, 8″ dia.	x				City chemist	....							None								
Hotel Grossman (Galen Hall)		Not operating		Hotel Grossman																						
Marlborough-Blenheim	1	....	.150	Marlborough-Blenheim	2 wells, 823′ deep, 8-10″ dia.	x				City chemist	....							None								
Hotel Traymore	1	....	....	Hotel Traymore	2 wells, 890-920′ deep, 8″ dia.	x				City chemist	....							None								
Atlantic County Water Co.																										
See Pleasantville																										
Atlantic Highlands Borough (Monmouth)																										
Municipality																										
Atlantic Highlands	1,100	*1,800	*	Municipal	2 wells, 180-580′ deep, 10-18″ dia.	x				None	1892		x								x					x
Audubon Borough (Camden)																										
See Haddon Heights (New Jersey Water Co.)																										
Avalon Borough (Cape May)																										
Municipality	....	....	....	Old wells	2 wells, 940′ deep, 4-6″ dia.		x	x		None	1898															
Avalon	800	* 400	*	New Unit Well	1 well, 960′ deep, 10″ dia.	x				None	1930							None				x				
Avon-by-the-Sea Borough (Monmouth)																										
Municipality	No information received on this supply																									
Awosting (Ringwood Co.) (Passaic)																										
See West Milford Township (Ringwood Co.)																										
Barnegat City Borough (Ocean)																										
Municipality																										
Barnegat City	96	* 200	*	Municipal	1 well, 590′ deep, 8″ dia.	x				None	1931							None								
Barnegat Water Company																										
See Union Township (Ocean County)																										
Barrington Borough (Camden)																										
See Haddon Heights (New Jersey Water Co.)																										
Bartley																										
See Mount Olive Township (Morris Co.)																										
Bass River Township (Burlington)	No public water supply																									
Bassett Park Association																										
See Mine Hill Township (Morris Co.)																										
Bay Head Borough (Ocean)																										
Ocean County Water Co.				Bay Head Supply	4 wells, 658-825′ deep, 8-6″ dia.	x				Bacteriological—Daily	....											x				
Bay Head Borough	615	*	*																							
Mantoloking Borough	270	....	....	Mantoloking Supply	3 wells, 700-900′ deep, 8-6″ dia.		x			Bacteriological—Daily	....											x				
Brick Township (part)	200	....	....																							
Dover Township (part)	137	....	....	Normandy Beach Supply	2 wells, 880-1,280′ deep			x		Bacteriological—Daily	....										x					x
Bayonne City (Hudson)																										
Municipality																										
Bayonne	9,467	89,000	9.0	Municipal	Buys water from North Jersey District Water Supply Comm.	x																				
Kearny	Industrial	....	....																							
Jersey City	Industrial	....	....																							
Beach Haven Borough (Ocean)																										
Municipality	No information received on this supply																									
Beechwood Borough (Ocean)	No public water supply																									
Beaver Brook Water Co.																										
See Clinton																										
Bedminster Township (Somerset)																										
Pottersville Water Co.	34	300	.154	Pottersville Water Co.	Cold Brook	x				None	1930	x										x				x
Bedminster Township (part)																										
Tewksbury Township (Hunterdon Co.) (part)																										
Belleville Town (Essex)																										
Municipality	....	....	....	Municipal	Buys water from City of Newark	x																				
Belleville	....	25,000	1.75																							
Bellmawr Borough (Camden)																										
Orchard Terrace Water Co.	....	....	....	Orchard Terrace Water Co.	1 well, 265′ deep, 8″ dia.	x				None	....											x				
Bellmawr (part)	34	200	.005																							
Bellmawr Borough (Camden)																										
Also see Haddon Heights (New Jersey Water Co.)																										
Also see Brooklawn (Municipal)																										
Belmar Borough (Monmouth)																										
Municipality	2,275	....	*	Municipal	10 wells, 580′ deep, 6-12″ dia.	x				None	1895							None								
Belmar	....	*3,500	. . .																							
South Belmar	....	* 900	. . .																							
Wall Township (part)	....	* 600	. . .																							
Belvidere Town (Warren)																										
Buckhorn Springs Water Co.	....	....	.220	Buckhorn Springs Water Co.	3 wells, 75-90′ deep, 4″ dia.	x				None	1907			x								x	x			
Belvidere	714	2,160	....	Buckhorn Creek	Buckhorn Creek	x				None	1907	x		x								x	x			
White Township (part)	7	35	....	Buckhorn Springs	Buckhorn Springs	x				None	1907	x		x								x	x			
Bendix Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Bergenfield Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Berkeley Township (Ocean)																										
See Ocean Gate (Municipal)																										
Berlin Borough (Camden)																										
Municipality	....	....	.180	Municipal	5 wells, 4-75-78′ deep, 1-360′ deep, 6 & 8″ dia.	x				None	1925							None								
Berlin	500	2,000	....																							
Berlin Township (part)	400	1,500	....																							
Berlin Township (Camden)																										
See Berlin Borough (Municipal)																										
Bernards Township (Somerset)																										
See Bernardsville (Bernards Water Co.)																										
Bernardsville Borough (Somerset)																										
Bernards Water Co.	....	....	.536	Bernards Water Co.	Osborne's Pond	x				Bacteriological—Daily	1903					x	x		x		x	x		x		
Bernardsville	705	3,760	....							Partial chemical—Daily																
Bernards Township (part)	555	4,647	....																							
Berrien City																										
See West Windsor Township (Princeton Junction Water Co.)																										
Bethlehem Township (Hunterdon)	No public water supply																									
Beverly City (Burlington)																										
Delaware River Water Co.	....	....	.336	Delaware River Water Co.	13 wells, 75′ deep, 6-16″ dia.	x				None	1886											x				
Beverly	650	3,000	....																							
Delanco Township	580	2,400	....																							
Delran Township (part)	28	100	....																							
Edgewater Park Township (part)	203	700	....																							
Riverside Township	1,504	7,300	....																							
Blackwood Water Co.																										
See Gloucester Township (Camden)																										
Blairstown Township (Warren)																										
Blair Academy Water Dept.	....	....	.090	Blair Academy	3 wells, 167-300′ deep, 6 & 8″ dia.	x				None	1888											x				
Blairstown Township	143	1,000	....																							
Bloomfield Town (Essex)																										
Municipality	....	....	3.25	Municipal	Buys water from City of Newark	x																				
Bloomfield	8,000	44,000	....																							
Bloomingdale Borough (Passaic)																										
See Butler (Municipal)																										
Bloomsbury Borough (Hunterdon)																										
Municipality	....	....	.070	Municipal	Springs	x				None	1906					x					x	x				
Bloomsbury	188	650	....	Musconetcong	Musconetcong River			x		None	1932					x					x	x				
Greenwich Township (Warren) (part)	16	150	....																							
Bogota Borough (Bergen)																										
Bogota Water Co.	....	....	.190	Bogota Water Co.	2 wells, 275-550′ deep, 8-10″ dia.	x				Hackensack Water Co.—Monthly	1891							None								
Bogota (part)	593	3,000	....																							
Teaneck Township (part)	419	2,100	....																							
Bogota Borough																										
Also see New Milford (Hackensack Water Co.)																										
Boonton Town (Morris)																										
Municipality	....	....	.790	Powerville	2 wells, 40′ deep, 4″ dia.	x				Tri-weekly	1932							None								
Boonton	1,685	6,866	....	Stony Brook Reservoir	Stony Brook	x				Tri-weekly	1894			x								x	x			
Boonton Township																										
See Mountain Lakes Borough (Municipal)																										
Bordentown City (Burlington)																										
Municipality	....	....	.700	Municipal	40 wells, 70-80′ deep, 2-4″ dia.	x				None	....											x				
Bordentown City	1,200	4,400	....	Municipal	40 springs	x				None	1907											x				
Bordentown Township (part)	50	300	....																							
Fieldsboro	200	1,000	....																							
Hamilton Township (Mercer) (part)	25	100	....																							
Bordentown Township (Burlington)																										
See Bordentown (Municipal)																										
Bound Brook Borough (Somerset)																										
Bound Brook Water Co.	....	....	.750	Middle Brook	Middle Brook	x				Partial chemical	1887	x		x		x		x	x	x	x	x				
Bound Brook	1,280	8,000	....	Mountain Station	6 wells, 125′ deep, 6″ dia.				x	None	1900							None								
South Bound Brook	333	1,500	....	Middle Brook Station	15 wells, 125-187′ deep, 6-8″ dia.				x	None	1912							None								
Middlesex Borough (part)	130	800	....																							
Bridgewater Township (part)	60	200	....																							
Bradley Beach Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Branchburg Township (Somerset)	No public water supply																									
Branchville Borough (Sussex)																										
Municipality	....	....	.119	Municipal	Branchville Reservoir	x				None	1909			x								x				
Branchville	216	670	....		10 springs	x				None	1909			x								x				
Briar Heights & Della Heights Property Owners Association See Byram Township																										
Brick Township (Ocean) See Bay Head (Ocean County Water Co.)																										
Bridgeton City (Cumberland)																										
Municipality	....	....	2.48	Well No. 1	1 well, 75' deep, 16" dia.	x				Complete daily	1930		x									x				
Bridgeton	4,740	15,500	....	Well No. 2	1 well, 97' deep, 16" dia.	x				Occasional	1931		x									x				
				Sunset Lake	Sunset Lake	x				Complete daily	1913	x		x	x		x	x		x		x	x	x		
Bridgeton City (Cumberland)																										
Owens-Illinois Glass Co.	....	....	1.00	Owens-Illinois Glass Co.	2 wells, 73' deep, 18" dia.	x				None	1935															
Owens-Illinois Glass Co.	1	....	....								None															
Bridgeton (Emergency)																										
Bridgewater Township (Somerset) See Bound Brook (Bound Brook Water Co.) Also see Somerville (Somerville Water Co.)																										
Brielle Borough (Monmouth)																										
Municipality	....	....	*	Municipal	1 well, 154' deep, 12" dia.	x				None	1936		x													
Brielle	350	*700	....																							
Brigantine City (Atlantic)																										
Municipality	....	....	*	14th St. and Beach Avenue	1 well, 825' deep, 10" dia.	x				None	1929															
Brigantine	282	*525	....	Roosevelt and Beach Avenue	1 well, 785' deep, 10" dia.				x	None	1925							None								
Brooklawn Borough (Camden)																										
Municipality	....	....	.175	Municipal	2 wells, 152-165' deep, 12" dia.	x				None	1927							None								
Brooklawn	560	2,000	....																			x				
Bellmawr (part)	7	30	....																							
Brooklawn Farms Water Co. See Parsippany-Troy Hills Township																										
Browns Mills Land Co., Inc. (Water Dept.) See Pemberton Township																										
Budd Lake Supplies See Mount Olive Township																										
Burlington City (Burlington)																										
Municipality	....	....	.999	Municipal	Delaware River	x				None	1877				x		x	x		x		x	x		x	
Burlington	2,800	11,000	....																							
Burlington Township (Springside Section)	126	450	....																							
Burlington Township See Burlington City (Municipal)																										
Butler Borough (Morris)																										
Municipality	....	....	1.5	Kikeout	Kikeout Brook	x				Microscopic and Bacteriological (Bi-weekly)	1939	x										x				x
Butler	800	3,700	....	Apshawa	Apshawa Reservoir	x					1915	x			x							x	x	x		x
Bloomingdale	700	2,600	....																							
Pompton Lakes (Wholesale)																										
Byram Township (Sussex)																										
Briar Heights & Della Heights Property Owners Association	22	* 80	*	Briar Heights and Della Heights	1 well, 100' deep, 6" dia.		x			None	1926											x				
Byram Township (Cranberry Lake)																										
Byram Township (Sussex)																										
Frenches Grove Water Co.	40	*160	*	Frenches Grove Water Co.	1 well, 100' deep, 8" dia.		x			None	1927							None								
Byram Township (Cranberry Lake)																										
Byram Township (Sussex)																										
Strawberry Point Property Owners Association	14	* 65	*	Strawberry Point Property Owners Association	1 well, 160' deep, 6" dia.		x			None	1937							None								
Byram Township (Cranberry Lake)																										
Byram Township See Sparta Township (Lake Mohawk-Sparta Water Co.)																										
Caldwell Borough (Essex)																										
Municipality	....	....	.470	Municipal	Buys water from Essex Fells																					
Caldwell	1,400	5,500	....																							
West Caldwell (Wholesale)																										
Califon Borough (Hunterdon)																										
Califon Water Co. Inc.	....	....	.150	Califon Water Co.	3 springs	x				None	1923											x				
Califon	115	525	....																							
Camden City (Camden)																										
Municipality	....	....	17.0	City Wells	10 wells, 115-182' deep, 18-28" dia...	x				None	1922-28-35							None								
Camden (part)	24,886	95,000	....	Delair	3 wells, 129-144' deep, 26" dia.		x	x	x	None	1930							None								
				Puchak Run	5 wells, 139-181' deep, 26" dia.	x				None	1924							None								
				Morris Pumping Station	9 wells, 105-148' deep, 18-26" dia.	x				None	1926							None								
Camden City (Camden) Also see Haddon Heights (New Jersey Water Co.) Also see Merchantville (Merchantville Pennsauken Water Commission)																										
Cape May City (Cape May)																										
Municipality	....	....	*	Municipal	14 wells, 8 & 10" dia.	x				None	1885											x				
Cape May City	1,427	*2,637	....																							
Lower Township (part)	39	*	....																							
South Cape May	38	* 25	....																							
West Cape May	229	*1,048	....																							
Cape May Point Borough (Cape May)																										
Municipality	....	....	*	Municipal	1 well, 610' deep, 10" dia.	x				None	1916											x				
Cape May Point	250	* 250	....																							
Lower Township (part)	2	* 15	....																							
Carlstadt Borough (Bergen) See New Milford (Hackensack Water Co.)																										
Carney's Point (Salem) See Upper Penns Neck Township (E. I. du Pont de Nemours & Co.)																										
Carteret Borough (Middlesex) See Woodbridge Township (Middlesex Water Co.)																										
Cedar Grove Township (Essex)																										
Municipality	No information received from the owner of this supply			Municipal	Buys water from the Town of Montclair and New Jersey Water Service Co.																					
Cedar Grove																										
Chatham Borough (Morris)																										
Municipality	....	....	.393	Municipal	7 wells, 105-150' deep, 6-24" dia.	x				None	....							None								
Chatham Borough	1,400	....	....																							
Chatham Township (part)	30	....	....																							
Chatham Township (Morris)																										
Chatham Colony Association	32	85	.004	Chatham Colony Association	1 well, 864' deep, 4" dia.	x				None	1923											x				
Chatham Township (part)																										
Chatham Township (Morris) Also see Chatham Borough																										
Chesilhurst Borough (Camden)	No public water supply																									
Chester Borough (Morris)																										
Spring Water Co.	18	80	.003	Spring Water Company	1 spring	x				None	1932							None								
Chester (part)																										
Chester Township (Burlington)																										
Municipality	....	....	.200	Municipal	3 wells, 118-129' deep, 8-12" dia.	x				None	1924		x		x					x	x		x		x	
Chester Township (Maple Shade Section)	1,400	5,150	....																							
Chesterfield Township (Burlington)																										
Crosswicks Water Co.	....	....	.033	Crosswicks Water Co.	Underground springs	x				None	1910							None								
Chesterfield Township (Crosswicks Section)	152	500	....																							
Cinnaminson Township (Burlington) See Palmyra (Riverton-Palmyra Water Co.)																										
Clarksboro See East Greenwich Township																										
Clark Township (Union) See Plainfield (Plainfield-Union Water Co.) See Elizabeth (Elizabethtown Water Co. Consolidated) See Woodbridge (Middlesex Water Co.)																										
Clayton Borough (Gloucester)																										
Municipality	....	....	.060	Municipal	1 well, 100' deep, 16" dia.	x				pH—Daily	1928		x											x		
Clayton	500	2,500	....																							
Clementon Borough (Camden)																										
Municipality	....	....	.200	Municipal	6 wells, 163-240' deep, 6-8" dia.	x				None	1911-24							None								
Clementon	800	2,650	....																							
Lindenwold (part)	125	500	....																							
Pine Hill	434	1,850	....																							
Cliffside Park Borough (Bergen) See New Milford (Hackensack Water Co.)																										
Cliffwood Beach Water Co. See Matawan Township																										
Clifton City (Passaic)																										
Municipality	No information received from owner of this supply			Municipal	Buys water from Passaic Valley Water Comm., Montclair, Jersey City																					
Clifton																										
Clifton City Also see Paterson (Passaic Valley Water Commission) Also see Montclair (Municipal) Also see Nutley (Municipal) Also see Wanaque (North Jersey Dist. Water Supply Commission)																										
Clinton Town (Hunterdon)																										
Beaver Brook Water Co.	....	....	.160	Beaver Brook Water Co.	Beaver Broook	x				None	1897			x		x						x	x		x	
Clinton	301	950	....																							
Clinton Township (Annandale Section)	135	500	....																							
Lebanon Borough	175	700	....																							
Clinton Township (Hunterdon) See Clinton (Beaver Brook Water Co.)																										
Closter Borough (Bergen) See New Milford (Hackensack Water Co.)																										
Clymer Springs Water Co. See Pohatcong Township (Warren) (Riegel Paper Co.)																										
Collingswood Borough (Camden)																										
Municipality	....	....	1.70	Municipal	3 wells, 298-325' deep, 18" dia.	x				Bacteriological—Occasional	1926		x													
Collingswood	3,475	13,000	....																							
Haddon Township (part)	1,860	4,500	....																							
Haddon Township (Wholesale)																										
Woodlynne	775	2,500	....																							
Columbus Water Co. See Mansfield Township																										
Commercial Township (Cumberland)	No public water supply																									
Commonwealth Water Co. See Summit																										
Corbin City City (Atlantic)	No public water supply																									
Corson's Inlet Water Co. See Upper Township																										
Cranberry Lake Supplies See Byram Township																										
Cranbury Township (Middlesex)																										
Cranbury Water Co.	....	....	.050	Cranbury Water Co.	2 wells, 110-255' deep, 8" dia.	x				None	1906		x									x		x		
Cranbury Township (part)	260	800	....																							
Cranford Township (Union) See Plainfield (Plainfield-Union Water Co.)																										
Cresskill Borough (Bergen) See New Milford (Hackensack Water Co.)																										
Crestmont Park Water Co. See Ewing Township																										

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Crosswicks Water Co.																										
See Chesterfield Township																										
Deal Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Deepwater Point																										
See Upper Penn's Neck Township (E. I. du Pont de Nemours Co.)																										
Deerfield Township (Cumberland)	No public water supply																									
Delanco Township (Burlington)																										
See Beverly (Delaware River Water Co.)																										
Delaware River Water Co.																										
See Beverly																										
Delaware Township (Camden)																										
See Merchantville (Merchantville-Pennsauken Water Commission)																										
Also see Haddon Heights (New Jersey Water Co.)																										
Delaware Township (Hunterdon)	No public water supply																									
Delran Township (Burlington)																										
See Beverly (Delaware River Water Co.)																										
Demarest Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Dennis Township (Cape May)	No public water supply																									
Denville Township (Morris)																										
Municipality	....	....	.390	Municipal	2 wells, 137-150′ deep, 12-16″ dia.	x				None	....								None							
Denville Township	1,500	3,500	....																							
Dover Township (Morris)																										
Also see Rockaway																										
Dover Town (Morris)																										
Municipality	....	....	.607	Well supply	3 wells, 72-75′ deep, 8-30″ dia.	x				Bacteriological—Daily	1902								None							
Dover	2,676	10,300	....	Spring supply	8 springs	x				Bacteriological—Daily	1887											x				
Dover Town (Morris)																										
Also see Wharton																										
Dover Township (Ocean)																										
Toms River Water Co.	....	....	.286	Municipal	4 wells, 62′ deep, 6-12″ dia.	x				None	1898											x		x		
Dover Township (Toms River)	808	3,000	....																							
South Toms River Borough	85	400	....																							
Dover Township (Ocean)																										
See Bayhead (Ocean County Water Co.)																										
Also see Lavallette (Municipal)																										
Downe Township (Cumberland)																										
Estate of Herbert Garrison	....	....	*	Garrison Supply	1 well, 287′ deep, 4″ dia.	x				None	....								None							
Downe Township (Fortescue)	27	* 100	....																							
Downe Township (Cumberland)																										
Leslie Haines	....	....	*	Haines Supply	1 well, 306′ deep, 4″ dia.	x				None	....								None							
Downe Township (Fortescue)	70	*	....																							
Downe Township (Cumberland)																										
J. C. Remington	....	....	*	Remington Supply	1 well, 300′ deep, 4″ dia.	x				None	....								None							
Downe Township (Fortescue)	65	*	....																							
Dumont Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Dunellen Borough (Middlesex)																										
See Elizabeth (Elizabethtown Water Co. Cons.)																										
Eagleswood Township (Ocean)	No public water supply																									
East Amwell Township (Hunterdon)	No public water supply																									
East Brunswick Township (Middlesex)																										
Municipality	No information received from owner of this supply				Buys water from the City of Perth Amboy	x																				
East Brunswick Township																										
Spotswood (Wholesale)																										
East Greenwich Township (Gloucester)																										
Municipality	....	....	.083	Municipal	1 well, 205′ deep, 10″ dia.	x				None	1932								None							
East Greenwich Township (Clarksboro, Mount Royal & Mickleton Sections)	300	2,000	....																							
East Hanover Township (Morris)																										
See Florham Park																										
East Millstone Town (Somerset)	No public water supply																									
East Newark Borough (Hudson)																										
Municipality	No information received from owner of this supply				Buys water from the Town of Kearny	x																				
East Orange City (Essex)																										
Municipality	....	....	5.1	Slough Brook	3 wells, 280′ deep, 12″ dia.	x				Bacteriological—Weekly	1905								None							
East Orange	10,651	78,000	....	Canoe Brook	3 wells, 125′ deep, 24″ dia.	x				Bacteriological—Weekly	1905								None							
				Braidburn	3 wells, 128′ deep, 24″ dia.	x				Bacteriological—Weekly	1932								None							
				Dickinson	3 wells, 130′ deep, 24″ dia.	x				Bacteriological—Weekly	1923								None							
East Paterson Borough (Bergen)																										
Municipality	....	....	.155		Buys water wholesale from City of Garfield	x																				
East Paterson	1,038	5,000	....																							
East Rutherford Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
East Windsor Township (Mercer)	No public water supply																									
Easthampton Township (Burlington)																										
H. B. Smith Machine Co.	....	....	.020	H. B. Smith Machine Co.	1 well, 112′ deep, 6″ dia.	x				None	1901		x											x		
Easthampton Township (Smithville)	25	70	....																							
Eatontown Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Edgewater Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Edgewater Park Township (Burlington)																										
See Beverly (Delaware River Water Co.)																										
Egg Harbor City (Atlantic)																										
Municipality	....	....	.200	Municipal	1 well, 440′ deep, 10″ dia.	x				None	1923	x		x	x							x				
Egg Harbor City	830	....	....	No. 2 Pumping Station	1 well, 660′ deep, 10″ dia.				x	None	1923								None							
Galloway Township (part)	22	....	....																							
Egg Harbor Township (Atlantic)																										
See Pleasantville (Atlantic County Water Co.)																										
E. I. du Pont de Nemours & Co.																										
See Greenwich Township (Gloucester) (Gibbstown Section)																										
E. I. du Pont de Nemours & Co.																										
See Lower Penn's Neck Township (Deepwater Village)																										
E. I. du Pont de Nemours & Co.																										
See Upper Penn's Neck Township (Salem) (Carney's Point)																										
Elizabeth City (Union)																										
Municipality	....	....	6.96		Water purchased wholesale from City of Newark, Elizabethtown Water Co. Cons. and Plainfield-Union Water Co.	x																				
Elizabeth	16,914	120,000	....																							
Elizabeth City (Union)																										
Elizabethtown Water Co. Consolidated	....	....	9.69	Raritan-Millstone	Raritan and Millstone Rivers	x				Complete chemical and bacteriological—Daily	1931	x	x	x	x	x		x		x	x	x	x			
Clark Township (part)	209	1,474	....																							
Dunellen	1,340	5,562	....	Hammock Station	56 wells, 56-512′ deep, 8-10-12″ dia.	x				Complete chemical and bacteriological—Bi-monthly	1898											x				
Elizabeth (wholesale)	3	....	....																							
Green Brook Township	43	184	....																							
Hillside Township	3,022	17,601	....	Springfield Station	53 wells, 120-644′ deep, 6, 7 & 8″ dia.	x				Complete chemical and bacteriological—Bi-monthly	1900											x				
Linden	3,529	21,206	....																							
Middlesex Borough (part)	766	3,100	....																							
Plainfield (part)	32	135	....	Watchung (Green Brook) Station	5 wells, 125-126′ deep, 8″ dia.				x	Complete chemical and bacteriological (bi-monthly when operating) otherwise annually	1917											x				
Plainfield-Union Water Co. (wholesale)	2	....	....																							
Piscataway Township (part)	612	2,898	....																							
Raritan Township (part)	88	329	....																							
Roselle (part)	81	500	....	Piscataway (Bound Brook) Station	13 wells, 125-403′ deep, 8″ dia.				x	Complete chemical and bacteriological (bi-monthly when operating) otherwise annually	1913											x				
Roselle Park (part)	36	155	....																							
South Plainfield (part)	241	869	....																							
Union Township (Union)	5,392	16,472	....																							
Elizabethtown Water Co. Consolidated																										
See Elizabeth City (Union)																										
Elk Township (Gloucester)	No public water supply																									
Elmer Borough (Salem)																										
Elmer Water Co.	....	....	.060	Elmer Water Co.	2 wells, 60′ deep, 10″ dia.	x				None	1914								None							
Elmer	290	1,200	....																							
Elsinboro Township (Salem)	No public water supply																									
Emerson Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Englewood City (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Englewood Cliffs Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Englishtown Borough (Monmouth)	No public water supply																									
Essex Fells Borough (Essex)																										
Municipality	....	....	1.25	No. 1 Pumping Station	4 wells, 96-565′ deep, 6-10-24″ dia.	x				None	....											x				
Essex Fells	....	1,115	....	No. 2 Pumping Station	3 wells, 45′ deep, 6″ dia.	x				None	....											x				
Caldwell (wholesale)																										
Verona (wholesale)				No. 4 Pumping Station	3 wells, 195-360′ deep, 10-12″ dia.	x				None	....								None							
Roseland (wholesale)																										
West Caldwell (wholesale)																										
North Caldwell (wholesale)																										
Estell Manor City (Atlantic)	No public water supply																									
Evesham Township (Burlington)																										
Marlton Water Co.	....	....	.025	Marlton Water Co.	2 wells, 238-268′ deep, 6″ dia.	x				None	1897											x				
Evesham Township (Marlton Section)	124	700	....																							
Ewing Township (Mercer)																										
Crestmont Park Water Co.	....	....	.011	Crestmont Park Water Supply	1 well, 125′ deep, 6″ dia.	x				None	1921								None							
Ewing Township (Crestmont Park Section)	43	175	....																							
Ewing Township (Mercer)																										
Also see Trenton (Municipal)																										
Fair Lawn Borough (Bergen)																										
Municipality	....	....	.360	Municipal	5 wells, 300-500′ deep, 12″ dia.	x				None	1929											x				
Fairlawn	2,000	7,500	....																							
Fairfield Township (Cumberland)	No public water supply																									
Fairhaven Borough (Monmouth)																										
See Red Bank																										
Also see Long Branch (Monmouth Consolidated Water Co.)																										
Fairview Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Fanwood Borough (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
Far Hills Borough (Somerset)																										
Gravity Water Supply Co.	....	....	.040	Gravity Water Supply Co.	Buys water from Peapack-Gladstone.	x																				
Far Hills	....	250	....																							
Bedminster Township	....	275	....																							

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	CONNECTIONS	POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Farmingdale Borough (Monmouth)																										
Municipality	....	....	.020	Municipal	1 well, 480′ deep, 8″ dia.	x				None	1918															
Farmingdale	182	670	....																							
Howell Township (part)	8	30	....																							
Fieldsboro Borough (Burlington)																										
See Bordentown (Municipal)																										
Flemington Borough (Hunterdon)																										
Flemington Water Co.	....	....	.500	Well supply	3 wells, 55-405′ deep, 4-5-6″ dia.	x				None	....															
Flemington	626	2,900	....	Surface supply	South Branch Raritan River	x				None	1864					x			x							
				Spring supply	9 springs	x				None	1860					x			x							
Florence Township (Burlington)																										
Municipality	....	....	.300	Municipal	2 wells, 118-124′ deep, 18″ dia.	x				None	1931		x									x				
Florence Township (part)	800	3,800	....																							
Florence Township (Burlington)																										
John A. Roebling's Sons Co.	....	....	.300	John A. Roebling's Sons Co. (well supply)	1 well, 197′ deep, 12″ dia.	x				None	1925		x				x	x		x		x		x		x
Florence Township (part) (Roebling Vil.)	425	3,250	....	River supply	Delaware River				x	None	1905						x	x		x		x				
Florham Park Borough (Morris)																										
Municipality	....	....	.102	Municipal	1 well, 61′ deep, 10″ dia.	x				None	1928															
Florham Park	340	1,500	....																							
East Hanover Township (part)	12	25	....																							
Folsom Borough (Atlantic)	No public water supply																									
Fort Lee Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Frankford Township (Sussex)	No public water supply																									
Franklin Borough (Sussex)																										
Franklin Water Co.	....	....	.360	Franklin Pond	Wallkill River and Black Brook	x				Chemical and bacteriological—Daily	1931	x		x	x	x	x	x		x		x	x	x		
Franklin	922	4,176	....																							
Franklin Township (Gloucester)	No public water supply																									
Franklin Township (Hunterdon)	No public water supply																									
Franklin Township (Somerset)																										
See South Brunswick Township (Kingston Water Co.)																										
Also see New Brunswick (Municipal)																										
Franklin Township (Warren)	No public water supply																									
Franklin Lakes Borough (Bergen)																										
Tri-Corner Realty Corporation	....	....	.005	Tri-Corner Realty Co.	1 well, 125′ deep, 8″ dia.	x				None	....															
Franklin Lakes (part)	30	125	....																							
Fredon Township (Sussex)	No public water supply																									
Freehold Borough (Monmouth)																										
Municipality	....	....	.520	Municipal	9 wells, 200′ deep, 8″ dia.	x				None	1890															
Freehold (Borough)	1,773	7,000	....																							
Freehold Township (Monmouth)	No public water supply																									
Frelinghuysen Township (Warren)	No public water supply																									
Frenches Grove Water Co.																										
See Byram Township (Sussex)																										
Frenchtown Borough (Hunterdon)																										
Frenchtown Water Co.	....	....	.150	Frenchtown Water Co.	1 well, 286′ deep, 10″ dia.	x				Bacteriological—Monthly	....											x				
Frenchtown	374	1,197	....																							
Galloway Township (Atlantic)																										
See Egg Harbor City (Municipal)																										
Garfield City (Bergen)																										
Municipality	....	....	2.0	Municipal	15 wells, 290′-12″, 1 well, 500′-12″	x				None	1925											x				
East Paterson (wholesale)																										
Garfield	4,200	30,000	....	Municipal	12 wells, 310′ deep, 10″ dia.				x	None	1914							None								
South Hackensack Township (part)	14	75	....	Grant St. Well	1 well, 160′ deep, 10″ dia.				x	None	1900							None								
Saddle River Township (wholesale)																										
Garwood Borough (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
Gibbsboro Borough (Camden)																										
See Laurel Springs (Laurel Springs Water Works Co.)																										
Glassboro Borough (Gloucester)																										
Municipality	....	....	.284	Municipal	1 well, 654′ deep, 12″ dia.	x				None	1927											x				
Glassboro	1,141	4,000	....																							
Glen Gardner Borough (Hunterdon)																										
Glen Gardner Water Co.	....	....	.015	Glen Gardner Water Co.	2 springs	x				None	1893															
Glen Gardner (part)	120	375	....															None								
Glen Ridge Borough (Essex)																										
Municipality	....	....	.501	Municipal	Obtains water from North Jersey District Water Supply Commission.	x																				
Glen Ridge	1,850	8,000	....																							
Glen Rock Borough (Bergen)																										
See Ridgewood (Municipal)																										
Gloucester City (Camden)																										
Municipality	....	....	1.65	Municipal	5 wells, 170-240′ deep, 8-10-12″ dia.	x				None	1929		x		x	x				x		x				
Gloucester City	4,000	13,000	....																							
Gloucester Township (Camden)																										
Blackwood Water Co.	....	....	.065	Blackwood Water Co.	2 wells, 120-396′ deep, 6-8″ dia.	x				None	1904											x				
Gloucester Township (Blackwood Section)	385	2,000	....																							
Gloucester Township (Camden)																										
Grenloch Real Estate Co.	....	....	.040	Grenloch Real Estate Co.	2 wells, 165′ deep, 8″ dia.	x				None	1904											x				
Gloucester Township (Grenloch Section)	20	120	....																							
Washington Township (Gloucester) (part)	50	180	....																							
Green Township (Sussex)	No public water supply																									
Green Brook Township (Somerset)																										
See Elizabeth (Elizabethtown Water Co. Consolidated)																										
Greenwich Township (Cumberland)	No public water supply																									
Greenwich Township (Gloucester)																										
Municipality	....	....	.150	Municipal	1 well, 93′ deep, 12″ dia.	x				None	1929															
Greenwich Township (part)	347	1,280	....															None								
Greenwich Township (Gloucester)																										
E. I. du Pont de Nemours Co.	....	....	.055	E. I. du Pont de Nemours Co.	2 wells, 95-96′ deep, 8-12″ dia.	x				None	1918															
Greenwich Township (du Pont Village)	82	1,200	....															None								
Greenwich Township (Warren)																										
Stewartsville Water Co.	....	....	.015	Stewartsville Water Co.	1 well, 250′ deep, 8″ dia.	x				None	1934															
Greenwich Township (Stewartsville Section)	43	200	....																							
Grenloch Real Estate Co.																										
See Gloucester Township (Camden)																										
Guttenberg Town (Hudson)																										
See New Milford (Hackensack Water Co.)																										
Hackensack City (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Hackettstown (Warren)																										
Municipality	....	....	.400	Well supply	4 wells, 150′ deep, 6″ dia.	x				None	....								x			x				
Hackettstown	750	3,000	....	Mine Hill Brook	Mine Hill Brook	x				None	....	x							x			x				
Haddon Township (Camden)																										
Municipality	....	....	.250	Municipal	Buys water from Collingswood Borough	x																				
Haddon Township (part)	1,000	5,000	....																							
Haddon Township (Camden)																										
See Haddon Heights (New Jersey Water Co.)																										
Also see Collingswood (Municipal)																										
Haddon Heights Borough (Camden)																										
New Jersey Water Co.	....	....	2.00	Main Station	3 wells, 248-271′ deep, 8-12″ dia.	x				Bacteriological—Daily Chemical—Weekly	1924		x								x					x
Audubon Borough	2,564	9,125	....																							
Barrington Borough	524	2,255	....	Ashland Station	1 well, 405′ deep, 12″ dia.	x				Bacteriological—Daily Chemical—Weekly	1926								None							
Bellmawr Borough (part)	131	....	....																							
Camden (11 and 12 Wards)	6,209	24,774	....	Egbert Station	1 well, 202′ deep, 8″ dia.		x			Bacteriological—Daily Chemical—Weekly	1926		x								x					x
Delaware Township (part)	193	....	....																							
Haddonfield Borough (part)	149	....	....	Stockton Station	19 wells, 40-184′ deep, 4-6-8-10-12-26″ dia.	x				Bacteriological—Daily Chemical—Weekly	1895													x		
Haddon Township (part)	600	....	....																							
Haddon Heights Borough	1,614	5,675	....																							
Oaklyn Borough	1,090	3,875	....																							
Pennsauken Township (part)	442	....	....																							
Runnemede Borough	631	2,450	....																							
Voorhees Township (part)	20	....	....																							
Mt. Ephraim (wholesale)																										
Haddonfield Borough (Camden)																										
Municipality	....	....	.800	Municipal	4 wells, 222-280′ deep, 8-12-24″ dia.	x				None	1909		x					x		x					x
Haddonfield	2,600	9,000	....																							
Haddonfield Borough (Camden)																										
Also see Haddon Heights (New Jersey Water Co.)																										
Hainesport Township (Burlington)																										
See Mt. Holly (Mt. Holly Water Co.)																										
Haledon Borough (Passaic)																										
Municipality	....	....	.552	Molly Anns Brook	Molly Anns Brook	x				Chemical and bacteriological—Daily	1906	x	x	x	x	x	x	x		x		x	x	x	x	
Haledon	1,198	5,000	....	Franklin Lakes Brook	Franklin Lakes Brook				x	Chemical and bacteriological—Daily	....	x	x	x	x	x	x	x		x		x	x	x	x	
North Haledon	265	1,200	....																							
Paterson (part)	45	210	....																							
Wayne Township (part)	4	18	....																							
Totowa Borough (part)	3	9	....																							
Hamburg Borough (Sussex)																										
Municipality	....	....	.025	Municipal	3 wells, 170′ deep, 20-24″ dia.	x				None	1927											x				
Hamburg	174	1,160	....																							
Hamilton Township (Atlantic)																										
Municipality	....	....	.100	Municipal	3 wells, 207-243′ deep, 8-10″ dia.	x				None	1906-1921		x													
Hamilton Township (Mays Landing)	397	2,000	....																							
Weymouth Township (part)	53	....	....																							
Hamilton Township (Mercer)																										
Hamilton Square Water Co.	....	....	.008	Hamilton Square Water Co.	2 wells, 208′ deep, 8-12″ dia.	x				None	1921															
Hamilton Township (Hamilton Square Section)	297	900	....															None								
Hamilton Township (Mercer)																										
Pearl E. Cranmer	....	....	.003	Cranmer Supply	1 well, 75′ deep, 4″ dia.	x				None	1914															
Hamilton Township (White Horse Section)	9	40	....															None								
Hamilton Township (Mercer)																										
Andrew Gropp	....	....	.001	Andrew Gropp	2 wells, 80-85′ deep, 6″ dia.	x				None	1925															
Hamilton Township (White Horse Section)	28	75	....															None								
Hamilton Township (Mercer)																										
E. T. McGalliard	....	....	.008	E. T. McGalliard	Well	x				None	1925															
Hamilton Township (White Horse Section)	50	....	....															None								
Hamilton Township (Mercer)																										
Estate of W. V. McGalliard	....	....	.036	Estate of W. V. McGalliard	2 wells, 225′ deep, 8-10″ dia.	x				None	1908															
Hamilton Township (White Horse Section)	191	756	....															None								
Hamilton Township (Mercer)																										
Also see Trenton (Municipal)																										
Hammonton Town (Atlantic)																										
Municipality	....	....	.389	Municipal	3 wells, 314-320′ deep, 5-10″ dia.	x				None	1902		x													
Hammonton	1,500	6,500	....																							
Hampton Borough (Hunterdon)																										
Junction Water Co.	....	....	.078	Rocky Run Stream	12 springs	x				Bacteriological—Monthly	1898												x			
Hampton (part)	220	900	....	Well supply	1 well, 307′ deep, 8″ dia.				x	Bacteriological—Monthly	1915												x			

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Hampton Borough (Hunterdon)																										
Frank Riddle	....	....	.003	Frank Riddle	1 well, 65′ deep, 6″ dia.	x				None	1930								None							
Hampton (part)	16	50	....																							
Hampton Township (Sussex)	No public water supply																									
Hanover Township (Morris)																										
See Morristown																										
Hanover Water Co.																										
See Wrightstown																										
Harding Township (Morris)																										
See Morristown																										
Hardwick Township (Warren)	No public water supply																									
Hardyston Township (Sussex)	No public water supply																									
Harmony Township (Warren)	No public water supply																									
Harrison Town (Hudson)																										
Municipality	....	....	2.80	Municipal	Buys water from New Jersey Suburban Water Company	x																				
Harrison	2,584	15,600	....																							
Harrison Town (Hudson)																										
New Jersey Suburban Water Co.	....	....	....	New Jersey Suburban Water Co.	Buys water from Passaic Valley Water Commission																					
Harrison (wholesale)	....	....	....																							
Harrison Township (Gloucester)																										
South Jersey Water Supply Co.	....	....	.058	South Jersey Water Supply Co.	2 wells, 275′ deep, 8″ dia.	x				None	1901											x				
Harrison Township (Mullica Hill Section)	183	600	....																							
Harvey Cedars Borough (Ocean)																										
Municipality	....	....	*	Municipal	1 well, 503′ deep, 8″ dia.	x				None	1932								None							
Harvey Cedars	245	*	....																							
Long Beach Township (part)	1	*	....																							
Hasbrouck Heights Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Haskell Improvement Co.																										
See Wanaque																										
Haworth Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Hawthorne Borough (Passaic)																										
Municipality	....	....	.600	Municipal	8 wells, 210-310′ deep, 10″ dia.	x				Bacteriological—Weekly	1915											x				
Hawthorne	3,267	14,000	....																							
Wyckoff Township (part)	50	250	....																							
Helmetta Borough (Middlesex)																										
George W. Helme Co.	....	....	.021	George W. Helme Co.	2 wells, 26-36′ deep, 6-12″ dia.	x				None	1928								None							
Helmetta	119	748	....																							
High Bridge Borough (Hunterdon)																										
Municipality	....	....	.230	Willoughby Brook	Willoughby Brook	x				None	1908															
High Bridge	....	2,000	....	Bunnvale Intake	3 wells, 200-330′ deep, 6-8″ dia.				x	None	1936-'38											x x	x x		x x	
High Bridge Borough (Hunterdon)																										
Taylor-Wharton Iron & Steel Co.	....	....	....	Taylor Wharton Wells	2 wells, 63-100′ deep, 8″ dia.				x	None	1927								None							
High Bridge (part)	....	....	....																							
Highland Lakes																										
See Vernon Township (Sussex)																										
Highland Park Borough (Middlesex)																										
Municipality	....	....	.841	Municipal	Buys water from the City of New Brunswick	x																				
Highland Park	1,781	9,000	....																							
Highlands Borough (Monmouth)																										
Municipality	....	....	*	Municipal	3 wells, 213-687′ deep, 6-8″ dia.	x				None	1917		x							x						x
Highlands	....	*2,500	....																							
Hightstown Borough (Mercer)																										
Municipality	....	....	.350	Municipal	6 wells, 120′ deep, 6-8″ dia.	x				None	1895		x							x				x		x
Hightstown	850	3,000	....																							
Hillsborough Township (Somerset)	No public water supply																									
Hillsdale Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Hillside Township (Union)																										
See Elizabeth (Elizabethtown Water Co.)																										
See Summit (Commonwealth Water Co.)																										
Hi-Nella Borough (Camden)																										
See Laurel Springs (Laurel Springs Water Works Co.)																										
Hoboken City (Hudson)																										
Municipality	....	....	6.5	Municipal	Buys water from Jersey City	x																				
Hoboken	4,800	59,000	....																							
Hohokus Borough (Bergen)																										
Municipality	No information received from owner of this supply			Municipal	Buys water from Village of Ridgewood	x																				
Hohokus Township (Bergen)																										
Mahwah Water Co.	....	....	.075	Mahwah Water Co.	15 wells, 36-655′ deep, 8-10″ dia.	x				None	1912								None							
Hohokus Township (Mahwah Section)	492	1,800	....																							
Hohokus Township (Bergen)																										
Also see Ramsey (Municipal)																										
Also see Waldwick (Municipal)																										
Holland Township (Hunterdon)																										
Riegel Paper Corporation	....	....	.102	Riegel Paper Corp.	Hughes Brook	x				None	1890											x	x			
Holland Township (Hughesville Section)	23	115	....																							
Holmdel Township (Monmouth)	No public water supply																									
Hopatcong Borough (Sussex)																										
Morris & Sussex Water Service Inc.	....	....	*	Morris & Sussex Water Service Inc.	1 well, 251′ deep, 8″ dia.		x			None	1929								None							
Hopatcong (Hopatcong Park Estates)	50	200	....																							
Hope Township (Warren)	No public water supply																									
Hopewell Borough (Mercer)																										
Municipality	....	....	.060	Municipal	2 wells, 250-350′ deep, 8″ dia.	x				None	1916											x				
Hopewell	560	1,500	....																							
Hopewell Township (Cumberland)	No public water supply																									
Hopewell Township (Mercer)	No public water supply																									
Howell Township (Monmouth)																										
See Farmingdale (Municipal)																										
Ideal Beach Water Co.																										
See Middletown Township																										
Independence Township (Warren)	No public water supply																									
Interlaken Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Irvington Town (Essex)																										
Municipality	....	....	.024	Municipal	2 wells, 200-250′ deep, 10″ dia.	x				None	1936											x				
Irvington	....	2 schools hospital playground																								
Irvington Town (Essex)																										
See Summit (Commonwealth Water Co.)																										
Island Beach Borough (Ocean)	No public water supply																									
Island Heights Borough (Ocean)																										
Municipality	....	....	*	Municipal	2 wells, 368′ deep	x				None	1901		x									x				
Island Heights	400	*300	....																							
Jackson Township (Ocean)	No public water supply																									
Jamesburg Borough (Middlesex)																										
Jamesburg Water Co.	....	....	.060	Jamesburg Water Co.	5 wells, 70-126′ deep, 4-6″ dia.	x				Bacteriological—Monthly	1911								None							
Jamesburg	489	2,048	....																							
Jefferson Township (Morris)																										
Cozy Lake Estates, Inc.	....	....	*	Cozy Lake Estates	1 well, 74′ deep, 6″ dia.		x			None	....								None							
Jefferson Township (Cozy Lake)	36	*	....																							
Jefferson Township (Morris)																										
Prospect Point Water Co.	....	....	*	Prospect Point Water Co.	1 well, 349′ deep, 6″ dia.		x			None	1924								None							
Jefferson Township (Prospect Point-Lake Hopatcong)	80	*320	....																							
Jersey City (Hudson)																										
Municipality	....	....	51.5	Municipal	Rockaway River	x				Bacteriological—Daily Microscopic—Weekly Chemical—Daily	1904				x							x	x			
Jersey City	....	316,000	....																							
Hoboken (wholesale)	....	....	....																							
North Arlington (wholesale)	....	....	....																							
Lyndhurst Township (wholesale)	....	....	....																							
Clifton (wholesale)	....	....	....																							
Jersey Homesteads Borough (Monmouth)																										
Municipality	....	....	.042	Municipal	2 wells, 444-464′ deep, 6-10″ dia.	x				Partial chemical—Monthly	1936		x	x				x		x			x		x
Jersey Homesteads	133	490	....																							
Junction Water Co.																										
See Hampton																										
Keansburg Borough (Monmouth)																										
Municipality	....	....	*	Municipal	2 wells, 354-365′ deep, 4-6″ dia.	x				None	1925		x				x	x		x					x
Keansburg	2,300	*2,500	....																							
West Keansburg Water Co. (wholesale)	2	....	....																							
Kearny Town (Hudson)																										
Municipality	....	....	6.5	Municipal	Obtains water from North Jersey District Water Supply Commission	x																				
Kearny	7,000	43,000	....																							
East Newark (wholesale)	....	....	....																							
Kenilworth Borough (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
Keyport Borough (Monmouth)																										
Municipality	....	....	.320	Municipal	3 wells, 276-300′ deep, 5-6″ dia.	x				None	....		x							x						x
Keyport	1,544	4,900	....																							
Matawan Township (wholesale)	....	....	....																							
Kimble Glass Co.																										
See Vineland																										
Kingston Water Co.																										
See South Brunswick Township																										
Kingwood Township (Hunterdon)	No public water supply																									
Kinnelon Borough (Morris)	No public water supply																									
Knowlton Township (Warren)	No public water supply																									
Lacey Township (Ocean)	No public water supply																									
Lafayette Township (Sussex)																										
See Newton (Municipal)																										
Lake Mohawk																										
See Sparta Township																										
Lake Wallkill																										
See Vernon Township																										
Lakehurst Borough (Ocean)																										
Municipality	....	....	.024	Municipal	3 wells, 24-1,027′ deep, 6-8-12″ dia.	x				None	1930								None							
Lakehurst	190	900	....																							
Lakeside Park Water Co.																										
See Voorhees Township																										
Lakewood Township (Ocean)																										
Lakewood Water Co.	....	....	*	Power Plant Wells	3 wells, 615′ deep, 6″ dia.	x				None	1900		x	x								x	x			
Lakewood Township (part)	2,027	*7,869	....	Manetta Springs	4 springs	x				None	1900			x								x	x			
Lambertville City (Hunterdon)																										
Lambertville Water Co.	....	....	.300	Lambertville Water Co.	Swan Creek	x				None	1876	x		x		x			x			x	x		x	
Lambertville	1,051	4,520	....																							
Landis Township (Cumberland)																										
See Vineland (Municipal)																										

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Laurel Springs Borough (Camden)																										
Laurel Springs Water Works Co.	....	....	.556	Grand Ave.	16 wells, 125′ deep, 8″ dia.	x				Bacteriological—Monthly	1907											x				
Gibbsboro	53	265	....																							
Hi-Nella	52	260	....	Magnolia	1 well, 100′ deep, 8″ dia.				x		1938	This supply in process of development														
Laurel Springs	480	2,400	....																							
Lawnside	58	290	....																							
Lindenwold	354	1,770	....																							
Magnolia	449	2,245	....																							
Somerdale	418	2,090	....																							
Stratford	293	1,465	....																							
Voorhees Township (part)	8	40	....																							
Lakeside Park Water Co. (wholesale)	....	....	....																							
Lavallette Borough (Ocean)																										
Municipality	....	....	*	Municipal	2 wells, 1,180-1,500′ deep, 4-14″ dia.	x				None	1925											x				
Lavallette	552	* 350	....																							
Dover Township (West Point Island)	12	*	....																							
Lawnside Borough (Camden)																										
See Laurel Springs (Laurel Springs Water Works Co.)																										
Lawrence Township (Cumberland)	No public water supply																									
Lawrence Township (Mercer)																										
Lawrenceville Water Co.	....	....	.033	Well No. 4 (Green Ave.)	1 well, 155′ deep, 12″ dia.	x				None	1938											x				
Lawrence Township (Lawrenceville Section)	192	800	....	Well No. 3 (Green Ave.)	1 well, 110′ deep, 8″ dia.	x				None	1932											x				
				Well No. 2 (Phillips Ave.)	1 well, 229′ deep, 8″ dia.				x	None	1924											x				
Lawrence Township (Mercer)																										
Also see Trenton (Municipal)																										
Lebanon Borough (Hunterdon)																										
See Clinton (Beaver Brook Water Co.)																										
Lebanon Township (Hunterdon)	No public water supply																									
Leonia Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Liberty Township (Warren)	No public water supply																									
Lincoln Park Borough (Morris)																										
Wm. C. Christopherson	....	....	.010	Wm. C. Christopherson	1 well, 130′ deep, 6″ dia.	x				None	1918											x				
Lincoln Park (part)	20	75	....																							
Lincoln Park Borough (Morris)																										
Chas. N. Evans Development Water Co.	....	....	.008	Chas. N. Evans Development Water Co.	2 wells, 50-115′ deep, 6-8″ dia.	x				None	1918-'34								None							
Lincoln Park (part)	58	200	....																							
Lincoln Park Borough (Morris)																										
Lincoln Park Water Co.	....	....	.025	Lincoln Park Water Co.	1 well, 115′ deep, 8″ dia.	x				None	1916								None							
Lincoln Park (part)	50	200	....		1 well, 109′ deep, 5″ dia.	x				None	1932								None							
Lincoln Park Borough (Morris)																										
Mountain Heights Water Co.	....	....	*	Mountain Heights Water Co.	1 well		x			None	....								None							
Lincoln Park (part)	13	* 50	....																							
Lincoln Park Borough (Morris)																										
Mountain View Water Co.	....	....	.040	Mountain View Water Co.	1 well, 214′ deep, 6″ dia.	x				None	1921								None							
Lincoln Park (part)	110	440	....																							
Wayne Township (part)	115	345	....																							
Linden City (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
Also see Elizabeth (Elizabethtown Water Co., Consolidated)																										
Lindenwold Borough (Camden)																										
See Laurel Springs (Laurel Springs Water Works Co.)																										
Also see Clementon (Municipal)																										
Linwood City (Atlantic)																										
See Pleasantville (Atlantic County Water Co.)																										
Little Egg Harbor Township (Ocean)	No public water supply																									
Little Falls Township (Passaic)																										
New Jersey Water Service Co.	....	....	.284	New Jersey Water Service Co.	Buys water from Passaic Valley Water Commission and Town of Montclair	x																				
Little Falls Township	1,403	....	....																							
West Paterson (part)	416	....	....																							
West Paterson (wholesale)	....	....	....																							
Cedar Grove Township (wholesale)	....	....	....																							
Little Ferry Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Little Silver Borough																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Also see Red Bank (Municipal)																										
Livingston Township (Essex)																										
Municipality	....	....	.207	Municipal	Buys water from Commonwealth Water Company																					
Livingston Township	1,274	5,000	....																							
Lodi Borough (Bergen)																										
Municipality	....	....	.700	Municipal	7 wells, 350′ deep, 8-10-12″ dia.	x				None	1908								None							
Lodi	2,000	12,000	....																							
Lodi Borough (Bergen)																										
Also see New Milford (Hackensack Water Co.)																										
Logan Township (Gloucester)																										
Bridgeport Water Co.	....	....	.035	Bridgeport Water Co.	1 well, 40′ deep, 8″ dia.	x				None	1907-'08								None							
Logan Township (part)	125	500	....																							
Long Beach Township (Ocean)																										
Municipality	....	....	*	Municipal	1 well, 450′ deep, 6″ dia.	x				None	1939								None							
Long Beach Township (below Beach Haven)	90	*																								
Long Beach Township (Ocean)																										
Long Beach Water Co.	....	....	*	Long Beach Water Co.	1 well, 617′ deep, 8″ dia.	x				None	1927		x								x					x
Long Beach Township	750	*3,000	....																							
Long Beach Township (Ocean)																										
Also see Harvey Cedars (Municipal)																										
Long Branch City (Monmouth)																										
Monmouth Consolidated Water Co.	....	....	*	Swimming River (Newman Springs)	Hop Brook and Yellow Brook	x				Bacteriological and chemical—Daily	1903	x		x	x		x	x		x		x		x	x	
Asbury Park (part)	2,106	* 5,500	....																							
Bradley Beach Borough	1,032	* 3,400	....																							
Deal Borough	522	* 900	....	Jumping Brook Station	2 wells, 1,082-1,085′ deep, 10″ dia.		x			Bacteriological and chemical—Daily	1913-'21				x		x	x		x	x			x	x
Eatontown Borough	378	* 2,200	....																							
Fair Haven Borough (part)	657	* 2,300	....																							
Interlaken Borough	259	* 650	....	Jumping Brook	Kisners Pond (Jumping Brook and Shark River)		x			Bacteriological and chemical—Daily	1907				x		x	x		x	x			x	
Little Silver Borough	360	* 1,600	....																							
Long Branch City	5,027	*20,000	....																							
Middletown Township (part)	2,088	*12,000	....	Hoyes Pond (West End Station)	Whalepond Brook		x			Bacteriological and chemical—Daily	1897			x	x		x	x		x		x			
Monmouth Beach Borough	374	* 400	....																							
Neptune City Borough	736	* 2,500	....																							
Neptune Township (including Ocean Grove)	3,754	*13,000	....	Whitesville Station	2 wells, 610-981′ deep, 16-18″ dia.		x			Bacteriological and chemical—Daily	1923				x		x			x		x			x
Ocean Township	1,380	* 3,500	....																							
Oceanport Borough	281	* 2,200	....																							
Red Bank Borough (part)	27	* 100	....	Ocean Grove	19 wells, 450-600′ deep, 4-8″ dia.				x	None	1900								None							
Rumson Borough	944	* 2,500	....																							
Sea Bright Borough	425	* 1,300	....																							
Shrewsbury Township	136	* 1,100	....																							
Shrewsbury Borough	258	* 900	....																							
West Long Branch Borough	556	* 2,000	....																							
Long Valley Supplies																										
See Washington Township (Morris)																										
Longport Borough (Atlantic)																										
Municipality	....	....	*	Municipal	1 well, 800′ deep, 6″ dia.	x				None	1939											x				
Longport	221	* 350	....																							
Lopatcong Township (Warren)																										
Lopatcong Water Co.	....	....	1.0	Lopatcong Water Co.	Merrill Brook	x				Bacteriological—Weekly	1908											x	x			
Lopatcong Township (part)	....	....	....																							
Lopatcong Township																										
See Phillipsburg (Peoples Water Co.)																										
Lower Township (Cape May)																										
See Cape May City (Municipal)																										
Also see Cape May Point (Municipal)																										
Lower Alloways Creek Township (Salem)	No public water supply																									
Lower Penns Neck Township (Salem)																										
E. I. du Pont de Nemours & Co.	....	....	.367	E. I. du Pont de Nemours & Co.	2 wells, 330-345′ deep, 5-8″ dia.	x				None	1918-'28											x				
Lower Penns Neck Township (Deepwater Village)	97	300	....																							
Lower Penns Neck Township (Salem)																										
Regina R. Weinberg	....	....	....	Regina R. Weinberg	2 wells, 40-52′ deep, 6″ dia.	x				None	1928								None							
Lower Penns Neck Township (part)	21	45	....																							
Lumberton Township (Burlington)																										
Lumberton Water & Sewage Co.	....	....	.018	Lumberton Well Supply	1 well, 404′ deep, 6″ dia.	x				None	1905								None							
Lumberton Township	150	500	....	Surface supply	South Branch Rancocas Creek				x	None	1905								Emergency							
Lumberton Township																										
See Mt. Holly (Mt. Holly Water Co.)																										
Lyndhurst Township (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Lyndhurst Township (Bergen)																										
Municipality	....	....	1.04	Municipal	Buys water from Jersey City	x																				
Lyndhurst	3,600	18,500	....																							
Madison Borough (Morris)																										
Municipality	....	....	.650	Municipal	11 wells, 83-168′ deep, 6-8-10″ dia.	x				Partial—Semi-annually	1891								None							
Madison	1,919	8,500	....																							
Madison Township (Middlesex)	No public water supply																									
Magnolia Borough (Camden)																										
See Laurel Springs (Laurel Springs Water Works Co.)																										
Mahwah Water Co.																										
See Hohokus Township																										
Manalapan Township (Monmouth)	No public water supply																									
Manasquan Borough (Monmouth)																										
Municipality	....	....	*	Municipal	3 wells, 110-120′ deep, 6-8″ dia.	x				Partial chemical—Monthly	1903	x	x		x											x
Manasquan	1,608	*2,920	....																							
Manchester Township (Ocean)	No public water supply																									
Mannington Township (Salem)	No public water supply																									
Mansfield Township (Burlington)																										
Columbus Water Co.	....	....	.060	Columbus Water Co.	2 wells, 212-230′ deep, 6″ dia.	x				None	1910											x				
Mansfield Township (Columbus Section)	33	200	....																							
Mansfield Township (Warren)																										
See Washington Township (Lula Birdsall)																										
Mantoloking Borough (Ocean)																										
See Bay Head (Ocean County Water Co.)																										
Mantua Township (Gloucester)																										
Mantua Water Co.	....	....	.033	Mantua Water Co.	2 wells, 204-205′ deep, 4-5″ dia.	x				None	1924											x				
Mantua Township (part)	210	1,500	....																							
Mantua Township (Gloucester)																										
Sewell Water Co.	....	....	.040	Sewell Water Co.	3 wells, 85-91′ deep, 6-8″ dia.	x				None	1911											x				
Mantua Township (Sewell Section)	100	400	....																							
Manville Borough (Somerset)																										
Municipality	....	....	.327	Municipal	7 wells, 125′ deep, 12″ dia.	x				None	1932											x				
Manville	750	7,500	....																							
Maple Shade																										
See Chester Township (Burlington)																										
Maplewood Township (Essex)																										
See Summit (Commonwealth Water Co.)																										
Margate City City (Atlantic)																										
Municipality	....	....	*	Municipal	3 wells, 815′ deep, 6″ dia.	x				None	1903	x														
Margate City	1,398	*3,300	....																							

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Marlboro Township (Monmouth)	No public water supply																									
Marlton Water Co.																										
See Evesham Township																										
Matawan Borough (Monmouth)																										
Municipality	....	....	*	Municipal	2 wells, 265′ deep, 8″ dia.	x				None	1903		x								x			x		x
Matawan Borough	700	*3,000	....																							
Matawan Township (part)	200	....	....																							
Matawan Township (Monmouth)																										
Municipality	....	....	....	Municipal	Buys water from Borough of Keyport	x																				
Matawan Township	130	650	....																							
Cliffwood Beach Water Co. (wholesale)	....	....	....																							
Matawan Township (Monmouth)																										
Also see Matawan Borough																										
Matawan Township (Monmouth)																										
Cliffwood Beach Water Co.	....	....	*	Cliffwood Beach Water Co.	Buys water from Matawan Township																					
Matawan Township (Cliffwood Beach)	297	* 400	....																							
Madison Township (part)	....	....	....																							
Maurice River Township (Cumberland)	No public water supply																									
Mays Landing																										
See Hamilton Township (Atlantic)																										
Maywood Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Medford Lakes Borough (Burlington)	No public water supply																									
Medford Township (Burlington)																										
Medford Water Co.	....	....	.062	Medford Water Co.	2 wells, 538-540′ deep, 6-8″ dia.	x				None	1926															
Medford Township (part)	322	1,200	....		South Branch Rancocas Creek				x	None	....								None							
Medford Township (Burlington)																										
Estate Thomas Murray	....	....	*	Murray Estate	1 well, 217′ deep, 8″ dia.	x				None	1927											x				
Medford Township (Taunton Lakes)	40	* 10	....																None							
Mendham Borough (Morris)																										
Municipality	....	....	.080	Municipal	3 springs	x				None	1908					x						x	x			
Mendham Borough	295	1,300	....		Indian Brook		x			None	1923					x			x			x	x			
Mendham Township (part)	24	100	....																							
Mendham Township (Morris)																										
See Mendham Borough																										
Also see Morristown																										
Merchantville Borough (Camden)																										
Merchantville-Pennsauken Water Commission	....	....	1.0	Park Ave. Well Field	12 wells, 115-266′ deep, 8-14″ dia.	x				Bacteriological—Monthly Partial chemical—Weekly	1905		x			x					x			x	x	x
Merchantville	1,103	5,000	....																							
Pennsauken Township (part)	4,135	18,000	....																							
Camden City (part)	257	1,000	....	Delaware Gardens Well	1 well, 144′ deep, 38″ dia.			x	x	Bacteriological and chemical—Quarterly	1925								None							
Delaware Township (part)	568	2,000	....																							
Metuchen Borough (Middlesex)																										
See Woodbridge Township (Middlesex Water Co.)																										
Middle Township (Cape May)																										
Neptunus Water Co.	....	....	.048	Neptunus Water Co.	3 wells, 42-46′ deep, 6″ dia.	x				Bacteriological—Monthly	....													x		
Middle Township (Cape May Court House)	236	1,500	....																							
Middle Township (Cape May)																										
Also see Wildwood (Municipal)																										
Middlesex Borough (Middlesex)																										
See Bound Brook (Bound Brook Water Co.)																										
See Elizabeth (Elizabethtown Water Co. Consolidated)																										
Middlesex Water Co.																										
See Woodbridge Township																										
Middletown Township (Monmouth)																										
Ideal Beach Water Co.	....	....	*	Ideal Beach Water Co.	3 wells, 156-635′ deep, 6-12″ dia.	x				None	1909		x		x						x	x				x
Middletown Township (Ideal Beach)	653	*1,500	....																							
Middletown Township																										
Also see Long Branch (Monmouth Consolidated Water Co.)																										
Midland Park Borough (Bergen)																										
See Ridgewood (Municipal)																										
Milford Borough (Hunterdon)																										
Municipality	....	....	.050	Municipal	Circular well, 20′ deep, 15′ dia.	x				None	1911											x				
Milford	160	500	....		Driven well, 100′ deep, 8″ dia.	x				None	....								None							
Milford Borough (Hunterdon)																										
Riegel Paper Corp.	....	....	1.44	Riegel Paper Corp.	7 wells, 40′ deep, 8′ dia.	x				None	1909											x				
Milford (part)	86	430	....																							
Millburn Township (Essex)																										
See Summit (Commonwealth Water Co.)																										
Millstone Borough (Somerset)	No public water supply																									
Millstone Township (Monmouth)	No public water supply																									
Milltown Borough (Middlesex)																										
Municipality	....	....	.095	Municipal	Buys water from City of New Brunswick	x																				
Milltown	788	2,967	....																							
Millville City (Cumberland)																										
Municipality	....	....	1.4	Municipal	9 wells, 94-121′ deep, 4-6-8″ dia.	x				Bacteriological—Occasionally	1906								None							
Millville	1,143	15,000	....																							
Millville City (Cumberland)																										
Millville Water Co.	....	....	1.5	Millville Water Co.	Union Lake	x				Physical and bacteriological—Weekly	1880	x				x	x			x		x				
Millville	3,018	14,705	....																							
Mine Hill Township (Morris)																										
Bassett Park Association	....	....	....	Bassett Park Association	1 well, 101′ deep, 10″ dia.	x				None	1925															
Mine Hill Township (Bassett Park Section)	60	....	....																None							
Mine Hill Township (Morris)																										
Also see Wharton																										
Monmouth Beach Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Monmouth Consolidated Water Co.																										
See Long Branch																										
Monroe Township (Gloucester)																										
Municipality	....	....	.080	Bluebell St. Well No. 1	1 well, 105′ deep, 8″ dia.			x	x	None	1903								None							
Monroe Township (Williamstown Section)	479	2,500	....	Bluebell St. Well No. 2	1 well, 130′ deep, 10″ dia.	x				None	1936								None							
				Washington Ave.	1 well, 105′ deep, 8″ dia.	x				None	1920								None							
Monroe Township (Middlesex)	No public water supply																									
Montague Township (Sussex)	No public water supply																									
Montclair Town (Essex)																										
Municipality	....	....	3.6	Municipal	Obtains water from North Jersey District Water Supply Commission	x																				
Montclair	9,375	50,000	....																							
Clifton	....	150	....																							
Clifton (wholesale)	....	....	....																							
Cedar Grove Township (wholesale)	....	....	....																							
New Jersey Water Service Co. (wholesale)	....	....	....																							
Montgomery Township (Somerset)	No public water supply																									
Montvale Borough (Bergen)																										
Municipality	....	....	.031	Municipal	Buys water from Borough of Park Ridge	x																				
Montvale (part)	200	1,600	....																							
Montvale Borough (Bergen)																										
Park Land Water Co.	....	....	.018	Park Land Water Co.	Buys water from Borough of Park Ridge	x																				
Montvale (part)	85	....	....																							
Montville Township (Morris)	No public water supply																									
Moonachie Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Moorestown Township (Burlington)																										
Municipality	....	....	.499	Municipal	2 wells, 304-372′ deep, 12″ dia.	x				Bacteriological and partial chemical—Daily	1889		x			x	x		x			x			x	x
Moorestown	....	7,500	....																							
Morris Township (Morris)																										
See Morristown																										
Morris & Sussex Water Service, Inc.																										
See Hopatcong																										
Also see Mt. Arlington																										
Morris Plains Borough (Morris)																										
See Morristown																										
Morristown Town (Morris)																										
Municipality	5,200	....	1.13	Normandy	6 wells	x				Bacteriological—Daily	1891															x
Morristown	....	15,200	....	Littleton	1 well, 68′ deep, 24″ dia.	x				Bacteriological—Daily	1903								None							
Morris Township	....	5,400	....	Jockey Hollow	Brookside Reservoir	x				Bacteriological—Daily	1926					x						x	x		x	
Morris Plains Borough	....	1,500	....	Brookside Reservoir	Harmony Brook	x				Partial chemical—Weekly Microscopic—Weekly	1930	x				x						x	x	x	x	
Hanover Township	....	1,500	....																							
Mendham Township	....	400	....																							
Harding Township	....	250	....																							
Parsippany-Troy Hills Township	....	10	....																							
Mount Arlington Borough (Morris)																										
Helen T. Cronin	....	....	*	Cronin Supply	1 well, 270′ deep, 6″ dia.		x			None	1926								None							
Mount Arlington (part)	12	*	....																							
Mount Arlington Borough (Morris)																										
Morris & Sussex Water Service Inc.	....	....	*	Lake Rogerene	1 well, 91′ deep, 8″ dia.	x				None	....								None							
Mount Arlington (Lake Rogerene)	81	*	....																							
Mount Ephraim Borough (Camden)																										
Municipality	....	....	.380	Municipal	Buys water from New Jersey Water Co. (Haddon Heights)	x																				
Mount Ephraim	....	2,400	....																							
Mount Holly Township (Burlington)																										
Mount Holly Water Co.	....	....	.314	Well supply	2 wells, 365-370′ deep, 10″ dia.	x				Bacteriological and partial chemical—Weekly	1926		x			x		x			x				x
Mount Holly Township	1,960	7,000	....																							
Hainesport (part)	33	140	....																							
Lumberton Township (part)	15	60	...	Rancocas Creek	Rancocas Creek				x	None	....					x	x	x			x			x		
Mount Laurel Township (Burlington)	No public water supply																									
Mount Olive Township (Morris)																										
A. H. Bartley	....	....	.002	Bartley Supply	Springs	x				None	1887											x				
Mount Olive Township (Bartley Section)	14	50	....																None							
Mount Olive Township (Morris)																										
Harry R. H. Nicholas	....	....	.003	Nicholas Supply	2 springs	x				None	1928															
Mount Olive Township (Flanders Section)	18	66	...																None							
Mount Olive Township (Morris)																										
Budd Lake Manor Corp.	....	....	*	Budd Lake Manor	10 springs	x				None	1931											x				
Mount Olive Township (Budd Lake)	18	*	....																							
Mount Olive Township (Morris)																										
Estate of Aaron S. Hulse	....	....	*	Estate of Aaron S. Hulse	1 well, 224′ deep, 8″ dia.	x				None	....								None							
Mount Olive Township (part)	10	*	....																							
Mount Olive Township (Morris)																										
Pinecrest Improvement Association	....	....	*	Pinecrest Improvement Association	1 well		x			None	1937								None							
Mount Olive Township (Budd Lake)	95	*	....		5 springs				x	None	....											x				
Mount Olive Township (Morris)																										
Arthur Reid	....	....	*	Arthur Reid	2 springs		x			None	1924								None							
Mount Olive Township (Budd Lake)	22	*	....																							
Mount Olive Township (Morris)																										
Stonwald Park Association, Inc.	....	....	*	Stonwald Park Association	3 wells, 22′ deep, 1½″ dia.		x			None	1922								None							
Mount Olive Township (Budd Lake)	34	*	....																							
Mount Olive Township (Morris)																										
West Jersey Water Service Inc.	....	....	*	Country Club Estates	1 well, 341′ deep, 8″ dia.	x				None	1920											x				
Mount Olive Township (Country Club Est., Budd Lake)	110	*	....		1 well, 50′ deep, 6″ dia.		x			None	1936								None							

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Mountain Lakes Borough (Morris)																										
Municipality	....	....	.125	Municipal	2 wells, 50′ deep, 24″ dia.	x				None	1929											x		x		
Mountain Lakes	571	2,325	....																							
Boonton Township (part)	14	100	....																							
Parsippany-Troy Hills Township (part)	10	75	....																							
Mountainside Borough (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
Mullica Hill																										
See Harrison Township (South Jersey Water Supply Co.)																										
Mullica Township (Atlantic)	No public water supply																									
National Park Borough (Gloucester)																										
Municipality	....	....	.070	Municipal	2 wells, 80-90′ deep, 8″ dia.	x				None	1925							None								
National Park	560	1,822	....																							
West Deptford Township (part)	12	50	....																							
Neptune Township (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Neptune City Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Neptunus Water Co.																										
See Middle Township (Cape May)																										
Netcong Borough (Morris)																										
Municipality	....	....	....	Municipal	2 wells, 75-85′ deep, 12″ dia.	x				None	1900									x						x
Netcong	....	2,100	....																							
New Brunswick City (Middlesex)																										
Municipality	....	....	6.5	Municipal	Lawrence Brook	x				Partial chemical and bacteriological—Daily	1867	x	x	x	x	x	x	x		x	x	x	x	x	x	
New Brunswick	6,850	....	....																							
Franklin Township	150	....	....																							
Highland Park (wholesale)	....	....	....																							
Milltown (wholesale)	....	....	....																							
North Brunswick Township (wholesale)	....	....	....																							
New Hanover Township (Burlington)	No public water supply																									
New Jersey Suburban Water Co.																										
See Harrison																										
New Jersey Water Co.																										
See Haddon Heights																										
New Jersey Water Service Co.																										
See Little Falls																										
New Jersey Zinc Co.																										
See Franklin (Franklin Water Co.)																										
New Milford Borough (Bergen)																										
Hackensack Water Co.	....	....	31.6	Hackensack Water Co.	Hackensack River and tributaries	x				Physical, chemical, microscopic and bacteriological—Daily	1869	x		x	x	x	x			x		x		x	x	
Alpine	100	521	....																							
Bendix	6	26	....																							
Bergenfield	2,510	8,816	....																							
Bogota (part)	1,363	4,341	....																							
Carlstadt	1,191	5,425	....																							
Cliffside Park	2,586	15,267	....																							
Closter	669	2,502	....																							
Cresskill	574	1,924	....																							
Demarest	288	1,013	....																							
Dumont	1,708	5,861	....																							
East Rutherford	1,341	7,080	....																							
Edgewater	636	4,089	....																							
Emerson	314	1,394	....																							
Englewood	3,894	17,805	....																							
Englewood Cliffs	171	809	....																							
Fairview	1,374	9,067	....																							
Fort Lee	1,862	8,759	....																							
Guttenberg	911	6,535	....																							
Hackensack	4,003	24,568	....																							
Harrington Park	344	1,251	....																							
Hasbrouck Heights	1,579	5,638	....																							
Haworth	362	1,042	....																							
Hillsdale	746	2,959	....																							
Leonia	1,328	5,350	....																							
Little Ferry	908	4,155	....																							
Lodi Borough (part)	7	28	....																							
Lyndhurst (part)	10	40	....																							
Maywood	1,005	3,398	....																							
Moonachie	245	1,465	....																							
New Milford	785	2,556	....																							
North Bergen	6,314	40,714	....																							
Northvale	229	1,144	....																							
Norwood	356	1,358	....																							
Oradell	708	2,360	....																							
Palisades Park	1,328	7,065	....																							
Paramus	212	2,649	....																							
Ridgefield	1,198	4,671	....																							
Ridgefield Park	2,560	10,764	....																							
River Edge	709	2,210	....																							
Rivervale	161	....	....																							
Rochelle Park	554	1,768	....																							
Rutherford	3,777	14,915	....																							
Secaucus	1,307	6,450	....																							
South Hackensack Township	207	1,294	....																							
Teaneck Township	5,559	16,513	....																							
Tenafly	1,799	5,669	....																							
Union City	6,242	58,659	....																							
Wallington (part)	9	36	....																							
Washington Township (part)	51	402	....																							
Weehawken	1,714	14,807	....																							
West New York	3,786	37,107	....																							
Westwood	1,323	4,861	....																							
Wood-Ridge	1,428	5,159	....																							
New Providence Borough (Union)																										
See Summit (Commonwealth Water Co.)																										
New Providence Township (Union)																										
See Summit (Commonwealth Water Co.)																										
Newark City (Essex)																										
Municipality	....	....	56.9	Pequannock System	Pequannock River	x				Bacteriological—Daily Microscopic—Daily Chemical—Monthly	1892	x	x	x	x	x		x			x	x		x		
Newark	....	458,000	....		Obtains water from North Jersey District Water Supply Commission																					
Belleville (wholesale)	....	....	....																							
Bloomfield (wholesale)	....	....	....																							
Elizabeth (wholesale)	....	....	....																							
Hillside Township (wholesale)	....	....	....																							
Wayne Township (wholesale)	....	....	....																							
Newfield Borough (Gloucester)																										
Municipality	....	....	.050	Municipal	2 wells, 137′ deep, 8″ dia.	x				None	1936							None								
Newfield	187	1,000	....																							
Newton Town (Sussex)																										
Municipality	....	....	.470	Municipal	Morris Lake	x				None	1895	x			x							x				
Newton	1,385	5,200	....																							
Lafayette Township (part)	9	100	....																							
Sparta Township (part)	12	100	....																							
North Arlington Borough (Bergen)	No information received from owner of this supply				Buys water from City of Jersey City																					
Municipality																										
North Bergen Township (Hudson)																										
See New Milford (Hackensack Water Co.)																										
North Brunswick Township (Middlesex)																										
Municipality	....	....	.300	Municipal	Buys water from City of New Brunswick	x																				
North Brunswick Township	561	2,050	....																							
North Caldwell Borough (Essex)																										
Municipality	....	....	.040		Buys water from Borough of West Caldwell and Essex Fells																					
North Caldwell	160	1,492	....																							
North Cape May Borough (Cape May)	No public water supply																									
North Haledon Borough (Passaic)																										
See Haledon (Municipal)																										
North Hanover Township (Burlington)	No public water supply																									
North Jersey District Water Supply Commission																										
See Wanaque																										
North Plainfield Borough (Somerset)																										
See Plainfield (Plainfield-Union Water Co.)																										
North Wildwood City (Cape May)																										
See Wildwood (Municipal)																										
Northfield City (Atlantic)																										
See Pleasantville (Atlantic County Water Co.)																										
Northvale Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Norwood Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Nutley Town (Essex)																										
Municipality	....	....	1.21		Buys water from Passaic Valley Water Commission	x																				
Nutley	....	23,000	....																							
Clifton	32	125	....																							
Oakland Borough (Bergen)																										
Municipality	....	....	*	Municipal	Spring	x				None	1936							None								
Oakland	200	* 700	....		2 wells, 90-190′ deep, 8″ dia.				x	None	....							None								
Oaklyn Borough (Camden)																										
See Haddon Heights (New Jersey Water Co.)																										
Ocean Township (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Ocean Township (Ocean)	No public water supply																									
Ocean City City (Cape May)																										
Ocean City Water Service Co.	....	....	*	10th St. and Bay Station	1 well, 840′ deep, 8″ dia.	x				Bacteriological—Monthly	1910		x													
Ocean City	4,836	*5,500	....	10th St. and Haven	1 well, 840′ deep, 6″ dia.		x			Bacteriological—Monthly	1908		x													
				3rd and West	1 well, 825′ deep, 8″ dia.		x			Bacteriological—Monthly	1922		x									x				
				35th and Asbury	1 well, 825′ deep, 8″ dia.		x			Bacteriological—Monthly	1923		x													
				52nd and Asbury	1 well, 840′ deep, 8″ dia.				x	Bacteriological—Monthly	1924							None								
				9th and Simpson	1 well, 840′ deep, 6″ dia.		x			Bacteriological—Monthly	....		x													
				11th and West	1 well, 840′ deep, 8″ dia.		x			Bacteriological—Monthly	....		x													
Ocean Gate Borough (Ocean)																										
Municipality	....	....	*	Municipal	2 wells, 370′ deep, 6-8″ dia.	x				None	1936							None								
Ocean Gate	470	*1,880	....																							
Berkeley Township (part)	15	* 60	....																							
Ocean Grove																										
See Neptune Township																										
Oceanport Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Ogdensburg Borough (Sussex)																										
Municipality	....	....	.050	Municipal	Heater Pond	x				Bacteriological—Twice weekly Chemical and physical—Daily	1919	x	x		x	x	x			x	x		x	x		
Ogdensburg	275	1,100	....																							

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Old Tappan Borough (Bergen)	No public water supply																									
Oldmans Township (Salem)																										
See Penns Grove (Penns Grove Water Supply Co.)																										
Oradell Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Orange City (Essex)																										
Municipality	....	....	2.85	Well supply	2 wells, 49-132′ deep, 24″ dia.	x				Bacteriological and partial chemical—Daily	....		x	x		x				x		x	x	x	x
Orange	....	37,300	....	Surface supply	West Branch of Rahway River	x				Bacteriological and partial chemical—Daily	1883	x	x	x	x	x				x		x	x	x	
Owens-Illinois Glass Co.																										
See Bridgeton																										
Oxford Township (Warren)																										
Alan Wood Steel Co.	....	....	.002	Alan Wood Steel Co.	1 spring	x				None	1920											x				
Oxford Township (part)	50	202	....																							
Pahaquarry Township (Warren)	No public water supply																									
Palisades Park Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Palmyra Borough (Burlington)																										
Riverton-Palmyra Water Co.	....	....	.470	Riverton-Palmyra Water Co.	1 well (dug), 22′ deep, 13′ dia.	x				Partial chemical—Daily	1889		x											x		
Palmyra	1,301	5,000	....		Infiltration Galleries	x				Partial chemical—Daily	1895		x											x		
Riverton	665	4,000	....		5 driven wells, 67-80′ deep, 10″ dia.	x				Partial chemical—Daily	1918		x											x		
Cinnaminson Township	504	3,000	....																							
Paramus Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Park Land Water Co.																										
See Montvale																										
Park Ridge Borough (Bergen)																										
Municipality	....	....	.207	Municipal	2 wells, 252-500′ deep, 12-16″ dia.	x				None	1924								None							
Park Ridge	613	2,229	....																							
Rivervale	5	....	....																							
Park Land Water Co. (wholesale)	....	....	....	Mill Road	1 well, 435′ deep, 12″ dia.	x				None	1924											x				
Montvale (wholesale)	....	....	....																							
Woodcliff Lake	146	871	....																							
Parsippany-Troy Hills Township (Morris)																										
Municipality	....	....	.133	Municipal	2 wells, 143-147′ deep, 16″ dia.	x				None	1932								None							
Parsippany-Troy Hills Township	1,199	6,681	....																							
Parsippany-Troy Hills Township (Morris)																										
Brooklawn Farms Water Co.	....	....	.020	Brooklawn Farms Water Co.	21 wells and springs	x				None	1889								None							
Parsippany-Troy Hills Township (Littleton Section)	12	60	....																							
Parsippany-Troy Hills Township (Morris)																										
Also see Mt. Lakes (Municipal)																										
Also see Morristown																										
Passaic City (Passaic)																										
See Paterson (Passaic Valley Water Co.)																										
Passaic Township (Morris)																										
Small Farms Association	....	....	*	Small Farms Association	Springs	x				None	1935											x				
Passaic Township (Homestead Park Section)	30	*	....																							
Passaic Township (Morris)																										
See Summit (Commonwealth Water Co.)																										
Passaic Valley Water Commission																										
See Paterson																										
Paterson City (Passaic)																										
Passaic Valley Water Commission	....	....	28.7	Passaic River Supply	Passaic River	x				Complete bacteriological and chemical—Daily	....			x	x		x	x		x		x			x
Paterson & Prospect Park Borough	53,657	141,000	....																							
Passaic	7,883	64,000	....																							
Clifton	7,278	55,000	....	Wanaque Supply	Wanaque River	x				Complete bacteriological and chemical—Daily	....	x			x	x					x		x		x	
Clifton (wholesale)	....	....	....																							
Nutley (wholesale)	....	....	....																							
Totowa (wholesale)	....	....	....																							
West Paterson (wholesale)	....	....	....																							
New Jersey Water Service Co. (wholesale)	....	....	....																							
New Jersey Suburban Water Co. (wholesale)	....	....	....																							
Paterson City (Passaic)																										
Also see Haledon (Municipal)																										
Paulsboro Borough (Gloucester)																										
Municipality	....	....	.715	Municipal	2 wells, 95-105′ deep, 16″ dia.	x				None	1908								None							
Paulsboro	1,700	8,000	....																							
Peapack-Gladstone Borough (Somerset)																										
Municipality	....	....	.184	Municipal	Emmons Pond	x				None	1916					x		x			x	x		x		
Peapack-Gladstone	350	1,400	....																							
Gravity Water Supply Co. (Far Hills) (wholesale)	....	....	....																							
Pemberton Borough (Burlington)																										
Municipality	....	....	.033	Surface	Rancocas Creek				x	None	1895											x				
Pemberton	240	800	....	Well supply	1 well, 192′ deep, 8″ dia.	x				None	1939											x				
Pemberton Township (Burlington)																										
Brown's Mills Land Co. Inc. (Water Dept.)	....	....	*	Brown's Mills Land Co. Inc.	1 well, 430′ deep, 8″ dia.	x				None	1926											x				
Pemberton Township (Brown's Mills Section)	99	*	....																							
Pennington Borough (Mercer)																										
Municipality	....	....	.060	West Delaware Ave.	1 well, 653′ deep, 8″ dia.	x				None	1927								None							
Pennington	370	1,340	....	Fleming Road	2 wells, 159-170′ deep, 6″ dia.	x				None	1888											x				
				Spring supply	2 springs	x				None	1887											x				
Penns Grove Borough (Salem)																										
Penns Grove Water Supply Co.	....	....	.400	Penns Grove Water Supply Co.	3 wells, 141-178′ deep, 8-12″ dia.	x				None	1905		x				x	x								x
Penns Grove	1,469	8,000	....																							
Oldmans Township (part)	108	....	....																							
Upper Penns Neck Township (part)	116	....	....																							
Pennsauken Township (Camden)																										
See Merchantville (Merchantville-Pennsauken Water Commission)																										
See Haddon Heights (New Jersey Water Co.)																										
Pequannock Township (Morris)	No public water supply																									
Perth Amboy City (Middlesex)																										
Municipality	....	....	5.7	Municipal	35 wells, 40-290′ deep, 4½-6-8-10-16″ dia.	x				Bacteriological—Weekly Partial chemical—Daily	1898		x		x					x		x		x	x
Perth Amboy	9,070	43,500	....																							
East Brunswick Township (wholesale)	....	....	....																							
Raritan Township (wholesale)	....	....	....																							
Sayreville (part)	....	....	....																							
Woodbridge Township	....	....	....																							
Sayreville (wholesale)	....	....	....																							
Phillipsburg Town (Warren)																										
People's Water Co.	....	....	1.5	People's Water Co.	Infiltration Galleries	x				None	1914											x				x
Phillipsburg	4,488	20,000	....																							
Pohatcong Township (part)	41	....	....																							
Lopatcong Township (part)	109	....	....																							
Pilesgrove Township (Salem)	No public water supply																									
Pine Beach Borough (Ocean)	No public water supply																									
Pine Hill Borough (Camden)																										
See Clementon (Municipal)																										
Pine Valley Borough (Camden)	No public water supply																									
Pinecliff Lake Realty Co.																										
See West Milford Township																										
Piscataway Township (Middlesex)																										
See Elizabeth (Elizabethtown Water Co.)																										
See Plainfield (Plainfield-Union Water Co.)																										
Pitman Borough (Gloucester)																										
Municipality	....	....	.216	Municipal	1 well, 514′ deep, 16″ dia.	x				None	1926											x				
Pitman (part)	1,260	4,000	....																							
Pitman Borough (Gloucester)																										
New Jersey Conference Camp Meeting Association	....	....	*	Grove Water Works	1 well, 526′ deep, 8″ dia.	x				None	1938								None							
Pitman (part)	790	*3,500	....																							
Pittsgrove Township (Salem)	No public water supply																									
Plainfield City (Union)																										
See Elizabeth (Elizabethtown Water Co. Consolidated)																										
Also see Plainfield (Plainfield-Union Water Co.)																										
Plainfield City (Union)																										
Plainfield-Union Water Co.	....	....	7.4	Netherwood Station	17 wells, 200-500′ deep, 10-12″ dia.	x				None	1890											x				
Clark Township	125	400	....																							
Cranford Township	4,040	11,103	....																							
Fanwood	681	1,680	....	Clinton Ave. Station	2 wells, 283-300′ deep, 8-12″ dia.	x				None	1929								None							
Garwood	884	3,344	....																							
Kenilworth	524	2,643	....																							
Linden (part)	649	870	....	New Orange Park Station	1 well, 246′ deep, 8″ dia.					None	1901								None							
Mountainside	243	700	....		Also buys water from Elizabethtown Water Co.																					
North Plainfield	2,403	9,720	....																							
Piscataway Township (part)	225	1,000	....																							
Plainfield	8,808	34,405	....																							
Raritan Township (Middlesex)	1	100	....																							
Roselle	4,123	13,004	....																							
Roselle Park	2,901	8,967	....																							
Scotch Plains Township	1,285	4,185	....																							
South Plainfield (part)	156	1,000	....																							
Union Township (part)	10	50	....																							
Watchung	45	125	....																							
Westfield	5,212	15,718	....																							
Plainfield-Union Water Co.																										
See Plainfield																										
Plainsboro Township (Middlesex)																										
See South Brunswick Township (Kingston Water Co.)																										
Pleasantville City (Atlantic)																										
Atlantic County Water Co. of New Jersey	....	....	*	Pleasantville No. 1	1 well, 160′ deep, 16″ dia.	x				Bacteriological—Daily	1928								None							
Absecon	402	* 2,200	....	Somers Point Nos. 1 and 2	2 wells, 118′ deep, 16″ dia.	x				Bacteriological—Daily	1920-'28								None							
Egg Harbor Township (part)	82	* 500	....	Pleasantville No. 2	1 well, 115′ deep, 24″ dia.			x		Bacteriological—Daily	1932								None							
Northfield	455	* 2,750	....	Bargaintown	1 well, 120′ deep, 8″ dia.				x	Bacteriological—Daily	1922								None							
Linwood	286	* 1,500	....	Bargaintown	Patcong Creek				x	Bacteriological—Daily	1902											x				x
Pleasantville	2,724	*11,650	....																							
Somers Point	431	* 1,800	....																							
Plumsted Township (Ocean)																										
New Egypt Water Co.	....	....	.050	New Egypt Water Co.	2 wells, 238′ deep, 4-8″ dia.	x				None	1901											x				
Plumsted Township (New Egypt Section)	218	1,215	....																							
Pohatcong Township (Warren)																										
Riegel Paper Corp.	....	....	.222	Mill Village Well	1 well, 20′ deep, 8′ dia.	x				None	1913											x	x			
Pohatcong Township (Warren Glen Section)	78	355	....																							
Pohatcong Township (Warren)																										
Riegel Paper Corp.	....	....	.003	Clymer Springs Water Co.	Clymer Springs Water Co.	x				None	1870											x				
Pohatcong Township (Riegelsville Section)	20	145	....		Riegelsville, Pa.																					
					7 springs																					
Pohatcong Township (Warren)																										
See Phillipsburg (Peoples Water Co.)																										
Point Pleasant Borough (Ocean)																										
Municipality	....	....	*	Municipal	2 wells, 763′ deep, 6″ dia.	x				None	1937								None							
Point Pleasant	808	*2,500	....																							

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Point Pleasant Beach Borough (Ocean)																										
Municipality	....	....	*	Municipal	7 wells, 150′ deep, 10″ dia.	x				None	....								None							
Point Pleasant Beach	1,635	*2,000	....																							
Pompton Lakes Borough (Passaic)																										
Municipality	....	....	.160	Municipal	Buys water from Borough of Butler	x																				
Pompton Lakes	718	3,300	....																							
Riverdale (wholesale)	....	....	....																							
Port Republic City (Atlantic)	No public water supply																									
Pottersville Water Co.																										
See Bedminster Township																										
Princeton Borough (Mercer)																										
Princeton Water Co.	2,315	*9,000	*																							
Princeton	....	....	....	Harrison St. Station	3 wells, 300-500′ deep, 14-16″ dia.	x				None	1931		x									x				
Princeton Township (part)	....	....	....	Stony Brook Station	5 wells, 300-500′ deep, 8-10-14″ dia.	x				None	1883												x			
Princeton Township (Mercer)																										
See Princeton Borough (Princeton Water Co.)																										
Princeton Bank and Trust Co.																										
See West Windsor Township (Princeton Junction Water Co.)																										
Princeton Junction Water Co.																										
See West Windsor Township																										
Prospect Park Borough (Passaic)																										
See Paterson (Passaic Valley Water Commission)																										
Quinton Township (Salem)																										
See Salem (Municipal)																										
Rahway City (Union)																										
Municipality	....	....	3.15	Municipal	Rahway River	x				None	1868		x	x	x		x			x		x	x	x	x	
Rahway	4,500	17,000	....																							
Rahway City (Union)																										
Also see Woodbridge Township (Middlesex Water Co.)																										
Ramsey Borough (Bergen)																										
Municipality	....	....	.166	Municipal	3 wells, 208-600′ deep, 6″ dia.	x				None	1912														x	
Ramsey	970	3,500	....																							
Saddle River Borough	4	25	....																							
Hohokus Township	20	100	....																							
Randolph Township (Morris)	No public water supply																									
Raritan Town (Somerset)																										
See Somerville																										
Raritan Township (Hunterdon)	No public water supply																									
Raritan Township (Middlesex)																										
Municipality	....	....	.260	Municipal	Buys water from City of Perth Amboy and Highland Park in emergency	x																				
Raritan Township (part)	740	3,500	....																							
Raritan Township (Middlesex)																										
New Brunswick Water Co.	....	....	.035	New Brunswick Water Co.	1 well, 272′ deep, 8″ dia.	x				None	1926								None							
Raritan Township (part)	67	300	....																							
Raritan Township (Middlesex)																										
See Elizabeth (Elizabethtown Water Co. Consolidated)																										
See Plainfield (Plainfield-Union Water Co.)																										
See Woodbridge (Middlesex Water Co.)																										
Raritan Township (Monmouth)																										
West Keansburg Water Co.	....	....	*	No information received from owner of this company	Buys water from Borough of Keansburg																					
Raritan Township (part)	80	*300	....																							
Readington Township (Hunterdon)	No public water supply																									
Red Bank Borough (Monmouth)																										
Municipality	....	....	.720	Chestnut St. Well	1 well, 290′ deep, 21″ dia.	x				Bacteriological—Daily	1882	x	x								x	x	x	x	x	x
Fair Haven (part)	85	297	....	Marion St. Well	1 well, 290′ deep, 21″ dia.	x				Bacteriological—Daily	1882	x	x								x	x	x	x	x	x
Little Silver	18	63	....	Pearl St. Well	1 well, 700′ deep, 20″ dia.	x				Bacteriological—Daily	1930	x								x	x	x	x	x	x	x
Red Bank	3,203	11,600	....																							
Red Bank Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Ridgefield Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Ridgefield Park Village (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Ridgewood Village (Bergen)																										
Municipality	....	....	1.45	Cedar Hill	6 wells, 315-500′ deep, 12″ dia.	x				Bacteriological—Weekly Chemical—Quarterly	1934								None							
Ridgewood	4,007	15,036	....	Wortendyke	6 wells, 203-360′ deep, 12″ dia.	x				Bacteriological—Weekly Chemical—Quarterly	1910											x				
Midland Park	991	3,954	....	East Glen Ave.	9 wells, 150′ deep, 8″ dia.	x				Bacteriological—Weekly Chemical—Quarterly	1900											x				
Glen Rock Borough	1,506	5,406	....	East Ridgewood Ave.	1 well, 201′ deep, 12″ dia.		x			Bacteriological—Weekly Chemical—Quarterly	1926								None							
Wyckoff Township (part)	174	661	....	Linwood Ave.	1 well, 261′ deep, 12″ dia.		x			Bacteriological—Weekly Chemical—Quarterly	1932								None							
Hohokus Borough (wholesale)	....	....	....	Grove St.	1 well, 298′ deep, 12″ dia.		x			Bacteriological—Weekly Chemical—Quarterly	1926								None							
Riegel Paper Corp.																										
See Milford Borough																										
See Holland Township (Hunterdon)																										
See Pohatcong Township (Warren)																										
Ringwood Borough (Passaic)																										
Ringwood Co.	....	....	*	Erskine Lakes	4 wells, 164-505′ deep, 6-8″ dia.	x				Bacteriological—Occasionally	1927								None							
Ringwood (Erskine Lakes)	597	*300	....																							
Ringwood Company																										
See West Milford Township (Awosting)																										
See Ringwood Borough																										
River Edge Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Riverdale Borough (Morris)																										
Municipality	....	....	.026	Municipal	Buys water from Borough of Pompton Lakes	x																				
Riverdale	215	860	....																							
Riverside Township (Burlington)																										
See Beverly (Delaware River Water Co.)																										
Riverton Borough (Burlington)																										
See Palmyra (Riverton-Palmyra Water Co.)																										
Riverton-Palmyra Water Co.																										
See Palmyra																										
Rivervale Township (Bergen)																										
See Park Ridge																										
Also see New Milford (Hackensack Water Co.)																										
Rochelle Park Township (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Rockaway Borough (Morris)																										
Municipality	....	....	.100	Municipal	2 wells, 48-62′ deep, 14-16″ dia.	x				None	1922								None							
Rockaway	752	3,500	....																							
Denville Township (part)	3	15	....																							
Rockaway Township (Morris)																										
See Wharton																										
Rockleigh Borough (Bergen)	No public water supply																									
Rocky Hill Borough (Somerset)																										
Municipality	....	....	.015	Municipal	2 wells, 200′ deep, 8″ dia.	x				None	1937											x				
Rocky Hill	121	500	....																							
Roebling																										
See Florence Township																										
Roseland Borough (Essex)																										
Municipality	....	....	.044	Municipal	Buys water from Borough of Essex Fells	x																				
Roseland	320	1,900	....																							
Roselle Borough (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
See Elizabeth (Elizabethtown Water Co.)																										
Roselle Park Borough (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
See Elizabeth (Elizabethtown Water Co.)																										
Roxbury Township (Morris)	No public water supply																									
Rumson Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Runnemede Borough (Camden)																										
See Haddon Heights (New Jersey Water Co.)																										
Rutherford Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Saddle River Borough (Bergen)																										
See Ramsey (Municipal)																										
Saddle River Township (Bergen)																										
Municipality	....	....	.110	Municipal	Buys water from City of Garfield	x																				
Saddle River Township	700	3,000	....																							
Salem City (Salem)																										
Municipality	....	....	1.05	Quinton Wells	26 wells, 110-265′ deep, 6-8-10″ dia.	x				None	1881-1909											x				
Salem	1,696	8,500	....	Laurel Lake	Laurel Lake	x				Partial chemical—Daily	1881	x	x		x	x	x	x		x		x				
Quinton Township (part)	15	75	....	Elkinton Pond	Elkinton Pond		x		x	Partial chemical—Daily	1924	x	x		x	x	x	x		x		x				
				Layne Well No. 1	1 well, 140′ deep, 12″ dia.		x		x	None	1936								None							
Sandyston Township (Sussex)	No public water supply			Layne Well No. 2	1 well, 145′ deep, 12″ dia.		x		x	None	1936								None							
Sayreville Borough (Middlesex)																										
Municipality	....	....	.295	Municipal	Buys water from City of Perth Amboy	x																				
Sayreville	1,524	8,642	....																							
Sayreville Borough (Middlesex)																										
Also see South Amboy (Municipal)																										
Also see Perth Amboy (Municipal)																										
Scotch Plains Township (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
Sea Bright Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Sea Girt Borough (Monmouth)																										
Municipality	....	....	*	Municipal	3 wells, 160-750′ deep, 8-10″ dia.	x				None	1921		x												x	
Sea Girt	600	*700	....																							
Sea Isle City City (Cape May)																										
Municipality	....	....	*	40th St. Station	2 wells, 868-875′ deep, 8″ dia.	x				None	1896								None							
Sea Isle City	2,807	*800	....	50th St. Station	1 well, 871′ deep, 10″ dia.		x			None	1930								None							
Seaside Heights Borough (Ocean)																										
Municipality	....	....	*	Municipal	1 well, 178′ deep, 8″ dia.	x				None	1916		x													
Seaside Heights	1,000	*600	....																							
Seaside Park Borough (Ocean)																										
Municipality	....	....	*	Municipal	2 wells, 517′ deep, 10″ dia.	x				None	1908								None							
Seaside Park	1,019	*700	....																							
Secaucus Town (Hudson)																										
See New Milford (Hackensack Water Co.)																										
Seckler and Sheppard, Inc.																										
See Vernon Township																										
Sewell Water Company																										
See Mantua Township																										

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Shamong Township (Burlington)	No public water supply																									
Shiloh Borough (Cumberland)	No public water supply																									
Ship Bottom-Beach Arlington Borough (Ocean)																										
Municipality	....	....	*	Municipal	2 wells, 388-589′ deep, 6-8″ dia.	x	x			None	1926								None							
Ship Bottom-Beach Arlington	600	* 800	....																							
Shrewsbury Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Shrewsbury Township (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
Smith, H. B., Machine Co.																										
See Easthampton Township																										
Smithville																										
See Easthampton Township																										
Somerdale Borough (Camden)																										
See Laurel Springs (Laurel Springs Water Works Co.)																										
Somers Point City (Atlantic)																										
See Pleasantville (Atlantic County Water Co.)																										
Somerville Borough (Somerset)																										
Somerville Water Co.	....	....	1.55	Raritan Water Power Canal	Raritan River	x				Complete chemical and bacteriological—Daily	1846			x	x		x				x	x	x		x	
Somerville	1,987	8,400	....																							
Raritan Town	780	5,000	....																							
Bridgewater Township	78	100	....																							
South Amboy City (Middlesex)																										
Municipality	....	....	1.0	Municipal	4 wells, 44-55′ deep, 8-20″ dia.	x				None	....											x				
South Amboy	1,556	8,000	....																							
Sayreville Borough (Morgan Section)	200	800	....																							
South Belmar Borough (Monmouth)																										
See Belmar																										
South Bound Brook Borough (Somerset)																										
See Bound Brook (Bound Brook Water Co.)																										
South Brunswick Township (Middlesex)																										
Kingston Water Co.	85	500	.087	Well No. 2	1 well, 280′ deep, 10″ dia.	x				None	1939								None							
South Brunswick Township (Kingston)				Well No. 1	1 well, 150′ deep, 8″ dia.				x	None	1927											x				
Franklin Township (Somerset) (Kingston Section)																										
Plainsboro Township (Middlesex) (Kingston Section)																										
South Cape May Borough (Cape May)																										
See Cape May City (Municipal)																										
South Hackensack Township (Bergen)																										
See New Milford (Hackensack Water Co.)																										
See Garfield City (Municipal)																										
South Harrison Township (Gloucester)	No public water supply																									
South Jersey Water Supply Co.																										
See Harrison Township (Mullica Hill)																										
South Orange Village (Essex)																										
Municipality	....	....	1.25	Municipal	10 wells, 274-320′ deep, 8-10″ dia.	x				Bacteriological—Weekly Chemical—Every 2 months	1912-'27-'29								Zeolite softening							
South Orange	3,435	14,800	....																							
South Plainfield Borough (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
See Elizabeth (Elizabethtown Water Co., Consolidated)																										
See Woodbridge Township (Middlesex Water Co.)																										
South River Borough (Middlesex)																										
Municipality	....	....	.350	Well supply	2 wells, 192′ deep, 8-12″ dia.	x				pH—Daily	1923														x	
South River	2,086	10,700	....	Infiltration Galleries	Infiltration Galleries	x				pH—Daily	....														x	
South Toms River Borough (Ocean)																										
See Dover Township (Toms River Water Co.)																										
Southampton Township (Burlington)																										
Vincentown Water Co.	....	....	.018	Well supply	1 well, 152′ deep, 8″ dia.	x				None	1926								None							
Southampton Township (Vincentown Section)	172	800	....	Surface supply	South Branch Rancocas Creek				x	None	....								None							
Sparta Township (Sussex)																										
See Newton (Municipal)																										
Sparta Township (Sussex)																										
E. J. & Laura Dugan	No information received from owner of this supply																									
Sparta Township (part)																										
Sparta Township (Sussex)																										
Lake Mohawk-Sparta Water Co.	....	....	*	Section No. 6A	1 well, 30′ deep, 12″ dia.	x				None	1933								None							
Sparta Township (Lake Mohawk Section)	826	* 380	....	Section No. 1	3 wells, 55′ deep,-145′ deep, 12″ dia.		x			None	1932-'37								None							
Byram Township (Lake Mohawk Section)	98	* 25	....																							
Spotswood Borough (Middlesex)																										
Municipality	....	....	.017	Municipal	Buys water from East Brunswick Township																					
Spotswood	118	450	....																							
Spring Lake Borough (Monmouth)																										
Municipality	....	....	*	Municipal	11 wells, 150-710′ deep, 6-8″ dia.	x				None	1911								None							
Spring Lake	1,160	*2,400	....																							
Spring Lake Heights (wholesale)	....	*	....																							
Spring Lake Heights Borough (Monmouth)																										
Municipality	....	....	*	Municipal	Buys water from Borough of Spring Lake																					
Spring Lake Heights	375	1,300	....																							
Springfield Township (Burlington)	No public water supply																									
Springfield Township (Union)																										
See Summit (Commonwealth Water Co.)																										
Stafford Township (Ocean)	No public water supply																									
Stanhope Borough (Sussex)																										
Municipality	....	....	*	Municipal	3 wells, 85-118′ deep, 10-12″ dia.	x				None	1936								None							
Stanhope	360	*1,100	....																							
Stewartsville																										
See Greenwich Township (Warren)																										
Stillwater Township (Sussex)	No public water supply																									
Stockton Borough (Hunterdon)																										
Municipality	....	....	....	Municipal	2 wells, 142-145′ deep, 6″ dia.	x				None	1907								None							
Stockton	120	550	....																							
Stone Harbor Borough (Cape May)																										
Municipality	....	....	*	Municipal	2 wells, 890′ deep, 6-8″ dia.	x				None	1910								None							
Stone Harbor	....	* 400	....																							
Stow Creek Township (Cumberland)	No public water supply																									
Stratford Borough (Camden)																										
See Laurel Springs (Laurel Springs Water Works Co.)																										
Strathmere																										
See Upper Township																										
Strawberry Point																										
See Byram Township																										
Summit City (Union)																										
Commonwealth Water Co.	....	....	10.0	Canoe Brook	Canoe Brook	x				Bacteriological and complete chemical and physical—Daily	1929	x		x	x	x	x	x		x		x				x
Summit	4,787	16,907	....																							
Millburn Township	3,824	11,424	....																							
Maplewood Township	7,309	23,575	....																							
New Providence Borough	650	2,474	....	Canoe Brook Station	16 wells, 131-379′ deep, 8-25″ dia.	x				Bacteriological and complete chemical and physical—Daily	1901											x				
New Providence Township	283	2,832	....																							
Passaic Township (part)	602	3,060	....																							
Springfield Township (Union)	1,128	4,445	....																							
Irvington	13,071-	57,600	....	Baltusrol Station	7 wells, 200-371′ deep, 8″ dia.	x				Bacteriological and complete chemical and physical—Daily	1889											x				
Union Township (Union) (part)	127	540	....																							
Hillside Township (part)	17	70	....		1 collecting gallery comprising 4 wells, 22-27′ deep, 4-30′ dia.																					
West Orange	7,212	27,661	....																							
Livingston Township (wholesale)	....	....	....	Short Hills Station	2 wells, 77-85′ deep, 25″ dia.	x				Bacteriological—Daily Chemical—Weekly	....											x				
Surf City Borough (Ocean)																										
Municipality	....	....	*	Municipal	2 wells, 550′ deep, 6-8″ dia.	x				None	1911								None							
Surf City	322	*	....																							
Sussex Borough (Sussex)																										
Municipality	....	....	.225	Municipal	Lake Rutherford	x				None	1896		x									x				
Sussex	454	1,375	....																							
Swedesboro Borough (Gloucester)																										
Municipality	....	....	.100	Municipal	1 well, 220′ deep, 12″ dia.	x				None	1900								None							
Swedesboro	460	2,000	....																							
Tabernacle Township (Burlington)	No public water supply																									
Tavistock Borough (Camden)	No public water supply																									
Taylor-Wharton Iron & Steel Co.																										
See High Bridge																										
Teaneck Township (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Also see Bogota (Bogota Water Co.)																										
Tenafly Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Tewksbury Township (Hunterdon)																										
See Bedminster Township (Pottersville Water Co.)																										
Toms River																										
See Dover Township																										
Totowa Borough (Passaic)																										
Municipality	....	....	.350	Municipal	Buys water from Passaic Valley Water Commission	x																				
Totowa	1,050	6,000	....																							
Totowa Borough (Passaic)																										
Also see Haledon																										
Trenton City (Mercer)																										
Municipality	....	....	16.0	Municipal	Delaware River	x				Bacteriological and partial chemical—Daily	1853			x	x		x	x		x		x	x	x		
Trenton	27,383	123,000	....																							
Hamilton Township (part)	5,956	....	....																							
Ewing Township (part)	1,533	....	....																							
Lawrence Township (part)	1,400	....	....																							
Tri-Corner Realty Corp.																										
See Franklin Lakes																										
Tuckerton Borough (Ocean)																										
Tuckerton Water Works Co.	....	....	.050	Tuckerton Water Works	1 well, 480′ deep, 6″ dia.	x				None	1935		x			x			x							
Tuckerton	390	2,000	....																							
Union Township (Hunterdon)	No public water supply																									
Union Township (Ocean)																										
Barnegat Water Co.	....	....	.040	Barnegat Water Co.	2 wells, 130-145′ deep, 3½″ dia.	x				None	1910								None							
Union Township (Barnegat Section)	250	900	....																							
Union Township (Union)																										
See Elizabeth (Elizabethtown Water Co.)																										
See Summit (Commonwealth Water Co.)																										
See Plainfield (Plainfield-Union Water Co.)																										
Union Beach Borough (Monmouth)																										
Municipality	....	....	*	Municipal	2 wells, 309-325′ deep, 8-12″ dia.	x				None	1927		x			x	x	x								x
Union Beach	1,200	*1,893	....																							
Union City City (Hudson)																										
See New Milford (Hackensack Water Co.)																										
Upper Township (Cape May)																										
Corson's Inlet Water Co.	....	....	*	Corson's Inlet Water Co.	1 well, 860′ deep, 6″ dia.	x				None	1905												x			
Upper Township (Strathmere)	131	* 550	....																							

* See tabulation of supplies having marked seasonal variation in consumption and population served.

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE: CONNECTIONS	SERVICE: POPULATION	CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE: Regular	USE: Seasonal	USE: Occasional	USE: Emergency	LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION: Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
Upper Deerfield Township (Cumberland)	No public water supply																									
Upper Freehold Township (Monmouth)	No public water supply																									
Upper Penns Neck Township (Salem)																										
E. I. du Pont de Nemours & Co.	....	....	.600	Layton's Wells	2 wells, 192-196′ deep, 6″ dia.	x				None	1918								None							
Upper Penns Neck Township (Carney's Point)	617	1,850	....		1 dug well, 28′ deep, 12′ dia.				x	None	1918											x				
Upper Penns Neck Township (Salem)																										
Also see Penns Grove (Penns Grove Water Supply Co.)																										
Upper Pittsgrove Township (Salem)	No public water supply																									
Upper Saddle River Borough (Bergen)	No public water supply																									
Ventnor City City (Atlantic)																										
Municipality	....	....	*	Municipal	7 wells, 800-812′ deep, 4½-8-12″ dia.	x				None	1910											x				
Ventnor	3,000	*7,500	....																							
Vernon Township (Sussex)																										
Highland Lakes Improvement Co.	....	....	*	Highland Lakes Improvement Co.	Old supply (surface)	x				None	1937											x x			x x	
Vernon Township (Highland Lakes)	210	*	....	Highland Lakes Improvement Co.	New supply (surface)	x				None	1938															
Vernon Township (Sussex)																										
Seckler & Sheppard Co.	....	....	*	Lake Wallkill Water System	Surface Brook	x				None	1934											x			x	
Vernon Township (Lake Wallkill)	285	*	....	Lake Wallkill Water System	1 well, 117′ deep, 8″ dia.	x				None	1934															
Verona Borough (Essex)																										
Municipality	....	....	.480	Municipal	Buys water from Borough of Essex Fells	x													None							
Verona	2,350	8,500	....																							
Vincentown																										
See Southampton Township																										
Vineland Borough (Cumberland)																										
Municipality	....	....	1.15	Municipal	3 wells, 160′ deep, 26″ dia.	x				None	1925-'34		x													
Vineland	2,021	8,000	....																							
Landis Township	976	4,000	....																							
Vineland Borough (Cumberland)																										
Kimble Glass Co.	....	....	.270	Kimble Glass Co.	2 wells, 128-136′ deep, 15-18″ dia.	x			x	None	1927								None							
Vineland	....	....	....																							
Voorhees Township (Camden)																										
Lakeside Park Water Co.	....	....	.017	Lakeside Park Water Co.	Buys water from Laurel Springs Water Works Co.	x																				
Voorhees Township (Kirkwood Section)	103	580	....																							
Voorhees Township (Camden)																										
See Haddon Heights (New Jersey Water Co.)																										
Also see Laurel Springs (Laurel Springs Water Works Co.)																										
Waldwick Borough (Bergen)																										
Municipality	....	....	.118	Municipal	3 wells, 425-428′ deep, 12″ dia.	x				None	1936								None							
Waldwick	780	3,000	....																							
Hohokus Township	500	1,800	....																							
Wall Township (Monmouth)																										
See Belmar (Municipal)																										
Wallington Borough (Bergen)																										
Municipality	....	....	.800	Spring St. Station	4 wells, 180′ deep, 8″ dia.				x	None	1901											x				
Wallington	1,300	10,000	....	Mercer St. Station	1 well, 500′ deep, 12″ dia.	x				None	1901											x				
				Wadsworth and Currie Ave. Station	1 well, 300′ deep, 12″ dia.	x				None	1901											x				
Wallington Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Walpack Township (Sussex)	No public water supply																									
Wanaque Borough (Passaic)																										
Municipality	....	....	.060	Municipal	1 well, 65′ deep, 6″ dia.	x				Bacteriological and partial chemical—Weekly	1938														x	
Wanaque	....	3,500	....																							
Wanaque Borough (Passaic)																										
Haskell Improvement Co., Inc.	....	....	.054	Haskell Improvement Co.	4 wells, 20-30′ deep, 15′ dia.	x				None	1912											x				
Wanaque (Haskell Section)	122	700	....																							
Wanaque Borough (Passaic)																										
North Jersey District Water Supply Commission	....	....	69.0	Wanaque Supply	Wanaque River	x				Chemical, bacteriological and microscopic—Daily	1930	x										x	x	x	x	
Newark Montclair Glen Ridge Kearny Paterson Passaic Clifton	Share in ownership of Wanaque System; Paterson, Passaic and Clifton served through Passaic Valley Water Commission—See respective municipalities for details																									
Bayonne (wholesale)																										
Wantage Township (Sussex)	No public water supply																									
Warren Township (Somerset)	No public water supply																									
Washington Borough (Warren)																										
Washington Water Co.	....	....	.400	Roaring Rock	Roaring Rock Brook	x				Bacteriological—Monthly	1881			x								x	x			
Washington	1,202	4,400	....																							
Washington Township (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Washington Township (Burlington)	No public water supply																									
Washington Township (Gloucester)																										
J. T. Wilson	....	....	....	J. T. Wilson	1 well, 185′ deep, 4″ dia.	x				None	1925										x	x				x
Washington Township (Lakeview Heights Section)	14	60	....																							
Washington Township (Gloucester)																										
Also see Gloucester Township (Grenloch Real Estate Co.)																										
Washington Township (Mercer)	No public water supply																									
Washington Township (Morris)																										
Long Valley Water Co.	....	....	.003	Long Valley Water Co.	1 spring	x				None	1920											x				
Washington Township (Long Valley Section)	56	250	....																							
Washington Township (Morris)																										
B. B. Swackhammer	....	....	.002	B. B. Swackhammer	1 spring	x				None	1880								None							
Washington Township (Long Valley Section)	17	50	....																							
Washington Township (Morris)																										
Morris Trimmer	....	....	.001	Morris Trimmer	1 spring	x				None	1908											x				
Washington Township (Long Valley Section)	17	35	....																							
Washington Township (Morris)																										
Lula A. Birdsall	....	....	*	Lula A. Birdsall	Springs	x				None	1939								None							
Washington Township	10	* 54	....																							
Mansfield Township	2	* 6	....																							
Washington Township (Warren)	No public water supply																									
Watchung Borough (Somerset)																										
See Plainfield (Plainfield-Union Water Co.)																										
Waterford Township (Camden)	No public water supply																									
Wayne Township (Passaic)																										
Municipality	....	....	.050	Municipal	Buys water from City of Newark	x																				
Wayne Township	260	1,000	....																							
Wayne Township (Passaic)																										
Also see Haledon (Municipal)																										
Also see Lincoln Park (Mt. View Water Co.)																										
Weehawken Township (Hudson)																										
See New Milford (Hackensack Water Co.)																										
Wenonah Borough (Gloucester)																										
Municipality	....	....	.080	Municipal	8 wells, 200-218′ deep, 3-4½-6-8″ dia.	x				None	....								None							
Wenonah	360	2,100	....																							
West Amwell Township (Hunterdon)	No public water supply																									
West Caldwell Borough (Essex)																										
Municipality	....	....	.214	Municipal	Buys water from Borough of Essex Fells	x																				
West Caldwell	910	3,500	....																							
North Caldwell (wholesale)	....	....	....																							
West Cape May Borough (Cape May)																										
See Cape May City (Municipal)																										
West Deptford Township (Gloucester)																										
Colonial Manor Water Co., Inc.	....	....	.037	Colonial Manor Water Co.	1 well, 132′ deep, 8″ dia.	x				None	1922								None							
West Deptford Township (Colonial Manor Section)	172	850	....																							
West Deptford Township (Gloucester)																										
Also see Westville (Municipal)																										
Also see National Park (Municipal)																										
West Keansburg Water Co.																										
See Raritan Township (Monmouth)																										
West Long Branch Borough (Monmouth)																										
See Long Branch (Monmouth Consolidated Water Co.)																										
West Milford Township (Passaic)																										
Ringwood Co.	....	....	*	Ringwood Co.	2 wells, 125-361′ deep, 6″ dia.	x				Bacteriological—Occasional	1915								None							
West Milford Township (Awosting)	102	* 10	....																							
West Milford Township (Passaic)																										
Pinecliff Lake Realty Co.	....	....	*	Pinecliff Lake Realty Co.	Notch Brook		x			None	1932											x				
West Milford Township (Pinecliff Lake Section)	190	*	....																							
West New York Town (Hudson)																										
See New Milford (Hackensack Water Co.)																										
West Orange Town (Essex)																										
See Summit (Commonwealth Water Co.)																										
West Paterson Borough (Passaic)																										
Municipality	No information received from owner of this supply				Buys water from Passaic Valley Water Commission and New Jersey Water Service Co.																					
West Paterson (part)																										
West Paterson Borough (Passaic)																										
Also see Little Falls (New Jersey Water Service Co.)																										
West Wildwood Borough (Cape May)																										
Municipality	....	....	*	Municipal	Buys water from City of Wildwood	x																				
West Wildwood	*	*	....																							
West Windsor Township (Mercer)																										
Hiram A. Cook Estate	....	....	.002	Hiram A. Cook	3 wells, 28′ deep, 1½″ dia.	x				None	1912								None							
West Windsor Township (Dutch Neck Section)	26	100	....																							
West Windsor Township (Mercer)																										
Princeton Junction Water Co.	....	....	.007	Princeton Junction Water Co.	2 wells, 95-306′ deep, 6″ dia.	x				None	1923-'38											x				
West Windsor Township (Princeton Junction)	50	150	....																							
West Windsor Township (Mercer)																										
Julius C. Wildermuth	....	....	.011	Julius C. Wildermuth	2 wells, 125-129′ deep, 8″ dia.	x				None	1928								None							
West Windsor Township (Penns Neck Section)	46	....	....																							
Westfield Town (Union)																										
See Plainfield (Plainfield-Union Water Co.)																										
Westhampton Township (Burlington)	No public water supply																									
Westville Borough (Gloucester)																										
Municipality	....	....	.175	Municipal	2 wells, 112-118′ deep, 8″ dia.	x				None	1898		x													
Westville	1,000	3,500	....																							
West Deptford Township (part)	100	300	....																							
Westwood Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Weymouth Township (Atlantic)																										
See Hamilton Township (Atlantic County) (Municipal)																										
Wharton Borough (Morris)																										
Municipality	....	....	.073	Municipal	Rockaway River	x				None	1922				x		x	x			x	x				
Wharton	904	3,800	....																							
Dover (part)	5	....	....																							
Mine Hill Township (part)	5	....	....																							
Rockaway Township (part)	14	....	....																							

* See tabulation of supplies having marked seasonal variation in consumption and population served.

No. 20—PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY—Continued

MUNICIPALITY—COUNTY OWNER OF SUPPLY MUNICIPALITIES SERVED	SERVICE		CONSUMPTION M.G.D.	LOCAL NAME OF SUPPLY	SOURCE OF SUPPLY	USE				LOCAL LABORATORY CONTROL	DATE SUPPLY ESTABLISHED	TREATMENT OR PURIFICATION														
	CONNECTIONS	POPULATION				Regular	Seasonal	Occasional	Emergency			Prolonged Storage	Aeration	Taste-Odor Control	Prechlorination	Preliminary Sedimentation	Coagulation	Sedimentation	Slow Sand Filters	Rapid Sand Filters	Pressure Filters	Post Chlorination	Ammoniation	pH Control	Algae Control	Iron Removal
White Township (Warren)																										
See Belvidere (Buckhorn Springs Water Co.)																										
White Horse Supplies																										
See Hamilton Township (Mercer)																										
Wildwood City (Cape May)			*	Rio Grande Station	28 wells, 47-523′ deep, 6-16″ dia.	x				None	1910		x								x				
Municipality	....	....																								
Wildwood	2,969	*5,000	....	Pine and New Jersey Aves.	2 wells, 364-700′ deep, 8-10″ dia.		x			None	1896-1927		x								x				
North Wildwood	1,762	*2,000	....																							
Wildwood Crest	766	* 650	....	6th and New Jersey Ave.	3 wells, 125-350′ deep, 6″ dia.				x	None	1902							None								
West Wildwood (wholesale)	....	....	....																							
Middle Township	148	* 500	....																							
Wildwood Crest Borough (Cape May)																										
See Wildwood																										
Williamstown																										
See Monroe Township																										
Willingboro Township (Burlington)	No public water supply																									
Winslow Township (Camden)	No public water supply																									
Woodbine Borough (Cape May)																										
Woodbine Water Co.	....	....	.070	Woodbine Water Co.	4 wells, 168′ deep, 8″ dia.	x				None	....		x				x	x					x		x
Woodbine	244	2,164	....																							
Woodbridge Township (Middlesex)	....	....	5.84	Park Avenue Wells	17 wells, 300′ deep, 8-12″ dia.	x				None	1912											x				
Middlesex Water Co.	1,945	13,339	....																							
Carteret	10	50	....	South Plainfield Wells	12 wells, 250′ deep, 12″ dia.				x	None	1888											x				
Clark Township (part)	1,633	5,748	....																							
Metuchen	4	20	....	Robinson's Branch	Robinson's Branch Rahway River	x				Bacteriological and chemical—Daily	1907	x				x	x	x			x	x			x	
Rahway (part)	873	4,725	....																							
Raritan Township (part)	452	3,347	....																							
South Plainfield (part)	5,048	23,846	....																							
Woodbridge Township (part)																										
Woodbridge Township (Middlesex)	....	....	....	Municipal	Buys water from Perth Amboy	x																				
Municipality	109	500	....																							
Woodbridge Township (Keasbey Section)																										
Woodbury City (Gloucester)	....	....	.618	Municipal	2 wells, 315-317′ deep, 16″ dia.	x				None	1934-'36											x				
Municipality	2,700	8,200	....																							
Woodbury	....	800	....																							
Woodbury Heights (part)	1	....	....																							
Woodbury Heights Water Co. (wholesale)																										
Woodbury Heights Borough (Gloucester)	....	....	....	Woodbury Heights Water Co.	Buys water from City of Woodbury	x																				
Woodbury Heights Water Co.	65	300	....																							
Woodbury Heights (part)																										
Woodcliff Lake Borough (Bergen)																										
See Park Ridge (Municipal)																										
Woodland Township (Burlington)	No public water supply																									
Woodlynne Borough (Camden)																										
See Collingswood (Municipal)																										
Wood-Ridge Borough (Bergen)																										
See New Milford (Hackensack Water Co.)																										
Woodstown Borough (Salem)	....	....	.098	Municipal	6 wells, 160′ deep	x				None	1892							None								
Municipality	....	1,800	....		1 well, 706′ deep, 8″ dia.	x				None	1928							None								
Woodstown	No public water supply																									
Woolwich Township (Gloucester)																										
Wrightstown Borough (Burlington)	....	....	.030	Hanover Water Co.	2 wells, 312′ deep, 6-8″ dia.	x				None	1918							None								
Hanover Water Co.	72	150	....																							
Wrightstown																										
Wyckoff Township (Bergen)	....	....	.002	Coggeshall Supply	1 well, 225′ deep, 6″ dia.	x				None	1926															
Hooker I. Coggeshall	30	120	....																							
Wyckoff Township (part)																										
Wyckoff Township (Bergen)																										
Also see Hawthorne (Municipal)																										
Also see Ridgewood (Municipal)																										

* See tabulation of supplies having marked seasonal variation in consumption and population served.

PUBLIC POTABLE WATER SUPPLIES HAVING MARKED SEASONAL VARIATION IN CONSUMPTION AND POPULATION SERVED

MUNICIPALITY—COUNTY OWNER MUNICIPALITIES SERVED	POPULATION SERVED Summer	 Winter	CONSUMPTION Summer M.G.D.	 Winter M.G.D.
Allenhurst Borough (Monmouth)				
Municipality	....	....	.453	.053
Allenhurst	3,500	700	....	....
Ocean Township (part)	....	50	....	....
Asbury Park City (Monmouth)				
Municipality	....	....	2.5	1.0
Asbury Park (part)	61,000	12,500	....	....
Neptune Township (part)	....	....	....	....
Atlantic City (Atlantic)				
Municipality	....	....	14.7	10.4
Atlantic City	250,000	65,748	....	....
Atlantic Highlands (Monmouth)				
Municipality	....	....	.400	.150
Atlantic Highlands	....	1,800	....	....
Avalon Borough (Cape May)				
Municipality	....	....	.375	.090
Avalon	4,500	400	....	....
Avon-by-the-Sea Borough (Monmouth)				
Municipality		No information received		
Avon-by-the-Sea				
Barnegat City Borough (Ocean)				
Municipality	....	....	.012	.004
Barnegat City	350	200	....	....
Bay Head Borough (Ocean)				
Ocean County Water Co.	....	....	.751	.139
Bay Head	9,000	450	....	....
Mantoloking	2,500	50	....	....
Brick Township (part)	700	....	....	....
Dover Township (part)	500	....	....	....
Belmar Borough (Monmouth)				
Municipality	....	....	1.0	.400
Belmar	30,000	3,500	....	....
South Belmar	5,000	900	....	....
Wall Township (part)	1,000	600	....	....
Brielle Borough (Monmouth)				
Municipality	....	....	.105	.050
Brielle	....	700	....	....
Brigantine City (Atlantic)				
Municipality	....	....	.260	.100
Brigantine	....	525	....	....
Byram Township (Sussex)				
Briar Hts. and Della Hts. Property Owners Assn.	....	....	.002	0
Byram Township (Cranberry Lake)	90	0	....	....
Byram Township (Sussex)				
Frenches Grove Water Co.	....	....	.002	0
Byram Township (Cranberry Lake)	160	0	....	....
Byram Township (Sussex)				
Strawberry Point Property Owners Assn.	....	....	.002	0
Byram Township (Cranberry Lake)	65	0	....	....
Cape May City (Cape May)				
Municipality	....	....	.700	1.9
Cape May City	20,000	2,637	....	....
Lower Township (part)	....	....	....	....
South Cape May	100	25	....	....
West Cape May	1,200	1,048	....	....

PUBLIC POTABLE WATER SUPPLIES HAVING MARKED SEASONAL VARIATION IN CONSUMPTION AND POPULATION SERVED—Continued

MUNICIPALITY—COUNTY OWNER MUNICIPALITIES SERVED	POPULATION SERVED Summer	 Winter	CONSUMPTION Summer M.G.D.	 Winter M.G.D.
Cape May Point Borough (Cape May)				
Municipality	....	....	.081	.039
Cape May Point	3,000	250	....	....
Lower Township (part)	15	15	....	....
Downe Township (Cumberland)				
Estate of Herbert Garrison	....	....	.005	.0002
Downe Township (Fortescue)	100	25	....	....
Downe Township (Cumberland)				
Leslie Haines	....	....	.010	.001
Downe Township (Fortescue)	300	30	....	....
Downe Township (Cumberland)				
J. C. Remington	....	....	.010	.001
Downe Township (Fortescue)	250	25	....	....
Harvey Cedars Borough (Ocean)				
Municipality	....	....	.010	.005
Harvey Cedars	....	75	....	....
Long Beach Township (part)	....	5	....	....
Highlands Borough (Monmouth)				
Municipality	....	....	.600	.300
Highlands	15,000	2,500	....	....
Hopatcong Borough (Sussex)				
Morris & Sussex Water Service, Inc.	....	....	.005	0
Hopatcong (Hopatcong Park Est.)	200	0	....	....
Island Heights Borough				
Municipality	....	....	....	....
Island Heights	3,500	300	.270	.023
Jefferson Township (Morris)				
Cozy Lake Estates	....	....	.007	0
Jefferson Township (Cozy Lake)	....	....	....	....
Jefferson Township (Morris)				
Prospect Point Water Co.	....	....	.009	0
Jefferson Township (Prospect Point—Lake Hopatcong)	320	0	....	....
Keansburg Borough (Monmouth)				
Municipality	....	....	1.25	.500
Keansburg	30,000	2,500	....	....
West Keansburg Water Co. (wholesale)	....	....	....	....
Lakewood Township (Ocean)				
Lakewood Water Company	....	....	.250	.625
Lakewood Township (part)	7,869	38,000	....	....
Lavallette Borough (Ocean)				
Municipality	....	....	.250	.050
Lavallette	3,000	350	....	....
Dover Township (West Point Island)	50	....	....	....
Lincoln Park Borough (Morris)				
Mountain Heights Water Co.	....	....	....	0
Lincoln Park (part)	50	0	....	....
Long Beach Township (Ocean)				
Municipality	....	....	.020	.002
Long Beach Township (below Beach Haven)	....	....	....	....
Long Beach Township (Ocean)				
Long Beach Water Co.	....	....	.190	.110
Long Beach Township (part)	3,000	400	....	....

PUBLIC POTABLE WATER SUPPLIES HAVING MARKED SEASONAL VARIATION IN CONSUMPTION AND POPULATION SERVED—Continued

MUNICIPALITY—COUNTY OWNER MUNICIPALITIES SERVED	POPULATION SERVED Summer	 Winter	CONSUMPTION Summer M.G.D.	 Winter M.G.D.
Long Branch City (Monmouth)				
Monmouth Cons. Water Co.	....	....	9.0	4.0
Asbury Park (part)	9,000	5,500	....	....
Bradley Beach	30,000	3,400	....	....
Deal	3,000	900	....	....
Eatontown	2,200	2,200	....	....
Fairhaven (part)	3,000	2,300	....	....
Interlaken	750	650	....	....
Little Silver	1,700	1,600	....	....
Long Branch	49,000	20,000	....	....
Middletown Township (part)	20,000	12,000	....	....
Monmouth Beach	2,500	400	....	....
Neptune City	3,000	2,500	....	....
Neptune Township (Including Ocean Grove)	63,000	13,000	....	....
Ocean Township	4,500	3,500	....	....
Oceanport	3,000	2,200	....	....
Red Bank (part)	100	100	....	....
Rumson	4,000	2,500	....	....
Sea Bright	4,000	1,300	....	....
Shrewsbury Township	1,200	1,100	....	....
Shrewsbury Borough	950	900	....	....
West Long Branch	2,100	2,000	....	....
Longport Borough (Atlantic)				
Municipality	....	....	.127	.068
Longport	2,500	350	....	....
Manasquan Borough (Monmouth)				
Municipality	....	....	.400	.225
Manasquan	10,000	2,920	....	....
Margate City (Atlantic)				
Municipality	....	....	....	.221
Margate City	....	3,300	....	....
Matawan Borough (Monmouth)				
Municipality	....	....	....	....
Matawan	....	3,000	....	....
Matawan Township (part)	....	....	....	....
Matawan Township (Monmouth)				
Cliffwood Beach Water Co.	2,000	400	.081	.023
Matawan Township (Cliffwood Beach section)	....	....	....	....
Madison Township (Cliffwood Beach section)	....	....	....	....
Medford Township (Burlington)				
Estate of Thomas Murray	....	....	.004	0
Medford Township (Taunton Lakes)	100	0	....	....
Middletown Township (Monmouth)				
Ideal Beach Water Co.	....	....	.228	.023
Middletown Township (Ideal Beach)	5,000	1,500	....	....
Mt. Arlington Borough (Morris)				
Helen T. Cronin	....	....	.002	0
Mt. Arlington (part)	40	0	....	....
Mt. Arlington Borough (Morris)				
Morris & Sussex Water Service, Inc.	....	....	.008	0
Mt. Arlington (Lake Rogerene)	350	0	....	....
Mt. Olive Township (Morris)				
Budd Lake Manor Corp.	....	....	....	0
Mt. Olive Township (Budd Lake)	70	0	....	....
Mt. Olive Township (Morris)				
Estate of Aaron S. Hulse	....	....	.001	.0003
Mt. Olive Township (part)	40	10	....	....
Mt. Olive Township (Morris)				
Pinecrest Improvement Assn.	....	....	.015	0
Mt. Olive Township (Budd Lake)	300	0	....	....

PUBLIC POTABLE WATER SUPPLIES HAVING MARKED SEASONAL VARIATION IN CONSUMPTION AND POPULATION SERVED—Continued

MUNICIPALITY—COUNTY OWNER MUNICIPALITIES SERVED	POPULATION SERVED Summer	 Winter	CONSUMPTION Summer M.G.D.	 Winter M.G.D.
Mt. Olive Township (Morris)				
Arthur Reid	....	....	.010	0
Mt. Olive Township (Budd Lake)	80	0	....	....
Mt. Olive Township (Morris)				
Stonwald Park Assn., Inc.	....	....	.018	0
Mt. Olive Township (Budd Lake)	90	0	....	....
Mt. Olive Township (Morris)				
West Jersey Water Service, Inc.	....	....	.014	.003
Mt. Olive Township (Country Club Est., Budd Lake)	400	....	....	....
Oakland Borough (Bergen)				
Municipality	....	....	.025	.014
Oakland	2,000	700	....	....
Ocean City (Cape May)				
Ocean City Water Service Co.	....	....	1.57	.373
Ocean City	65,000	5,500	....	....
Ocean Gate Borough (Ocean)				
Municipality	....	....	.066	.033
Ocean Gate	1,980	200	....	....
Berkeley Township (part)	60	....	....	....
Passaic Township (Morris)				
Small Farms Association	....	....	.002	....
Passaic Township (Homestead Park Township)	....	....	....	....
Pemberton Township (Burlington)				
Brown's Mills Land Co., Inc., Water Department	....	....	090	.054
Pemberton Township (Brown's Mills)	450	....	....	....
Pitman Borough (Gloucester)				
N. J. Conf. Camp Meeting Assn.	....	....	.125	.050
Pitman (part)	3,500	....	....	....
Pleasantville City (Atlantic)				
Atlantic Co. Water Co. of N. J.	....	....	.528	.427
Absecon	2,300	2,200	....	....
Egg Harbor Township (part)	600	500	....	....
Northfield	2,850	2,750	....	....
Linwood	1,600	1,500	....	....
Pleasantville	12,000	11,650	....	....
Somers Point	2,150	1,800	....	....
Point Pleasant Borough (Ocean)				
Municipality	....	....	.250	.090
Point Pleasant	....	2,500	....	....
Point Pleasant Beach Borough (Ocean)				
Municipality	....	....	1.5	.500
Point Pleasant Beach	10,000	2,000	....	....
Princeton Borough (Mercer)				
Princeton Water Co.	9,000	12,000	.780	.977
Princeton	....	....	....	....
Princeton Township (part)	....	....	....	....
Raritan Township (Monmouth)				
West Keansburg Water Co.	....	....	....	....
Raritan Township	....	300	....	....
Ringwood Borough (Passaic)				
Ringwood Company	....	....	.092	.005
Ringwood (Erskine Lakes)	3,250	300	....	....
Sea Girt Borough (Monmouth)				
Municipality	....	....	.275	.078
Sea Girt	4,000	700	....	....
Sea Isle City (Cape May)				
Municipality	....	....	.450	.170
Sea Isle City	10,000	800	....	....

PUBLIC POTABLE WATER SUPPLIES HAVING MARKED SEASONAL VARIATION IN CONSUMPTION AND POPULATION SERVED—Continued

MUNICIPALITY—COUNTY OWNER MUNICIPALITIES SERVED	POPULATION SERVED Summer	 Winter	CONSUMPTION Summer M.G.D.	 Winter M.G.D.
Seaside Heights Borough (Ocean)				
Municipality	....	....	.400	.100
Seaside Heights	6,500	600	....	....
Seaside Park (Ocean)				
Municipality	....	....	.392	.190
Seaside Park	8,000	700	....	....
Ship Bottom-Beach Arlington Borough (Ocean)				
Municipality	....	....	.130	.040
Ship Bottom-Beach Arlington	3,500	300	....	....
Sparta Township (Sussex)				
Lake Mohawk-Sparta Water Co.	....	....	.290	.090
Sparta Township (Lake Mohawk)	4,000	380	....	....
Byram Township (Lake Mohawk)	425	25	....	....
Spring Lake Borough (Monmouth)				
Municipality	....	....	.900	.250
Spring Lake	20,000	2,400	....	....
Spring Lake Heights Borough (Monmouth)				
Municipality	....	....	....	....
Spring Lake Heights	2,400	1,300	....	....
Stanhope Borough (Sussex)				
Municipality	....	....	.120	.080
Stanhope	1,800	1,100	....	....
Stone Harbor Borough (Cape May)				
Municipality	....	....	.450	.045
Stone Harbor	....	400	....	....
Surf City Borough (Ocean)				
Municipality	....	....	.044	.026
Surf City	....	....	....	....
Union Beach Borough (Monmouth)				
Municipality	....	....	.157	.108
Union Beach	....	1,893	....	....
Upper Township (Cape May)				
Corson's Inlet Water Co.	....	....	.031	.012
Upper Township (Strathmere)	....	550	....	....
Ventnor City (Atlantic)				
Municipality	....	....	1.7	.850
Ventnor	....	7,500	....	....
Vernon Township (Sussex)				
Highland Lakes Imp. Co.	....	....	.025	0
Vernon Township (Highland Lakes)	1,800	0	....	....
Vernon Township (Sussex)				
Seckler & Shepperd Co.	....	....	.032	0
Vernon Township (Lake Wallkill)	1,300	0	....	....
Washington Township (Morris)				
Lula A. Birdsall	....	....	.006	.001
Washington Township	....	54	....	....
Mansfield Township	....	6	....	....
West Milford Township (Passaic)				
Ringwood Company	....	....	.015	.003
West Milford Township (Awosting)	600	10	....	....
West Milford Township (Passaic)				
Pinecliff Realty Co.	....	....	.045	0
Pinecliff Lake section	800	0	....	....
West Wildwood (Cape May)				
Municipal	....	....	....	....
West Wildwood	3,600	....	....	....
Wildwood City (Cape May)				
Municipality	....	....	4.2	.500
Wildwood	100,000	5,000	....	....
North Wildwood	15,000	2,000	....	....
Wildwood Crest	10,000	650	....	....
West Wildwood (wholesale)	....	....	....	....
Middle Township	2,000	500	....	....

No. 21—ANALYSES OF WATERS FROM PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY

MUNICIPALITY—COUNTY OWNER OF SUPPLY	Color	Odor	Turbidity	Iron	pH	Total Solids	Appearance on Ignition	Oxygen Consumed	Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates	Chlorides	Alkalinity	Total Hardness
Allendale Borough (Bergen) Municipality	0	0	0	.40	7.8	163	No Char	1.1	0	.032	0	2.5	7.0	81.0	156.0
Allenhurst Borough (Monmouth) Municipality	0	0	0	0	7.15	139	No Char	0.2	0	0	0	.16	0.5	74.5	92.0
Allentown Borough (Monmouth) Municipality	0	0	0	.30	6.12	107	No Char	1.0	.048	.048	0	4.5	14.0	0.0	60.0
Alpha Borough (Warren) Municipality	0	0	10	.30	7.62	164	No Char	0.1	.008	.048	0	3.5	3.5	101.0	148.0
Andover Borough (Sussex) Municipality	0	1v	0	0	7.4	203	No Char	0.4	0	.048	.002	2.5	3.5	142.0	188.0
Asbury Park City (Monmouth) Municipality	10	0	10	.60	7.13	61	No Char	0.2	.040	.048	.002	.04	0.5	28.0	44.0
Atlantic City (Atlantic)															
Municipality	0	0	0	.40	5.10	61	Slt Char	2.5	.016	.048	0	.08	11.0	0	14.0
Hotel Brenkers	0	0	0	.20	7.79	185	No Char	1.3	.048	.008	.022	0	12.0	59.0	34.0
Hotel Brighton	0	0	0	0	7.69	126	Slt Char	0.8	0	.024	.001	.04	8.0	58.0	32.0
Chalfonte-Haddon Hall	0	0	0	0	7.02	246	No Char	3.0	.840	.040	2.300	1.40	10.0	60.0	34.0
Marlborough-Blenheim	15	0	10	.80	7.7	235	.....	..	.144	.016	.001	.04	34.0	87.0	30.0
Hotel Traymore	0	0	0	.12	7.0	131	No Char	0.0	.152	.032	.001	0	11.0	64.0	20.0
Hotel Dennis	0	0	0	.20	7.52	151	No Char	1.3	.168	.024	0	0	20.0	68.0	34.0
Atlantic Highlands Borough (Monmouth) Municipality	30	H_2S	18.0	5.2	7.05	116	No Char	.40	.016	0	0	0	6.0	56.0	70.0
Avalon Borough (Cape May) Municipality	0	0	0	0	7.3	198	No Char	0.7	.240	.048	0	0	36.0	89.0	44.0
Avon-by-the-Sea (Monmouth) Municipality	0	0	0	.14	7.47	132	No Char	0.9	.128	.032	.003	0	2.0	78.0	102.0
Bay Head Borough (Ocean) Ocean County Water Co. Bay Head Supply Mantoloking Supply	0	0	0	.20	7.72	108	No Char	0.7	.160	.032	.120	.04	0.5	93.0	78.0
Normandy Beach supply	0	0	0	.70	6.68	79	Slt Char	3.4	.160	.064	0	0	11.0	31.0	36.0
Barnegat City Borough (Ocean) Municipality	0	0	0	.40	7.48	129	No Char	0.9	.008	0	.002	.04	1.0	94.0	56.0
Beach Haven Borough (Ocean) Municipality	0	0	0	.10	6.82	61	No Char	0.3	0	.032	.001	0	5.0	21.0	26.0
Bedminster Township (Somerset) Pottersville Water Co.	10	0	16.5	.18	7.05	74	No Char	1.0	.032	.064	0	1.00	2.0	15.5	40.0
Bellmawr Borough (Camden) Orchard Terrace Water Co.	25	0	16.5	.60	6.7	138	No Char	0.6	.006	.048	0	.08	2.0	87.0	90.0
Belmar Borough (Monmouth) Municipality	0	0	0	.60	7.66	98	No Char	0.5	.160	.032	.003	.04	0.5	73.0	86.0
Belvidere Town (Warren) Buckhorn Springs Water Co.	0	0	0	0	6.85	65	No Char	0.4	.008	.032	0	.08	1.0	17.0	24.0
Berlin Borough (Camden) Municipality	0	0	2.5	.12	6.5	117	Slt Char	1.2	.008	.016	.003	1.20	18.0	32.0	48.0
Bernardsville Borough (Somerset) Bernards Water Co.	0	0	0	0	7.70	103	No Char	1.5	0	.048	0	.60	7.0	25.0	50.0
Beverly City (Burlington) Delaware River Water Co.	0	0	0	.40	6.2	121	No Char	0.6	.240	.048	0	7.0	12.0	25.0	74.0
Blairstown Township (Warren) Blair Academy Water Co.	0	0	0	.12	8.08	280	No Char	0.5	.056	.048	.008	.04	4.0	197.0	156.0
Bloomsbury Borough (Hunterdon) Municipality	0	0	0	0	6.65	113	No Char	1.0	.032	.064	.001	1.00	4.0	28.0	68.0
Bogota Borough (Bergen) Bogota Water Co.	10	0	0	.30	7.5	295	No Char	0.3	0	0	.001	5.0	8.0	111.0	170.0
Boonton Town (Morris) Municipality	0	1e	0	.30	7.35	49	No Char	2.8	.048	.120	.002	.60	2.0	17.0	32.0
Bordentown City (Burlington) Municipality	0	0	0	.10	5.1	78	No Char	0.1	0	.008	.025	2.50	9.5	0	26.0
Bound Brook Borough (Somerset) Bound Brook Water Co.	0	1v	0	.70	7.0	121	No Char	1.6	0	.048	.014	.60	4.5	41.0	64.0

No. 21—ANALYSES OF WATERS FROM PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY—Continued

MUNICIPALITY—COUNTY OWNER OF SUPPLY	Color	Odor	Turbidity	Iron	pH	Total Solids	Appearance on Ignition	Oxygen Consumed	Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates	Chlorides	Alkalinity	Total Hardness
Branchville Borough (Sussex)															
Municipality	100	0	28	2.0	7.25	81	No Char	5.9	.464	.168	.035	.12	7.5	22.0	36.0
Bridgeton City (Cumberland)															
Municipality														(acidity)	
Well No. 1	0	1m	0	.70	5.0	53	No Char	0	.008	.048	.001	1.20	7.0	6.0	28.0
Well No. 2	0	0	0	0	5.7	45	No Char	0.3	.032	.048	.002	2.0	6.0	0	15.6
Sunset Lake	0	0	2.5	.20	6.0	78	No Char	1.3	.072	.082	.001	1.0	9.0	4.0	24.0
Owens-Illinois Glass Co.	0	oily	0	.50	5.0	72	No Char	0	0	.032	.002	5.00	11.5	0	24.0
Brielle Borough (Monmouth)															
Municipality	0	0	0	.70	7.01	18	No Char	1.1	.008	.008	0	0	8.0	17.0	6.0
Brigantine City (Atlantic)															
Municipality	30	0	13.0	.60	7.23	125	Slt Char	1.0	.004	.032	0	.04	6.0	20.0	14.0
Brooklawn Borough (Camden)															
Municipality	0	0	0	1.60	6.29	108	Char	0.4	.048	.048	.006	.08	7.0	78.0	102.0
Burlington City (Burlington)															
Municipality	10	Chlor	10	2.0	7.0	114	Char	0.6	.168	.048	.001	.36	6.0	14.0	44.0
Butler Borough (Morris)															
Municipality	20	0	5.5	.60	6.95	57	Char	3.4	.008	.144	.001	0	1.0	11.0	30.0
Byram Township (Sussex)															
Briar Heights and Della Heights	70	0	50	3.0	6.25	140	No Char	0.8	0	.048	0	.04	4.0	70.0	90.0
Frenches Grove Water Co.	20	1e	22.5	.70	6.62	176	Slt Char	...	0	.088	.011	.04	5.0	104.0	142.0
Strawberry Point Property Owner's Association	0	0	0	.14	7.7	158	No Char	0.8	0	.064	0	0	17.0	71.0	100.0
Califon Borough (Hunterdon)															
Califon Water Co.	0	0	0	.20	6.35	115	No Char	1.0	.024	.008	0	5.0	5.0	21.0	50.0
Camden City (Camden)															
Municipality	0	0	0	.12	5.83	112	No Char	0.1	0	.008	0	4.5	11.0	16.0	52.0
Cape May City (Cape May)															
Municipality	0	0	0	1.20	7.5	226	Slt Char	0.1	.160	.144	.005	0	55.0	82.5	94.0
Cape May Point Borough (Cape May)															
Municipality	0	0	0	.60	8.01	1336	Slt Char	3.6	1.040	.096	.003	0	..	304.0	138.0
Chatham Borough (Morris)															
Municipality	0	0	0	.10	8.0	196	No Char	1.0	0	.032	0	2.50	6.0	84.0	122.0
Chatham Township (Morris)															
Chatham Colony Association	0	0	0	0	7.62	245	No Char	.2	0	.032	0	.60	7.0	54.0	92.0
Chester Borough (Morris)															
Spring Water Co.	0	0	0	.90	6.73	76	No Char	0.5	0	.032	0	3.5	3.0	32.0	52.0
Chester Township (Burlington)															
Municipality	0	Chl	0	.10	6.6	84	No Char	0.1	0	.004	0	.12	3.0	45.5	54.0
Chesterfield Township (Burlington)		3													
Crosswicks Water Co.	0	Chl	0	.40	7.0	78	No Char	0.3	.016	.032	0	7.0	5.5	5.0	38.0
Clayton Borough (Gloucester)															
Municipality	0	0	0	0	6.5	125	No Char	0.1	0	.064	0	7.0	13.0	10.0	36.0
Clementon Borough (Camden)															
Municipality	0	0	0	.10	7.35	105	Slt Char	0.5	.048	.032	0	.04	1.0	65.0	78.0
Clinton Town (Hunterdon)															
Beaver Brook Water Co.	25	1e	26.5	0	7.28	75	Slt Char	1.9	.064	.064	.018	2.50	2.0	16.0	32.0
Collingswood Borough (Camden)															
Municipality	0	0	0	.20	7.45	100	No Char	0.1	.032	.064	0	.12	2.0	51.0	80.0
Cranbury Township (Middlesex)															
Cranbury Water Co.	0	0	0	.30	6.65	43	No Char	0.2	.008	.032	.001	1.00	1.0	9.0	26.0
Denville Township (Morris)															
Municipality	0	0	0	30	7.21	109	No Char	0.1	0	.008	.022	.04	3.0	88.0	110.0
Dover Town (Morris)															
Municipality															
Well Supply	0	0	0	0	7.38	150	No Char	.45	0	0	.003	1.60	8.0	121.0	118.0
Spring Supply	0	0	0	.30	6.88	204	No Char	.35	0	.048	.002	1.0	4.0	85.0	100.0
Dover Township (Ocean)															
Toms River Water Co.	0	0	0	.70	7.9	90	No Char	1.0	.016	.048	.002	.32	6.5	43.0	52.0
Downe Township (Cumberland)															
Est. of Herbert Garrison	0	0	0	0	7.88	182	No Char	.45	.036	.048	0	0	8.0	93.0	92.0
South Fortescue Well Owners Water Co.	0	0	0	.10	7.9	179	No Char	0.4	.032	.048	0	0	4.0	91.0	100.0
J. C. Remington	0	0	0	.10	7.89	170	No Char	0.5	.048	.048	0	0	4.5	90.0	102.0

No. 21—ANALYSES OF WATERS FROM PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY—Continued

MUNICIPALITY—COUNTY OWNER OF SUPPLY	Color	Odor	Turbidity	Iron	pH	Total Solids	Appearance on Ignition	Oxygen Consumed	Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates	Chlorides	Alkalinity	Total Hardness
East Greenwich Township (Gloucester) Municipality	0	0	0	.20	7.8	297	No Char	0.7	.280	.032	.004	.04	45.0	178.0	42.0
East Orange City (Essex) Municipality	0	0	0	.10	7.65	181	No Char	1.0	0	.032	.002	1.40	8.0	95.5	126.0
Eastampton Township (Burlington) H. B. Smith Machine Co.	55	2m	22.5	2.80	7.06	109	Slt Char	0.4	.048	0	.001	.12	5.0	54.0	76.0
Egg Harbor City (Atlantic) Municipality	0	0	0	0	6.25	83	No Char	0.7	0	.048	.001	0	4.0	16.0	16.0
Elizabeth City (Union) Elizabethtown Water Co. Raritan-Millstone	0	2e	0	0	7.12	130	Char	2.1	.032	.096	.001	.60	11.0	37.0	80.0
Elmer Borough (Salem) Elmer Water Co.	0	0	0	.50	5.6	54	No Char	.15	0	.008	.001	2.5	4.5	3.5	14.0
Essex Fells Borough (Essex) Municipality															
No. 1 Pumping Station	0	0	0	0	7.30	220	No Char	0.3	.032	.072	.001	1.00	7.0	74.0	112.0
No. 2 Pumping Station	0	0	0	0	6.72	81	No Char	0.7	.016	.048	.001	.04	5.0	31.0	52.0
No. 4 Pumping Station	0	0	0	0	7.49	216	No Char	0.5	0	.032	.001	4.5	21.0	79.0	158.0
Evesham Township (Burlington) Marlton Water Co.	0	0	0	.30	7.6	173	Slt Char	0.6	.008	.032	0	.04	1.0	118.0	130.0
Ewing Township (Mercer) Crestmont Park Water Supply	0	2v	2.0	0	6.9	130	No Char	0.4	0	.004	.002	2.00	6.0	5.0	58.0
Fair Lawn Borough (Bergen) Municipality	0	1m	0	0	6.9	328	No Char	.25	0	.032	.001	17.0	14.0	55.0	172.0
Farmingdale Borough (Monmouth) Municipality	0	0	0	1.40	7.2	126	No Char	0.3	.032	.032	.002	0	2.0	108.0	114.0
Flemington Borough (Hunterdon) Flemington Water Co.	0	1e	0	.70	7.36	150	No Char	0.9	0	.048	0	0.6	4.0	65.0	98.0
Florence Township (Burlington) Municipality	0	0	0	0	5.12	62	No Char	0.2	0	.004	.001	3.50	6.0	3.0	24.0
John A. Roebling's Sons Co.	0	0	0	0	7.31	147	No Char	0.2	.008	.032	0	.08	6.1	69.0	100.0
Florham Park Borough (Morris) Municipality	0	0	0	.10	7.15	157	No Char	0.5	.016	.032	.000	.24	8.0	98.0	118.0
Franklin Borough (Sussex) Franklin Water Co.	5	0	0	.06	...	201	Hvy Char	..	.032	.128	0	.12	5.0	92.0	158.0
Franklin Lakes Borough (Bergen) Tri-Corner Realty Co.	0	0	0	.20	8.18	106	No Char	0.7	0	.032	0	2.5	3.0	50.0	90.0
Freehold Borough (Monmouth) Municipality	55	0	21	1.80	7.6	247	Char	0.5	.008	.048	0	.04	8.0	98.0	158.0
Frenchtown Borough (Hunterdon) Frenchtown Water Co.	0	Chl	0	0	7.15	199	No Char	0.8	0	.016	0	.60	6.0	104.0	128.
Garfield City (Bergen) Municipality	0	0	0	.40	8.0	222	No Char	0.2	0	.040	0	5.0	8.0	76.0	184.0
Glassboro Borough (Gloucester) Municipality	0	0	0	.40	7.88	133	No Char	0.2	.088	.088	0	.04	6.0	89.0	70.0
Glen Gardner Borough (Hunterdon) Glen Gardner Water Co.	45	0	20	1.40	7.2	57	No Char	0.6	.004	.072	.002	.20	4.0	15.0	28.0
Gloucester City (Camden) Municipality	30	0	31	1.80	7.75	106	No Char	0.1	.120	.040	0	.04	5.0	58.0	60.0
Gloucester Township (Camden) Blackwood Water Co.	0	0	0	.20	7.8	126	No Char	0.4	.240	.072	.036	0	1.0	88.0	50.0
Gronloch Real Estate Co.	0	0	0	.20	7.3	107	No Char	0.4	.088	.004	0	0	13.0	65.0	76.0
Greenwich Township (Gloucester) Municipality	0	0	0	0	6.65	275	No Char	3.7	.400	.096	4.500	14.0	25.0	42.0	144.0
E. I. du Pont de Nemours & Co.	0	0	0	0	5.48	145	No Char	0.2	0	.040	0	7.0	27.5	20.0	48.0
Greenwich Township (Warren) Stewartsville Water Co.	0	Slt Char	0	0	7.2	178	No Char	0.4	0	.004	0	1.20	8.0	91.0	134.0
Hackettstown Town (Warren) Municipality	15	Pungent	4.5	.15	5.8	51	Slt Char	1.7	0	.056	0	.48	3.0	16.0	28.0
Haddonfield Borough (Camden) Municipality	35	0	33	1.2	7.25	150	No Char	0	.160	.040	.001	0	1.0	70.0	80.0

No. 21—ANALYSES OF WATERS FROM PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY—Continued

MUNICIPALITY—COUNTY OWNER OF SUPPLY	Color	Odor	Turbidity	Iron	pH	Total Solids	Appearance on Ignition	Oxygen Consumed	Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates	Chlorides	Alkalinity	Total Hardness
Haddon Heights Borough (Camden)															
New Jersey Water Co.															
Main Station	0	0	0	0	7.45	188	No Char	0.1	.016	.072	.001	.08	2.5	77.0	92.0
Ashland Station	10	0	13	.90	7.65	154	Slt Char	..	.128	.082	.001	.04	4.0	83.0	104.0
Stockton Station	0	0	0	0	6.4	126	No Char	0.1	.048	.040	0	5.0	14.0	23.5	54.0
Haledon Borough (Passaic)															
Municipality	0	0	0	.20	7.1	125	Slt Char	1.7	.008	.072	.005	.36	6.5	23.0	72.0
Hamburg Borough (Sussex)															
Municipality	0	0	0	.16	7.5	326	No Char	0.3	0	.048	.001	3.0	11.5	234.0	144.
Hamilton Township (Atlantic)															
Municipality	25	0	13	1.20	7.49	77	No Char	0.5	.032	0.32	.004	0	2.5	21.0	28.0
Hamilton Township (Mercer)															
Hamilton Square Water Co.	0	0	0	.10	4.95	42	No Char	0.2	0	.016	.001	2.50	6.0	0	16.0
Pearl E. Cranmer	0	0	0	.80	5.82	88	No Char	0.3	.032	0	.008	6.00	5.0	6.0	20.0
Andrew Gropp	0	0	0	.90	5.5	60	No Char	0.1	.016	.016	.003	5.00	8.0	2.0	16.0
E. T. McGalliard	10	0	0	.70	6.1	20	No Char	0.8	.032	.032	.001	.48	6.0	3.0	19.5
Est. of W. V. McGalliard	10	0	39.5	2.6	6.35	37	No Char	.25	.032	.072	.000	1.0	2.0	1.0	4.0
Hammonton Town (Atlantic)															
Municipality	0	0	0	.90	6.15	34	No Char	0.1	.032	.048	.001	.04	3.0	6.0	12.0
Hampton Borough (Hunterdon)															
Junction Water Co.	0	0	0	1.20	6.78	58	No Char	1.5	.032	.064	.002	.60	3.0	2.0	36.0
Frank Riddle	0	0	0	.12	5.62	224	No Char	0.9	.016	.048	0	7.0	12.0	32.0	94.0
Harrison Township (Gloucester)															
South Jersey Water Supply Co.	0	0	0	.12	7.89	496	No Char	2.9	.320	.032	.003	0	131.0	262.0	32.0
Harvey Cedars Borough (Ocean)															
Municipality	55	0	18.0	1.40	6.78	78	No Char	0.2	.048	0	0	.08	5.0	19.0	18.0
Hawthorne Borough (Passaic)															
Municipality	0	0	0	.20	6.82	152	No Char	0	.016	.032	0	3.5	6.5	64.0	114.0
Helmetta Borough (Middlesex)															
George W. Helme Co.	0	Arom.	0	.40	6.75	81	No Char	1.9	.064	.064	.004	1.60	10.0	18.0	46.0

High Bridge Borough (Hunterdon)															
Municipality	0	0	0	.90	6.29	78	Slt Char	1.0	.048	.064	0	.80	2.5	20.0	32.0
Highlands Borough (Monmouth)															
Municipality	0	0	0	.10	6.55	218	No Char	0.1	0	.048	0	0	48.0	47.0	106.0
Hightstown Borough (Mercer)															
Municipality	0	1v	0	.20	8.42	49	Slt Char	.2	.000	.016	0	.040	2.0	32.5	38.0
Holland Township (Hunterdon)															
Riegel Paper Corp.	10	0	5	.20	7.3	117	No Char	1.8	0	.048	.005	.36	5.0	34.0	72.0
Hopatcong Borough (Sussex)															
Morris & Sussex Water Service Inc.	0	1v	0	.30	7.5	143	No Char	0.3	0	.032	0	.08	4.0	78.0	88.0
Hopewell Borough (Mercer)															
Municipality	0	0	0	0	7.0	182	No Char	0.6	0	0	.003	.36	7.0	90.0	138.0
Irvington Town (Essex)															
Municipality	0	0	0	.10	6.7	406	Slt Char	1.3	.008	.048	.003	7.0	25.0	108.0	320.0
Island Heights Borough (Ocean)															
Municipality	0	Slt Chl	0	1.60	7.15	102	No Char	0.9	.048	0	.001	.04	6.0	54.0	6.0
Jamesburg Borough (Middlesex)															
Jamesburg Water Co.	0	0	0	.70	5.3	28	No Char	1.3	0	.008	.001	.60	3.0	2.0	6.0
Jefferson Township (Morris)															
Cozy Lake Estate	0	1m	0	.14	7.08	82	No Char	0.4	0	.048	.001	.08	1.5	50.0	74.0
Prospect Point Water Co.	0	0	0	.12	7.5	90	No Char	0.3	0	.040	0	.04	2.0	22.0	50.0
Jersey City (Hudson)															
Municipality	10	0	0	.14	7.1	67	Slt Char	2.5	.032	.064	.001	.32	3.0	13.0	36.0
Jersey Homesteads Borough (Monmouth)															
Municipality	0	2v	13	.90	7.51	79	No Char	0.1	.008	.016	.001	0	1.0	53.0	66.0
Keansburg Borough (Monmouth)															
Municipality	0	0	0	.01	6.1	46	No Char	0	.016	.024	.002	.02	2.0	14.0	28.0
Keyport Borough (Monmouth)															
Municipality	0	0	0	0	5.65	25	No Char	0.3	0	.032	.002	.08	1.5	7.0	18.0
Lakehurst Borough (Ocean)															
Municipality	0	0	0	0	5.85	22	Slt Char	0.4	0	.016	0	0	4.0	2.0	12.0
Lakewood Township (Ocean)															
Lakewood Water Co.	15	0	11.5	.70	7.05	73	No Char	2.2	.048	.004	.001	.04	2.5	43.0	48.0

No. 21—ANALYSES OF WATERS FROM PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY—Continued

MUNICIPALITY—COUNTY OWNER OF SUPPLY	Color	Odor	Turbidity	Iron	pH	Total Solids	Appearance on Ignition	Oxygen Consumed	Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates	Chlorides	Alkalinity	Total Hardness
Lambertville City (Hunterdon)															
Lambertville Water Co.	0	0	0	0	6.23	75	Char	3.4	.304	.128	.017	.36	5.0	16.0	44.0
Laurel Springs Borough (Camden)															
Laurel Springs Water Works	0	0	0	.40	8.0	132	No Char	0.4	.032	.024	.002	0	8.0	76.0	100
Lavallette Borough (Ocean)															
Municipality	0	0	0	.16	7.86	184	No Char	1.0	.256	.032	.055	.04	2.0	172.0	26.0
Lawrence Township (Mercer)															
Lawrenceville Water Co.															
Well No. 4—Green Ave.	0	0	15	.40	6.55	125	No Char	0.7	.032	.064	.002	5.0	7.0	34.0	48.0
Well No. 3—Green Ave.	0	0	0	.14	6.76	111	No Char	0.1	0	.04	0	4.0	9.0	20.0	30.0
Well No. 2—Phillips Ave.	0	0	0	.10	7.39	190	No Char	0.7	0	.032	0	2.50	12.0	64.0	110.
Lincoln Park Borough (Morris)															
Wm. C. Christopherson	0	0	0	.04	7.5	410	No Char	0	0	.032	.0005	3.0	7.0	80.0	152.0
Chas. N. Evans Development Water Co.	0	0	0	.14	7.75	124	No Char	0.1	.072	.120	.004	.12	5.5	91.0	92.0
Lincoln Park Water Co.	0	0	0	0	7.9	124	No Char	0	.048	.032	.004	.04	3.5	57.0	86.0
Mountain Heights Water Co.	0	0	0	.14	7.75	139	No Char	0	.032	.064	.006	.32	2.5	76.0	102.0
Mountain View Water Co.	0	0	0	0	7.75	186	No Char	0.4	.160	.048	.001	.60	6.0	67.5	116.0
Lodi Borough (Bergen)															
Municipality	0	0	0	0	7.88	245	No Char	0.6	0	.040	0	0.0	11.0	97.0	188.0
Logan Township (Gloucester)															
Bridgeport Water Co.	0	0	0	0	4.9	128	No Char	0.2	.016	.048	.003	7.0	11.0	0	86.0
Long Beach Township (Ocean)															
Long Beach Water Co.	0	1e	0	.10	7.55	144	No Char	2.0	.144	.048	0	0	2.0	61.5	20.0
Long Branch City (Monmouth)															
Monmouth Consolidated Water Co.															
Jumping Brook Station	0	0	0	.10	6.62	126	Hvy Char	1.2	.032	.080	.0005	.16	11.0	7.0	52.0
Swimming River (Newman Springs)	0	0	0	.14	6.88	102	No Char	0.6	0	.032	.001	1.00	9.0	20.0	60.0
Hoyes Pond (West End Station)	0	0	0	.10	7.15	141	Char	0.6	0	.040	.001	.00	11.5	17.0	52.0
Longport Borough (Atlantic)															
Municipality	0	0	0	.00	6.12	140	No Char	0.7	.096	.032	.001	.02	8.0	58.0	40.0

Lopatcong Township (Warren)															
Lopatcong Water Co.	20	0	10	1.40	7.0	81	Char	3.1	.264	.096	.014	.20	4.0	19.0	30.0
Lower Penns Neck Township (Salem)															
E. I. du Pont de Nemours & Co.	0	0	0	.70	7.87	237	Slt Char	1.5	.096	.072	.001	.04	52.5	118.0	20.
Regina H. Weinberg	0	0	0	.40	5.68	244	Slt Char	0.3	.456	.004	.016	9.0	30.0	21.0	74.0
Lumberton Township (Burlington)															
Lumberton Water & Sewage Co.	45	2m	16.5	.90	6.4	133	Slt Char	0.4	.200	.016	0	.04	1.0	82.0	92.0
Madison Borough (Morris)															
Municipality	0	0	0	0	6.93	201	No Char	0.6	.024	.048	.001	5.0	7.5	101.0	142.0
Manasquan Borough (Monmouth)															
Municipality	0	0	0	.50	6.78	59	No Char	1.0	.008	.040	.001	.04	9.0	13.0	16.0
Mansfield Township (Burlington)															
Columbus Water Co.	10	0	33.0	1.30	6.75	127	No Char	0.3	.088	.008	.001	0	1.0	83.0	82.0
Mantua Township (Gloucester)															
Mantua Water Co.	0	0	0	.40	7.75	205	No Char	1.2	.144	.032	.003	.08	6.0	148.0	26.0
Sewell Water Co.	0	0	0	.90	7.45	133	No Char	.02	.024	.032	.001	.04	7.0	60.0	94.0
Manville Borough (Somerset)															
Municipality	0	0	0	.14	7.25	270	No Char	0.2	.048	.048	0	12.0	20.0	48.0	140.0
Margate City (Atlantic)															
Municipality	0	0	0	.12	7.4	160	No Char	1.8	.064	.024	0	.12	28.0	132.0	66.0
Matawan Borough (Monmouth)															
Municipality	0	0	0	.40	6.0	40	No Char	0.2	.024	.024	0	.02	2.0	4.0	14.0
Medford Township (Burlington)															
Medford Water Co.	10	0	14.0	.00	7.1	221	No Char	0.3	.080	.056	0	0	2.0	174.0	178.0
Est. Thomas Murray	0	0	0	.14	6.98	105	Slt Char	0.3	0	.048	0	.04	2.0	68.0	78.0
Mendham Borough (Morris)															
Municipality	0	1v	0	.40	6.98	62	Slt Char	3.1	.016	.096	0	.36	1.5	23.0	28.0
Merchantville Borough (Camden)															
Merchantville-Pennsauken Water Commission															
Park Ave. Well Field	0	0	0	.06	6.7	80	No Char	0.6	0	0	.001	2.50	9.0	8.0	40.0
Delaware Gardens Well	0	0	0	.50	5.9	82	No Char	0.2	.032	0	.036	5.5	9.0	4.5	26.0
Middle Township (Cape May)															
Neptunus Water Co.	0	0	0	.10	6.60	100	No Char	0.3	0	.048	.001	5.5	15.0	12.0	38.0
Middletown Township (Monmouth)															
Ideal Beach Water Co.	0	0	0	.10	5.90	61	No Char	0	0	.032	.002	0	3.0	15.0	30.0

No. 21—ANALYSES OF WATERS FROM PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY—Continued

MUNICIPALITY—COUNTY OWNER OF SUPPLY	Color	Odor	Turbidity	Iron	pH	Total Solids	Appearance on Ignition	Oxygen Consumed	Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates	Chlorides	Alkalinity	Total Hardness
Milford Boro (Hunterdon)															
Municipality	0	0	0	.40	7.18	307	No Char	0.6	0	.016	.001	.60	8.0	108.0	206.0
Riegel Paper Corp.	0	0	0	.14	7.45	134	No Char	0.9	.056	.032	.001	.60	6.0	61.0	100.0
Millville City (Cumberland)															
Municipality	0	0	0	.60	5.50	37	No Char	0.6	.008	0	.003	0.	5.0	6.0	22.0
Millville Water Co.	12.5	0	14.0	.80	4.5	66	Slt Char	17.7	.032	.144	.002	.60	5.0	5.0	16.0
Mine Hill Township (Morris)															
Bassett Park Association	0	0	0	0	7.0	81	No Char	0.3	.016	.040	.004	3.5	5.5	22.0	30.0
Monroe Township (Gloucester)															
Municipality	35	0	10	1.1	5.48	41	No Char	1.3	.256	.072	.001	2.50	4.0	4.0	6.0
Moorestown Township (Burlington)															
Municipality	0	0	0	.10	7.15	135	Slt Char	0.1	.016	.064	.001	.60	3.5	52.0	84.0
Morristown Town (Morris)															
Municipality	0	0.	0	.50	6.81	33	No Char	2.3	.004	.004	.003	.08	2.5	11.0	22.0
Mount Arlington Borough (Morris)															
Helen T. Cronin	5	0	33	.70	9.08	141	No Char	0.4	0	.064	.003	.16	3.0	47.0	90.0
Mount Holly Township (Burlington)															
Mount Holly Water Co.	0	0	0	.16	7.3	102	No Char	0.4	.016	.032	0	.08	3.0	78.0	78.0
Mount Olive Township (Morris)															
	0	0	0	0	7.2	39	No Char	0.5	0	.032	0	.12	1.5	9.5	10.0
W. H. Bartley	0	0	0	.28	7.1	45	No Char	0.4	0	.032	0	0	2.5	12.0	10.0
H. R. H. Nicholas	0	2v	0	0	6.20	74	No Char	3.3	0	.032	0	1.60	4.0	13.0	28.0
Budd Lake Manor Corp.	0	0	0	.20	5.95	74	No Char	0.2	0	.024	.002	.16	3.0	18.0	40.0
Est. of Aaron S. Hulse	0	0	0	.30	6.8	95	No Char	0.3	0	.048	0	.04	1.0	51.0	56.0
Pinecrest Improvement Association	0	0	0	.30	6.8	95	No Char	0.3	0	.048	0	.04	1.0	51.0	56.0
Arthur Reid	65	0	36.5	1.60	7.0	80	No Char	0.4	.072	.056	.010	1.20	3.0	24.0	34.0
Stonwald Park Association	0	0	0	.10	6.12	142	No Char	0.4	0	.040	.004	2.50	6.0	35.0	74.0
West Jersey Water Service	0	0	0	.10	6.35	52	No Char	.20	0	.032	0	.60	3.0	7.0	16.0
Mountain Lakes Borough (Morris)															
Municipality	0	0	0	.14	7.39	87	No Char	0.1	0	.088	.002	1.00	2.5	37.0	72.0

National Park Borough (Gloucester)															
Municipality	0	0	0	1.20	5.84	101	No Char	0.6	.096	.048	.034	4.5	22.0	5.0	32.0
Netcong Borough (Morris)															
Municipality	0	0	6.5	.70	7.7	110	No Char	0	0	.016	0	0.4	3.0	66.0	86.0
New Brunswick City (Middlesex)															
Municipality	25	0	9.0	.70	7.5	88	No Char	4.25	.280	.072	.004	.032	6.0	13.0	38.0
New Milford Borough (Bergen)															
Hackensack Water Co.	0	1v	0	.14	6.93	100	No Char	1.2	0	.064	0	.40	4.0	27.0	68.0
Newark City (Essex)															
Municipality	0	Arom.	0	.10	7.58	77	No Char	2.1	.016	.120	.0015	.08	4.0	14.0	42.0
Newfield Borough (Gloucester)															
Municipality	0	0	0	0	5.9	68	No Char	0.2	0	0	0	.60	6.0	0.5	6.0
Newton Town (Sussex)															
Municipality	10	1v	13	.10	7.05	68	Slt Char	3.05	.016	.176	0	0	2.0	21.0	52.0
Oakland Borough (Bergen)															
Municipality	0	0	0	.40	6.95	107	Slt Char	0	0	.048	.002	.60	1.5	40.0	58.0
Ocean City (Cape May)															
Ocean City Water Service Co.	0	0	0	.10	7.78	171	No Char	0.5	.020	.072	.004	.08	8.0	66.0	30.0
Ocean Gate Borough (Ocean)															
Municipality	0	0	5.5	.70	6.85	109	No Char	0.2	.040	.048	.002	.12	4.0	68.0	58.0
Ogdensburg Borough (Sussex)															
Municipality	0	2e	0	.30	7.4	74	No Char	1.6	0	.048	0	.08	1.0	10.0	32.0
Orange City (Essex)															
Municipality	0	0	0	0	7.45	127	No Char	1.1	0	.032	.001	.60	4.0	52.0	76.0
Oxford Township (Warren)															
Alan Wood Steel Co.	0	0	0	.20	6.62	80	No Char	1.3	.032	.056	.002	.60	3.0	20.0	50.0
Palmyra Borough (Burlington)															
Riverton-Palmyra Water Co.	0	0	0	.14	6.0	181	No Char	0.5	0	.008	.004	5.5	28.0	14.0	88.0
Park Ridge Borough (Bergen)															
Municipality	0	0	0	0	7.55	175	No Char	.20	0	.032	0	1.0	10.0	100.0	126.0
Parsippany-Troy Hills Township (Morris)															
Municipality	0	0	0	.20	7.32	151	No Char	0.4	0	.032	.001	.32	7.0	88.0	112.0
Brooklawn Farms Water Co.	0	0	0	0	6.99	128	No Char	0.7	.016	.008	.001	3.5	4.0	58.0	96.0

No. 21—ANALYSES OF WATERS FROM PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY—Continued

MUNICIPALITY—COUNTY OWNER OF SUPPLY	Color	Odor	Turbidity	Iron	pH	Total Solids	Appearance on Ignition	Oxygen Consumed	Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates	Chlorides	Alkalinity	Total Hardness
Passaic Township (Morris)															
Small Farms Association	0	0	0	.10	6.8	223	No Char	1.0	.032	.008	0	1.00	4.0	47.0	70.0
Paterson City (Passaic)															
Passaic Valley Water Commission															
Passaic River Supply	0	0	3.5	...	6.6	93	Hvy Char	2.4	.064	.072	.001	.40	..	..	..
Wanaque Supply	10	Slt oily	0	.20	7.3	54	No Char	1.8	.016	.056	.001	.16	6.0	13.0	20.0
Paulsboro Borough (Gloucester)															
Municipality	0	0	0	1.40	5.95	108	Slt Char	0.6	.096	.048	.011	1.40	22.0	3.0	38.0
Peapack-Gladstone Borough (Somerset)															
Municipality	0	0	16.5	.14	7.38	74	Slt Char	2.5	.096	.096	0	.32	2.0	22.0	24.0
Pemberton Borough (Burlington)															
Municipality															
Surface Supply	550	1c	6.5	5.0	4.8	93	Char	16.7	.024	.336	.001	.08	6.0	1.0	22.0
Well Supply	0	0	0	.30	7.92	184	Slt Char	0.4	.064	.064	0	0	3.0	133.0	146.0
Pemberton Township (Burlington)															
Browns Mills Land Co. Inc.	0	0	0	0	7.81	120	No Char	0.4	.280	.048	0	0	3.0	94.0	96.0
Pennington Borough (Mercer)															
Municipality	10	0	8.0	.70	6.82	126	Slt Char	0.8	.016	.032	0	.60	6.0	52.0	84.0
Pennsgrove Borough (Salem)															
Pennsgrove Water Supply Co.	0	0	8.0	.40	7.52	86	No Char	0.6	0	.048	.001	.16	4.0	62.0	58.0
Perth Amboy City (Middlesex)															
Municipality	25	1 Chem.	2.0	1.60	6.4	78	Char	1.7	.024	.016	.001	.08	6.0	20.0	50.0
Phillipsburg Town (Warren)															
Peoples Water Co.	0	0	0	.10	7.6	177	No Char	1.0	0	.088	.003	.60	4.0	108.0	166.0
Pitman Borough (Gloucester)															
Municipality	0	0	0	.16	7.8	286	No Char	1.4	.176	.032	.015	.04	26.0	202.0	8.0
N. J. Conference Camp Meeting Assoc.	0	0	0	.16	8.12	287	No Char	0.7	.312	.032	.001	.01	15.0	216.0	10.0

Plainfield City (Union)															
Plainfield Union Water Co.															
Netherwood Station	0	0	0	4.80	7.62	290	No Char	0.2	.024	0	0	5.0	11.0	141.0	222.0
Clinton Ave. Station	0	0	2.5	.04	7.9	420	No Char	0.5	.024	.016	.002	6.00	11.0	66.0	214.0
Pleasantville City (Atlantic)															
Atlantic County Water Co. of N. J.															
Pleasantville No. 1	0	..	0	0	5.45	108	No Char	0.3	.032	.040	0	.20	9.0	0	16.0
Somers Point No. 2	0	0	0	.14	5.68	161	No Char	0.1	.016	.016	0	.04	12.0	2.0	14.0
Pleasantville No. 2	0	0	0	.40	5.60	106	No Char	0	.016	.024	0	.48	14.0	1.0	18.0
Plumstead Township (Ocean)															
New Egypt Water Co.	0	0	0	.7	7.10	112	No Char	.3	.048	.016	.002	0	4.0	77.0	72.0
Pohatcong Township (Hunterdon)															
Riegel Paper Corp.															
Warren Glen	0	0	0	.06	6.90	299	Slt Char	0.3	0	.032	.001	.40	4.0	83.0	122.0
Riegelsville	0	1 Arom.	0	.20	6.85	91	No Char	0.6	0	.032	.003	1.20	4.0	20.0	46.0
Point Pleasant Borough (Ocean)															
Municipality	0	1m	0	.16	7.78	94	No Char	0.8	.008	.016	.001	.12	0	88.0	80.0
Point Pleasant Beach Borough (Ocean)															
Municipality	25	0	5	1.60	7.28	50	No Char	1.0	.096	.008	.003	0	10.0	29.0	28.0
Princeton Borough (Mercer)															
Princeton Water Co.	0	0	0	0	7.09	267	No Char	0.4	0	.040	0	.60	9.0	146.0	108.0
Rahway City (Union)															
Municipality	0	0	0	.50	7.25	162	No Char	2.1	.056	.064	.023	.60	8.5	44.5	90.0
Ramsey Borough (Bergen)															
Municipality	0	0	2.0	Trace	7.9	205	No Char	0.2	.000	.024	.0005	1.0	7.0	66.0	108.
Raritan Township (Middlesex)															
New Brunswick Water Co.	0	0	0	0	7.5	250	Slt Char	..	.016	.032	.200	.12	16.0	156.0	178.6
Red Bank Borough (Monmouth)															
Municipality	0	0	0	0	6.48	175	No Char	0.3	.016	.032	0	0	..	..	..
Ridgewood Village (Bergen)															
Municipality															
Cedar Hill	0	0	0	0	7.42	136	No Char	.23	0	0	0	3.5	6.0	63.0	100.0
Wortendyke	0	0	0	0	7.08	191	No Char	.30	0	.032	0	6.5	9.0	81.0	124.0
East Glen Ave.	30	0	29.5	4.8	7.2	174	Slt Char	.20	.032	.064	0	3.5	7.0	66.0	104.0
East Ridgewood Ave.	0	0	0	.14	7.4	351	No Char	.35	.032	.016	0	5.0	9.0	73.0	118.0
Grove St.	0	0	0	.14	7.62	122	No Char	.55	0	.048	0	2.5	8.0	71.0	110.0

No. 21—ANALYSES OF WATERS FROM PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY—Continued

MUNICIPALITY—COUNTY OWNER OF SUPPLY	Color	Odor	Turbidity	Iron	pH	Total Solids	Appearance on Ignition	Oxygen Consumed	Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates	Chlorides	Alkalinity	Total Hardness
Ringwood Borough (Passaic)															
Ringwood Co.															
Well No. 3	0	0	0	.14	6.05	117	Slt Char	0.4	.016	.048	0	.08	5.0	54.0	58.0
Well No. 4	0	0	0	.10	5.85	105	No Char	0.3	.016	.056	0	0	3.0	46.0	60.0
Rockaway Borough (Morris)															
Municipality	0	0	0	.10	7.08	77	Char	0.3	.032	.024	.010	.32	4.0	38.0	50.0
Rocky Hill Borough (Somerset)															
Municipality	10	0	18.0	.40	7.25	157	No Char	0.2	0	0	.002	2.50	5.0	72.0	88.0
Salem City (Salem)															
Municipality															
Quinton Wells															
Laurel Lake	0	0	0	.30	7.2	130	Slt Char	1.8	.032	.040	0	.16	7.0	42.0	52.0
Layne Well No. 1	55	0	41.0	2.60	6.50	686	No Char	1.1	.016	.082	0	.04	179.5	78.0	330.0
Layne Well No. 2	0	0	0	.50	6.90	178	No Char	0.8	.048	.032	0	.04	6.5	119.0	160.0
Sea Girt Borough (Monmouth)															
Municipality	20	0	0	2.60	7.10	30	No Char	0.8	0	.016	.002	0	9.0	12.0	12.0
Sea Isle City (Cape May)															
Municipality	0	Kero-sene	0	.14	8.2	138	No Char	1.4	.064	.040	.001	0	14.0	92.5	34.0
Seaside Heights Borough (Ocean)															
Municipality	45	0	0	.90	6.86	85	No Char	1.3	.064	.048	0	0	3.0	22.0	16.0
Seaside Park Borough (Ocean)															
Municipality	0	0	0	.14	8.35	169	No Char	0.9	.096	.032	0	.04	2.0	112.	8.0
Ship Bottom-Beach Arlington (Ocean)															
Municipality	30	0	15.5	4.40	6.8	83	No Char	0	.004	.048	.002	0	3.0	15.0	10.0
Somerville Borough (Somerset)		Slt													
Somerville Water Co.	0	Chl	0	0	6.25	137	Char	0.8	.080	.048	.001	.80	8.0	6.0	52.0
South Amboy City (Middlesex)														acidity	
Municipality	0	0	0	.90	4.08	46	No Char	0.2	.048	.040	.003	.16	3.0	10.0	8.0
South Brunswick Township (Middlesex)															
Kingston Water Co.	0	0	0	0	7.25	138	No Char	0.4	.016	.064	.008	.20	4.0	73.0	90.0

South Orange Village (Essex)															
Municipality	0	0	0	.10	7.5	354	Char	0.6	.008	.032	.001	5.0	27.0	110.	50.
South River Borough (Middlesex)															
Municipality	0	0	0	.16	7.24	71	No Char	0.3	.008	.080	0	.60	4.5	28.5	48.0
Southampton Township (Burlington)															
Vincentown Water Co.	0	0	0	.60	7.4	168	No Char	0.8	.048	.064	.002	.20	1.0	90.0	90.0
Sparta Township (Sussex)															
E. J. & Laura Dugan	0	0	0	0	7.65	288	No Char	0.2	.016	.072	0	.44	2.0	186.0	232.0
Lake Mohawk-Sparta Water Co.															
Well No. 1	0	0	0	0	7.5	220	No Char	0.8	.048	.072	0	.60	7.0	171.0	202.0
Well No. 2	0	0	0	12	7.7	163	Slt Char	1.2	.064	.072	.003	.32	2.0	131.0	154.0
Well No. 3	0	0	0	0	7.6	218	No Char	..	0	.032	0	.60	3.0	173.0	208.0
Well No. 5	0	0	0	.10	7.25	128	No Char	0.4	.008	.032	0	.16	2.0	81.0	116.0
Spring Lake Borough (Monmouth)															
Municipality	0	0	0	.40	7.70	97	No Char	1.0	.032	.032	.008	.08	0.5	74.0	88.0
Stanhope Borough (Sussex)															
Municipality	70	0	50	4.0	6.2	100	Slt Char	0.7	.016	.032	.003	.08	5.0	26.0	44.0
Stockton Borough (Hunterdon)															
Municipality	0	0	0	.10	6.02	89	No Char	0.7	0	.016	.001	.60	4.0	27.0	30.0
Stone Harbor Borough (Cape May)															
Municipality	0	0	0	0	8.35	186	No Char	0.7	.184	.040	.003	.04	14.0	98.0	18.0
Summit City (Union)															
Commonwealth Water Co.															
Canoe Brook Station	0	0	0	.16	6.7	193	Slt Char	1.3	.064	.048	0	.40	6.0	62.0	138.
Baltusrol Station	0	0	0	0	6.08	110	Slt Char	0.7	.016	.064	.001	.36	3.0	39.0	42.0
Short Hills Station	0	0	2.5	..	7.4	...	.....	..	..	..	..	..	..	106.	..
Surf City Borough (Ocean)															
Municipality	0	1m	0	1.80	6.29	63	No Char	0.6	.048	.032	.001	.04	4.0	20.0	28.0
Sussex Borough (Sussex)															
Municipality	0	0	0	.70	6.7	44	Slt Char	3.3	.032	.056	0	0	4.0	2.0	12.0
Swedesboro Borough (Gloucester)															
Municipality	45	0	29.5	1.70	7.4	192	Slt Char	0.1	.144	.032	0	.04	31.0	93.0	86.0
Trenton City (Mercer)															
Municipality	0	0	0	.20	7.25	58	Slt Char	0.6	.048	.048	.003	.16	2.0	19.0	36.0
Tuckerton Borough (Ocean)															
Tuckerton Water Works	0	1m	0	.16	6.02	69	No Char	0.6	.008	.024	.002	.04	5.0	14.0	24.0

No. 21—ANALYSES OF WATERS FROM PUBLIC POTABLE WATER SUPPLIES IN NEW JERSEY—Continued

MUNICIPALITY—COUNTY OWNER OF SUPPLY	Color	Odor	Turbidity	Iron	pH	Total Solids	Appearance on Ignition	Oxygen Consumed	Free Ammonia	Albuminoid Ammonia	Nitrites	Nitrates	Chlorides	Alkalinity	Total Hardness
Union Township (Ocean)															
Barnegat Water Co.	0	0	0	.20	6.03	25	No Char	0.1	.024	.056	.002	.08	6.0	Neutral	8.0
Union Beach Borough (Monmouth)															
Municipality	0	0	0	.14	6.72	84	No Char	0.1	.048	.032	.001	0	1.5	18.0	28.0
Upper Township (Cape May)															
Corsons Inlet Water Co.	0	0	0	.14	7.95	158	No Char	0.7	.160	.048	.002	.04	15.5	77.0	28.0
Upper Penns Neck Township (Salem)															
E. I. du Pont de Nemours & Co.	0	0	0	0	5.58	115	No Char	0.2	.032	.072	0	7.0	9.0	8.0	46.0
Ventnor City (Atlantic)															
Municipality	0	0	0	0	7.0	117	No Char	0.9	.072	.032	.011	.040	6.0	51.5	34.0
Vernon Township (Sussex)															
Highland Lakes Improvement Co.	0	0	15.5	.30	7.3	83	No Char	1.8	0	.072	0	0	2.0	40.0	56.0
Seckler & Shepperd Co.															
Surface Supply	0	0	0	.30	7.16	119	Slt Char	1.0	0	.064	0	0	0.5	55.0	96.0
Well Supply	85	0	25	.90	7.91	90	Slt Char	0.4	0	.048	.001	.08	1.0	38.0	44.0
Vineland Borough (Cumberland)															
Kimble Glass Co.	0	0	3.0	0	4.7	137	No Char	1.0	.016	.016	.002	3.00	22.0	Neutral	46.0
Municipality	0	0	0	.02	5.7	56	No Char	0.5	.120	.048	.003	5.00	13.0	0	22.0
Waldwick Borough (Bergen)															
Municipality	0	0	0	.40	8.0	165	No Char	0.8	0	.032	0	2.5	7.0	83.0	140.0
Wallington Borough (Bergen)															
Municipality															
Spring St. Station	0	0	0	0	7.85	234	No Char	0.2	0	.056	0	8.0	9.0	89.0	168.0
Mercer St. Station	0	0	0	.10	7.38	447	Slt Char	1.2	.352	.088	.022	4.5	29.0	67.0	208.0
Wadsworth and Currie Ave. Station	0	0	0	0	7.68	326	No Char	0.6	0	.064	0	9.0	13.0	135.0	224.0
Wanaque Borough (Passaic)															
Municipality	0	0	0	0	6.15	57	No Char	0.5	0	0.016	0	.04	3.0	10.0	25.0
Haskell Improvement Co.	0	0	0	0	6.86	58	No Char	1.5	0	0	0	.08	4.0	28.0	40.0
North Jersey District Water Supply Comm.	10	1v	0	.20	7.55	48	Slt Char	2.2	0	.064	0	.20	3.0	13.0	24.0
Washington Borough (Warren)															
Washington Water Co.	0	0	0	.20	6.12	69	Slt Char	1.4	.032	.064	.018	.16	2.0	21.0	24.0

Washington Township (Gloucester)															
J. T. Wilson	0	Chl	0	0	7.1	124	No Char	0.2	0	0	0	.08	3.0	82.5	92.0
Washington Township (Morris)															
Long Valley Water Co.	0	0	0	.14	6.1	73	Slt Char	0	0	.056	0	.04	2.0	25.0	42.0
B. B. Swackhammer	0	0	0	.10	6.1	56	Slt Char	.10	0	.024	.001	.08	0	11.0	12.0
Morris Trimmer	0	0	0	.14	5.82	60	No Char	0	0	.048	.001	.00	2.0	19.0	24.0
Lula A. Birdsall	0	0	0	0	6.6	42	No Char	0.2	0	.048	0	0	1.0	12.0	42.0
Wenonah Borough (Gloucester)															
Municipality	0	0	0	0	7.95	175	No Char	0.6	.240	.064	0	0	6.0	128.0	28.0
West Deptford Township (Gloucester)															
Colonial Manor Water Co.	0	0	0	.10	6.8	129	No Char	0.9	.144	.032	.006	.08	2.0	89.0	72.0
West Milford Township (Passaic)															
Ringwood Co. (Awosting)	0	0	0	.10	5.4	55	No Char	0.4	0	.064	0	0	2.0	17.0	32.0
Pinecliff Lake Realty Co.	0	0	0	.16	7.3	30	Slt Char	2.2	0	.096	0	.24	4.0	2.0	16.0
West Windsor Township (Mercer)															
Hiram A. Cook Est.	0	0	0	1.10	5.4	138	Slt Char	0.2	.024	.024	.028	9.0	6.0	10.0	62.0
Princeton Junction Water Co.	0	0	0	1.20	7.18	124	No Char	0.2	.064	.048	0	.08	3.5	76.5	62.0
Julius C. Wildermuth	30	1 Chem.	25	1.6	7.18	143	No Char	.2	0	.032	.002	.025	1.0	66.0	64.0
Westville Borough (Gloucester)															
Municipality	30	0	14	.90	6.25	117	No Char	0.7	.168	.032	.020	.02	2.0	61.0	56.0
Wharton Borough (Morris)															
Municipality	0	1e	0	.40	7.54	54	Slt Char	2.8	.016	.064	.003	.04	2.0	28.0	46.0
Wildwood City (Cape May)															
Municipality	0	0	0	.70	7.83	141	Slt Char	0.8	.120	.040	.001	.04	23.0	48.0	74.0
Woodbine Borough (Cape May)															
Woodbine Water Co.	0	0	0	4.0	5.09	53	No Char	0.1	.096	.064	0	.04	19.0	0	28.0
Woodbridge Township (Middlesex)															
Middlesex Water Co.	0	0	0	.10	6.98	249	No Char	0.8	0	.032	0	2.00	13.0	97.0	134.0
Woodbury City (Gloucester)															
Municipality	0	1m	0	.16	7.65	219	No Char	0.8	.264	.048	0	.04	22.0	154.0	16.0
Woodstown Borough (Salem)															
Municipality	0	0	0	.14	7.55	483	Slt Char	2.5	.224	.072	.001	.04	148.0	198.0	10.0
Wrightstown Borough (Burlington)															
Hanover Water Co.	0	0	0	.50	7.15	118	No Char	0.3	.096	.096	.001	.20	3.0	98.0	110.0
Wyckoff Township (Bergen)															
Hooker I. Coggeshall	0	0	0	.10	7.57	198	No Char	0.4	.008	.008	.001	5.0	9.0	60.0	80.0

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939

MUNICIPALITY AND COUNTY	SYSTEM OWNED BY	MUNICIPALITY OR LOCALITY SERVED	Permanent Population (1930)	Sewer Connections (1939)	DATE ERECTED	
					Original Plant	Existing Plant
Absecon (C.) (Atlantic)			2,153	.....	....	....
Alexandria (Twp.) (Hunterdon)			1,004	.....	....	....
Allamuchy (Twp.) (Warren)			684	.....	....	....
Allendale (B.) (Bergen)			1,730	.....	....	....
Allenhurst (B.) (Monmouth)	Borough	Allenhurst	*573	322	1908	1930
Allentown (B.) (Monmouth)			706	.....	....	....
Alloway (Twp.) (Salem)			1,575	.....	....	....
Alpha (B.) (Warren)			2,374	.....	....	....
Alpine (B.) (Bergen)			521	.....	....	....
Andover (B.) (Sussex)			479	.....	....	....
Andover (Twp.) (Sussex)			496	.....	....	....
Asbury Park (C.) (Monmouth)	Borough	Asbury Park	*14,981	.....	1905	1934
Atlantic City (C.) (Atlantic)	City	Chelsea Heights Section	*66,198	.....	1921	....
Atlantic City (C.) (Atlantic)	Atlantic City Sewerage Co.	Atlantic City		.....	1921	1928
Atlantic City (C.) (Atlantic)	City	Atlantic City		.....	....	....
Atlantic (Twp.) (Monmouth)			1,241	.....	....	....
Atlantic Highlands (B.) (Monmouth)	Borough	Atlantic Highlands	*2,000	.....	1928	....
Audubon (B.) (Camden)	Borough	Audubon	8,904	.....	1914	1930
Avalon (B.) (Cape May)	Borough	Avalon	*343	.....	1916	1936
Avon-by-the-Sea (B.) (Monmouth)	Borough	Avon	*1,220	.....	1909	1936
Barnegat City (B.) (Ocean)			144	.....	....	....
Barrington (B.) (Camden)	Borough	Barrington	2,252	487	1930	....
Bass River (Twp.) (Burlington)			700	.....	....	....
Bay Head (B.) (Ocean)	Borough	Bay Head	*429	637	1917	....
Bayonne (C.) (Hudson)			88,979	.....	....	....
Beach Haven (B.) (Ocean)	Borough	Beach Haven	715	.....	1913	1931
Beachwood (B.) (Ocean)			394	.....	....	....
Bedminster (Twp.) (Somerset)			1,374	.....	....	....
Belleville (Town) (Essex)			26,974	.....	....	....
Bellmawr (B.) (Camden)			1,123	.....	....	....
Belmar (B.) (Monmouth)	Borough	Belmar	*3,491	3,019	1911	....
		South Belmar	*886	.....	....	....
Belvidere (Town) (Warren)			2,073	.....	....	....
Bendix (B.) (Bergen)			26	.....	....	....
Bergenfield (B.) (Bergen)	Bergenfield	Bergenfield	8,816			
		Dumont	5,881	.....	1925	1938
Berkeley (Twp.) (Ocean)			811	.....	....	....
Berlin (B.) (Camden)			1,935	.....	....	....
Berlin (Twp.) (Camden)			1,537	.....	....	....
Bernards (Twp.) (Somerset)			2,293	.....	....	....
Bernardsville (B.) (Somerset)	Borough	Bernardsville	3,336	400	1933	1934
Bethlehem (Twp.) (Hunterdon)			735	.....	....	....
Beverly (C.) (Burlington)	City	Beverly	2,804	.....	1913	1935
Blairstown (Twp.) (Warren)			1,416	.....	....	....
Bloomfield (Town) (Essex)			38,077	.....	....	....
Bloomingdale (B.) (Passaic)	Borough		2,543	.....	....	....
Bloomsbury (B.) (Hunterdon)			639	.....	....	....
Bogota (B.) (Bergen)	Borough	Bogota	7,341	.....	1915	1930
Boonton (Twp.) (Morris)			623	.....	....	....
Boonton (Town) (Morris)			6,866	.....	....	....
Bordentown (C.) (Burlington)	City	Bordentown	4,405	937	1911	1936
Bordentown (Twp.) (Burlington)			818	.....	....	....
Bound Brook (B.) (Somerset)	Borough	Bound Brook	7,372	1,400	1938	1938
Bradley Beach (B.) (Monmouth)	Borough	Bradley Beach (part)		.....	1911	1935
Bradley Beach (B.) (Monmouth)	Borough	Bradley Beach (part)	3,306		1911	1935
Branchburg (Twp.) (Somerset)			1,084	.....	....	....
Branchville (B.) (Sussex)			605	.....	....	....
Brick (Twp.) (Ocean)			1,172	.....	....	....
Bridgeton (C.) (Cumberland)	City	Bridgeton	15,699	2,584	1911	1929
Bridgewater (Twp.) (Somerset)			3,852	20	....	....
Brielle (B.) (Monmouth)			684	.....	....	....
Brigantine City (C.) (Atlantic)	City	Brigantine City	357	215	1927	1937
Brooklawn (B.) (Camden)	Borough	Brooklawn	1,753	.....	1939	....
Buena Vista (Twp.) (Atlantic)			4,176	.....	....	....
Burlington (C.) (Burlington)	City	Burlington	10,844	2,450	1902	1932
Burlington (Twp.) (Burlington)			2,587	.....	....	....
Butler (B.) (Morris)	Borough	Butler	3,392			
		Bloomingdale	2,543	.....	1924	1932
Byram (Twp.) (Sussex)			245	.....	....	....
Caldwell (B.) (Essex)	Borough	Caldwell	5,144			
		North Caldwell	1,492	.....	1915	1932
Caldwell (Twp.) (Essex)		West Caldwell	2,911			
Califon (B.) (Hunterdon)			9,089	.....	....	....
Camden (C.) (Camden)	City		534	.....	....	....
		Fairview Section				
Cape May (C.) (Cape May)	City	Northeast Section	118,700	.....	1918	....
Cape May Point (B.) (Cape May)	Borough	Cape May City			1920	....
		Cape May Point	2,637	.....	....	....
			104	.....	1890	....

Note: Industrial, State or county institution, treatment plants not included in the above tabulation.
* Seasonal increase from 2 to 20 times in population.

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939

MUNICIPALITY AND COUNTY	Tanks: Mechanical Screens	Tanks: Primary Settling: Rapid Mix	Tanks: Primary Settling: Flocculation	Tanks: Primary Settling: Single Story Plain	Tanks: Primary Settling: Single Story Mechanical	Tanks: Primary Settling: Imhoff	Tanks: Primary Settling: Other	Tanks: Dosing Tank	Filter Beds: Contact	Filter Beds: Sprinkling	Filter Beds: Intermittent Sand	Filter Beds: Strainer	Tanks: Aeration Tanks	Secondary Tanks: Single Story Plain	Secondary Tanks: Single Story Mechanical	Secondary Tanks: Imhoff	Secondary Tanks: Chlorine Contact	Tanks: Separate Sludge Digest.	Sludge Dewatering: Sand Beds	Sludge Dewatering: Mechanical	Chlorination	RECEIVING WATERS: NAME	RECEIVING WATERS: PREDOMINANT USE	REMARKS
Absecon											None													Unsewered
Alexandria											None													Unsewered
Allamuchy											None													Unsewered
Allendale											None													Unsewered
Allenhurst				x													x				x	Atlantic Ocean	Recreational	
Allentown											None													Unsewered
Alloway											None													Unsewered
Alpha											None													Unsewered
Alpine											None													Unsewered
Andover Bor											None													Unsewered
Andover Tp											None													Unsewered
Asbury Park					x												x	x			x	Atlantic Ocean	Recreational	
Atlantic City	x																				x	Beach Thorofare	Recreational	Bethlehem Heights Plant
Atlantic City				x																x	x	Beach Thorofare	Recreational	City Island Plant
Atlantic City	x																				x	Beach Thorofare	Recreational	Texas Avenue Plant
Atlantic											None													Unsewered
Atlantic Highlands				x													x		x		x	Sandy Hook Bay	Recreational and Shellfish	
Audubon					x		x		x								x		x		x	South Branch of Newton Creek	Recreational	
Avalon				x													x				x	Townsend's Inlet	Recreational	
Avon-by-the-Sea				x													x				x	Atlantic Ocean	Recreational	
Barnegat City											None													Unsewered
Barrington				x							x		x		x		x	x	x		x	Beaver Brook, tributary Little Timber Creek	Recreational	Activated sludge and rapid sand filter
Bass River											None													Unsewered
Bay Head					x		x				x								x			Barnegat Bay	Recreational and Shellfish	
Bayonne											None											Arthur Kill	Recreational	Sewers only
Beach Haven				x													x				x	Atlantic Ocean	Recreational	
Beachwood											None													Unsewered
Badminster											None													Unsewered
Belleville											Passaic Valley Sewerage District													
Bellmawr											None													Unsewered
Belmar				x													x				x	Atlantic Ocean	Recreational	
Belvidere											None													
Bendix											None													Unsewered
Bergenfield											None													Unsewered
Berkeley					x		x		x		x				x		x	x	x		x	Trib. to Hackensack River	Recreational	Joint Commission
Berlin Bor											None													Unsewered
Berlin Tp											None													Unsewered
Bernards											None													Unsewered
Bernardsville				x											x		x		x	x	x	Mine Brook, North Branch Raritan River	Recreational and Potable	Activated sludge
Bethlehem											None													Unsewered
Beverly				x													x	x	x		x	Delaware River	Recreational and Potable	
Blairstown											None													Unsewered
Bloomfield											Passaic Valley Sewerage District													
Bloomingdale											See Butler													
Bloomsbury											None													Unsewered
Bogota					x												x				x	Hackensack River	Recreational	
Boonton Tp											None													
Boonton Tn											See Hanover Township													
Bordentown				x					x		x		x			x			x		x	Blacks Creek, Delaware Watershed	Potable	
Bound Brook	x	x	x		x												x	x	x		x	Raritan River	Recreational	Unsewered
Bradley Beach				x													x				x	Atlantic Ocean	Recreational	Chemical precipitation
Bradley Beach				x													x				x	Atlantic Ocean	Recreational	(Ocean Park Ave. Plant) (District No. 1)
Branchburg											None													(Evergreen Ave. Plant) (District No. 2)
Branchville											None													Unsewered
Brick											None													Unsewered
Bridgeton					x		x		x				x			x		x	x		x	Cohansey River	Shellfish	Unsewered
Bridgewater											None													
Brielle											None													Part sewered—Town of Raritan Plant
Brigantine City	x																				x	Beach Thorofare	Recreational	Unsewered
Brooklawn					x												x	x	x		x	Big Timber Creek	Recreational	
Buena Vista											None													Under construction
Burlington City																						Delaware River	Potable	Unsewered
Burlington Tp											None													
Butler				x							x						x		x		x	Pequannock River	Potable	Unsewered
Byram											None													
Caldwell Bor				x					x		x		x			x			x		x	Trib. to Passaic River	Potable	Unsewered
Caldwell Twp											None													Part sewered
Califon											None													Unsewered
Camden				x															x			Newton Creek	Recreational	Unsewered
					x														x			Delaware River	Recreational	Greater portion of city sewered with no treatment
Cape May											None													Sewers only
Cape May Point				x																		Delaware Bay	Recreational	Broad irrigation

Note: Industrial, State or county institution, treatment plants not included in the above tabulation.
* Seasonal increase from 2 to 20 times in population.

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	SYSTEM OWNED BY	MUNICIPALITY OR LOCALITY SERVED	Permanent Population (1930)	Sewer Connections (1939)	DATE ERECTED	
					Original Plant	Existing Plant
Carlstadt (B.) (Bergen)	Borough	Carlstadt	5,425	1,183	....	....
Carteret (B.) (Middlesex)			13,339	.....	....	....
Cedar Grove (Twp.) (Essex)			4,793	.....	....	....
Chatham (B.) (Morris)	Chatham-Madison	Chatham	3,809			
		Madison	7,481	3,008	1911	1930
Chatham (Twp.) (Morris)			1,115	.....	....	....
Chesilhurst (B.) (Camden)			298	.....	....	....
Chester (B.) (Morris)			.....	.....	....	....
Chester (Twp.) (Morris)			1,453	.....	....	....
Chester (Twp.) (Burlington)	Township	Maple Shade Section of Chester Township	5,117	.....	1927	....
Chesterfield (Twp.) (Burlington)			1,209	.....	....	....
Cinnaminson (Twp.) (Burlington)			2,277	.....	....	....
Clark (Twp.) (Union)	Township		1,474	.....	....	....
Clayton (B.) (Gloucester)			2,851	.....	....	....
Clementon (B.) (Camden)			2,605	.....	....	....
Cliffside Park (B.) (Bergen)	Borough	Cliffside Park	15,207	.....	1914	....
Clifton (C.) (Passaic)			46,875	.....	....	....
Clinton (Town) (Hunterdon)			932	.....	....	....
Clinton (Twp.) (Hunterdon)			1,856	.....	....	....
Closter (B.) (Bergen)			2,502	.....	....	....
Collingswood (B.) (Camden)	Borough	Collingswood	12,723	.....	1901	1930
Commercial (Twp.) (Cumberland)			2,873	.....	....	....
Corbin City (C.) (Atlantic)			256	.....	....	....
Cranbury (Twp.) (Middlesex)			1,278	.....	....	....
Cranford (Twp.) (Union)	Township		11,126	.....	....	....
Cresskill (B.) (Bergen)			1,924	.....	....	....
Deal (B.) (Monmouth)	Borough	Deal	*800	.....	1900	1930
Deerfield (Twp.) (Cumberland)			1,513	.....	....	....
Delanco (Twp.) (Burlington)			2,349	.....	....	....
Delaware (Twp.) (Camden)	Township	Erlton Section of Township	5,734	80	1929	....
Delaware (Twp.) (Camden)	Township	Colwick Section of Township		27	1926	....

Delaware (Twp.) (Hunterdon)			1,704	.....	....	....
Delran (Twp.) (Burlington)			2,015	.....	....	....
Demarest (B.) (Bergen)			1,013	.....	....	....
Dennis (Twp.) (Cape May)			1,615	.....	....	....
Denville (Twp.) (Morris)			2,162	.....	....	....
Deptford (Twp.) (Gloucester)			4,507	.....	....	....
Dover (Town) (Morris)	Town	Dover	10,031	.....	....	....
Dover (Twp.) (Ocean)	Township	Toms River—Section of Dover Township	3,970	.....	....	....
Downe (Twp.) (Cumberland)			1,574	.....	....	....
Dumont (B.) (Bergen)	Borough		5,861	.....	....	....
Dunellen (B.) (Middlesex)	Borough		5,148	.....	....	....
Eagleswood (Twp.) (Ocean)			483	.....	....	....
Easthampton (Twp.) (Burlington)			503	.....	....	....
East Amwell (Twp.) (Hunterdon)			1,210	.....	....	....
East Brunswick (Twp.) (Middlesex)			2,711	.....	....	....
East Greenwich (Twp.) (Gloucester)			2,091	.....	....	....
East Hanover (Twp.) (Morris)			946	.....	....	....
East Millstone (Twp.) (Somerset)			364	.....	....	....
East Newark (B.) (Hudson)			2,686	.....	....	....
East Orange (C.) (Essex)			68,020	.....	....	....
East Paterson (B.) (Bergen)			4,779	.....	....	....
East Rutherford (B.) (Bergen)	Borough		7,080	.....	1911	....
East Windsor (Twp.) (Mercer)			922	.....	....	....
Eatontown (B.) (Monmouth)			1,938	.....	....	....
Edgewater (B.) (Bergen)			4,089	.....	....	....
Edgewater Park (Twp.) (Burlington)			1,243	.....	....	....
Egg Harbor (Twp.) (Atlantic)			3,024	.....	....	....
Egg Harbor City (C.) (Atlantic)	City	Egg Harbor City	3,478	936	1922	....
Elizabeth (C.) (Union)	City	Elizabeth	114,589	.....	....	....
		Millburn	8,602			
		East Orange (part)	68,020			
		Hillside	17,601			
		Irvington	56,733			
Elizabeth (Joint Meeting of Union and Essex Counties)	Joint Meeting	Newark (part)	442,337	†300,000	1937	1937
		Roselle Park (part)	8,969			
		Summit	14,556			
		South Orange	13,630			
		Union	16,472			
		West Orange	24,327			
		Maplewood	21,321			
Elk (Twp.) (Gloucester)			707	.....	....	....
Elmer (B.) (Salem)			1,623	.....	....	....
Elsinboro (Twp.) (Salem)			1,219	.....	....	....
Emerson (B.) (Bergen)			405	.....	....	....
Englewood (C.) (Bergen)	Englewood Sewerage Co.	Englewood	1,394	.....	....	....
Englewood Cliffs (B.) (Bergen)	Borough	Englewood Cliffs	17,805	4,132	1912	....
Englishtown (B.) (Monmouth)			809	103	1927	....
Essex Fells (B.) (Essex)	Borough	Essex Fells	707	.....	....	....
Estell Manor (C.) (Atlantic)			1,115	308	1804	1936
Evesham (Twp.) (Burlington)			423	.....	....	....
Ewing (Twp.) (Mercer)	Township	Part of Township	1,604	.....	....	....
Fairfield (Twp.) (Cumberland)			6,942	.....	....	....
Fair Haven (B.) (Monmouth)			1,848	.....	....	....
Fair Lawn (B.) (Bergen)			2,206	.....	....	....
Fairview (B.) (Bergen)	Borough	Fairview	5,900	.....	....	....
			9,067	1,771	1915	1916

† Estimated connected population.

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	Tanks: Mechanical Screens	Tanks: Rapid Mix	Tanks: Flocculation	Tanks: Primary Settling: Single Story Plain	Tanks: Primary Settling: Single Story Mechanical	Tanks: Primary Settling: Imhoff	Tanks: Primary Settling: Other	Tanks: Dosing Tank	Filter Beds: Contact	Filter Beds: Sprinkling	Filter Beds: Intermittent Sand	Filter Beds: Strainer	Tanks: Aeration Tanks	Secondary Tanks: Single Story Plain	Secondary Tanks: Single Story Mechanical	Secondary Tanks: Imhoff	Secondary Tanks: Chlorine Contact	Tanks: Separate Sludge Digest.	Sludge Dewatering: Sand Beds	Sludge Dewatering: Mechanical	Chlorination	RECEIVING WATERS: NAME	RECEIVING WATERS: PREDOMINANT USE	REMARKS
Carlstadt								See Rutherford Joint Meeting																Part—Passaic Valley Sewerage Dist., Part—Rutherford Joint Meeting Plant
Carteret								None														Arthur Kill	Recreational	Sewers only
Cedar Grove								None																Unsewered
Chatham Bor									x		x			x			x		x		x	Passaic River	Potable	Joint plant
Chatham Tp								None																Unsewered
Chesilhurst								None																Unsewered
Chester Bor (Morris)								None																Unsewered
Chester Tp (Morris)								None																
Chester Tp (Bur)									x		x			x					x		x	North Branch of Pennsauken Creek	Recreational	Unsewered
Chesterfield								None																
Cinnaminson								None																Part sewered
Clark								See Rahway Valley Joint Meeting																Unsewered
Clayton								None																Unsewered
Clementon								None																Part sewered
Cliffside Park				x															x			Hudson River	Recreational	
Clifton								Passaic Valley Sewerage District																Unsewered
Clinton Tn								None																Unsewered
Clinton Tp								None																Unsewered
Closter								None																
Collingswood					x								x		x		x		x		x	Newton Lake	Recreational	Activated sludge
Commercial								None																Unsewered
Corbin City								None																Unsewered
Cranbury								None																Unsewered
Cranford								See Rahway Valley Joint Meeting																
Cresskill								None														Atlantic Ocean	Recreational	Unsewered
Deal				x															x					Unsewered
Deerfield								None																Unsewered
Delanco								None					x				x		x			Cooper River	Recreational	Erlton Section Del. Twp.
Delaware Tp (Cam)									x		x		x				x		x			Pennsauken Creek	Recreational	Colwick Section Del. Twp.
Delaware Tp (Cam)									x		x													

Delaware Tp (Hun)								None																
Delran								None																Unsewered
Demarest								None																Unsewered
Dennis								None																Unsewered
Denville								None																Unsewered
Deptford								None																Unsewered
Dover Tn								None																Unsewered
Dover Tp								See Boonton Township																
Downe									x								x		x		x	Toms River	Recreational	Jersey City—Boonton Plt.
Dumont								None																Toms River Plant
Dunellen								See Bergenfield																Unsewered
Eagleswood								See Plainfield Joint Meeting																Bergenfield-Dumont Plant
Easthampton								None																
East Amwell								None																Unsewered
East Brunswick								None																Unsewered
East Greenwich								None																Unsewered
East Hanover								None																Unsewered
East Millstone								None																Unsewered
East Newark								None																Unsewered
East Orange								Passaic Valley Sewerage District																Unsewered
East Paterson								Part Joint Meeting of Essex and Union Counties and Part Passaic Valley Sewerage District																
East Rutherford								Passaic Valley Sewerage District																
East Windsor								See Rutherford Joint Meeting																
Eatontown								None																Unsewered
Edgewater								None																Unsewered
Edgewater Park								None														Hudson River		Sewers only
Egg Harbor Tp								None																Unsewered
Egg Harbor City									x		x			x					x			Landing Creek, tributary of Mullica River	Shellfish	Unsewered
Elizabeth								None														Arthur Kill	Recreational	
Elizabeth Joint Meeting of Union and Essex Counties									x								x	x			x	Arthur Kill	Recreational	Sewers only
Elk								None																Sludge barged to sea
Elmer								None																Unsewered
Elsinboro								None																Unsewered
Emerson								None																Unsewered
Englewood				x															x			Overpeck Creek	Recreational	Unsewered
Englewood Cliffs					x														x			Hudson River	Recreational	
Englishtown								None																
Essex Falls	x	x	x		x				x				x				x	x	x		x	Caldwell Brook, Passaic River	Potable	Unsewered
Estell Manor								None																Chemical precipitation
Evesham								None																Unsewered
Ewing								See Trenton																Unsewered
Fairfield								None																Part sewered
Fair Haven								None																Unsewered
Fair Lawn								None																Unsewered
Fairview								Passaic Valley Sewerage District																
									x										x			Bellmans Creek	Recreational	Part

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	SYSTEM OWNED BY	MUNICIPALITY OR LOCALITY SERVED	Permanent Population (1930)	Sewer Connections (1939)	DATE ERECTED	
					Original Plant	Existing Plant
Fanwood (B.) (Union)	Borough		1,081	.....	....	....
Far Hills (B.) (Somerset)	Borough	Far Hills	580	80	1932	1932
Farmingdale (B.) (Monmouth)			629	.....	....	....
Fieldsboro (B.) (Burlington)			493	.....	....	....
Flemington (B.) (Hunterdon)	Borough	Flemington	2,729	.....	1898	1937
Florence (Twp.) (Burlington)	Township	Florence Township (part)		631	1937	....
Florence (Twp.) (Burlington)	John A. Roebling Sons	Roebling Section of Township (part)	7,824	.....	1910	1921
Florham Park (B.) (Morris)			1,269	.....	....	....
Folsom (B.) (Atlantic)			219	.....	....	....
Fort Lee (B.) (Bergen)	Borough		8,759	.....	....	....
Frankford (Twp.) (Sussex)			1,074	.....	....	....
Franklin (B.) (Sussex)	N. J. Zinc Co.	Franklin	4,176	.....	1924	....
Franklin (Twp.) (Gloucester)			3,563	.....	....	....
Franklin (Twp.) (Hunterdon)			1,100	.....	....	....
Franklin (Twp.) (Somerset)			5,675	.....	....	....
Franklin (Twp.) (Warren)			1,213	.....	....	....
Franklin Lakes (B.) (Bergen)			803	.....	....	....
Fredon (Twp.) (Sussex)			412	.....	....	....
Freehold (B.) (Monmouth)	Borough	Freehold	6,804	1,654	1892	1930
Freehold (Twp.) (Monmouth)			1,720	.....	....	....
Frelinghuysen (Twp.) (Warren)			696	.....	....	....
Frenchtown (B.) (Hunterdon)			1,189	.....	....	....
Galloway (Twp.) (Atlantic)			3,416	.....	....	....
Garfield (C.) (Bergen)	City		29,739	.....	....	....
Garwood (B.) (Union)	Borough		3,344	.....	....	....
Gibbsboro (B.) (Camden)			622	.....	....	....
Glassboro (B.) (Gloucester)	Borough	Glassboro	4,799	1,041	1926	1930
Glen Gardner (B.) (Hunterdon)			554	.....	....	....
Glen Ridge (B.) (Essex)			7,365	.....	....	....
Glen Rock (B.) (Bergen)			4,869	.....	....	....
Gloucester (Twp.) (Camden)	Township	Blackwood Section of Township (part)	5,829	.....	....	....
Gloucester (C.) (Camden)			13,706	150	1930	....
Green (Twp.) (Sussex)			539	.....	....	....
Green Brook (Twp.) (Somerset)			544	.....	....	....
Greenwich (Twp.) (Cumberland)			979	.....	....	....
Greenwich (Twp.) (Gloucester)			2,361	.....	....	....
Greenwich (Twp.) (Warren)			1,141	.....	....	....
Guttenberg (Town) (Hudson)	City	Hackensack	6,535	.....	....	....
Hackensack (C.) (Bergen)			24,568	.....	1922	Under Const.
Hackettstown (Town) (Warren)			3,038	.....	....	....
Haddon (Twp.) (Camden)	Township	Bettlewood Section of Township		.....	....	....
Haddon (Twp.) (Camden)	Township	West Collingswood	9,198	456	1925	1937
Haddon (Twp.) (Camden)	Township	Westmont		272	1923	1938
Haddon (Twp.) (Camden)	Township	West Westmont		459	1921	....
Haddonfield (B.) (Camden)	Borough	Haddonfield		493	1925	1925
Haddonfield (B.) (Camden)	Borough	Haddonfield, Haddon Township (part)			1903	1929
Haddon Heights (B.) (Camden)	Borough	Haddon Heights	8,857	3,385	1921	....
Hainesport (Twp.) (Burlington)			5,394	1,457	1911	1929
Haledon (B.) (Bergen)			984	.....	....	....
Hamburg (B.) (Sussex)			4,812	.....	....	....
Hamilton (Twp.) (Atlantic)			1,160	.....	....	....
Hamilton (Twp.) (Mercer)	Township		3,193	.....	....	....
Hammonton (Town) (Atlantic)	Town	Hammonton	27,121	.....	....	Under Const.
Hampton (B.) (Hunterdon)			7,656	1,048	1914	Under Const.
Hampton (Twp.) (Sussex)			861	.....	....	....
Hanover (Twp.) (Morris)			581	.....	....	....
			2,516	.....	....	....
Hanover (Twp.) (Morris)	Jersey City	Boonton	6,899			
		Dover	10,031	4,772	1928	....
		Rockaway	3,132			
		Wharton	3,483			
Harding (Twp.) (Morris)			1,206	.....	....	....
Hardwick (Twp.) (Warren)			331	.....	....	....
Hardyston (Twp.) (Sussex)			946	.....	....	....
Harmony (Twp.) (Warren)			1,311	.....	....	....
Harrington Park (B.) (Bergen)			1,251	.....	....	....
Harrison (Town) (Hudson)			15,601	.....	....	....
Harrison (Twp.) (Gloucester)			1,827	.....	....	....
Harvey Cedars (B.) (Ocean)	Borough		53	.....	....	....
Hasbrouck Heights (B.) (Bergen)	Borough	Hasbrouck Heights	5,658	1,334	....	1938
Haworth (B.) (Bergen)			1,042	.....	....	....
Hawthorne (B.) (Passaic)			11,568	.....	....	....
Helmetta (B.) (Middlesex)	Geo. W. Helme Co.	Helmetta	801	99	1914	1939
High Bridge (B.) (Hunterdon)			1,860	.....	....	....
Highland Park (B.) (Middlesex)	Borough	Highland Park	8,691	1,616	1936	1936
Highlands (B.) (Monmouth)	Borough	Highlands	*7,877	867	1928	....

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	Tanks: Mechanical Screens	Tanks: Primary Settling: Rapid Mix	Tanks: Primary Settling: Flocculation	Tanks: Primary Settling: Single Story Plain	Tanks: Primary Settling: Single Story Mechanical	Tanks: Primary Settling: Imhoff	Tanks: Primary Settling: Other	Tanks: Dosing Tank	Filter Beds: Contact	Filter Beds: Sprinkling	Filter Beds: Intermittent Sand	Filter Beds: Strainer	Tanks: Aeration Tanks	Secondary Tanks: Single Story Plain	Secondary Tanks: Single Story Mechanical	Secondary Tanks: Imhoff	Secondary Tanks: Chlorine Contact	Tanks: Separate Sludge Digest.	Sludge Dewatering: Sand Beds	Sludge Dewatering: Mechanical	Chlorination	RECEIVING WATERS: NAME	RECEIVING WATERS: PREDOMINANT USE	REMARKS
Fanwood									See Plainfield Joint Meeting															
Far Hills				x													x				x	Mine Brook N. B. at Raritan River	Potable	
Farmingdale									None															Unsewered
Fieldsboro									None															Unsewered
Flemington						x		x		x				x			x		x		x	So. Branch Raritan River	Potable	
Florence						x		x		x				x			x		x		x	Delaware River	Potable	
Florham Park						x		x		x				x					x			Delaware River	Potable	
Folsom									None															Unsewered
Fort Lee									None															Unsewered
Frankford									None													Hudson River	Recreational	Sewers only
Franklin Bor (Sussex)				x					None															Unsewered
Franklin Tp (Glo)									None													Trib. to Wallkill River	Recreational	
Franklin Tp (Hun)									None															Unsewered
Franklin Tp (Som)									None															Unsewered
Franklin Tp (War)									None															Unsewered
Franklin Lakes									None															Unsewered
Fredon									None															Unsewered
Freehold Bor					x			x		x				x			x	x	x		x	Trib. to Manasquan River	Recreational	
Freehold Tp									None															Unsewered
Frelinghuysen									None															Unsewered
Frenchtown									None															Unsewered
Galloway									None															Unsewered
Garfield									Passaic Valley Sewerage District															
Garwood									See Rahway Valley Joint Meeting															
Gibbsboro									None															Unsewered
Glassboro																						Chestnut Branch Mantua Creek	Recreational	Trib. to Delaware River
Glen Gardner									None															Unsewered

Glen Ridge									Passaic Valley Sewerage District															
Glen Rock									Passaic Valley Sewerage District															
Gloucester Tp					x		x		x					x			x		x		x			
Gloucester City									None													Big Timber Creek	Recreational	
Greep									None													Delaware River	Recreational	Sewers only
Green Brook									None															Unsewered
Greenwich Tp (Cum)									None															Unsewered
Greenwich Tp (Glo)									None															Unsewered
Greenwich Tp (War)									None															Unsewered
Guttenberg									None															Unsewered
Hackensack	x				x							x	x				x	x	x		x	Hudson River	Recreational	Sewers only
Hackettstown									None													Hackensack River	Recreational	Existing north and south plants to be abandoned
Haddon					x		x		x					x			x	x	x		x			Unsewered
Haddon					x		x		x					x			x	x	x		x	Newton Lake, Newton Cr.	Recreational	Bettlewood Section of Haddon Twp.
Haddon					x		x		x					x					x			Newton Creek	Recreational	West Collingswood Section of Twp. and Part Collingswood
Haddon				x																		Trib. to Cooper River	Recreational	Westmont Section of Haddon Twp.
Haddonfield					x		x		x					x			x		x			Cooper River	Recreational	
Haddonfield					x		x		x					x			x		x		x	Cooper River		Grove St. or Maple Ave.
Haddon Heights					x		x		x					x			x	x	x		x	Newton Creek		Cuthbert Road Plant
Hainesport									None													Kings Run, tributary Newton Creek	Recreational	
Haledon									Passaic Valley Sewerage District															
Hamburg									None															Unsewered
Hamilton Tp (Atl)									None															
Hamilton Tp (Mer)	x				x		x		x					x			x	x	x		x			Unsewered
Hammonton					x		x		x								x	x	x		x	Crosswicks Creek	Potable and Recreational	Unsewered
Hampton Bor									None													Hammonton Creek, Mullica River	Shellfish	New plant under const.
Hampton Tp									None															New plant under const.
Hanover									None															Unsewered
Hanover Tp				x				x	x			x					x	x	x		x			Unsewered
Harding									None													Rockaway River	Potable and Recreational	Unsewered
Hardwick									None															
Hardyston									None															Unsewered
Harmony									None															Unsewered
Harrington Park									None															Unsewered
Harrison Tp (Hud)									None															Unsewered
Harrison Tp (Glo)									Passaic Valley Sewerage District															
Harvey Cedars									None															
Hasbrouck Heights	x	x	x		x			x				x					x	x	x		x			Unsewered
Haworth									None													Berry Creek	Recreational	Unsewered
Hawthorne									None															Chemical precipitation
Helmetta									Passaic Valley Sewerage District															Unsewered
High Bridge					x			x		x							x	x	x		x	South River	Recreational	
Highland Park									None															
Highlands	x				x												x	x	x		x	Raritan River	Recreational	Unsewered
					x												x	x	x		x	Atlantic Ocean	Recreational	

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	SYSTEM OWNED BY	MUNICIPALITY OR LOCALITY SERVED	Permanent Population (1930)	Sewer Connections (1939)	DATE ERECTED	
					Original Plant	Existing Plant
Hightstown (B.) (Mercer)	Borough	Hightstown	3,012	.....	1913	Under Const.
Hillsborough (Twp.) (Somerset)			2,283	.....	....	....
Hillsdale (B.) (Bergen)			2,059	.....	....	....
Hillside (Twp.) (Union)			17,601	.....	....	....
Hi-Nella (B.) (Camden)			160	.....	....	....
Hoboken (C.) (Hudson)			50,261	.....	....	....
Hohokus (B.) (Bergen)			925	.....	....	....
Hohokus (Twp.) (Bergen)			3,536	.....	....	....
Holland (Twp.) (Hunterdon)			994	.....	....	....
Holmdel (Twp.) (Monmouth)			1,191	.....	....	....
Hopatcong (B.) (Sussex)			534	.....	....	....
Hope (Twp.) (Warren)			553	.....	....	....
Hopewell (B.) (Mercer)			1,467	.....	....	....
Hopewell (Twp.) (Mercer)			3,907	.....	....	....
Hopewell (Twp.) (Cumberland)			1,704	.....	....	....
Howell (Twp.) (Monmouth)			3,146	.....	....	....
Independence (Twp.) (Warren)			964	.....	....	....
Interlaken (B.) (Monmouth)			545	.....	....	....
Irvington (Town) (Essex)			56,733	.....	....	....
Island Beach (B.) (Ocean)						
Island Heights (B.) (Ocean)						
Jackson (Twp.) (Ocean)			453	364	....	1936
Jamesburg (B.) (Middlesex)			1,719	.....	....	....
Jefferson (Twp.) (Morris)			2,048	.....	....	....
Jersey City (C.) (Hudson)			316,715	.....	....	....
Jersey Homesteads (B.) (Monmouth)	U. S. Government	Jersey Homesteads	.....	260	1936	1936
Keansburg (B.) (Monmouth)			2,190	2,250	....	....
Kearny (Town) (Hudson)	Town	Kearny	40,716	.....	....	....
Kenilworth (B.) (Union)			2,243	.....	....	....
Keyport (B.) (Monmouth)	Borough	Keyport	*4,940	.....	1912	1936
Kingwood (Twp.) (Hunterdon)			1,218	.....	....	....
Kinnelon (B.) (Morris)			428	.....	....	....
Knowlton (Twp.) (Warren)			1,049	.....	....	....
Lacey (Twp.) (Ocean)			602	.....	....	....
Lafayette (Twp.) (Sussex)			735	.....	....	....
Lakehurst (B.) (Ocean)	Borough	Lakehurst	947	.....	....	....
Lakewood (Twp.) (Ocean)	Lakewood Water Co.		7,809	.....	1909	1938
Lambertville (C.) (Hunterdon)			4,518	.....	....	....
Landis (Twp.) (Cumberland)			14,047	.....	....	....
Laurel Springs (B.) (Camden)			1,343	.....	....	....
Lavallette (B.) (Ocean)	Borough	Lavallette	*287	381	1929	....
Lawnside (B.) (Camden)			1,379	.....	....	....
Lawrence (Twp.) (Cumberland)			1,770	.....	....	....
Lawrence (Twp.) (Mercer)			6,203	.....	....	....
Lebanon (B.) (Hunterdon)			550	.....	....	....
Lebanon (Twp.) (Hunterdon)			1,209	.....	....	....
Leonia (B.) (Bergen)	Borough	South Side				
Leonia (B.) (Bergen)	Borough	North Side				
Liberty (Twp.) (Warren)			5,350	1,728	1914	1925
Lincoln Park (B.) (Morris)			410	.....	1924	1929
Linden (C.) (Union)	Linden		1,831	.....	....	....
Lindenwold (B.) (Camden)			21,206	.....	....	....
Linwood (B.) (Atlantic)			2,523	.....	....	....
Little Egg Harbor (Twp.) (Ocean)			1,514	.....	....	....
Little Falls (Twp.) (Passaic)			547	.....	....	....
Little Ferry (B.) (Bergen)			5,161	1,119	1932	1932
Little Silver (B.) (Monmouth)			4,155	906	1926	Under Const.
Livingston (Twp.) (Essex)	Township		1,109	.....	....	....
Lodi (B.) (Bergen)			3,476	.....	....	Under Const.
Logan (Twp.) (Gloucester)						
Long Beach (Twp.) (Ocean)			11,540	.....	....	....
			1,800	.....	....	....
			353	.....	....	....
Long Branch (C.) (Monmouth)	Long Branch Sewer Co.	Central and Southern Sections			Prior to	
Long Branch (C.) (Monmouth)	City	Branchport		3,985	1902	1932
Long Branch (C.) (Monmouth)	City	North Long Branch	18,399	455	....	....
Longport (B.) (Atlantic)	Borough	Longport		450	....	....
Longport (B.) (Atlantic)	Borough	Southern Section of Longport	*228		1928	....
Lopatcong (Twp.) (Warren)	Ingersoll-Rand Co.	Ingersoll-Rand Plant Section	*228	233	1913	....
Lower (Twp.) (Cape May)			1,269	20	....	....
Lower Alloways Creek (Twp.) (Salem)			1,444	.....	....	....
Lower Penns Neck (Twp.) (Salem)			1,063	.....	....	....
Lumberton (Twp.) (Burlington)			2,033	.....	....	....
Lyndhurst (Twp.) (Bergen)	Township	Lyndhurst	905	.....	....	....
			17,362	.....	1910	1923

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	Tanks: Primary Settling: Mechanical Screens	Tanks: Primary Settling: Rapid Mix	Tanks: Primary Settling: Flocculation	Tanks: Primary Settling: Single Story Plain	Tanks: Primary Settling: Single Story Mechanical	Tanks: Primary Settling: Imhoff	Tanks: Primary Settling: Other	Dosing Tank	Filter Beds: Contact	Filter Beds: Sprinkling	Filter Beds: Intermittent Sand	Filter Beds: Strainer	Aeration Tanks	Secondary Tanks: Single Story Plain	Secondary Tanks: Single Story Mechanical	Secondary Tanks: Imhoff	Secondary Tanks: Chlorine Contact	Separate Sludge Digest.	Sludge Dewatering: Sand Beds	Sludge Dewatering: Mechanical	Chlorination	RECEIVING WATERS: NAME	RECEIVING WATERS: PREDOMINANT USE	REMARKS
Hightstown	x	x	x		x			x		x				x			x	x	x		x	Rocky Brook, tributary Raritan River	Recreational and potable	New plant under const.
Hillsborough	None																							Unsewered
Hillsdale	None																							Unsewered
Hi-Nella	See Elizabeth Joint Meeting of Union and Essex Counties																							
Hoboken	None																							Unsewered
Hohokus Bor	None																					Hudson River & Newark Bay	Recreational	Sewers only
Hohokus Tp	Passaic Valley Sewerage District																							Unsewered
Holland	None																							Unsewered
Holmdel	None																							Unsewered
Hopatcong	None																							Unsewered
Hope	None																							Unsewered
Hopewell Bor (Mer)	None																							Unsewered
Hopewell Tp (Mer)	None																							Unsewered
Hopewell Tp (Cum)	None																							Unsewered
Howell	None																							Unsewered
Independence	None																							Unsewered
Interlaken	See Ocean Township																							Ocean Twp.—Interlaken Joint Plant
Irvington	See Elizabeth Joint Meeting Union and Essex Counties																							
Island Beach	None																							Unsewered
Island Heights					x		x			x							x		x		x	Toms River	Recreational	
Jackson	None																							Unsewered
Jamesburg					x		x			x							x		x		x			New plant contemplated
Jefferson	None																							Unsewered
Jersey City	None																					Hudson River & Newark Bay		Sewers only
Jersey Homesteads						x		x		x				x			x		x		x	Assunpink Creek	Potable	
Keansburg	x																				x	Raritan Bay	Shellfish	
Kearny	x																				x	Hackensack River	Recreational	
Kenilworth	See Rahway Valley Joint Meeting																							
Keyport					x												x	x	x		x	Raritan Bay	Recreational and Shellfish	
Kingwood	None																							Unsewered
Kinnelon	None																							Unsewered
Knowlton	None																							Unsewered
Lacey	None																							Unsewered
Lafayette	None																							Unsewered
Lakehurst				x		x					x											West Branch Toms River	Recreational	
Lakewood		x	x		x		x				x						x	x	x		x	South Branch of Metedeconk River		
Lambertville	None																							Part sewered
Landis	None																							Unsewered
Laurel Springs	None																							Unsewered
Lavallette				x													x				x	Atlantic Ocean	Recreational	Unsewered
Lawnside	None																							
Lawrence Tp (Cum)	None																							Unsewered
Lawrence Tp (Mer)	See Trenton																							Unsewered
Lebanon Bor	None																							
Lebanon Tp	None																							Unsewered
Leonia					x													x				Overpeck Creek		Unsewered
Leonia			x														x	x				Overpeck Creek	Recreational	
Liberty	None																						Recreational	
Lincoln Park	None																							
Linden	None																							Unsewered
Lindenwold	None																					Arthur Kill		Unsewered
Linwood	None																						Recreational	Sewers only
Little Egg Harbor	None																							Unsewered
Little Falls				x		x		x		x				x			x	x	x		x	Peckman River		Unsewered
Little Ferry		x	x		x		x			x							x	x	x		x	Hackensack River	Recreational	
Little Silver	None																						Recreational	Chemical precipitation—new plant under const.
Livingston					x												x	x	x		x	Passaic River		Unsewered
Loch																							Potable	Activated sludge — new plant under const.
Logan	Passaic Valley Sewerage District																							
Long Beach	None																							Unsewered
Long Branch					x												x	x			x			Unsewered
Long Branch	None																					Atlantic Ocean	Recreational	
Long Branch				x																		Branchport Creek	Recreational	
Longport				x													x	x	x		x	Manahasset Creek	Recreational	
Longport					x																x	Risley Channel	Shellfish	
Lopatcong	See Phillipsburg																					Risley Channel	Shellfish	
Lower	None																							14th Street Plant
Lower Allowavs Creek	None																							
Lower Penns Neck	None																							Unsewered
Lumberton	None																							Unsewered
Lyndhurst					x														x			Kingsland Creek, Hackensack River		Unsewered
																							Recreational	Part Passaic Valley Sewerage District

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	SYSTEM OWNED BY	MUNICIPALITY OR LOCALITY SERVED	Permanent Population (1930)	Sewer Connections (1939)	DATE ERECTED	
					Original Plant	Existing Plant
Madison (B.) (Morris)	Borough		7,481	.....	....	....
Madison (Twp.) (Middlesex)			2,566	.....	....	....
Magnolia (B.) (Camden)			1,522	.....	....	....
Manalapan (Twp.) (Monmouth)			1,464	.....	....	....
Manasquan (B.) (Monmouth)	Borough	Manasquan	*2,320	1,473	1905	1931
Manchester (Twp.) (Ocean)			109	.....	....	....
Mannington (Twp.) (Salem)			1,584	.....	....	....
Mansfield (Twp.) (Burlington)			1,709	.....	....	....
Mansfield (Twp.) (Warren)			1,139	.....	....	....
Mantoloking (B.) (Ocean)			37	.....	....	....
Mantua (Twp.) (Gloucester)	Mantua Improvement Co.	Section of Mantua Township	2,677	.....	1926	1926
Manville (B.) (Somerset)	Borough	Manville	5,447	312	1937	1937
Maplewood (Twp.) (Essex)	Township		21,321	.....	....	....
Margate City (C.) (Atlantic)	City	Ventnor	6,674	.....	....	....
		Margate City	2,013	.....	....	....
Marlboro (Twp.) (Monmouth)			1,992	.....	....	....
Matawan (B.) (Monmouth)	Borough	Matawan	2,264	750	1924	....
Matawan (Twp.) (Monmouth)			2,496	.....	....	....
Maurice River (Twp.) (Cumberland)			2,319	.....	....	....
Maywood (B.) (Bergen)	Borough	Maywood	3,398	.....	1917	1932
Medford (Twp.) (Burlington)	Medford Sewer Company	Medford		.....	About 1905	1911
Medford Lakes (B.) (Burlington)	Borough	Medford Lakes	2,021	.....	....	1930
Mendham (B.) (Morris)			1,278	.....	....	....
Mendham (Twp.) (Morris)			1,003	.....	....	....
Merchantville (B.) (Camden)	Joint Sewer Comm.	Merchantville	3,592	3,114	1909	1937
		Pensauken	10,015			
Metuchen (B.) (Middlesex)	Borough	Metuchen	5,748	994	1926	1936
Middle (Twp.) (Cape May)	Township	Cape May Court House	3,403	.....	....	1930
Middlesex (B.) (Middlesex)	Borough	Middlesex	3,504	652	....	1938
Middlesex (B.) (Middlesex)	Plainfield Joint Meeting	Plainfield	34,422	12,400	....	1938
		North Plainfield	9,760			
		Dunellen	5,148			
		Fanwood (part)	1,681			
		Watchung (part)	906			
Middletown (Twp.) (Monmouth)			9,209	.....	....	....
Midland Park (B.) (Bergen)			3,638	.....	....	....

Milford (B.) (Hunterdon)			933	.....	....	...
Millburn (Twp.) (Essex)	Township		8,602	.....	....	....
Millstone (B.) (Somerset)			187	.....	....	....
Millstone (Twp.) (Monmouth)			1,428	.....	....	....
Milltown (B.) (Middlesex)	City		2,904	.....	....	....
Millville (C.) (Cumberland)		Millville	14,705	.....	1909	1924
Mine Hill (Twp.) (Morris)			1,422	.....	....	....
Monmouth Beach (B.) (Monmouth)			457	.....	....	....
Monroe (Twp.) (Gloucester)			4,004	.....	....	....
Monroe (Twp.) (Middlesex)			2,804	.....	....	....
Montague (Twp.) (Sussex)			581	.....	....	....
Montclair (Town) (Essex)			42,017	.....	....	....
Montgomery (Twp.) (Somerset)			2,648	.....	....	....
Montvale (B.) (Bergen)			1,243	.....	....	....
Montville (Twp.) (Morris)			2,467	.....	....	....
Moonachie (B.) (Bergen)			1,405	.....	....	....
Moorestown (Twp.) (Burlington)	Township	Moorestown	7,247	1,821	1904	1929
Morris (Twp.) (Morris)			5,565	.....	....	....
Morris Plains (B.) (Morris)	Town	Morristown	1,713	.....	....	....
Morristown (Town) (Morris)			15,197	2,615	1910	1931
Mountain Lakes (B.) (Morris)			2,132	.....	....	....
Mountainside (B.) (Union)			965	.....	....	....
Mount Arlington (B.) (Morris)	Borough	Mount Ephraim	306	.....	....	....
Mount Ephraim (B.) (Camden)			2,310	523	1926	....
Mount Holly (Twp.) (Burlington)			6,573	.....	....	....
Mount Laurel (Twp.) (Burlington)			1,029	.....	....	....
Mount Olive (Twp.) (Morris)			1,235	.....	....	....
Mullica (Twp.) (Atlantic)			1,425	.....	....	....
National Park (B.) (Gloucester)	Township		1,828	.....	....	....
Neptune (Twp.) (Monmouth)		Neptune Township	10,625	1,405	1913	1929
Neptune (Twp.) (Monmouth)	Ocean Grove Camp Meeting Association	Ocean Grove	10,625	.....	1910	1930
Neptune City (B.) (Monmouth)	Borough	Neptune City	*2,258	501	1927	....
Netcong (B.) (Morris)			2,097	.....	....	....
Newark (C.) (Essex)	City	New Brunswick	442,337	.....	....	....
New Brunswick (C.) (Middlesex)	City		34,555	.....	1937	....
Newfield (B.) (Gloucester)			808	.....	....	....
New Hanover (Twp.) (Burlington)	Borough	New Milford	646	.....	....	....
New Milford (B.) (Bergen)	Borough	New Providence	2,556	509	1937	....
New Providence (B.) (Union)			1,918	308	1937	....
New Providence (Twp.) (Union)	Town		1,899	.....	....	....
Newton (Town) (Sussex)	Town	Newton		1,208	1906	1931
Newton (Town) (Sussex)	Borough	Newton	5,401	383	....	....
North Arlington (B.) (Bergen)	Township	North Arlington	8,263	.....	1919	....
North Bergen (Twp.) (Hudson)	Township	North Bergen		.....	1927	....
North Bergen (Twp.) (Hudson)	Township	North Bergen	40,714	.....	1927	....
North Brunswick (Twp.) (Middlesex)	Township	North Brunswick Township	3,622	532	1927	....

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	Tanks: Mechanical Screens	Tanks: Rapid Mix	Tanks: Primary Settling: Flocculation	Tanks: Primary Settling: Single Story Plain	Tanks: Primary Settling: Single Story Mechanical	Tanks: Primary Settling: Imhoff	Tanks: Primary Settling: Other	Tanks: Dosing Tank	Filter Beds: Contact	Filter Beds: Sprinkling	Filter Beds: Intermittent Sand	Filter Beds: Strainer	Tanks: Aeration Tanks	Secondary Tanks: Single Story Plain	Secondary Tanks: Single Story Mechanical	Secondary Tanks: Imhoff	Secondary Tanks: Chlorine Contact	Separate Sludge Digest.	Sludge Dewatering: Sand Beds	Sludge Dewatering: Mechanical	Chlorination	RECEIVING WATERS: NAME	RECEIVING WATERS: PREDOMINANT USE	REMARKS
Madison Bor									See Chatham															
Madison Tp									None															Unsewered
Magnolia									None															Unsewered
Manalapan									None															Unsewered
Manasquan	x			x													x				x	Atlantic Ocean	Recreational	
Manchester									None															Unsewered
Manmington									None															Unsewered
Mansfield Tp (Burl)									None															Unsewered
Mansfield Tp (War)									None															Unsewered
Mantoloking									None															Unsewered
Mantua				x				x		x				x			x		x		x	Mantua Creek	Recreational	
Manville	x				x			x		x					x		x	x	x		x	Raritan River	Recreational	
Maplewood	See Elizabeth Joint Meeting of Union and Essex Counties																							
Margate City	See Ventnor																							
Marlboro	None																							Unsewered
Matawan Bor							x										x		x		x	Matawan Creek	Recreational	
Matawan Tp	None																							Unsewered
Maurice River	None																							Unsewered
Maywood				x															x			Hackensack River	Recreational	
Medford				x				x		x														Bank Street Plant
Medford Lakes	x					x		x		x	x			x			x		x		x	Haynes Creek	Potable	So. Branch Rancocas Cr.
Mendham Bor	None																							Unsewered
Mendham Tp	None																							Unsewered
Merchantville				x													x	x	x		x	Cooper River	Recreational	Joint plant
Metuchen				x				x		x				x			x	x	x		x	Dismal Brook	Recreational	
Middle						x											x	x	x		x	Crooked Creek, Tributary Great Channel	Shellfish	
Middlesex	x	x	x		x												x	x	x		x	Raritan River	Recreational	
Middlesex Bor (Plant Joint Meeting)	x				x			x		x		x		x			x	x		x		Green Brook	Recreational	
Middletown	None																							Unsewered
Midland Park	None																							Unsewered

MUNICIPALITY AND COUNTY	Tanks: Mechanical Screens	Tanks: Rapid Mix	Tanks: Primary Settling: Flocculation	Tanks: Primary Settling: Single Story Plain	Tanks: Primary Settling: Single Story Mechanical	Tanks: Primary Settling: Imhoff	Tanks: Primary Settling: Other	Tanks: Dosing Tank	Filter Beds: Contact	Filter Beds: Sprinkling	Filter Beds: Intermittent Sand	Filter Beds: Strainer	Tanks: Aeration Tanks	Secondary Tanks: Single Story Plain	Secondary Tanks: Single Story Mechanical	Secondary Tanks: Imhoff	Secondary Tanks: Chlorine Contact	Separate Sludge Digest.	Sludge Dewatering: Sand Beds	Sludge Dewatering: Mechanical	Chlorination	RECEIVING WATERS: NAME	RECEIVING WATERS: PREDOMINANT USE	REMARKS
Milford	None																							
Millburn	See Elizabeth Joint Meeting of Union and Essex Counties																							
Millstone Bor	None																							Unsewered
Millstone Tp	None																							
Milltown	None																							Unsewered
Millville	None																							Unsewered
Mine Hill							x										x				x	Maurice River	Shellfish	Unsewered
Monmouth Beach	None																							
Monroe Tp (Glo)	None																							Unsewered
Monroe Tp (Mid)	None																							Unsewered
Montague	None																							Unsewered
Montclair	None																							Unsewered
Montgomery	Passaic Valley Sewerage District																							Unsewered
Montvale	None																							
Montville	None																							Unsewered
Moonachie	None																							Unsewered
Moorestown	None																							Unsewered
Morris	None																							Unsewered
Morris Plains	None																							
Morristown	None																							Unsewered
Mountain Lakes	None																							Unsewered
Mountainside	None																							Activated sludge
Mount Arlington	None																							Unsewered
Mount Ephraim	None																							Unsewered
Mount Holly	None																							Unsewered
Mount Laurel	None																							
Mount Olive	None																							Unsewered
Mullica	None																							Unsewered
National Park	None																							Unsewered
Neptune	None			x													x				x	Atlantic Ocean	Recreational	
Neptune Tp				x													x				x	Atlantic Ocean	Recreational	
Neptune City				x													x				x	Atlantic Ocean	Recreational	
Netcong	None																							Unsewered
Newark	Part Elizabeth Joint Meeting of Union and Essex Counties and Part Passaic Valley Sewerage District																							
New Brunswick	x	x	x		x												x		x		x	Raritan River	Recreational	
Newfield	None																							
New Hanover	None																							Unsewered
New Milford						x		x																Unsewered
New Providence Bor	x		x		x			x									x	x	x		x	Hackensack River	Recreational	
New Providence Tp								x									x	x			x	Passaic River	Potable	
Newton	x				x			x		x		x				x		x	x		x	Paulins Kill	Recreational	Unsewered
Newton				x				x		x									x			Paulins Kill	Recreational	Clinton Street Plant
North Arlington					x														x			Kingsland Creek, Hackensack River	Recreational	Sparta Street Plant
North Bergen				x															x			Bellman's Creek, Hackensack River	Recreational	Part drains to Passaic Valley Sewerage Dist.
North Bergen				x															x			Bellman's Creek, Hackensack River	Recreational	Northern District
North Brunswick						x	x		x			x							x		x	Mile Run, Raritan River	Recreational	Central District Dortmund Tank

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	SYSTEM OWNED BY	MUNICIPALITY OR LOCALITY SERVED	Permanent Population (1930)	Sewer Connections (1939)	DATE ERECTED	
					Original Plant	Existing Plant
North Caldwell (B.) (Essex)	Borough	North Caldwell	1,492	.....	....	....
North Cape May (B.) (Cape May)			5	.....	....	....
Northfield (C.) (Atlantic)			2,804	.....	....	....
North Haledon (B.) (Bergen)			2,157	.....	....	....
North Hanover (Twp.) (Burlington)			675	.....	....	....
North Plainfield (B.) (Somerset)			9,760	.....	....	....
Northvale (B.) (Bergen)			1,144	.....	....	....
North Wildwood (C.) (Cape May)	City	North Wildwood	2,040	.....	1929	....
Norwood (B.) (Bergen)			1,358	.....	....	....
Nutley (Town) (Essex)			20,572	.....	....	....
Oakland (B.) (Bergen)			735	.....	....	....
Oaklyn (B.) (Camden)	Borough	Oaklyn	3,848	1,055	1915	....
Ocean (Twp.) (Monmouth)		Ocean Township	2,802	.....	1907	1934
		Interlaken Borough	545			
Ocean (Twp.) (Ocean)			387	.....	....	....
Ocean City (C.) (Cape May)	Ocean City Sewer Service Company	Ocean City	*5,525	4,084	1912	....
Ocean Gate (B.) (Ocean)			174	.....	....	....
Oceanport (B.) (Monmouth)			1,872	.....	....	....
Ogdensburg (B.) (Sussex)			1,138	.....	....	....
Oldman (Twp.) (Salem)			1,431	.....	....	....
Old Tappan (B.) (Bergen)			600	.....	....	....
Oradell (B.) (Bergen)	Borough	Oradell	2,360	.....	1905	1929
Orange (C.) (Essex)			35,399	.....	....	....
Overpeck (Twp.) (Bergen)			10,764	.....	....	....
Oxford (Twp.) (Warren)			1,723	.....	....	....
Pahaquarry (Twp.) (Warren)			80	.....	....	....
Palisades Park (B.) (Bergen)	Borough	Palisades Park	7,065	963	1917	....
Palmyra (B.) (Burlington)	Borough	Palmyra	4,068	1,208	1922	....
Paramus (B.) (Bergen)			2,649	.....	....	....
Park Ridge (B.) (Bergen)			2,229	.....	....	....
Parsippany-Troy Hills (Twp.) (Morris)			6,631	.....	....	....
Passaic (C.) (Passaic)			62,959	.....	....	....
Passaic (Twp.) (Morris)			2,149	.....	....	....
Paterson (C.) (Passaic)			138,513	.....	....	....
Paulsboro (B.) (Gloucester)	Borough	Paulsboro	7,121	1,498	1922	Under Const.
Peapack-Gladstone (B.) (Somerset)			1,273	.....	....	....
Pemberton (B.) (Burlington)	Borough	Pemberton	783	200	1895	....
Pemberton (Twp.) (Burlington)			1929	.....	....	....
Pennington (B.) (Mercer)			1,335	.....	....	....
Penns Grove (B.) (Salem)			5,895	.....	....	....
Pensauken (Twp.) (Camden)		Pensauken	16,915	.....	....	....
Pequannock (Twp.) (Morris)			2,104	.....	....	....
Perth Amboy (C.) (Middlesex)	City	Perth Amboy	43,516	.....	....	1935
Phillipsburg (Town) (Warren)	Town	Phillipsburg	19,255	.....	1920	....
		Lopatcong Township (part)				
Pilesgrove (Twp.) (Salem)			1,815	.....	....	....
Pine Beach (B.) (Ocean)			72	.....	....	....
Pine Hill (B.) (Camden)			1,392	.....	....	....
Pine Valley (B.) (Camden)			40	.....	....	....
Piscataway (Twp.) (Middlesex)			5,805	.....	....	....
Pitman (B.) (Gloucester)	Borough	West side of Pitman		1,711	1917	1928
Pitman (B.) (Gloucester)	Borough	East side of Pitman	5,411	388	1918	1937
Pittsgrove (Twp.) (Salem)			2,091	.....	....	....
Plainfield (C.) (Union)		Plainfield	34,422	.....	....	....
Plainsboro (Twp.) (Middlesex)			1,018	.....	....	....
Pleasantville (C.) (Atlantic)	City	Pleasantville	11,580	1,314	1921	1937
Plumstead (Twp.) (Ocean)			1,215	.....	....	....
Pohatcong (Twp.) (Warren)			1,074	.....	....	....
Point Pleasant (B.) (Ocean)			2,058	.....	....	....
Point Pleasant Beach (B.) (Ocean)	Borough	Point Pleasant Beach	1,844	1,372	1908	1928
Pompton Lakes (B.) (Passaic)			3,104	.....	....	....
Port Republic (C.) (Atlantic)			373	.....	....	....
Princeton (B.) (Mercer)	Borough	Princeton Borough	6,092	.....	1895	1932
		Princeton Township	2,738			
Princeton (Twp.) (Mercer)			2,738	.....	....	....
Prospect Park (B.) (Passaic)			5,909	.....	....	....
Quinton (Twp.) (Salem)			1,166	.....	....	....
Rahway (C.) (Union)		Rahway	16,011	.....	....	....

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	Tanks: Mechanical Screens	Tanks: Rapid Mix	Tanks: Flocculation	Tanks: Primary Settling: Single Story Plain	Tanks: Primary Settling: Single Story Mechanical	Tanks: Primary Settling: Imhoff	Tanks: Primary Settling: Other	Dosing Tank	Filter Beds: Contact	Filter Beds: Sprinkling	Filter Beds: Intermittent Sand	Filter Beds: Strainer	Aeration Tanks	Secondary Tanks: Single Story Plain	Secondary Tanks: Single Story Mechanical	Secondary Tanks: Imhoff	Secondary Tanks: Chlorine Contact	Separate Sludge Digest.	Sludge Dewatering: Sand Beds	Sludge Dewatering: Mechanical	Chlorination	RECEIVING WATERS: NAME	RECEIVING WATERS: PREDOMINANT USE	REMARKS
North Caldwell									See Caldwell															
North Cape May									None															Unsewered
Northfield									None															Unsewered
North Haledon									None															Unsewered
North Hanover									None															
North Plainfield									See Plainfield Joint Meeting															Unsewered
Northvale									None															
North Wildwood				x														x		x		Hereford Inlet	Shellfish	
Norwood																								Unsewered
Nutley									None															
Oakland									Passaic Valley Sewerage District															Unsewered
Oaklyn									None															
						x			x		x							x		x		Peter's Creek, Newton Creek, tributary Delaware River	Recreational	
Ocean Tp (Mon)				x														x						Ocean Twp. — Interlaken Borough—Joint Plant
Ocean Tp (Ocean)									None															Unsewered
Ocean City				x														x	x	x		Great Egg Harbor Bay	Shellfish	
Ocean Gate									None															Unsewered
Oceanport									None															Unsewered
Ogdensburg									None															Unsewered
Oldman									None															Unsewered
Old Tappan									None															
Oradell				x														x	x			Overpeck Creek	Recreational	
Oranke									Passaic Valley Sewerage District															
Overpeck									Same as Ridgefield Park															
Oxford									None															Unsewered
Pahaquarry									None															Unsewered
Palisades Park						x													x			Overpeck Creek	Recreational	
Palmyra																								
Paramus																		x		x		Delaware River	Recreational	
Park Ridge									Passaic Valley Sewerage District															
Parsippany-Troy Hills									None															Sewers only
Passaic City									None															Unsewered
Passaic Tp									Passaic Valley Sewerage District															Unsewered
Paterson									None															
Paulsboro									Passaic Valley Sewerage District															Unsewered
Peapack-Gladstone				x														x	x	x		Mantua Creek	Recreational	
Pemberton Bor									None															New plant under const.
Pemberton Tp									None															Unsewered
Pennington									None															Lagoons & broad irrigation
Penns Grove									None															Unsewered
Pensauken									None															Unsewered
Pequannock									See Merchantville															Sewers only
Perth Amboy									None															
Phillipsburg	x	x	x		x						x							x		x	x			Unsewered
Pilesgrove	x			x															x			Raritan River	Recreational	
Pine Beach									None													Delaware River	Potable	
Pine Hill									None															Unsewered
Pine Valley									None															Unsewered
Piscataway									None															Unsewered
Pitman									None															Unsewered
						x				x								x	x			Chestnut Brook, Mantua Creek	Recreational	Plant No. 1
Pitman						x				x									x			Mantua Creek	Recreational	Plant No. 2
Pittsgrove																								Unsewered
Plainfield									See Middlesex Borough															
Pohatcong									None															
Princeton Bor				x														x				Jonathans Thorofare	Shellfish	
Princeton Tp									None															Unsewered
Prospect Park									None															Unsewered
Quinton									None															Unsewered
Rahway									None													Atlantic Ocean	Recreational	
Ramsey									None															Unsewered
Randolph									None															Unsewered
Raritan Bor									None															Unsewered
Raritan Tp									None															Unsewered
Readington									None															Unsewered
Red Bank									None															Unsewered
Ridgefield									None															Unsewered
Ridgefield Park									None															Unsewered
Ridgewood									None															Unsewered
Ringwood									None															Unsewered
River Edge									None															Unsewered
River Vale									None															Unsewered
Riverside Tp									None															Unsewered
Riverton									None															Unsewered
Rochelle Park									None															Unsewered
Rockaway Bor									None															Unsewered
Rockaway Tp									None															Unsewered
Roseland									None															Unsewered
Roselle									None															Unsewered
Roselle Park									None															Unsewered
Rumson									None															Unsewered
Runnemede									None															Unsewered
Rutherford									None															Unsewered
Saddle Brook Tp									None															Unsewered
Saddle River Bor									None															Unsewered
Salem									None															Unsewered
Sayreville									None															Unsewered
Scotch Plains Tp									None															Unsewered
Seaside Heights									None															Unsewered
Seaside Park									None															Unsewered
Secaucus									None															Unsewered
Shamong									None															Unsewered
Shiloh									None															Unsewered
Shrewsbury Bor									None															Unsewered
Shrewsbury Tp									None															Unsewered
Somerdale									None															Unsewered
Somers Point									None															Unsewered
Somerville									None															Unsewered
South Amboy									None															Unsewered
South Bound Brook									None															Unsewered
South Brunswick									None															Unsewered
South Harrison									None															Unsewered
South Orange Village									None															Unsewered
South River									None															Unsewered
Spotswood									None															Unsewered
Springfield Tp									None															Unsewered
Spring Lake									None															Unsewered
Spring Lake Heights									None															Unsewered
Stafford									None															Unsewered
Stanhope									None															Unsewered
Stillwater									None															Unsewered
Stockton									None															Unsewered
Stone Harbor									None															Unsewered
Stratford									None															Unsewered
Summit									None															Unsewered
Surf City									None															Unsewered
Swedesboro									None															Unsewered
Tabernacle									None															Unsewered
Tavistock									None															Unsewered
Teaneck Tp									None															Unsewered
Tenafly									None															Unsewered
Tinton Falls									None															Unsewered
Totowa									None															Unsewered
Trenton									None															Unsewered
Union Tp									None															Unsewered
Union Beach									None															Unsewered
Upper Deerfield Tp									None															Unsewered
Upper Freehold Tp									None															Unsewered
Upper Pittsgrove									None															Unsewered
Upper Saddle River Bor									None															Unsewered
Upper Township									None															Unsewered
Ventnor City									None															Unsewered
Verona									None															Unsewered
Victory Gardens									None															Unsewered
Vineland									None															Unsewered
Voorhees Tp									None															Unsewered
Waldwick									None															Unsewered
Wallington									None															Unsewered
Wall Tp									None															Unsewered
Walpack Tp									None															Unsewered
Wanaque									None															Unsewered
Warren Tp									None															Unsewered
Washington Bor									None															Unsewered
Washington Tp									None															Unsewered
Watchung									None															Unsewered
Waterford Tp									None															Unsewered
Wayne Tp									None															Unsewered
Weehawken									None															Unsewered
West Amwell Tp									None															Unsewered
West Caldwell									None															Unsewered
West Cape May									None															Unsewered
West Deptford Tp									None															Unsewered
Westfield									None															Unsewered
West Long Branch Bor									None															Unsewered
West Milford Tp									None															Unsewered
West New York									None															Unsewered
West Orange									None															Unsewered
Westwood									None															Unsewered
Wharton									None															Unsewered
Willingboro Tp									None															Unsewered
Winfield Tp									None															Unsewered
Winslow Tp									None															Unsewered
Woodbine									None															Unsewered
Woodbridge Tp									None															Unsewered
Woodbury									None															Unsewered
Woodbury Heights									None															Unsewered
Woodcliff Lake									None															Unsewered
Wood-Ridge									None															Unsewered
Woodstown									None															Unsewered
Wyckoff Tp									None															Unsewered

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	SYSTEM OWNED BY	MUNICIPALITY OR LOCALITY SERVED	Permanent Population (1930)	Sewer Connections (1939)	DATE ERECTED	
					Original Plant	Existing Plant
Ramsey (B.) (Bergen)			3,253	.....	....	....
Randolph (Twp.) (Morris)			2,105	.....	....	....
Raritan (Town) (Somerset)	Town	Town of Raritan	4,751	1,320	1938	....
Raritan (Twp.) (Hunterdon)			1,823	.....	....	....
Raritan (Twp.) (Middlesex)	Township	Clara Barton Section		403	....	....
Raritan (Twp.) (Middlesex)	Township	Piscataway Town Section	10,025	526	....	....
Raritan (Twp.) (Monmouth)			1,508	.....	....	....
Readington (Twp.) (Hunterdon)			2,811	.....	....	....
Red Bank (B.) (Monmouth)	Borough	Red Bank	11,622	3,396	1902	1929
Ridgefield (B.) (Bergen)	Borough	Ridgefield	4,677	.....	1922	1931
Ridgefield Park (Village) (Bergen)	Village	East Side		.....	1922	....
Ridgefield Park (Village) (Bergen)	Village	West Side	10,764	.....	1922	....
Ridgewood (Twp.) (Bergen)			12,188	.....	....	....
Ringwood (B.) (Passaic)			1,038	.....	....	....
Riverdale (B.) (Morris)			1,052	.....	....	....
River Edge (B.) (Bergen)	Borough	River Edge	2,210	.....	1917	1929
Riverside (Twp.) (Burlington)	Township	Riverside	7,061	1,781	1908	....
Riverton (B.) (Burlington)			2,483	.....	....	....
Rivervale (Twp.) (Bergen)			871	.....	....	....
Rochelle Park (Twp.) (Bergen)			1,768	.....	....	....
Rockaway (B.) (Morris)			3,132	.....	....	....
Rockaway (Twp.) (Morris)		Rockaway Township	3,178	.....	....	....
Rockleigh (B.) (Bergen)			86	.....	....	....
Rocky Hill (B.) (Somerset)			512	.....	....	....
Roseland (B.) (Essex)			1,058	.....	....	....
Roselle (B.) (Union)	Borough	Roselle	13,021	.....	....	....
Roselle Park (B.) (Union)	Borough	Roselle Park	8,969	.....	....	....
Roxbury (Twp.) (Morris)			3,879	.....	....	....
Rumson (B.) (Monmouth)	Rumson Sewage Disposal Company	Rumson (part)	*2,078	.....	1912	....
Runnemede (B.) (Camden)			2,436	.....	....	....
Rutherford (B.) (Bergen)	Rutherford Joint Meeting	Rutherford	14,915	.....	....	....
		East Rutherford	7,080			
		Carlstadt	5,425			
Saddle River (B.) (Bergen)			957	.....	....	....
Saddle River (Twp.) (Bergen)			2,424	.....	....	....
Salem (C.) (Salem)			8,047	1,687	....	....
Sandyston (Twp.) (Sussex)			610	.....	....	....
Sayreville (B.) (Middlesex)	Borough	Sayreville	8,058	997	1938	1938
Scotch Plains (Twp.) (Union)			4,186	.....	....	....
Sea Bright (B.) (Monmouth)	Borough	Sea Bright	899	.....	....	....
Sea Girt (B.) (Monmouth)	Borough	Sea Girt	*386	573	1910	1937
Sea Isle City (C.) (Cape May)	City	Sea Isle City	*850	.....	1915	1938
Seaside Heights (B.) (Ocean)	Borough	Seaside Heights	*390	734	1928	....
Seaside Park (B.) (Ocean)	Borough	Seaside Park	571	319	1916	1933
Secaucus (Town) (Hudson)	Town	Front Street Section		.....	1913	....
Secaucus (Town) (Hudson)	Town	Golden Avenue Section	8,950	.....	1920	....
Shamong (Twp.) (Burlington)			475	.....	....	....
Shiloh (B.) (Cumberland)			401	.....	....	....
Ship Bottom-Beach Arlington (B.) (Ocean)			277	.....	....	....
Shrewsbury (B.) (Monmouth)			857	.....	....	....
Shrewsbury (Twp.) (Monmouth)			1,052	.....	....	....
Somerdale (B.) (Camden)	Borough		1,151	.....	....	....
Somers Point (C.) (Atlantic)			2,073	.....	....	....
Somerville (B.) (Somerset)	Borough	Somerville	8,255	1,796	1938	....
South Amboy (C.) (Middlesex)	City	South Amboy	8,476	.....	....	Under Const.
Southampton (Twp.) (Burlington)			1,637	.....	....	....
South Belmar (Boro.) (Monmouth)	Belmar	South Belmar	886	.....	....	....
South Bound Brook (B.) (Somerset)	Borough	South Bound Brook	1,763	.....	1916	....
South Brunswick (Twp.) (Middlesex)			2,758	.....	....	....
South Cape May (B.) (Cape May)			6	.....	....	....
South Hackensack (Twp.) (Bergen)	Township	South Hackensack	1,294	136	1929	....
South Harrison (Twp.) (Gloucester)			680	.....	....	....
South Orange (Village) (Essex)			13,630	.....	....	....
South Plainfield (B.) (Middlesex)			5,047	.....	....	....
South River (B.) (Middlesex)	Borough	South River	10,759	.....	1937	....
South Toms River (B.) (Ocean)			405	.....	....	....
Sparta (Twp.) (Sussex)			1,316	.....	....	....
Spotswood (B.) (Middlesex)			921	.....	....	....
Springfield (Twp.) (Burlington)			1,326	.....	....	....
Springfield (Twp.) (Union)			3,725	.....	....	....
Spring Lake (B.) (Monmouth)	Borough	Pennsylvania Avenue Section		.....	1900	1931
Spring Lake (B.) (Monmouth)	Borough	Pitney Avenue Section	*1,745	.....	1900	1900

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

Municipality and County	Mechanical Screens	Tanks: Rapid Mix	Tanks: Flocculation	Tanks: Primary Settling: Single Story Plain	Tanks: Primary Settling: Single Story Mechanical	Tanks: Primary Settling: Imhoff	Tanks: Primary Settling: Other	Dosing Tank	Filter Beds: Contact	Filter Beds: Sprinkling	Filter Beds: Intermittent Sand	Filter Beds: Strainer	Aeration Tanks	Secondary Tanks: Single Story Plain	Secondary Tanks: Single Story Mechanical	Secondary Tanks: Imhoff	Chlorine Contact	Separate Sludge Digest.	Sludge Dewatering: Sand Beds	Sludge Dewatering: Mechanical	Chlorination	Receiving Waters: Name	Receiving Waters: Predominant Use	Remarks
Ramsey	Passaic Valley Sewerage District																							
Randolph	None																							Unsewered
Raritan Tp	x	x	x		x							x					x			x	x	Raritan River	Potable	
Raritan Tp (Hun)	None																							Unsewered
Raritan Tp (Mid)						x													x		x	Tidal Brook, tributary to Raritan River	Recreational	
Raritan Tp (Mid)	x				x												x	x	x		x	Raritan River	Recreational	
Raritan Tp (Mon)	None																							Unsewered
Readington	None																							Unsewered
Red Bank	x				x												x	x	x		x	Shrewsbury River	Shellfish	
Ridgefield						x													x			Overpeck Creek	Recreational	
Ridgefield Park						x													x			Overpeck Creek	Recreational	East Side Plant
Ridgefield Park						x													x				Recreational	West Side Plant
Ridgewood	Passaic Valley Sewerage District																							
Ringwood	None																							Unsewered
Riverdale	None																					Hackensack River		Unsewered
River Edge						x													x			Berry's Creek	Recreational	
Riverside				x					x					x					x			Delaware River	Recreational	
Riverton	None																					Delaware River	Recreational and Potable	Sewered only
Rivervale	None																							Unsewered
Rochelle Park	Passaic Valley Sewerage District																							
Rockaway Bor	See Boonton Township—Jersey City Plant																							
Rockaway Tp	None																							Unsewered
Rockleigh	None																							Unsewered
Rocky Hill	None																							Unsewered
Roseland	None																							Unsewered
Roselle	None																					Arthur Kill	Recreational	Sewers only
Roselle Park	See Elizabeth Joint Meeting of Union and Essex Counties																							
Roxbury	None																							Unsewered
Rumson				x																		Shrewsbury River	Recreational and Shellfish	
Runnemede	None																							Unsewered
Rutherford		x	x	x				x		x		x			x			x		x	x	Berry's Creek	Recreational	Under construction part in Passaic Valley Sewerage District
Saddle River Bor	Passaic Valley Sewerage District																							
Saddle River Tp	Passaic Valley Sewerage District																							
Salem	None																					Salem Creek	Recreational and Shellfish	Sewers only
Sandyston	None																							Unsewered
Sayreville	x	x	x		x							x					x			x	x	South River	Recreational	
Scotch Plains	None																							Unsewered
Sea Bright	x			x													x				x	Atlantic Ocean	Recreational	New plant under const.
Sea Girt				x													x				x	Atlantic Ocean	Recreational	
Sea Isle City	x				x												x	x	x		x	Ludlams Thoroughfare	Shellfish	
Seaside Heights				x													x				x	Atlantic Ocean	Recreational	
Seaside Park						x											x		x		x	Barnegat Bay	Shellfish	
Secaucus				x																		Hackensack River	Recreational	Front Street Plant
Secaucus				x																		Mill Creek, tributary Hackensack River	Recreational	Golden Avenue Plant
Shamong	None																							Unsewered
Shiloh	None																							Unsewered
Ship Bottom-Beach Arlington	None																							Unsewered
Shrewsbury Bor	None																							Unsewered
Shrewsbury Tp	None																							Unsewered
Somerdale	None																							
Somers Point	None																							Unsewered
Somerville	x	x	x		x							x					x			x	x	Raritan River	Potable	
South Amboy					x												x	x	x		x			New plant under const.
Southampton	None																							Unsewered
South Belmar	See Belmar																							
South Bound Brook				x													x							
South Brunswick	None																							Unsewered
South Cape May	None																							Unsewered
South Hackensack				x															x			Hackensack River	Recreational	Formerly Lodi Township
South Harrison	None																							Unsewered
South Orange	See Elizabeth Joint Meeting of Union and Essex Counties																							
South Plainfield	None																							Unsewered
South River	x	x	x		x							x					x			x	x	South River	Recreational	
South Toms River	None																							Unsewered
Sparta	None																							Unsewered
Spotswood	None																							Unsewered
Springfield Tp (Bur)	None																							Unsewered
Springfield Tp (Union)	See Rahway Valley Joint Meeting																							
Spring Lake					x												x	x			x	Atlantic Ocean	Recreational	Pennsylvania Ave. Plant
Spring Lake				x																	x	Atlantic Ocean	Recreational	Pitney Ave. Plant

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	SYSTEM OWNED BY	MUNICIPALITY OR LOCALITY SERVED	Permanent Population (1930)	Sewer Connections (1939)	DATE ERECTED	
					Original Plant	Existing Plant
Spring Lake Heights (B.) (Monmouth)			1,221	.....	....	....
Stafford (Twp.) (Ocean)			1,030	.....	....	....
Stanhope (B.) (Sussex)			1,089	.....	....	....
Stillwater (Twp.) (Sussex)			706	.....	....	....
Stockton (B.) (Hunterdon)			556	.....	....	....
Stone Harbor (B.) (Cape May)	Borough	Stone Harbor (part)	*363	.....	1910	1930
Stowe Creek (Twp.) (Cumberland)			706	.....	....	....
Stratford (B.) (Camden)			958	.....	....	....
Summit (C.) (Union)			14,556	.....	....	....
Surf City (B.) (Ocean)			76	.....	....	....
Sussex (B.) (Sussex)			1,415	.....	....	....
Swedesboro (B.) (Gloucester)			2,123	.....	....	....
Tabernacle (Twp.) (Burlington)			400	.....	....	....
Tavistock (B.) (Camden)			20	.....	....	....
Teaneck (Twp.) (Bergen)	Township	Western Section	10,513	.....	1921	1929
Teaneck (Twp.) (Bergen)	Township	West Englewood Section		.....	1922	1929
Teaneck (Twp.) (Bergen)	Township	East Section Vandalinda		.....	1925	1928
Tenafly (B.) (Bergen)	Borough	Tenafly	5,609	1,773	1927	1933
Tewksbury (Twp.) (Hunterdon)			1,119	.....	....	....
Totowa (B.) (Passaic)	Borough	Totowa	4,600	721	1929	1929
Trenton (C.) (Mercer)	City	Trenton	123,356			
		Ewing Township (part)	6,042	1,926	....	....
		Hamilton Township (part)	27,121			
		Lawrence Township (part)	6,293			
Tuckerton (B.) (Ocean)			1,429	.....	....	....
Union (Twp.) (Hunterdon)			1,152	.....	....	....
Union (Twp.) (Ocean)			1,037	.....	....	....
Union (Twp.) (Union)			16,472	.....	....	....
Union Beach (B.) (Monmouth)			1,893	.....	....	....
Union City (C.) (Hudson)	Joint Outlet Sewer Owners	Union City	58,659			
		Weehawken	14,807	.....	....	....
		West New York	37,107			
Upper (Twp.) (Cape May)			1,657	.....	....	....
Upper Deerfield (Twp.) (Cumberland)			2,051	.....	....	....
Upper Freehold (Twp.) (Monmouth)			1,807	.....	....	....
Upper Penns Neck (Twp.) (Salem)			3,879	.....	....	....
Upper Pittsgrove (Twp.) (Salem)			1,899	.....	....	....
Upper Saddle River (B.) (Bergen)			347	.....	....	....
Ventnor (C.) (Atlantic)	City	Ventnor	6,674	.....	1911	1933
		Margate City	2,013			
Vernon (Twp.) (Sussex)			1,279	.....	....	....
Verona (B.) (Essex)	Borough	Verona	7,161	1,759	1917	1936
Vineland (B.) (Cumberland)	Borough	Vineland (part)	7,556	2,036	1901	....
Voorhees (Twp.) (Camden)			1,405	.....	....	....
Waldwick (B.) (Bergen)	Borough		1,728	.....	....	....
Wall (Twp.) (Monmouth)			3,504	.....	....	....
Wallington (B.) (Bergen)			9,063	.....	....	....
Walpack (Twp.) (Sussex)			173	.....	....	....
Wanaque (Twp.) (Passaic)			3,119	118	1916	1918
Wantage (Twp.) (Sussex)	Haskell Improvement Co.	Haskell Section	2,075	.....	....	....
Warren (Twp.) (Somerset)			1,899	.....	....	....
Washington (B.) (Warren)	Borough		4,410	1,010	1911	1929
Washington (Twp.) (Bergen)		Washington	402	.....	....	....
Washington (Twp.) (Burlington)			478	.....	....	....
Washington (Twp.) (Gloucester)			2,068	.....	....	....
Washington (Twp.) (Mercer)			1,347	.....	....	....
Washington (Twp.) (Morris)			1,615	.....	....	....
Washington (Twp.) (Warren)			1,097	.....	....	....
Watchung (B.) (Somerset)	Borough	Watchung (part)	906	.....	....	....
Waterford (Twp.) (Camden)	Packanack Lake, Inc.		2,421	.....	....	....
Wayne (Twp.) (Passaic)	Joint Outlet Sewer Owners	Packanack Lake Section	4,469	503	1929	1929
Weehawken (Twp.) (Hudson)		Weehawken	14,807	.....	....	....
Wenonah (B.) (Gloucester)	Greene Estate	Princeton Avenue Section	1,245	130	Prior to 1904	1913
Wenonah (B.) (Gloucester)	Greene Estate	Mantua Avenue Section			Prior to 1904	1913
West Amwell (Twp.) (Hunterdon)			788	.....	....	....
West Caldwell			2,911	.....	....	....
West Cape May (B.) (Cape May)	Borough	West Cape May	1,048	.....	....	....
West Deptford (Twp.) (Gloucester)	Woodbury	West Deptford (part)	3,956	.....	....	....
Westfield (Town) (Union)			15,801	.....	....	....
Westhampton (Twp.) (Burlington)			491	.....	....	....
West Long Branch (B.) (Monmouth)	Long Branch Sewer Co.	West Long Branch	1,686	.....	....	....
West Milford (Twp.) (Passaic)	Ringwood Company	Awosting Section				
West Milford (Twp.) (Passaic)	City of Newark	Macopin Section		85	1915	....
West New York (Town) (Hudson)	Joint Outlet Sewer Owners	West New York	1,901	9	1914	....
West Orange (Town) (Essex)			37,107	.....	....	....
			24,327	.....	....	....

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	Tanks: Mechanical Screens	Tanks: Rapid Mix	Tanks: Flocculation	Tanks: Primary Settling: Single Story Plain	Tanks: Primary Settling: Single Story Mechanical	Tanks: Primary Settling: Imhoff	Tanks: Primary Settling: Other	Tanks: Dosing Tank	Filter Beds: Contact	Filter Beds: Sprinkling	Filter Beds: Intermittent Sand	Filter Beds: Strainer	Tanks: Secondary Tanks: Aeration Tanks	Tanks: Secondary Tanks: Single Story Plain	Tanks: Secondary Tanks: Single Story Mechanical	Tanks: Secondary Tanks: Imhoff	Tanks: Secondary Tanks: Chlorine Contact	Tanks: Separate Sludge Digest.	Sludge Dewatering: Sand Beds	Sludge Dewatering: Mechanical	Chlorination	RECEIVING WATERS: NAME	RECEIVING WATERS: PREDOMINANT USE	REMARKS
Spring Lake Heights											None													Unsewered
Stafford											None													Unsewered
Stanhope											None													Unsewered
Stillwater											None													Unsewered
Stockton											None													Unsewered
Stone Harbor				x															x		x	Trent Channel	Recreational	
Stowe Creek											None													Unsewered
Stratford											None													Unsewered
Summit	See Elizabeth Joint Meeting of Union and Essex Counties																							
Surf City											None													Unsewered
Sussex											None													Unsewered
Swedesboro											None													Sewers only
Tabernacle											None													Unsewered
Tavistock											None													Unsewered
Teaneck						x													x			Hackensack River	Recreational	Pomander walk
Teaneck						x													x			Hackensack River	Recreational	
Teaneck						x													x			Overpeck Creek	Recreational	
Tenafly				x					x			x		x		x			x		x	Tenakill Creek	Recreational	Activated sludge
Tewksbury											None													Unsewered
Totowa						x		x		x					x			x				Passaic River	Recreational	
Trenton				x		x													x			Delaware River	Potable and Recreational	
Tuckerton											None													Unsewered
Union Tp (Hun)											None													Unsewered
Union Tp (Ocean)											None													Unsewered
Union Tp (Union)	See Elizabeth Joint Meeting of Union and Essex Counties																							
Union Beach											None													Unsewered
Union City											None											Hudson River	Recreational	Combined sewer
Upper											None													Unsewered
Upper Deerfield											None													Unsewered
Upper Freehold											None													Unsewered
Upper Penns Neck											None													Unsewered
Upper Pittsgrove											None													Unsewered
Upper Saddle River	Passaic Valley Sewerage District																							
Ventnor				x															x	x	x	Beach Thoroughfare	Recreational and Shellfish	Ventnor-Margate Plant
Vernon											None													Unsewered
Verona	x	x		x				x											x	x	x	Peckman River	Recreational	Chemical precipitation
Vineland			x																					Broad irrigation
Voorhees											None													Unsewered
Waldwick											None													Unsewered
Wall											None													Unsewered
Wallington	Passaic Valley Sewerage District																							
Walpack											None													Unsewered
Wanaque				x					x													Wanaque River	Recreational	Haskell Section only
Wantage											None													Unsewered
Warren											None													Unsewered
Washington Bor (War)				x		x		x		x									x	x	x	Shabbecong Creek	Recreational	
Washington Tp (Ber)											None													Unsewered
Washington Tp (Bur)											None													Unsewered
Washington Tp (Glo)											None													Unsewered
Washington Tp (Mer)											None													Unsewered
Washington Tp (Mor)											None													Unsewered
Washington Tp (War)											None													Unsewered
Watchung	See Plainfield Joint Meeting																							
Waterford											None													Partly sewered
Wayne				x					x										x		x			Unsewered
Weehawken	See Union City																					Big Ditch, tributary of Pompton River	Recreational	
Wenonah				x				x			x											Mantua Creek	Recreational	Combined sewer
Wenonah				x				x			x											Mantua Creek	Recreational	Princeton Avenue Plant
West Amwell											None													Unsewered
West Caldwell																								Caldwell Plant
West Cape May											None													Sewers only
West Deptford	See Woodbury Plant No. 1																							
Westfield	See Rahway Valley Joint Meeting Plant																							
Westhampton											None													
West Long Branch	See Long Branch																							
West Milford				x				x			x								x			Wanaque River	Potable	
West Milford					x			x			x											Pequannock River	Potable	
West New York	See Union City																							
West Orange	See Elizabeth Joint Meeting of Union and Essex Counties																							Combined sewer

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	SYSTEM OWNED BY	MUNICIPALITY OR LOCALITY SERVED	Permanent Population (1930)	Sewer Connections (1939)	DATE ERECTED	
					Original Plant	Existing Plant
West Paterson (B.) (Passaic)	Borough	West Paterson	8,101	301	1920	....
Westville (B.) (Gloucester)			3,462	895	1925	....
West Wildwood (B.) (Cape May)	Borough	West Wildwood	*178	.....	1922	....
West Windsor (Twp.) (Mercer)			1,711	.....	....	....
Westwood (B.) (Bergen)	Borough	Westwood	4,861	1,457	1926	1936
Weymouth (Twp.) (Atlantic)			685	.....	....	....
Wharton (B.) (Morris)	Jersey City		3,033	.....	....	....
White (Twp.) (Warren)			1,200	.....	....	....
Wildwood (C.) (Cape May)	City	Wildwood	*5,330	5,427	1916	....
Wildwood Crest (B.) (Cape May)	Borough	Wildwood Crest	*739	350	1913	1928
Willingboro (Twp.) (Burlington)			613	.....	....	....
Winslow (Twp.) (Camden)			4,744	.....	....	....
Woodbine (B.) (Cape May)			2,164	.....	....	....
Woodbridge (Twp.) (Middlesex)	Township	Fords, Frazer, Hope Lawn, Keasbey Heights		.....	....	....
Woodbridge (Twp.) (Middlesex)	Township	Home Garden		.....	1920	....
Woodbridge (Twp.) (Middlesex)	Township	Coddington Avenue		.....	1912	....
Woodbridge (Twp.) (Middlesex)	Township	Avenal		.....	1920	....
Woodbridge (Twp.) (Middlesex)	Township	Edgars—Avenal		.....	1912	....
Woodbridge (Twp.) (Middlesex)	Township	Rahway Avenue	25,266	.....	1926	....
Woodbridge (Twp.) (Middlesex)	Township	Port Reading		.....	1914	....
Woodbridge (Twp.) (Middlesex)	Township	Pleasant Avenue		.....	....	....
Woodbridge (Twp.) (Middlesex)	Township	Wedgewood Avenue		.....	1918	....
Woodbridge (Twp.) (Middlesex)	Township	Crampton Avenue		.....	1926	....
Woodbridge (Twp.) (Middlesex)	Township	Woodbridge Avenue		.....	1914	....
Woodbridge (Twp.) (Middlesex)	Township	Woodbridge Boulevard & Central Ave...		.....	....	....
		Rahway	16,011			
		Clark	1,474			
		Cranford	11,126			
		Garwood	3,344			
Woodbridge (Twp.) (Middlesex)	Rahway Valley Joint Meeting	Kenilworth	2,243	.....	1937	....
		Roselle Park (part)	8,909			
		Springfield	3,725			
		Westfield	15,801			
		Woodbridge (part)	25,266			
Woodbury (C.) (Gloucester)	City	Woodbury, West Side	8,172	.....	1922	....
Woodbury (C.) (Gloucester)	City	Woodbury, North Side—West Deptford Township (part)	3,056	.....	1903	Under Const.
Woodbury Heights (B.) (Gloucester)	Borough	Woodbury Heights (part)	907	200	1921	....
Woodcliff Lake (B.) (Bergen)			871	.....	....	....
Woodland (Twp.) (Burlington)	Borough		970	.....	....	....
Woodlynne (B.) (Camden)	Borough	Woodlynne	2,878	777	1924	1939
Wood Ridge (B.) (Bergen)	Woodstown Sewer Co.	Wood Ridge	5,159	.....	1925	1937
Woodstown (Twp.) (Salem)		Woodstown	1,832	308	1906	....
Woolwich (Twp.) (Gloucester)	Borough		1,196	.....	....	....
Wrightstown (B.) (Burlington)		Wrightstown (part)	176	.....	1918	....
Wyckoff (Twp.) (Bergen)			3,001	.....	....	....

STATUS OF SEWAGE DISPOSAL AS OF JUNE, 1939—Continued

MUNICIPALITY AND COUNTY	Mechanical Screens	Tanks						Dosing Tank	Filter Beds				Aeration Tanks	Secondary Tanks				Separate Sludge Digest.	Sludge Dewatering		Chlorination	RECEIVING WATERS		REMARKS
				Primary Settling																		NAME	PREDOMINANT USE	
		Rapid Mix	Flocculation	Single Story Plain	Single Story Mechanical	Imhoff	Other		Contract	Sprinkling	Intermittent Sand	Strainer		Single Story Plain	Single Story Mechanical	Imhoff	Chlorine Contact		Sand Beds	Mechanical				
West Paterson	...	...	...	...	...	x	...	x	...	x	...	...	...	x	...	...	x	...	x	...	x	Passaic River	Recreational	...
Westville	...	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	x	x	...	...	Delaware River	Recreational	...
West Wildwood	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	x	...	...	...	x	Post Creek, tributary to Grassy Sound	Shellfish	...
West Windsor	None																					...	...	Unsewered
Westwood	x	x	x	...	x	...	...	x	...	...	x	...	...	...	...	...	x	x	x	...	x	Hackensack River	Recreational	Chemical precipitation
Weymouth	None																					...	...	Unsewered
Wharton	See Boonton Township—Jersey City Plant																					...	...	...
White	None																					...	...	Unsewered
Wildwood	...	...	...	...	...	x	...	...	...	...	...	...	...	...	...	...	x	x	x	...	x	Sunset Lake	Shellfish	...
Wildwood Crest	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	x	...	x	...	x	Sunset Lake	Shellfish	...
Willingboro	None																					...	...	Unsewered
Winslow	None																					...	...	Unsewered
Woodbine	None																					...	...	Unsewered
Woodbridge	x	...	...	...	x	...	...	...	...	...	...	x	...	...	...	...	x	x	x	...	x	Kinsey's Creek, Raritan River	Recreational	New plant—contract awarded
Woodbridge	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
Woodbridge	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
Woodbridge	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
Woodbridge	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
Woodbridge	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
Woodbridge	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Arthur Kill	Recreational	...
Woodbridge	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbridge Creek	Recreational	...
Woodbridge (Rahway Val. Joint Meeting)	x	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	x	x	x	...	x	Rahway River	Recreational	...
Woodbury	...	...	...	...	...	x	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Woodbury Creek	Recreational	Plant No. 2
Woodbury	...	...	...	...	...	x	...	...	...	...	...	...	...	...	...	...	x	...	x	...	x	Woodbury Creek	Recreational	Plant No. 1 under const.
Woodbury Heights	...	...	...	...	...	x	...	x	...	x	...	...	...	...	...	...	...	...	x	...	...	Woodbury Creek	Recreational	...
Woodcliff Lake	None																					...	...	Unsewered
Woodland	None																					...	...	Unsewered
Woodlynne	...	...	...	...	...	x	...	...	...	...	...	...	...	...	...	...	x	...	x	...	...	Newton Creek	Recreational	Installation of chlorinator contemplated
Wood Ridge	...	x	x	...	x	...	...	x	...	...	x	...	...	...	x	...	x	x	x	...	x	Berry's Creek	Recreational	Chemical precipitation
Woodstown	...	...	...	x	...	...	...	x	...	...	x	...	...	...	...	...	...	...	...	...	...	Salem Creek	Recreational	...
Woolwich	None																					...	...	Unsewered
Wrightstown	...	...	...	x	...	...	...	...	...	...	x	...	...	...	...	...	...	...	...	...	...	Crosswick's Creek	Recreational	...
Wyckoff	None																					...	...	Unsewered

Report of the Bureau of Food and Drugs

For the Year Ending June 30, 1939

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 was passed in 1907. 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, and the act governing the production, handling and distribution of milk, cream and milk products. In addition to these laws, the Legislature has passed special laws governing the distribution and sale of oleomargarine, ice cream, "filled milk," methyl alcohol, and also laws governing the breaking of eggs, the storage of food in cold storage warehouses, the slaughtering of animals for food, and laws governing the production, sale and distribution of shellfish.

The Federal Food and Drug Act has been strengthened by the passage of a new act which includes regulatory control over cosmetics, over therapeutic devices intended for use in the diagnosis, cure, mitigation or treatment of disease in man or animals, and over the distribution and sale of "new" drugs unless adequately tested. The Federal Act applies to those foods, drugs, cosmetics and devices which are shipped in interstate commerce.

A bill was introduced in the Legislature of 1939, which was intended to make such changes in the laws of this State as to bring the requirements of New Jersey in harmony with the requirements as contained in the Federal Food, Drug and Cosmetic Act, but had not become a law at the close of the fiscal year.

The necessity for uniformity in State and Federal requirements is apparent when it is recognized that many foods, drugs, cosmetics, and devices manufactured or prepared in one State may be sold in and shipped to many states. It seems desirable to have the same requirements apply to the preparation and sale of foods, drugs, cosmetics and devices which are prepared and distributed solely within this State, as apply to these articles when shipped in interstate commerce.

Dairy Farm and Milk Plant Inspection—Eight inspectors make field investigations covering dairy farms, receiving stations and pasteurizing plants from which milk and milk products are obtained for distribution in this State.

Since these articles of food are prepared for our consumers in hundreds of milk plants receiving milk from many thousands of dairies, our investigations must of necessity cover only cross sections of the premises involved in the handling of our dairy products.

Our efforts are directed toward the problem of eliminating the unfit wherever the same is found and securing the safety and general fitness of our milk and milk products by educational means.

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

State	*No. of Inspections of Milk Plants*	*No. of Inspections of Dairies*
New Jersey	1,608	3,712
Delaware	7	21
District of Columbia	6	48
Maryland	4	464
Michigan	1	56
New York	125	3,371
Ohio	1	64
Pennsylvania	73	2,217
Virginia	1	19
	1,826	9,972

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

State	*No. of Inspections of Milk Plants*	*No. of Inspections of Dairies*
Delaware	1	55
Maryland	2	52
Michigan	1	244
New York	42	3,965
Indiana	2	865
Ohio	2	435
Pennsylvania	21	2,791
Wisconsin	2	457
	73	8,864

Collection of Milk, Cream and Milk Products—During the year 5,136 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—In the inspection of ice cream plants, special attention has been given to the sanitation of factories and equipment and to the source of the raw materials used in the preparation of the ice cream. Under the laws of the State, it is necessary for manufacturers of ice cream to procure the milk, cream or ice cream "mix" intended for use in the manufacture of ice cream from plants holding permits from this Department.

During the year 1,166 inspections have been made of places where ice cream, sherbets or ices are manufactured for distribution in New Jersey, and 909 samples have been collected for examination. Of this number 53 samples were found to differ from the legal standard.

Bakery Inspection—The enforcement of the regulations governing the preparation and sale of custard filled pastry products, adopted in 1935, has been continued. A large number of bakers have provided mechanical refrigerators in which the custard fillings or the filled pastries are held pending sale. The filling devices are generally dismantled after use and thoroughly cleaned.

In our inspection of bakeries during the year, we have stressed the importance of cleanliness of the floors, sidewalls and ceiling of bakery rooms, of storage rooms, of dressing rooms and of toilet rooms. Special attention has also been given to the cleanliness of mixing machines, benches, racks, tables, utensils and equipment used in the preparation and handling of bakery products; to the cleanliness of clothing of employees and to the installation and proper use of facilities for the cleansing of hands of food handlers. Investigations have also been made of raw materials used in the preparation of bakery products to ascertain whether or not such materials are clean and wholesome and are stored in such a manner as to be protected from contamination by flies, dust and dirt.

In cases where insanitary conditions were found, the Bureau has followed the policy of advising bakers of objectionable conditions both verbally and in written notices. Reinspections are made in such cases within a reasonable period of time. In those cases in which the instructions to operate bakeries in compliance with the provisions of law were ignored, hearings were held, and, in certain cases, prosecutions for the collection of penalties have been instituted. In most cases marked improvement in the condition of bakery premises and the equipment used in the preparation of bakery products has been noted upon reinspection.

During the year 2,573 sanitary inspections of bakeries have been made by agents of this Bureau.

Eggs—The sale of infertile eggs which have been in incubators for 18 days and which are regarded as decomposed and unfit for food was found to be practiced again during the year. Our agents condemned 3,360 dozens of shell eggs, and 10,530 pounds of frozen eggs, which were found to be adulterated within the meaning of the law in that they were a filthy, decomposed product.

During the 1939 session of the Legislature, a law was enacted which provides that no person shall knowingly distribute or sell any eggs for human consumption which have been removed from incubators unless such eggs have been broken and denatured before removal from the premises on which the incubators are located. With the support of the poultry and egg industries of New Jersey, it is believed that the enforcement of this law will materially aid this Department in preventing the sale of decomposed and filthy eggs.

The assistance and co-operation of the agents of the Food and Drug Administration of the United States Department of Agriculture in these investigations is gratefully acknowledged.

Non-Alcoholic Beverage and Bottled Water Plant Inspection—Samples of water taken from springs or driven wells from which water is bottled for sale to the public as bottled water, or from which water is used in the preparation of non-alcoholic beverages have been collected and examined during the year. In certain cases it was necessary to prohibit the sale or use of the water because of impurities found upon examination.

During the year 467 inspections were made of beverage and water bottling plants and 318 samples were collected for analyses.

Slaughterhouse and Meat Inspection—During the year 438 inspections were made of the slaughterhouses in this State to ascertain whether or not these plants were being maintained and operated under sanitary conditions. These inspections show that these plants are operated in substantial compliance with the law.

During the year investigations were made of the practice of taking animals unfit for slaughter for food purposes because of grossly abnormal diseased or maimed conditions into licensed slaughterhouses. Legal action has been instituted for the collection of penalties in these cases.

Meat inspection has also been carried on in connection with the sanitary inspection of meat packing plants and meat markets. There have been collected 994 samples of ground beef, and 34 of these samples were found to contain sulphites in violation of law. Legal prosecutions have been instituted against persons offering such adulterated meat for sale.

Canning Factory Inspection—During the year 125 inspections were made of canning factories in this State. Special attention has been given to the sorting of raw materials to prevent the entrance of unfit substance into canned foods.

Because of a shortage of cranberries during the fall of 1938, certain canners were found placing upon the market canned cranberry sauce which had been prepared in part from mouldy and decomposed berries. Shipments of cranberries to canners in New Jersey from another state proved that a material percentage of the berries in certain shipments were decomposed. In order to prevent the sale of decomposed cran-

berry sauce, it became necessary for the canners to destroy the decomposed food.

During the year 18,736 cans of cranberry sauce, holding 17 oz. each; 72 twenty-five pound boxes, and 18 barrels of cranberries were destroyed.

Penalties—During the year $6,417.30 was collected in penalties and costs for violations of the Food and Drug Laws.

Fees—The following fees were collected during the year for licenses and permits:

Cold storage licenses	29	@	$10.00	$290.00
Goat milk permits	12			54.41
Ice cream licenses	25	@	100.00	2,500.00
Ice cream licenses	9	@	50.00	450.00
Ice cream licenses	12	@	25.00	300.00
Ice cream licenses	32	@	10.00	320.00
Ice cream licenses	594	@	5.00	2,970.00
Milk plant permits	617	@	25.00	15,425.00
Narcotic drug licenses	2	@	50.00	100.00
Narcotic drug licenses	15	@	5.00	75.00
				$22,484.41

SAMPLES OF MILK, CREAM, FOODS, DRUGS, COLLECTED FOR ANALYSES

	Above Standard	*Below Standard*	*Total*
Milk and cream	5,075	61	5,136
Foods	2,813	513	3,326
Drugs	756	130	886
Miscellaneous	45	17	62
	8,689	721	9,410

SANITARY INSPECTIONS MADE OF ESTABLISHMENTS WHERE FOODSTUFFS ARE PRODUCED, PREPARED, PACKED, STORED OR OTHERWISE HANDLED

	Inspections
Dairy farms	9,972
Milk plants	1,826
Ice cream factories	1,166
Non-alcoholic beverage and water bottling plants	467
Slaughterhouses	438
Cold storage warehouses	299

Egg breaking establishments	25
Restaurants	1,297
Bakeries	2,573
Meat markets	789
Meat packing plants	89
Drug stores	21
Pickle establishments	17
Candy factories	26
Canning factories	125
	19,130

Cold Storage—Title 24:9–12, Revised Statutes (the Cold Storage Act), provides that the State Director of Health shall extend the period of storage beyond 12 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, 1938, to June 30, 1939, extensions of time were granted for the storage of food in cold storage, as follows:

Quantity	*Article*	*Extension Granted*
23,605 pounds	fresh meat	3 months
375 boxes	fresh fish	2 months
251 boxes	poultry	1 month
166 boxes	poultry	2 months
873 boxes	poultry	3 months
1,441 boxes	cheese	1 month
15,457 boxes	cheese	2 months
21,583 boxes	cheese	3 months
24,039 cans—30-lb.	egg yolk	1 month
25,423 cans—30-lb.	egg yolk	2 months
582 cans—30-lb.	whole egg	1 month
65,558 cans—30-lb.	whole egg	2 months
39,989 cans—30-lb.	whole egg	3 months
8,154 cans—30-lb.	egg yolk	3 months
395 cans—30-lb.	egg whites	3 months
276 tubs	butter	2 months
2,292 tubs	butter	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.

SUMMARY OF THE KINDS AND AMOUNTS OF FOODS IN COLD STORAGE WAREHOUSES IN NEW JERSEY ON THE LAST DAY OF EACH MONTH DURING THE YEAR 1938-1939

ARTICLE	July 1938	Aug. 1938	Sept. 1938	Oct. 1938	Nov. 1938	Dec. 1938	Jan. 1939	Feb. 1939	March 1939	April 1939	May 1939	June 1939
Eggs, cases	633,477	507,747	448,426	312,602	147,468	37,260	12,044	9,834	79,776	250,811	490,788	625,197
Eggs, broken, lbs.	10,936,736	11,008,324	10,949,999	9,981,443	9,025,281	7,826,338	6,011,831	5,528,807	5,281,044	5,544,858	6,990,203	7,913,647
Cheese, lbs.	5,762,873	6,079,330	6,394,727	6,418,921	6,032,288	5,775,008	5,037,926	4,400,920	3,701,111	3,388,883	3,402,653	4,082,357
Butter, lbs.	18,445,029	28,982,819	30,901,850	34,805,385	31,285,165	28,550,980	26,907,142	25,803,818	24,390,047	22,743,964	20,870,134	21,990,894
Poultry, lbs.	8,463,608	9,713,248	9,909,313	10,300,423	11,074,229	11,762,057	10,746,574	9,201,280	7,390,652	5,980,642	6,064,190	6,225,439
Fresh meats, lbs.	3,993,611	4,084,513	4,406,395	4,284,852	4,502,893	4,875,756	5,182,742	4,862,530	4,201,922	4,032,005	4,393,507	4,135,773
Fresh fish, lbs.	1,506,783	3,750,020	3,101,420	2,079,805	2,720,000	3,010,013	2,404,757	1,420,270	633,269	790,918	2,008,498	4,280,823
Milk and milk products, lbs.	1,380,874	991,104	1,169,806	1,041,298	826,803	656,373	478,540	397,185	282,720	187,884	240,469	300,054
Edible fats and oils, lbs.	251,602	50,077	28,878	21,711	26,655	37,944	57,844	51,060	57,353	27,310	10,704	22,985
Game, lbs.	1,300	2,022	495	1,269	2,103	5,917	3,482	1,825	1,881	1,104	991	733
Miscellaneous articles, pkgs.	438,283	422,268	507,813	971,800	1,010,204	820,158	701,049	721,806	625,071	508,098	557,317	348,406

Sanitary Shellfish Control—Frequent inspection and sampling of the shellfish waters of the State, sampling of shellfish, and inspection of dealers occupied the major attention of the shellfish control force. The system of identification of the source of shellfish through the use of approved tags has been universally adopted by the shellfish producers of this State. Shipments received from other states are being constantly checked to see that all such shipments are properly identified so as to comply with the regulations of the Department.

The three field laboratories located in the major shellfish producing areas have exercised constant supervision of the industry so as to insure the production of a clean and safe shellfish supply for the consumers of this State and of the many other states to which the New Jersey product is shipped. In addition, certain research work has been carried on in an effort to secure necessary control data.

In the Raritan Bay section an intensive patrol of the border-line adjacent to condemned waters in New York State was maintained by joint activity with the State Board of Shellfisheries and New York authorities, to prevent illegally removed shellfish from gaining access to markets. Patrol was also made of the condemned areas within this State and a number of violators apprehended and prosecuted.

During the year the old shellfish patrol and laboratory boat, "Inspector," was retired after 26 years of hard service, and was replaced with a larger boat, which was purchased through funds provided by the Federal Government. This boat has been equipped with a complete shellfish control laboratory. The boat is engaged in the investigation and patrol of all of the shellfish producing waters of the State for a period of six months in each year. The provision of this larger and more seaworthy craft has enlarged the scope of the control by boat and permits a thorough coverage of the producing areas.

Investigation of shellfish producing waters in close proximity to areas inhabited by temporary summer population has indicated the necessity of careful and repeated supervision of such areas. With the increase in such population and the lack of adequate disposal of domestic wastes, it became necessary for the Department to condemn further areas for the removal of shellfish. During the year areas in Reed Bay, Back Thorofare, Patcong Creek and Cape May Harbor, were so condemned. A small portion of Manasquan River, which had been condemned, was again reopened.

During the year there were examined on the boat and in the field laboratories 573 samples of oysters, 467 samples of hard clams, 217 samples of soft clams, and 1,748 samples of water, making the total number of samples, 3,005. There were also made during the year 1,772 inspections of establishments from which shellfish are shipped in the shell, 170 inspections of shellfish shucking establishments, and 178 miscellaneous shellfish inspections, totaling 2,120 inspections.

Report of the Bureau of Bacteriology

For the Fiscal Year Ending June 30, 1939.

J. V. MULCAHY, CHIEF.

The past fiscal year has been marked by an unusual expansion in the activities of this Bureau. The increase is especially evident in the examination of specimens in the serodiagnostic tests for evidence of syphilis. The enactment of the Pre-marital Medical Examination law requiring blood tests from applicants for marriage license, effective July 1, 1938, and the passage of an act requiring blood tests from pregnant women effective January 1, 1938, accounts for a large part of the increase in the diagnostic work of this laboratory. Another factor in the increased number of these specimens is due to the syphilis control program in this State. Specimens are submitted from venereal disease clinics, from enrollees in C.C.C. camps, from inmates in a number of State and county institutions, from employees in some of the industrial plants in the State, from food handlers where this examination is required by local ordinance and occasionally from other large groups.

SYPHILIS

The blood examinations of these various larger groups are made to detect evidence of syphilis so those persons found to be infected may be brought under proper treatment.

It will be seen from Table I that 160,663 specimens were received for examination for evidence of syphilitic infection. Pre-marital blood tests were made on 30,757 blood specimens in this Bureau during the first year of the operation of this law. Of these tests 350 or 1.13 percent were positive.

For the six months of operation of the law requiring blood tests from women during pregnancy 11,593 blood tests were made. Of the individuals tested by the State laboratory 105 were found to be positive or 0.9 percent.

Kahn tests were made on 17,680 specimens of blood submitted for the Wassermann test.

These specimens are exclusive of the specimens examined in other laboratories in the State approved by the State Department of Health to perform standard blood tests for the marriage license law and pre-natal blood tests. Approval has been extended to each of these approved laboratories after inspection and approval issued when the person in charge has agreed to be responsible for the accuracy and reliability of the laboratory findings.

From reports submitted by 71 approved laboratories a total of 19,476 blood tests were made in compliance with the Pre-marital Law. Specimens for pre-natal blood tests examined by 93 approved laboratories totaled 5,156.

The article that follows appeared in the Quarterly Bulletin of the New York City Department of Health in the February, 1939 issue in reference to an arrangement regarding pre-marital blood tests. It will be seen that to issue the New York City forms it is required that the blood test be made in the laboratory of the New Jersey State Department of Health. We sometimes have requests from physicians for certificates on New York City forms on blood tests made in one of the approved laboratories. This can not be done as it is necessary to certify on the New York City certificate that the examination was made in the laboratory of this Department.

"At a recent conference of representatives of the New Jersey State Department of Health and the New York City Department of Health, an effort was made to adjust some of the seeming difficulties in connection with the proper administration of the New Jersey pre-marital examination laws. The following represents the essential points in the agreement reached.

I. The laboratory of the New York City Department of Health will execute the New Jersey pre-marital certificate in cases where it is indicated that the applicant intends to be married in New Jersey. It will return same to the examining physician with the confidential report on the result of the test. (Regular Health Department reports to be used for this purpose.)

II. (a) For New York City residents applying for pre-marital examinations but intending to be married in New Jersey a notation to this effect must be made by the examining physician on the form accompanying the blood specimens, so that the proper New Jersey certificates can be issued.

(b) For residents of New Jersey applying for pre-marital examination and intending to be married in New Jersey, the blood specimen should be forwarded to the laboratory of the State Department of Health, Trenton, New Jersey.

III. If a blood specimen is received by the laboratory of the New York City Department of Health without any indication that the applicant is to be married in New Jersey, the regular New York City certification will have been forwarded to the physician. If it later develops that applicant is to be married in New Jersey, the applicant may bring the certificate directly to the Wassermann laboratory of the New York City Health Department, 125 Worth Street, where a New Jersey certificate will be issued in lieu of the New York City certificate. The applicant must then take the New Jersey certificate to the physician for completion."

Specimens Examined

This table shows the total number of both bacteriological and serological tests made during the year.

Table I

Total Number of Specimens Examined During Fiscal Year Ending June 30, 1939

Diphtheria	10,148
Tuberculosis	11,335
Typhoid fever	4,533
Typhoid bacilli (feces and urine)	6,370
Gonorrhoea	9,956
Syphilis	160,663
Miscellaneous specimens	11,352
Total	214,357

The examination of over 214,000 diagnostic specimens is an increase of 102,627 specimens above those examined last year, although the year 1937 showed a larger number of specimens examined than during any previous year.

Communicable Diseases

There is an increase in all the examinations for evidence of communicable diseases during the past year. The specimens are received from physicians of the State engaged in private practice, from physicians connected with State, county and city institutions and from physicians employed by some of the industrial plants in the State, from other bureaus of the Department and from local health officials. Many of these specimens are sent in from new admittances to State institutions as a routine procedure to prevent introducing cases or carriers of any communicable diseases into these institutions.

Tuberculosis

Sputum specimens to be examined for the presence of tubercle bacilli continue to increase yearly, mostly due to the submission of specimens from several institutions for the care of tubercular patients. These specimens are sent in periodically from these patients as a check on the treatment of these patients. Many of the sputum specimens are also received from physicians from patients under their care in their private practice.

Typhoid Fever

Agglutination tests for the evidence of typhoid fever were made on 4,533 specimens. Many of these blood specimens were routine specimens from persons who showed no evidence of typhoid fever, but were sent in from various types of food handlers for examination together with feces and urine specimens. Most of these specimens are from men and women who are milk handlers of certified milk, New Jersey Official Grade "A" milk, food handlers in C.C.C. camps, recreational camps, from local boards of health and from food handlers in schools and colleges.

When the epidemiologists of this Department investigate cases of typhoid fever thought to be transmitted through food contamination by a typhoid carrier many specimens of feces and urine may be sent in for examination from a number of persons to detect a possible carrier who may be responsible for the infection. It will be seen from Table I that 6,370 specimens of feces and urine were examined during the year.

Miscellaneous Specimens

The 11,352 miscellaneous specimens shown in this table comprise a variety of specimens listed under this heading, including examinations for rabies, amoeba, anthrax, paratyphoid fever, dysentery, hemolytic streptococci infection, malaria, meningitis, pneumonia, Rocky Mountain spotted fever, tularemia, undulant fever, Vincent's angina and other examinations shown in Table XI.

Pneumonia

The State Legislature in March, 1939 passed an act authorizing the State Health Department to distribute anti-pneumococcus serum and in accordance with this act an appropriation was made for the free distribution of pneumonia serum to persons ill with pneumococcus pneumonia unable to pay for therapeutic serum, and providing that the sputum of these cases of pneumonia be typed to determine the type of specific serum required in the treatment of these cases. To make this typing promptly available in all sections of the State the approval of laboratories for this examination was carried out as is the approval for other diagnostic examinations affecting the public health.

Laboratories throughout the State were visited by representatives of the State Department of Health. The persons in charge were interviewed and the laboratory facilities and equipment for carrying on this work were observed. It was required that an application form be filled out by the director of the laboratory if he wished to be approved for the laboratory diagnosis of pneumonia. A printed list of approved laboratories was prepared and furnished to the physicians of the State, local health departments and other interested groups.

Technicians from some of the approved laboratories spent some time in the laboratory of this Department to observe the technique of typing specimens of sputum and to acquire facility in this examination, performed typing on specimens of sputum received in this Bureau under the supervision of the technician in charge of this work.

The technician who performs all examinations on specimens of sputum and other fluids for pneumococcus typing was assigned to this laboratory by the U. S. Public Health Service. The State Department of Health is co-operating with the U. S. Public Health Service to make these examinations so that information may be obtained regarding the types of pneumococci prevalent in cases of pneumonia occurring in New Jersey during the year.

This technician not only examined specimens of sputum received in this laboratory for diagnosis, but by arrangement with selected approved laboratories, specimens of sputum were received from these laboratories. For the purpose of collecting specimens from many of these approved laboratories the State was divided into three sections. One section was

in the southern part of the State, one in the central portion and one in the northern section of the State. The persons in charge of these laboratories located in the three sections of the State agreed to save all specimens of sputum received in their laboratories for pneumococci typing after they had made their own examination and reported on the result of their examination.

These specimens were to be kept in the refrigerator until collected by our messenger. This messenger collected these specimens on a regular schedule and brought them back for examination to the State laboratory. These specimens of sputum were then examined by the Neufeld test. Blood agar plates are made direct from the sputum. Mouse inoculations were made when necessary and cultures made from peritoneal fluid and heart blood of animals sick or dying.

The technician assigned to this work examined from 10 to 20 specimens of sputum daily and was kept very busy handling these specimens. A complete record was kept of the types found by either of the above methods and furnished to Dr. Adolph Rumreich of the U. S. Public Health Service who is in charge of the pneumonia survey in the states where these examinations are being made.

The total number of examinations made from August, 1938 through June, 1939 was 1,829 specimens. Of this number pneumococci were found in 1,474. A table showing the types and number of each type found, is shown in a table in the report of the Bureau of Local Health Administration appearing in the 1939 annual report of the New Jersey State Department of Health.

Of the 356 specimens in which no pneumococci were found, hemolytic streptococci were found in 80 specimens, non-hemolytic streptococci found in 10 specimens, staphylococci found in 58 specimens, Friedlanders bacillus found in 13 specimens, unidentified organisms found in five specimens and no significant organisms found in 190 specimens.

It is interesting to note that multiple types of pneumococci were found in each of 45 specimens of sputum and that 102 specimens of sputum that did not show pneumococci on direct typing or on blood agar plates made from sputum were found after inoculation of mice intraperitoneally. Typing was done on the peritoneal fluid of the mouse and blood agar plates made from the heart blood.

During the year besides mouse inoculations for pneumococci, 434 inoculations were made in other animals. Of this number 103 specimens of urine were inoculated for evidence of renal tuberculosis. Seven of these specimens were found to be positive, 89 negative and seven unsatisfactory.

Inoculations of 95 animals were made on 30 specimens of sputum for evidence of tubercle bacilli, four of these were found positive, 23 specimens negative and three unsatisfactory. Injections were made of body fluids for evidence of tubercular infection on 65 specimens. Of these 18 specimens were found positive and 47 did not show any lesions of tuberculosis.

Animal Inoculations

Subdural inoculations were made on 186 animals with emulsions made from the brains of animals sent in for examination for rabies. Inoculations are made on these specimens for rabies only when the microscopic examination fails to show Negri bodies and are used as a confirmatory check on all negative microscopic findings if it is known that persons have been bitten, or when the brain is so badly decomposed that a satisfactory microscopic examination can not be made. Of these 186 injections two animals developed rabies.

Inoculations for the virulence of diphtheria bacilli were made on 31 cases where the organism persisted in the throat of convalescent cases of diphtheria for an unusually long time and from well persons who are found carriers of these organisms. Of these 31 specimens for virulence tests, 10 specimens showed the organism tested to be virulent. No evidence of virulency could be found in the 21 other specimens tested.

Other inoculations were made in seven instances for evidence of B. abortus infection, one of rabies vaccine for evidence of bacterial infection and for evidence of active virus, a specimen of blood for anthrax and a few other unusual inoculations.

Rocky Mountain Spotted Fever

Cases of Rocky Mountain spotted fever occurring in this State resulted in a number of blood tests being received from suspected cases for examination. One case of Rocky Mountain spotted fever was in a girl who in the early stages of the disease gave an agglutination in a dilution

of 1-40; partial at 1-80. This case ran a typical course somewhat complicated with a bronchial pneumonia. Type XV pneumococci was found in a specimen of sputum submitted for examination. The bronchial condition cleared up promptly under treatment. The child was very sick during its attacks of spotted fever infection but eventually recovered. A specimen of blood obtained during convalescence gave an agglutination reaction in a dilution of 1-1280.

Rabies

Rabies has been more prevalent in New Jersey during the year than has for the past 10 years as will be seen in the following table:

Table II

Yearly Totals of Animals Examined for Rabies From 1930 to 1939, Inclusive

	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939
Positive	96	80	177	130	86	72	150	82	138	262
Negative	121	114	123	121	93	94	121	138	110	237
Unsatisfactory	11	8	27	21	10	12	12	12	17	26
Total	228	202	327	272	189	178	283	232	265	525

Almost 100 percent more examinations over last year were made of animals suspected of having rabies. The number found rabid in this laboratory is close to 100 percent more than found to be affected with rabies last year when 138 were found to be rabid. The figures on rabies shown in Table II include only the examinations made by the Bureau of Bacteriology and are exclusive of examinations that are made in several other laboratories located in the northern part of the State. Quarantine regulations put in force by the State Department of Health in many localities in the State where rabies occurred will without doubt reduce the prevalence of this disease.

Table XII shows the species of animals, mostly dogs, that have been received for examination for rabies. In Table XIV is shown the municipalities arranged by counties from which animals were found to be rabid on examination.

Undulant Fever

Table XII shows the examinations made on specimens of blood from suspected cases of undulant fever.

Culture Media and Mailing Outfits

Table XV shows the number of mailing cases prepared for shipment 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. These outfits are distributed for the collection and transmission of specimens from suspected cases of communicable diseases and comply with the postal regulations relating to the transmission of diseased material through the mail.

The assembling of 272,664 of these outfits, involving as it does the preparation of sterile swabs, vials and other glassware, has kept those engaged with this phase of the laboratory work very busy.

The demand for culture media is growing larger constantly as the number of water and sewage samples increase, and a larger engineering force is put in the field to collect samples in the operation of these purification plants.

We received and filled orders for media totaling over 3,055 liters, requiring several hundred thousand tubes and bottles. This demand has kept our limited number of sterilizers running at capacity most of the time.

Personnel

I wish to acknowledge my appreciation of the conscientious and loyal services of the technical staff and other employees of this Bureau whose services have made it possible to handle the large increase in the number of examinations made during the year. To do this has required much overtime on the part of these employees requiring work on every Sunday and holiday and many evenings.

Without the funds allotted to this Bureau from the Social Security Budget providing the employment of technical assistants and laboratory assistants and helpers it would not have been possible to accomplish this volume of work. The one bacteriologist paid from these funds assists in the examination of the bacteriological specimens. The tech-

nicians employed with the aid of these funds assist in the serodiagnostic tests for syphilis. The laboratory assistants help assemble the mailing outfits for the collection of specimens, tube and sterilize culture media and sterilize glassware. These laboratory assistants and laboratory aids, also paid from these funds, wash all used tubes and bottles and all the chemical glassware, water collecting bottles and miscellaneous glassware.

The passage of the Pre-marital Law and the Pre-natal Law and the issuance of certificates for marriage license has greatly increased the clerical work. The clerk-typists and one clerk-stenographer provided from this budget enable the clerical force to keep up with the increased work.

The funds allotted for laboratory supplies augmenting the State appropriations allows for the purchase of materials and supplies for conducting the examination of specimens of blood for evidence of syphilis and other examinations.

It will be seen in the tables that follow the various examinations made during the year and the scope and extent of the work of the laboratory.

TABLE III

SPECIMENS EXAMINED FOR DIPHTHERIA BACILLI, DURING FISCAL YEAR ENDING JUNE 30, 1939, BY MONTHS

Month	*Positive*	*Negative*	*Unsatisfactory*	*Total*
July	22	487	20	529
August	21	459	19	499
September	15	788	18	821
October	33	793	23	849
November	26	521	7	554
December	58	1,143	23	1,224
January	34	746	22	802
February	32	1,093	40	1,165
March	50	1,144	30	1,224
April	42	644	30	716
May	27	518	18	563
June	33	1,121	48	1,202
Total	393	9,457	298	10,148

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

TABLE IV

SPECIMENS EXAMINED FOR TUBERCLE BACILLI, DURING FISCAL YEAR ENDING JUNE 30, 1939, BY MONTHS

Month	*Positive*	*Negative*	*Unsatisfactory*	*Total*
July	127	735	10	872
August	114	703	8	825
September	127	777	7	911
October	120	768	11	899
November	124	729	6	859
December	96	738	4	838
January	131	967	9	1,107
February	133	875	4	1,012
March	175	996	3	1,174
April	101	812	28	941
May	125	918	12	1,055
June	98	738	6	842
Total	1,471	9,756	108	11,335

TABLE V

SPECIMENS EXAMINED FOR TYPHOID FEVER REACTION, DURING FISCAL YEAR ENDING JUNE 30, 1939, BY MONTHS

Month	*Positive*	*Negative*	*Unsatisfactory*	*Total*
July	10	308	8	326
August	15	517	19	551
September	15	583	22	620
October	14	336	8	358
November	4	277	9	290
December	10	379	11	400
January	5	307	12	324
February	6	321	10	337
March	10	331	19	360
April	4	247	6	257
May	4	260	9	273
June	6	424	7	437
Total	103	4,290	140	4,533

TABLE VI

SPECIMENS OF FECES AND URINE EXAMINED FOR TYPHOID BACILLI, DURING FISCAL YEAR ENDING JUNE 30, 1939, BY MONTHS

Month	*Positive*	*Negative*	*Unsatisfactory*	*Total*
July	15	472	6	493
August	15	539	6	560
September	27	1,020	18	1,065
October	26	607	8	641
November	23	265	3	291
December	22	478	4	504
January	24	464	1	489
February	8	488	5	501
March	14	643	2	659
April	8	336	1	345
May	1	301	1	303
June	8	509	2	519
Total	191	6,122	57	6,370

TABLE VII

SPECIMENS EXAMINED FOR GONOCOCCI (PUS SMEARS), DURING FISCAL YEAR ENDING JUNE 30, 1939, BY MONTHS

Month	*Positive*	*Negative*	*Unsatisfactory*	*Total*
July	132	792	29	953
August	164	740	42	946
September	134	742	18	894
October	114	677	18	809
November	128	815	12	955
December	90	582	17	689
January	122	615	14	751
February	99	563	16	678
March	102	755	13	870
April	93	604	12	709
May	118	668	21	807
June	116	760	19	895
Total	1,412	8,313	231	9,956

TABLE VIII

MISCELLANEOUS SPECIMENS EXAMINED DURING FISCAL YEAR ENDING JUNE 30, 1939, BY MONTHS

Month	*Positive*	*Negative*	*Unsatisfactory*	*Total*
July	131	507	10	648
August	159	803	18	980
September	205	631	13	849
October	220	610	8	838
November	227	496	8	731
December	280	551	3	834
January	410	587	9	1,006
February	523	879	10	1,412
March	525	894	7	1,426
April	416	594	4	1,014
May	278	466	7	751
June	213	644	6	863
Total	3,587	7,662	103	11,352

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, 1939, BY MONTHS

MONTH	4+	3+	2+	+	±	—	Uns.	Total
July	424	53	27	49	78	9,044	307	9,982
August	417	62	22	110	92	11,004	485	12,192
September	491	102	29	107	123	11,082	295	12,231
October	468	91	34	73	84	11,498	232	12,480
November	420	102	45	62	71	10,441	275	11,416
December	386	78	42	49	65	10,328	313	11,261
January	431	78	91	45	115	13,477	664	14,901
February	514	45	48	43	66	12,617	499	13,832
March	611	22	54	57	116	15,714	454	17,028
April	353	26	47	30	71	12,356	308	13,191
May	456	40	49	39	60	14,388	396	15,428
June	545	51	61	43	88	15,403	530	16,721
Total	5,516	750	549	707	1,031	147,352	4,758	160,663

TABLE X

SPECIMENS OF BLOOD AND SPINAL FLUID EXAMINED FOR SYPHILIS (COMPLEMENT FIXATION TEST), WITH CHOLESTERINIZED ANTIGEN, DURING FISCAL YEAR ENDING JUNE 30, 1939, BY MONTHS

MONTH	4+	3+	2+	+	±	—	Uns.	Total
July	607	1	..	206	41	8,820	307	9,982
August	690	..	..	187	98	10,726	485	12,192
September	894	..	..	296	156	10,590	295	12,231
October	825	3	..	157	106	11,157	232	12,480
November	739	3	..	133	110	10,156	275	11,416
December	700	3	6	171	112	9,956	313	11,261
January	831	22	18	167	113	13,086	664	14,901
February	746	13	5	164	79	12,326	499	13,832
March	903	9	10	210	142	15,300	454	17,028
April	592	7	4	166	86	12,028	308	13,191
May	758	8	1	134	101	14,030	396	15,428
June	845	3	5	188	120	15,030	530	16,721
Total	9,136	72	49	2,179	1,264	143,205	4,758	160,663

TABLE XI

MISCELLANEOUS SPECIMENS EXAMINED, POSITIVE, NEGATIVE AND UNSATISFACTORY DURING FISCAL YEAR ENDING JUNE 30, 1939

Specimen for	*Positive*	*Negative*	*Unsatisfactory*
Rabies	262	237	26
Amoeba	3	21	5
Anthrax	...	2	...
Bacterial infection (body fluids, blood, feces, pus, urine, sputum, etc.)	1,222	247	19
B. tuberculosis (body fluids, feces, pus and urine)	44	285	1
B. typhosus (bile, blood, corn, mucous, vomitus and water)	...	20	...
Paratyphoid fever (blood reaction for)	1	1,827	16
B. paratyphosus (bile, feces, blood, mucous, urine, vomitus and water)	30	1,281	1
B. dysentery (feces)	2	99	...
Dysentery (blood reaction for)	5	23	1
Hemolytic streptococci (throat cultures)	349	1,103	1
Malarial parasite (blood)	2	29	3
Meningococci	...	15	...
Ophthalmia neonatorum	47	31	3
Pneumonia	1,256	378	14
Rocky Mountain spotted fever (blood reaction for)	6	36	1
Streptococci (milk)	2	2	...
Treponema pallida	1	1	...
Tularemia	7	88	...
Typhus fever (blood reaction for)	12	46	...
Undulant fever	80	1,354	8
Vincent's angina	194	406	2
Special examination of restaurant utensils	2	59	...
Other unusual examinations	60	72	2
Total	3,587	7,662	103
Grand total			11,352

TABLE XII

SPECIMENS EXAMINED FOR EVIDENCE OF BRUCELLA INFECTION, DURING FISCAL YEAR ENDING JUNE 30, 1939

Undulant fever	*Positive*	*Negative*	*Unsatisfactory*
Agglutination test of human blood	77	1,348	7
Urine (culture for type of organism)	...	1	1
B. Abortus			
Agglutination test of cow's milk	3	5	...
Total	80	1,354	8
Grand total			1,442

Table XIII

Rabies Specimens, Species of Animals, Positive, Negative and Unsatisfactory Examined During Fiscal Year Ending June 30, 1939

Dogs—Positive, 262; negative, 218; unsatisfactory, 25.
Cats—Negative, 14.
Calves—Negative, 3.
Goats—Negative, 1.
Rats—Unsatisfactory, 1.
Squirrels—Negative, 1.

Table XIV

Municipalities, Arranged by Counties, From Which Rabid Animals Were Examined During Fiscal Year Ending June 30, 1939

Burlington County—Bordentown, 1; Columbus, 1; Delanco, 1; Mt. Holly, 1; Riverside, 1.

Camden County—Camden, 1; Gloucester, 1; Merchantville, 1; Woodlynne, 1.

Essex County—Bloomfield, 2; Caldwell, 1; Cedar Grove, 7; Maplewood, 1; Montclair, 1; Nutley, 1; Orange, 3; Upper Montclair, 1; Verona, 3; West Orange, 1.

Hunterdon County—Clinton, 2; Frenchtown, 1.

Mercer County—Dutch Neck, 1; Hopewell, 6; Penns Neck, 1; Princeton, 4; Trenton, 3.

Middlesex County—Carteret, 7; Highland Park, 2; Jamesburg, 2; Metuchen, 1; New Brunswick, 7; Old Bridge, 1; Perth Amboy, 7; Plainsboro, 2; Sayreville, 1; South Amboy, 2; Stelton, 18; Woodbridge, 3.

Monmouth County—Asbury Park, 2; Freehold, 1; Matawan, 1; Neptune, 2; Oakhurst, 1; Red Bank, 2.

Morris County—Boonton, 1; Dover, 19; Madison, 3; Mendham, 3; Morris Plains, 1; Morristown, 7; Netcong, 1; Towaco, 1.

Ocean County—Toms River, 1.

Passaic County—Mountainview, 6; Passaic, 3.

Somerset County—Bernardsville, 3; Bound Brook, 1; Middlebush, 1; Neshanic, 1; North Plainfield, 7; Raritan, 4; Skillman, 2; Somerville, 12; South Bound Brook, 3; Watchung, 1.

Sussex County—Newton, 3; Sussex, 1; Vernon, 2.

Union County—Cranford, 9; Fanwood, 1; Linden, 10; Mountainside, 3; New Providence, 1; Plainfield, 1; Rahway, 5; Springfield, 1; Summit, 8; Westfield, 14.

Warren County—Belvidere, 2; Hackettstown, 5; Hope, 1; Port Colden, 1; Washington, 3.

Table XV

Mailing Cases for the Collection and Transmission of Specimens Supplied to Physicians and Repositories Throughout the State During Fiscal Year Ending June 30, 1939

Diphtheria—Regular mailing cases	14,643	
Serum tubes and swabs	772	
Extra swabs	2,372	
		17,787
Tuberculosis mailing cases		16,987
Typhoid fever mailing cases		3,178
Malaria mailing cases		79
Gonorrhoea mailing cases		14,610
Feces and urine mailing cases		9,928
Pneumonia mailing cases		795
Treponema pallida mailing cases		61
Ophthalmia neonatorum mailing cases		100
Syphilis mailing cases		209,139
Total		272,664

Table XVI

Culture Media Prepared During Fiscal Year Ending June 30, 1939

Endo agar	200,000 c. c.
Brilliant green agar	90,000 c. c.
Infusion agar	1,250 c. c.
Plain agar	154,000 c. c.
Double strength broth	680,000 c. c.
Single strength broth	1,440,000 c. c.
Infusion dextrose broth	3,750 c. c.
Infusion broth	2,500 c. c.
Sheep serum broth	1,250 c. c.
Nutrient broth	1,250 c. c.
Brilliant green lactose broth	10,000 c. c.
Brilliant green bile	350,000 c. c.
Blood serum	13,600 c. c.
Dilution water	107,500 c. c.
Total	3,055,100 c. c.

Report of the Bureau of Chemistry

For the Year Ending June 30, 1939

JOHN E. BACON, CHIEF

The Bureau of Chemistry makes chemical and bacteriological examinations of samples of foods, drugs, water, sewage and trade wastes collected by the department's representatives in the enforcement 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, Fish and Game Commission, Milk Control Board, State Institutions and State Tax Department. Analyses are also made of various samples of foods and supplies purchased under specifications for institutional use, rural school waters submitted by local boards of education, drinking water, lakes and streams from camps maintained by benevolent associations and other miscellaneous samples.

Assistance is given to local boards of health and waterworks 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.

There were 22,150 samples of foods, drugs, water, sewage and miscellaneous preparations examined during the past year, a decrease of 230 samples, 1.1 percent. There was, as usual, an increase in the work in the water and sewage laboratory nine percent, but a decrease in the food and drug laboratory of 10 percent accounted for by the inspection force submitting less samples of milk and meat products for examination.

The "completed" test for members of the coli-aerogenes group is now performed on all samples of drinking water and the "confirmed" test upon all other samples, thus standardizing the bacteriological examination in accordance with approved methods. This service was made possible by the added laboratory facilities and personnel provided with Social Security moneys.

While it is expected greater use will be made of laboratory facilities on account of field investigations of roadside stands and eating establishments along highways leading to the New York World's Fair, only a normal increase in the work of the Bureau is anticipated unless the recommendations in the report of the Sub-Committee on Sanitation of the Expanded Committee on Public Health of the State of New Jersey are adopted in part or full and necessary funds provided.

TABLE SHOWING NUMBER AND CHARACTER OF SAMPLES EXAMINED IN FOOD AND DRUG LABORATORY DURING THE FISCAL YEAR ENDING JUNE 30, 1939

	Above Standard	*Below Standard*	*Total*
Milk	5,068	49	5,117
Bacteriological milk	32	...	32
Chocolate milk	45	8	53
Cream	173	1	174
Ice cream	889	52	941
Frozen products	15	5	20
Hamburg	1,019	31	1,050
Pork sausage	181	1	182
Frankfurters	13	13	26
Tomato products	28	2	30
Eggs	6	6	12
Cheese	14	1	15
Butter	86	1	87
Fruit for arsenic spray	231	20	251
Soft drinks	138	77	215
Cranberry sauce	68	229	297
Olive oil	138	43	181
Honey	34	1	35
Water	11	1	12
Relish	18	5	23
Extract	40	6	46
Miscellaneous	36	10	46
Total food	8,283	562	8,845
Argyrol	91	27	118
Camphorated oil	115	1	116
Citrate of magnesia	92	2	94
Cod liver oil	63	2	65
Chloroform liniment	3	2	5
Hydrogen peroxide	62	3	65
Spts. of nitre	195	101	296
Tincture of iodine	83	...	83
Witch hazel	85	2	87
Miscellaneous	27	4	31
Urinalysis	121	2	123
Blood count	10	...	10
Total drugs	947	146	1,093
Total food and drugs	9,230	708	9,938

SAMPLES ANALYZED IN WATER AND SEWAGE LABORATORY FROM JULY 1, 1938, TO JUNE 30, 1939

1938	Total samples	Public water supplies	Pay samples	Camp samples	Miscellaneous samples	County and State institutions	Dairy samples	Bottled waters	School supplies	Bathing waters	Watershed samples	Stream samples	Sewage samples	Trade waste samples	Sand samples	Experimental samples	Surf samples
July	1,429	371	10	48	94	17	....	51	3	5	....	380	437	5	1	7	....
August	1,735	522	21	60	166	12	4	54	7	13	....	402	222	13	1	30	208
September	809	231	10	6	81	5	2	36	3	....	....	246	166	23	....	....	....
October	1,115	299	4	7	68	13	....	23	52	....	....	132	475	22	8	12	....
November	860	269	7	4	29	8	....	21	119	....	....	94	306	3	....	....	....
December	444	219	1	....	40	14	1	3	132	....	3	10	18	2	1	....	....
1939																	
January	885	282	7	....	62	25	5	....	152	....	8	....	43	1	....	300	....
February	1,110	224	2	....	25	41	2	....	137	....	92	4	183	....	....	400	....
March	1,219	372	4	....	213	9	5	18	43	2	25	22	180	10	....	300	....
April	629	309	3	....	50	18	....	5	15	....	90	5	2	29	3	100	....
May	1,063	381	3	6	133	16	2	36	18	....	95	61	265	27	2	18	....
June	914	378	13	25	85	10	11	13	12	6	52	50	227	16	10	6	....
	12,212	3,857	85	156	1,046	188	32	260	693	26	365	1,406	2,524	151	42	1,155	208

Report of the Bureau of Maternal and Child Health

For the Calendar Year 1938

JULIUS LEVY, M. D., CONSULTANT

MATERNAL MORTALITY

New Jersey continues to show the result of its special work in the last few years in reducing maternal mortality. The 1938 rate was the same as the 1937 rate, 3.3, which was the lowest in the history of the State. This is almost half the rate of the years previous to 1932.

Credit for this encouraging result must be given to the organized efforts of the Medical Society of New Jersey, and the active cooperation between the medical profession and this Bureau with the Medical Societies.

The proportion of maternal deaths during the first six months of pregnancy has decreased eight percent from 1937 and 11 percent from 1936.

The chief cause of maternal mortality is puerperal septicemia, followed by puerperal hemorrhage, toxemias and septic abortion.

Obstetrical Consultatives—During the year obstetrical consultatives were called in 108 instances by physicians attending women of the low-wage group at home.

Delivery Nurse Service—There is also available for the low-wage group, a delivery nurse service. Properly trained, registered, experienced nurses may be called by the doctor to assist him in home deliveries. In communities where there are visiting nurse associations, the staff nurses have been called. The qualifications of other nurses are carefuly examined by the supervisor of delivery service. Four institutes were held in different parts of the State for these nurses for specific training in obstetrical techniques.

There were 308 nurses who assisted physicians in 1,340 home deliveries.

Infant Mortality

The 1938 infant mortality rate for New Jersey is 39 per 1,000 live births. This is the same as the 1937 rate which was the lowest in the United States.

While there has been no decrease in the infant deaths under one day, it should be noted that there has been a considerable decrease in the still-birth rate. This has decreased from 42 in 1920 to 26 in 1938. This 40 percent decrease has occurred mostly since 1932.

The infant death rate under one month has decreased from 38 in 1920 to 24 in 1938, a decrease of 36 percent. This decrease has been gradual.

Of the 21 counties in the State, Cape May, with an infant mortality rate of 21, continues to have the best record, while Ocean, with a rate of 60, has the highest rate. Both of these counties are rural and single-year variations do not have much significance. Of the urban counties, Bergen, with a rate of 30, continues to be low, followed by Essex with a rate of 34 and Passaic with 35.

East Orange, with a rate of 24, continues to have the low rate among the 10 largest cities. Elizabeth, usually among the low rates, had the highest rate, 54.

Of the cities with a population between 25,000 and 50,000, Garfield had the lowest rate, 17. Perth Amboy had the highest rate in this group, 44.

Among the cities with a population between 10,000 and 25,000, Ridgefield Park had the lowest rate, eight. The highest rate in this group occurred in Hackensack, 52.

Baby Keep-well Stations

There were 181 Baby Keep-well Stations conducted by the nurses associated with the Bureau. Half these stations had physicians in attendance. These stations are conducted for mothers of the low-wage group that they may understand the proper development of their babies, the value of medical supervision and receive guidance in care, feeding and management.

Extension of Health Supervision

During 1938 there were 197 nurses under the supervision of the Bureau working in 500 communities. This was an increase of three nurses since 1937. As the nurses' salaries are assumed by the community after a period of demonstration, the salaries released can be used for new demonstrations.

During the year, nurses were placed in the following communities for the demonstration period:

Bergen County—
East Rutherford
Emerson
Woodcliff Lakes
Rochelle Park
Glen Rock

Camden County—
Lindenwold
Voorhees Twp.

Cumberland County—
Landis Twp. (third)

Middlesex County—
Monroe Twp.
Madison Twp.

Morris County—
Jefferson Twp.
Mount Arlington

Somerset County—
Hillsborough Twp.
Montgomery Twp.
Rocky Hill

Union County—
Cranford

There were 31 communities that assumed whole or part of the nurses' salary as follows:

Bergen County—
Cresskill
Moonachie
North Arlington
Montvale
Carlstadt
Lyndhurst

Camden County—
Oaklyn
West Berlin Twp.

Middlesex County—
Woodbridge
South Amboy
Sayreville
Helmetta
Jamesburg
South River
Cranbury

Salem County—
Oldsman Twp.
Lower Alloway Twp.
Mannington Twp.
Elsinboro Twp.
Quinton Twp.
Elmer
Upper Pittsgrove
Alloway Twp.

Somerset County—
Montgomery Twp.

Sussex County—
Fredon Twp.
Hamburg Twp.
Wantage Twp.
Lafayette Twp.

Warren County—
Blairstown Twp.
Hardwick Twp.
Allamuchy Twp.

Statistical Summary of the Nurses' Work

Of the 197 nurses supervised by the State Department of Health, 141 were paid entirely by the communities in which they work, 32 were paid partly by the State and partly by their communities, and 24 were paid entirely from State or Social Security funds.

These nurses had under their supervision 10,460 expectant mothers, 28,230 babies, 56,335 children between the ages of one and six, and 137,056 school children.

Visits made in the homes by the nurses		420,678
To expectant mothers	45,088	
To babies	158,511	
To children between 1 and 6	140,444	
To school children	76,635	
Visits to Baby Keep-well Stations		94,913
By babies	71,473	
By preschool children (1 to 6)	23,440	
Prenatal advice (expectant mothers) cases supervised		10,460
Total pregnancies terminated	6,499	
Attendants at births—		
Hospital	3,836	
Doctor at home	2,215	
Midwife	436	
Not specified	12	
Infant care, babies supervised		28,239
New cases	15,397	
Preschool care, children 1 to 6 supervised		56,335
New cases	16,446	
Illnesses and defects detected (not including school child)		10,490
Corrected	6,156	
Cases referred to proper authorities for care or correction		10,633
Prenatal cases	2,917	
Relief cases	2,393	
Contagious diseases (suspected)	3,075	
Tuberculosis cases (suspected)	614	
Venereal disease	123	
Unsanitary conditions	660	
Behavior problems	851	

Little Mother Leagues conducted		797
Dental clinics (nurse assisting)		1,397
Children under five years of age vaccinated		5,421
Children under five years of age immunized		7,951
School Children—		
Inspections (annual, general or assisting doctor)		921,021
Defects detected	129,701	
Corrections	56,804	
Pupils excluded by principal	18,912	
Children receiving toxoid	3,886	
Cultures taken	578	

Nutrition Classes

Co-operation with the New Jersey Extension Service in Agriculture and Home Economics has continued and lectures have again been presented by members of that staff to nurses in this Bureau. If requested, the county demonstration agents assist the nurses with particular food and budget problems.

Training of Personnel

During the year 1938, three classes of one month's duration each were held by the educational advisor in the demonstration department of the Bureau of Maternal and Child Health. The purpose of these classes was to prepare the new nurses for field work under the supervision of the Bureau. Seven of these nurses were paid and sent for preparation by municipalities that were asking for State supervision.

Affiliation of Student Nurses

Arrangements were made for affiliation of student nurses in training schools with the Bureau of Maternal and Child Health. Student nurses interested in public health work will come into the Bureau's demonstration center for one month's instruction and training in public health nursing.

Lectures have also been given to senior classes of nurses in local hospital training schools for the purpose of creating interest in public health.

Exhibits

Charts and electrified pictures indicating the work of the Bureau were shown at various places throughout the State, as follows:

Health Officers' Conference, Trenton
Women's Auxiliary of American Legion, New Brunswick
Bureau Conference at Elizabeth
Ocean County Health Department
Bergen Pines, Bergen County
Medical Society of New Jersey, Atlantic City
State Organization for Public Health Nursing, Atlantic City
Atlantic County Health Week
Health Week, Elizabeth
Parent-Teachers' Conference, Atlantic City

Midwifery

During the year 1938 there were 300 licensed, registered midwives in New Jersey. Of these, 266 were supervised by the State Department of Health and 34 were under the local supervision of Jersey City. Since 1933, there has been a decrease of 133 in the number of midwives registered.

Of the 300 registered midwives, 68 did not deliver any cases during the year and 173 delivered less than 12 cases during the year.

Investigations during the year proved that there were no unlicensed midwives practicing.

While the number of births for 1938 showed an increase of 866 over the 1937 total, the number of births delivered by midwives continued to decrease. The midwives delivered 2,117 of the total births or four percent. In 1918, the midwives delivered 30,000 or 42 percent of the total births of the State.

Counties in which midwives delivered the largest number of births were:

	Percentage
Somerset	16
Middlesex	13
Union	6
Bergen	5

Midwives delivered more than 10 percent of the births in the following cities:

	Percentage
Carteret	29
Perth Amboy	21
South River	17
Garfield	13
Elizabeth	13
Hoboken	10

During the year the eight county associations continued to hold interesting meetings. There were 68 meetings with an attendance of 843. The lectures at the meetings were given by local physicians and the supervisors gave various demonstrations and reviewed the lectures given by the doctors.

The midwives under the supervision of the Bureau referred 970 prenatals for health supervision to doctors or clinics. This number was 45 percent of the total cases delivered by them.

There were 38 special investigations, 10 for puerperal deaths, five infant deaths, 15 stillbirths and eight abnormal cases.

Complaints against three midwives were heard by the State Board of Medical Examiners. Two had their licenses revoked and one had her license suspended.

Births by Place of Occurrence

Of the 56,042 births in New Jersey, 78 percent were delivered in hospitals, 18 percent were delivered in the homes by physicians and four percent were delivered by midwives.

County	*Total Births*	*Percent delivered by physicians at home*	*Percent delivered by midwives*	*Percent delivered in hospitals*
Atlantic	1,690	31	2	67
Bergen	3,354	14	5	81
Burlington	1,244	38	3	59
Camden	3,991	25	3	72
Cape May	283	62	..	38
Cumberland	1,159	39	..	61
Essex	12,042	7	3	90
Gloucester	871	61	(.2)	39
Hudson	9,006	9	4	87
Hunterdon	268	88	(.3)	12
Mercer	3,038	24	2	74
Middlesex	2.979	24	13	63
Monmouth	2,009	19	1	80
Morris	1,431	21	2	77
Ocean	455	33	..	67
Passaic	5,200	11	3	86
Salem	588	50	(.3)	50
Somerset	809	18	16	66
Sussex	505	49	..	51
Union	4,599	12	6	82
Warren	521	56	..	44

Illegitimate Births

There were 1,455 births out of wedlock, an increase of 139 since 1937. Among these births were eight sets of twins. Fifty-three percent of the mothers were under 21 years of age. Births by residence of mother were as follows:

County	*Number Illegitimate births*	*Percent of the total Illegitimate births*	*Percent of Total Births, Illegitimate*
Atlantic	93	6.3	5.6
Bergen	59	4.0	1.1
Burlington	51	3.5	3.5
Camden	121	8.3	3.2
Cape May	14	.9	3.7
Cumberland	57	3.9	5.2
Essex	296	20.2	2.5
Gloucester	34	2.3	3.0
Hudson	166	11.3	1.8
Hunterdon	24	1.6	5.1
Mercer	79	5.3	2.8
Middlesex	65	4.1	2.1
Monmouth	60	4.0	2.8
Morris	32	2.2	1.9
Ocean	14	.9	2.7
Passaic	85	6.1	1.6
Salem	38	2.6	5.1
Somerset	17	1.1	1.5
Sussex	14	.9	2.9
Union	92	6.3	2.0
Warren	27	1.8	4.2
Out of State residents	17		

Maternity Homes

There were 25 maternity homes licensed by the Department during the year, six were new homes and 19 were renewals. Only one home was licensed for more than four patients.

Homes were conducted as follows:

4 by graduate nurses
12 by practical nurses
6 by physicians
3 by licensed midwives

The number of cases delivered in these homes for the year was 423. There were five stillbirths, two infant deaths and no maternal deaths.

Regular inspections were made of all maternity homes and any abnormal cases were carefully investigated.

Audiometer

A new audiometer purchased in 1938 has been in constant use. The audiometer is rented to boards of education at a nominal fee, with the result that it is operated and maintained at no cost to the State.

During the last three months of 1938, there were 12,564 children tested for hearing defects. There were 1,136 defects found among them. These children were referred to their family physicians. Seating arrangements in the class-room were adjusted with the result that many backward pupils showed improvement in their work.

Mental Hygiene and Parent-Child Relationships

A mental hygiene program which was incorporated into the activities of the Bureau three years ago continues its aim of helping families to better understanding and practices in the rearing of their children and in parent-child relationships.

The importance of the influence of the home and the parent-child relationship upon the formation of character and personality, and the adjustment of the individual to life is increasingly being recognized. Survey and research indicate that the pre-school years are the most important, and that emphasis must be placed on the prevention of faulty handling and poor parent-child relationships, rather than on early detection and cure, if we wish to attempt to reduce the great number of cases of behavior difficulties in children delinquencies and maladjustments in adult life.

The preventive mental hygiene program is carried out by the staff of District Supervisors and nurses. They teach the mothers of the infants, pre-school and school children, whom they visit throughout the State, about child nature and development so that they may understand, anticipate and prevent behavior problems in the important early formative years of childhood. The program is under the direction of an advisor

in mental hygiene and parent-child relationship who is continuing the instruction and training of the staff.

For the purpose of carrying out this program, the general plan is courses of study for the staff, field work, distribution of the bibliographies for reading, actual demonstration by home visits, individual interviews of staff with Advisor in Mental Hygiene, distribution to nurses and to mothers of carefully selected pamphlets for reading. There have also been organized discussion meetings and conferences of nurses and supervisors in their districts and supervisors' conferences with the Advisor in Mental Hygiene.

Courses of Study for the Nurses—A foundation course on *The Care, Understanding and Guidance of Children,* integrating the physical, mental and emotional development of the child has been given at the University of Newark and at Camden for nurses who have not already taken this course. During the past year, 35 nurses matriculated at Newark University and 46 nurses at Camden. Supervisors and nurses had taken courses for the previous three years in parent-child relationships under the auspices of the Department.

An advanced course called Mental Hygiene in Parent-child Relationships was given at Newark with the sponsorship of the University of Newark and at Camden under the sponsorship of New York University, for nurses who had completed the basic courses and desired further instruction in this field of work.

It is encouraging to find so great an interest in this new aspect of their work, and so great a realization of its importance on the part of the nurses that of the 210 nurses supervised by this Bureau, only eight have not taken these courses.

The courses of 30 hours each semester, for which those eligible receive college credits, include assigned reading, the preparation of written material, and field trips to nursery schools, children's courts, and staff meetings of mental hygiene clinics.

During the past year a course called *Racial Contributions to American Culture* was taken at New York University by the supervisors and selected nurses of the Department.

An understanding of preventive mental hygiene has been included in the instruction of new nurses in the demonstration district.

Discussion Meetings and Bibliography—Nurses who have completed formal college courses have been organized into discussion groups of from five to 10 members according to localities in which they work. They meet once a week to read and discuss books in the field of child development or parent-child relationships. A competent discussion leader chosen from among their own personnel acts as chairman of these meetings. At the present time, 25 reading and discussion groups are in existence.

Through the cooperation and help of the Bureau a large proportion of our nurses have purchased books on parent-child relationships and subscribed to the magazine published by the Child Study Association of America.

Conferences—Nine conferences of assistant supervisors and district supervisors with the Advisor in Parent-child Relationships were held in 1938. At these sessions there has been discussion of the assigned reading in the mental hygiene field, consideration of supervisor's instruction in and control of mental hygiene work of nurses, and the study of the practical application of mental hygiene principles.

Pamphlets—During the year, pamphlet material, available at the present time and published by mental hygiene organizations and child research centers of universities throughout the United States, was examined.

From the mass of pamphlets read, 20 additional pamphlets were selected and ordered for future distribution to our nurses. The sources of these pamphlets were the National Committee for Mental Hygiene, the Iowa Child Welfare Research Division of the University of Iowa, the Institute of Child Welfare of the University of California, the New York State College of Home Economics of Cornell University and the Child Study Association of America. With the monthly distribution of these pamphlets to our nurses goes instructions for proper study, so that the nurses may make application of what they learn to their work. The district supervisors hold monthly conferences with their nurses for discussion of pamphlet material.

Actual Demonstration by Home Visits—Practical demonstrations, in actual home situations, of the theory and subject-matter studied and read have been given the nurses. After a nurse finishes a course of study, the supervisor in parent-child relationships spends a day or two with the nurse visiting homes in her district for purposes of observation, demonstration and instruction. Visits were made with 74 nurses during the past year.

Revised Manual—The manual entitled *Suggestions to Nurses Correlating Important Phases in Physical, Mental and Emotional Development of the Pre-school Child,* compiled originally by the first Assistant Supervisor of Nurses and the Advisor in Parent-child Relationships, was revised to meet more adequately the needs of the nurses. It has been distributed to all the nurses, who are using it for reference, for further study and for their visits to mothers.

Personnel—In addition to the direct introduction of preventive mental hygiene and parent-child relationships material into the work of the nurses with the mothers, further effective results of this new addition to the work of the Bureau have been realized. The general program of child hygiene teaching is helped when nurses gain a better understanding of mothers' emotional life, attitudes and behavior, and fashion their guidance to meet particular situations and needs in the homes they visit.

Furthermore, nurses have been gaining insight into their own attitudes, prejudices and emotional reactions, and the influence of these on the effectiveness of their work. Nurses have also been influenced in their personal lives and helped to understand and solve difficulties by understanding gained in the courses taken, the reading and discussion, and by consultation with the advisor.

Advisory Committee on Mental Hygiene—An advisory committee for consultation and advice on the mental hygiene activities of the Bureau began to function during the year. The committee is composed of Dr. Joseph E. Raycroft, Director of Mental Hygiene of the Department of Institutions and Agencies; Dr. George S. Stevenson, Director of the National Committee for Mental Hygiene; Professor Frederick J. Gaudet, Head of the Department of Psychology of the University of Newark; Dr. Lewis Henry Loeser, psychiatrist; and Dr. James S. Plant, Director of Essex County Juvenile Clinic.

Cooperation—Although the incorporation of preventive mental hygiene activities, as a part of the work of a child health nurse is still in an experimental stage, it is encouraging to know that this program is receiving

encouragement and recognition by health departments and psychiatrists throughout the country. Requests for information about our work and for copies of the Manual, the Syllabus of Study we have arranged for our nurses, and our Bibliography are frequently being received. An account of the work has appeared in the January 1939 issue of the Quarterly published by the National Committee for Mental Hygiene.

Report of the Division of Venereal Disease Control

For the Year Ending June 30, 1939

KARL M. SCOTT, M. D., CHIEF (ACTING)

During the year 1938-39 the Division of Venereal Disease Control, feeling that the foundation of its program had been well laid in the previous years, continued its activities along the same general lines.

Two new features of venereal disease control made their appearance during the year. These were the Premarital and the Prenatal Examination Laws.

PREMARITAL EXAMINATION LAW

The New Jersey law requiring blood tests and physical examinations for syphilis before marriage became effective July 1, 1938. In order to determine how well this law is being observed and how effective it is in finding syphilis cases and in preventing the marriage of infected persons "in a stage which may become communicable," frequent check-ups have been made with the Bureau of Vital Statistics, physicians, local registrars, laboratories, and health officials. After the law had been in effect for six months a detailed report was presented at the Annual Conference of State and Local Health Officials, February 17, 1939. This appeared in the April issue of "Public Health News" (official publication of this Department). Revised and extended to nine months, this report was printed in the May, 1939, issue of "The Journal of Social Hygiene." Salient points covering the full year are summarized below:

Decrease in Marriages in the State. While there was a reduction in the number of marriages performed in New Jersey after this law became effective, no one can tell how much of this decrease is due to the marriage law and how much to economic conditions. Decreases were much smaller in the later months of the year.

	Decrease
From previous year (July 1937—June 1938)	8,190—22%
From average of three previous years (July 1935—June 1938)	4,563—14%

Whites and Negroes. More complete data are available on the relative proportions of syphilis among white persons and negroes from the premarital tests than from any other source. The ratio of whites and negroes showing positive tests is shown in the following table which includes 80 percent of all premarital blood tests made in the State and from which all duplicate tests have been eliminated.

WHITE AND NEGRO PRE-MARITAL BLOOD TESTS FOR SYPHILIS
FOR THE FISCAL YEAR JULY 1, 1938—JUNE 30, 1939

Laboratory		*Percent of persons tested who were positive*	
		Whites	*Negroes*
State	(year)	0.47	10.0
Hudson County	(year)	0.74	15.4
Newark City Hospital	(6 mos.)	1.00	13.3
Camden Health Department	(6 mos.)	1.07	5.9
Totals for 47,921 tests		0.60	11.0

The total number of pre-marital blood tests made in all laboratories was 62,764 of which 847 or 1.35 percent were positive. A deduction of 10 percent in this number of positives should be made because of duplicate tests.

A questionnaire was sent to physicians to learn what happened to marriage applicants whose blood tests were positive. The following tables summarize 206 answers to these questionnaires.

WHAT HAPPENED TO 206 MARRIAGE APPLICANTS WITH
POSITIVE BLOOD TESTS FOR SYPHILIS

Marriage certificates granted, case being regarded as non-communicable	93	45 percent
Marriage certificates refused	113	55 percent
	206	100 percent

Did not get married	71	63 percent
Married out of state	18	16 percent
Results not known	24	21 percent
Total	113	100 percent

TREATMENT OF 206 MARRIAGE APPLICANTS THREE MONTHS
AFTER POSITIVE BLOOD TEST FOR SYPHILIS

Persons under treatment	113	55 percent
Persons not under treatment	34	16 percent
Persons disappeared	59	29 percent
	206	100 percent

Of those reported as failing to take treatment in the above table, slightly more than half have been located and placed under treatment.

SUMMARY

With very few exceptions, one or two a month, the marriage records now reach the State Bureau of Vital Statistics accompanied by the laboratory's and physician's certificates properly made out.

The drop in marriages in the State from the previous year ran up to 37 percent a few months after the law went into effect, but the average monthly decrease for the second half of the year was 14.5 percent.

Laboratory reports indicate that some 760 persons have been found to have syphilis by this premarital procedure, many of whom, it appears, had no previous knowledge of their infection.

Most of the tests are made free at public laboratories.

Positive tests are equally divided between men and women.

From a check of more than 80 percent of the tests, it appears that syphilis is almost 20 times as prevalent among young adult negroes as among whites.

Physicians are ready and willing to tell the State Health Department confidentially what has been happening to the persons who have positive premarital tests.

Cooperation can be secured from physicians and health officials in following up most of the delinquents.

Physicians and registrars questioned and the reactions of the public and press indicate that the law is well received, has valuable educational features, and is a sound procedure in public health.

Excellent cooperation is being received from the laboratories of Hudson County, Newark City Hospital, and Camden, whereby it is possible to collect many additional facts and figures on this subject.

Prenatal Law

The law requiring physicians and midwives to secure blood tests for syphilis on pregnant women under their care went into effect January 1, 1939.

It is difficult to determine with any high degree of accuracy how well this law is being observed, for two reasons:

1. There is no requirement that physicians indicate which blood samples sent to laboratories are from prenatal cases.

2. Birth certificates are not yet all being marked with a statement of whether or not the test was made and, if so, the date, as specified by the law.

Most of the laboratories approved for blood tests for syphilis have reported as well as they can the numbers of prenatal tests which they have made during the first six months of the law:

58 laboratories—19,752 prenatal tests—272 positives—1.37 percent.

There is no accurate way of separating the tests of negroes from those of the whites, but what evidence we have indicates relative percentages of positives as 6.0 percent and 0.4 percent, respectively.

Of the 4,916 birth certificates filed for the month of March, 1939, only 56 percent indicate whether or not prenatal tests had been made. In May, birth certificates giving records of blood tests had increased to 69 percent. There is a wide range of completeness in reporting, all the way from none in some districts to 100 percent in others.

From this collection of information for May births, the time in pregnancy when 3,232 blood tests were made is indicated below:

	Percent
Tests prior to fifth month of pregnancy	20
Tests in fifth month	17
Tests in sixth month	14
Tests in seventh month	13
Tests in eighth month	8
Tests in ninth month	20
Month not stated	8

Among the 143 stillbirths, only 36 percent of the women were reported as having been tested during pregnancy.

A more complete report on the workings of this law will be available next year.

The Epidemiologic and Follow-up Program

An epidemiologic approach to the control of syphilis and gonorrhea has long been accepted in this State as an important part of the program. This year attempts have been made, as enumerated in the following paragraphs, to increase knowledge and improve esprit de corps among workers employed in venereal disease case-finding and case-holding programs throughout the State. Two meetings were held during the year, one at Elizabeth which was attended by 25 workers giving all or most of their time to venereal disease work. A representative of the New York City Bureau of Social Hygiene attended this meeting and discussed the case work program of New York City. Informal discussion followed of methods used and results obtained in tracing contacts by workers in various parts of the State.

The second meeting was held in Trenton. Twenty workers attended and heard brief reports from members of the staff of the State Division of Venereal Disease Control about the State program, the efforts being made to standardize blood tests, the testing of migrant workers in the potato growing sections of the State, and the results of the new prenatal and premarital laws. Miss Mary D. Forbes of the U. S. Public Health Service attended this meeting. These meetings have been valuable in giving the workers an opportunity to know each other and exchange experiences.

Three regional symposiums were held during the year in Vineland, Metuchen and Newark, to which were invited all public health nurses, social workers, health officers, and clinic physicians. At each of these symposiums the morning session was devoted to formal lectures on medical phases of syphilis control and case work techniques. The afternoon session was an informal discussion of actual cases taken from the records of a syphilis clinic, with an attempt to evaluate what had been accomplished for the patient and the community. These symposiums were attended by 250 persons, most of them public health nurses who at least occasionally have to deal with the problems of the syphilitic patient or contact.

At the annual meeting of the New Jersey Health and Sanitary Association in Asbury Park, November, 1938, a group of five public health nurses, working in venereal disease clinics in New Jersey, carried on a

round-table discussion of case material under the leadership of the social worker at the syphilis clinic of the Hospital of the University of Pennsylvania. Discussions centered around means of gaining the cooperation of the patient or alleged contact and advantages to be derived, as compared to the use of coercive measures. The discussions were published in full in the Public Health News*. This round-table discussion was attended by many health officers and others engaged in public health work in New Jersey.

This year the policy has been continued of providing scholarships for nurses to the three-months' course in applied epidemiology at the Institute for the Control of Syphilis, University of Pennsylvania. One public health nurse employed by the State Department of Health, one employed by a local health department, and two working with local public health nursing organizations were sent this year, making a total of 13 public health nurses employed in this State who have had the advantage of the course. It is felt that this group is an important nucleus around which to develop a more effective case-finding and case-holding program.

The five nurses previously employed by the Division of Venereal Disease Control to strengthen the epidemiologic program, have been continued. Four have continued in demonstrations undertaken previously, with headquarters at Passaic, Hackensack, Camden and Weehawken. A new demonstration was undertaken this year in Morris County, with the workers' headquarters at the district health office in Dover. Through gaining the cooperation of patients, these workers have located 300 infected contacts and arranged for treatment. Irregularity in treatment, mostly among clinic patients, has been investigated in more than 1,500 instances by these workers, and through letters and home visits the importance of regular treatment has been explained to the patient who has voluntarily resumed his treatment with his physician or at the clinic. Help has been given in occasional cases requiring institutional care. In addition, these nurses participated with health officers, physicians, city officials, and civic leaders in promoting community education, group testing plans, and other activities.

The Division appreciates the cooperation of other workers who, although not employed by the Division have cooperated by sending monthly

* December, 1938, and February, 1939.

reports of results obtained in contact tracing and case holding, and assisted in other ways. Acknowledgment is also made of the valuable assistance of Miss Jane Cook, for many years medical social worker of the Orange Venereal Disease Clinic, and during the past year chairman of the social hygiene committee of the State Organization for Public Health Nursing, who has given generously of her time and knowledge in developing the program in New Jersey.

Two members of the staff of the Division of Venereal Disease Control served on the social hygiene committee of the State Organization for Public Health Nursing, and one member of the staff served on the sex education committee of the New Jersey Social Hygiene Society.

Follow up by mail to all physicians reporting cases of early syphilis continues to bring excellent response from the physicians. A summary of this particular activity follows:

A Study of All Cases of Primary and Secondary Syphilis Reported as Under Private Treatment During Twelve Months, March, 1938 to February, 1939

Results of a questionnaire sent to physicians three months, on an average, after the original report of each case.

Total cases (309 primary; 707 secondary)	1,016	
Total physicians	402	
Questionnaires answered	987	97 percent
Physicians who answered	387	96 percent

		Percent
* Cases still under treatment by doctor (after 3 mos.)	587	58
† Referred to other doctor or clinic	119	12
Report changed—not early case	34	3
Delinquent (See results of follow-up below)	223	22
Moved away	13	1
Committed to institutions	5	
Died	4	1
Cured	2	
Physician failed to return questionnaire	29	3
Total	1,016	100

* Physicians are being requested for information relative to these 587 cases *one year* after original reports.

† Check up with clinics indicated that of 33 patients referred, 21 were actually being treated.

Results of follow-up by local Boards of Health of ‡223 patients reported as delinquent on questionnaire.

		Percent
Patients returned (or promised to return) to physician	78	35
Patients referred to clinics	38	17
Patients moved away or could not be located	74	33
Cases pending (June 12, 1939)	33	15
Total	223	100

‡ Annual report for 1937 states that only 29 delinquents were reported to the Division from all sources.

Educational

The policy of this Division to make available authentic information on the venereal diseases and social hygiene has been continued. Special efforts in acquainting the public with the reasons for the recently enacted premarital and prenatal laws have evidently been helpful in getting these laws to run smoothly. Leaflets, made up of questions and answers about each law, have been distributed in large quantities to physicians, registrars of vital statistics, health officials, and others. These leaflets have been given away at local meetings of various kinds and have been reproduced in full by some newspapers.

New publications of the Division during the year were: *Plain Facts,* numbers 7, 8 and 9, newsy bulletins about the many phases of the venereal disease campaign; *The Dentist and Syphilis* (reprint) by M. J. Exner, M. D.; *Syphilitic Scars of the Spirit* (reprint) by Austin W. Cheever, M. D. Numerous other booklets have been purchased from various sources. Several new ones on the subject of industry and syphilis are being used in our attempts to interest employers in offering free blood tests to workers.

New posters and improved exhibit material were designed and made during the year. Motion pictures continue to be in demand and were shown at many meetings. Cooperation from the press has been good throughout the year, as shown by our clipping service.

In addition to the two regular lecturers, Elizabeth Ford Love, M. D., was employed on a per meeting basis and gave talks on "Sex Education in the Home" before parent-teachers associations, women's clubs, and a few groups of high school girls. Table of lectures given by all employees in the Division and the attendance follows:

Name of Group	*Number Meetings*	*Attendance*
Parent-Teacher associations	96	4,650
Children of high school age	65	9,037
Civilian Conservation Corps	57	24,923
Rotary clubs	17	452
Women's clubs	16	675
Lion's clubs	13	355
Men's clubs	11	816
Kiwanis clubs	8	283
Nurses	7	515
Community meetings	3	495
Medical societies	2	50
Political clubs	1	175
Miscellaneous	24	2,525
	320	44,951

Below is a recapitulation of the number of meetings at which lectures were given, the total attendance, and the pamphlets distributed for each year since 1935:

	Number of Meetings	*Attendance*	*Pamphlets Distributed*
1935	408	61,175	33,527
1936	353	43,841	18,438
1937	365	43,433	61,615
1938	423	45,500	134,527
1939	320	44,951	123,776
	1,869	238,900	371,883

Social Hygiene Day was observed again this year being promoted to a great extent by the American and New Jersey Social Hygiene Associations. This Department was one of the sponsors and took an active part in a very successful State-wide meeting on the general subject of Social Hygiene in Newark on April 27. More than 400 persons attended.

Data to Physicians

A systematic plan to provide physicians of the State with up-to-date facts on syphilis and gonorrhea was put into effect during the year. There were 472 subscriptions to "Venereal Disease Information" (U. S. Public Health Service) given to a selected group. Copies of suggestions about the interpretation of laboratory reports on premarital and prenatal blood tests were sent by mail to all registered physicians in the State. The three booklets from the U. S. Public Health Service, listed below, were also widely distributed:

"Diagnosis of Syphilis by the General Practitioner"
"Management of Syphilis in General Practice"
"Gonococcus and Gonococcal Infections"

Two courses of one day a week for six weeks, were offered to New Jersey physicians; one in Philadelphia in charge of Dr. John H. Stokes; the other at Orange Memorial Hospital carried on under the supervision of the late Robert R. Sellers, M. D. The total registration was 42.

Group Testing

In January, 1939, a plan was launched to encourage the blood testing of large groups of employed persons. This plan was evolved in joint discussion with the venereal disease committees of the New Jersey Health Officers Association, the State Medical Society, and the President of the New Jersey Society of Clinical Pathologists.

Fundamentally this plan was based upon the desire to use all existing laboratory facilities in the State for the wide-spread testing for syphilis in large groups. The New Jersey Society of Clinical Pathologists with a membership of 43 are the only organized group of laboratory chiefs in the State and therefor the logical group to approach. They offered a fee schedule ranging from $0.50 to $1.00 per test depending upon the number of tests to be done for each employer.

This plan and fee schedule were then sent to health officers in industrial communities, with a request for their cooperation in presenting the plan to employers and their assistance in dealing with the positive cases that might be found by this method.

In April a physician was engaged on a part time basis and, in addition to services for Bureau of Local Health Administration, has presented this plan to the management of certain industries in northern New Jersey.

To date the cost to the companies of having the tests made outside the State Laboratory seems to be the stumbling block.

Independently of this plan the physicians in many plants have added the blood test for syphilis to their examination for employment and to their annual physical examination, most of the tests being made in the State Laboratory. New employees, if found to be infected, are often rejected for employment, but if old employees prove to be infected they are usually retained conditional to their placing themselves under treatment.

Information furnished us from such plants is as follows:

No. Examined	*No. Positive*	*Percentage positive*
15,410	257	1.7

A large company, who do their own tests, report the following for their seven New Jersey plants:

No. Examined	*No. Positive*	*Percentage positive*
14,151	564	4.0

C. C. C.

The Division's activities in the Civilian Conservation Corps have continued. Fifty-seven talks were given, with a total attendance of 24,923. Included in this number were some 12,000 enrollees who were sent from Fort Dix to many of the western camps. Preventive measures have been stressed and cooperation has been given by the enrollees in volunteering to submit to blood tests.

New cases of venereal disease found in the C. C. C. camps in New Jersey are immediately reported to the Division, and the patient interviewed as soon as he reaches the army hospital which, in about 60 percent of cases, results in tracing the source. As soon as the patient is able to be discharged from the hospital the Division is notified, and a notification is immediately sent to the health officer in the town in which the patient resides.

During the year the Division has been successful in obtaining the consent of the War Department to examine the blood of each and every enrollee for evidence of latent syphilis, and having such persons treated without being discharged. This work has been continued from last year among the camps of the State of New Jersey, where there are approximately 9,000 young men between the ages of 18 and 25. With a new enrollment occurring every three months this means the examination of about 12,000 young men and free treatment for all who are found syphilitic. Drugs are furnished by the State Department of Health, and the treatment given at any one of the army hospitals located in the State.

Increase in Clinic Facilities for the Year 1938-39

New clinics were established in cooperation with local boards of health in Boonton, Dover, Madison in Morris County; Point Pleasant Beach, Ocean County; and three in Roselle (physicians' offices); and one in Nutley. A special clinic was established at Shell Pile near Port Norris, because examination of about 500 colored workers showed that over 100 of them had syphilis. This special clinic has been operating three times weekly, and is planned to continue this way till 40 treatments have been administered to these patients. After their completion of this course of treatment, it will be considered that they have been rendered permanently noninfectious (Cooperative Clinical Group recommendation to the Surgeon General of the U. S. P. H. S.). This special clinic was largely supported by State funds as such large number of patients in such a small community made the cost of treatment too great for local funds to participate up to 50 percent of the cost as is being done elsewhere.

Because of an increase in the clinic load, the clinics at Bordentown, Burlington and Moorestown, Woodbury, Vineland, Weehawken, and Dover, extended their clinic hours since January 1, 1939.

In addition, the boards of health of Paterson, Plainfield, Summit and Salem County, and Mays Landing (other local boards cooperating) wishing to increase their medical personnel and extend their clinic hours and facilities, asked for the Department's financial aid. This was granted. These various factors doubled the State outlay for the payment of clinic physicians during the last half of the year.

Free Drugs

Drugs and clinic supplies to the amount of $25,500.00 were purchased during the year. Nearly all the clinics in the State were supplied in part or wholly by the Department.

A steadily increasing demand for free drugs to be used for their low fee patients has been presented by the physicians of New Jersey. To illustrate, in June, 1938, anti-syphilitic drugs and their adjuncts, sufficient to provide 5,242 individual doses, were sent to physicians, and in June, 1939, 9,150 doses were sent. This is an increase of nearly 80 percent in demand.

The employment of an assistant physician from July 1, 1938 gave the Division an opportunity to keep in closer touch with the problems of various clinics operating in the State, all of whom were visited by this physician several times throughout the year. By this method it is hoped to gradually improve clinic standards and to coordinate the administration of venereal disease control with the essential treatment of venereal disease patients without which control is not obtainable.

Improvements in Diagnosis

During the year there were loaned to six clinics complete darkfield outfits for the diagnosis of early syphilis. This is in line with the general policy of the U. S. Public Health Service that eventually each syphilis clinic should have available such a microscope.

Further effort was given toward the standardization of serological tests for syphilis. There is considerable variability in the technique employed, sensitivity of antigens, and also the method of reporting results of the test. This results in considerable confusion to the practicing physician, as in probably 50 percent of all cases of syphilis the diagnosis must be made on the basis of blood findings alone in the absence of clinical history or physical signs of infection.

Preliminary research for two years in cooperation with E. W. Flosdorf and S. Mudd at the University of Pennsylvania showed the practicability of preserving dried standardized syphilitic serum without loss of titer for periods as long as three months. The supplying of a uniform standardized positive serum and doubtful serum makes it possible for

the various laboratories to check their own sensitivity and to produce uniform results on other serums routinely examined. To carry out this work of the improvement of tests for syphilis in New Jersey, a full time technician was engaged and the necessary equipment for drying, testing, and ampuling serum was provided in space available for this purpose at the Camden Municipal Hospital.

Dried standardized serum has been sent out to all serologic laboratories at intervals of three months or less. With one recent lot of serums labelled with the titer, an offer of assistance was enclosed in case any laboratory had difficulty in getting early identical results. Few laboratories apparently wished to be the first to request such assistance although with the first standardized positive serum distributed 23 percent of the laboratories reported negative tests to this positive serum.

Technical details of this work may be found in Supplement No. 9 to Venereal Disease Information, a publication of the United States Public Health Service.

It is hoped that in the year 1939 the New Jersey State Medical Society will officially recommend a standard for positivity in cooperation with the New Jersey Society of Clinical Pathologists and other laboratory workers. The adoption of a standard would encourage uniformity in over a hundred laboratories doing serologic tests for syphilis in New Jersey.

The table below gives the reported cases of venereal disease in New Jersey by county, disease and sex for the calendar year of 1938, together with the annual rate per thousand:

County	Gonorrhea M	Gonorrhea F	Syphilis M	Syphilis F	Chancroid M	Chancroid F	Total	Population	Rate per M
Atlantic	106	23	264	307	3	0	703	142,700	4.95
Bergen	93	25	189	207	8	3	525	432,200	1.21
Burlington	120	13	77	110	2	1	323	98,700	3.28
Camden	191	43	323	318	2	1	878	279,300	3.14
Cape May	33	5	61	47	0	0	146	33,900	4.31
Cumberland	58	6	128	133	0	0	325	73,600	4.42
Essex	772	447	2,121	2,220	23	5	5,588	912,600	6.12
Gloucester	29	4	70	86	0	0	189	80,700	2.34
Hudson	159	16	326	294	2	0	797	717,600	1.11
Hunterdon	17	6	28	59	0	0	110	35,500	3.10
Mercer	161	47	309	279	3	0	799	199,000	4.00
Middlesex	70	20	204	143	1	0	438	234,000	1.88
Monmouth	126	25	447	467	0	1	1,066	165,600	6.45
Morris	43	21	108	73	1	0	246	122,500	2.01
Ocean	36	4	65	42	4	1	152	37,800	4.02
Passaic	113	21	270	250	0	0	654	320,900	2.04
Salem	59	11	54	39	0	0	163	37,000	4.40
Somerset	21	5	51	26	0	0	103	72,600	1.42
Sussex	16	3	7	7	1	0	34	29,100	1.17
Union	157	92	352	349	4	0	954	351,000	2.72
Warren	3	1	19	15	0	1	39	51,200	0.76
Total	2,383	838	5,473	5,471	54	13	14,232	4,427,000	3.22

For purposes of comparison the total number of cases of gonorrhea, syphilis and chancroid reported for the calendar years of 1936, 1937 and 1938 are here reproduced.

	Gonorrhea	Percent of Total	Syphilis	Percent of Total	Chancroid	Percent of Total	Total
1936	2,996	31.4	6,504	68.0	61	0.6	9,561
1937	3,333	28.5	8,282	71.0	58	0.5	11,673
1938	3,221	22.6	10,944	76.9	67	0.5	14,232

The greatest change is in the reported cases of syphilis, which showed an increase of 2,662 over the previous year.

NEW CLINIC PATIENTS FOR FISCAL YEARS 1937, 1938 AND 1939

	1937	1938	1939
Syphilis	3,891	5,025	5,445
Gonorrhea	2,176	1,741	1,600
	6,067	6,766	7,045

From the above table it will be seen that the total number of new clinic patients for 1939 was 7,045, as against the grand total of 14,232 reported cases. This indicates a definite increase in the reporting by physicians of their private cases, the division between clinic and private patients for this year being practically equal.

CLASSIFICATION OF SOURCES OF INFECTION REPORTED BY PHYSICIANS

	1937	1938	1939
Professional prostitutes and brothels	39	36	32
Clandestine prostitutes	169	216	180
Husband or wife	165	204	154
Congenital	252	248	244
Miscellaneous	2	1	0
Total	627	705	610

Reporting of sources of infection by physicians continues to be disappointing. Reluctance on the part of the patient to inform, and very frequently inability to furnish correct names and addresses, are big factors. Special investigation of sources of infection and sex contacts is made by venereal disease case investigators when such information can be obtained from new patients attending the clinics to which they are attached. This activity by the five investigators employed by the Department resulted in the finding of 300 additional infected individuals and their being placed under treatment. No complete figures of this kind are available from the activities of other investigators employed by local boards of health, but it would seem that additional trained investigators —whether employed by the State or local boards—until such service is available to all clinics and practicing physicians is a necessary development in venereal disease control.

Report of the Bureau of Vital Statistics

For the Calendar Year 1938

DAVID S. SOUTH, STATE REGISTRAR

The Bureau, which was established by law in 1878, has the custody of more than seven million records of births, marriages and deaths which date back to 1848. Some of the records are filed in drawers in metal cabinets, the remainder are bound in volumes. As there are 5,890 books of records and the number increases annually, the cost of repair is an important item.

During 1938, 22,046 searches of the records were made and copies of the records found were issued, for which $11,282.50 were received and paid to the State Treasurer. More than 9,500 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 purposes 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 1938, 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 previous years. The annual growth of the records requires approximately 200 cubic feet of storage space. More than 28,000 premarital certificate forms were received and examined, a new duty placed upon the Bureau at the adoption of the law requiring an examination for syphilis prior to the issuance of a marriage license.

On October 31, 1935, the double indexing of old birth records was started as a W. P. A. project. The workers have completed indexing

the records for the periods May 1, 1848, to May 31, 1878; June 1, 1878 to June 30, 1890, and are now working upon the records for the period July 1, 1890, to December 31, 1900. Starting with 1901 the original records are in alphabetical arrangement and are partially cross indexed both alphabetically and chronologically by cities and counties. If personnel is available when the birth indexes are completed, it is hoped to index the 1878-1900 marriage records, both by husbands' and wives' names. The records prior to 1900 are in extensive use for old age pension purposes, as, when the birth record of an applicant is not available, the age given upon a marriage record or certificate of birth of a child is accepted.

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	1938
Births registered, tabulated and indexed	76,431	68,282	56,602
Marriages registered, tabulated and indexed	31,327	28,499	31,006
Deaths registered, tabulated and indexed	40,820	43,190	44,045
Stillbirths registered, tabulated and indexed	3,221	2,647	1,704
Total records registered, tabulated and permanently filed	151,799	142,618	133,357
Searches made and certified copies issued for which fees were received	4,664	10,523	12,296
Certified copies issued and searches made in pension and other cases for which no fees were received	4,232	6,938	9,750
Fees returned to State Treasurer for searches and certified copies	$4,051	$9,601	$11,282

CHARTS AND TABLES, 1938

Table 1. Births, marriages, deaths and rates, 1879-1938.

Table 1a. Births, marriages and deaths by months.

Table 1b. Births, marriages, deaths and deaths under one year of age by counties, cities, boroughs and townships.

Table 2. Deaths by age groups, with the percentage of each group of total deaths: 1938.

Chart 1. Births and deaths per 100,000 population, 1880-1934.

Table 3. Deaths of infants under five years of age and percentage of total deaths, 1904-1938.

Table 4. Number of births, stillbirths, deaths under one month, deaths under one year and maternal deaths with rates per 1,000 live births, 1906-1938.

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 2. Deaths from typhoid fever per 100,000 population, 1880-1934.

Table 8. Comparison between typhoid fever death rates in New Jersey and the United States Registration Area, 1929-1938.

Table 9. Typhoid fever in urban and rural areas.

Table 10. Typhoid fever rates by counties, 1929-1938.

Chart 3. Deaths from measles per 100,000 population, 1880-1934.

Chart 4. Deaths from scarlet fever per 100,000 population, 1880-1934.

Chart 5. Deaths from whooping cough per 100,000 population, 1880-1934.

Chart 6. Deaths from diphtheria per 100,000 population, 1880-1934.

Table 11. Average annual death rates from all causes and from tuberculosis of lungs, by counties for 60 years, with rates for 1938.

Chart 7. Deaths from respiratory tuberculosis per 100,000 population, 1880-1934.

Table 12. Cancer and other malignant tumors by sex, age periods and organs affected.

Chart 8. Deaths from cancer and other malignant tumors per 100,000 population, 1880-1934.

Table 13. Suicide by sex, age periods and means employed.

Table 14. Percentage of the various causes of total deaths and of 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 stillbirths) 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 (adjusted for residence) 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
Garfield
Hackensack
Rutherford

Burlington County—
Burlington City

Camden County—
Camden City
Gloucester

Cape May County—

Cumberland County—
Bridgeton
Millville

Essex County—
Belleville
Bloomfield
East Orange
Irvington
Montclair
Newark
Nutley

Essex County (con.)—
Orange
South Orange
West Orange

Gloucester County—

Hudson County—
Bayonne
Harrison
Hoboken
Jersey City
Kearny
Union City
West New York

Hunterdon County—

Mercer County—
Trenton

Middlesex County—
New Brunswick
Perth Amboy

Monmouth County—
Asbury Park
Long Branch
Red Bank

Morris County—
Dover
Morristown

Ocean County—

Passaic County—
Clifton
Passaic City
Paterson

Salem County—

Somerset County—

Sussex County—

Union County—
Elizabeth
Linden
Plainfield
Rahway
Summit
Westfield

Warren County—
Phillipsburg

Population—The estimated midyear population of the State for 1938 was 4,427,000. Due to a lower rate of population increase it was found necessary a few years ago, to abandon the arithmetical method of computing estimates of population and to use the United States Bureau of the Census estimates which recently were based upon reported births and deaths, net immigration (or emigration) and school censuses, etc. The Bureau did not prepare estimates for 1938 due to the nearness of the Federal census of 1940 and the unreliability of any estimates compiled at this time. The estimates prepared by this Bureau and published in this report may be found largely in error when the results of the next

census are available. The estimated population of the counties and incorporated municipalities of the State which had 10,000 or more inhabitants in 1930 appears at the foot of the mortality tables for the places.

Births—The number of births for 1938 was 56,602 which was equivalent to a rate of 12.7 per 1,000 population. Total births reported showed an increase of 1,405 over the number for the previous year. The year 1935 showed the first increase in the number of births reported since 1927 when there were 72,799 births in the State.

The number of illegitimate births reported for 1938 was 1,457 of which 602 were babies born to colored mothers. The figures for 1937 were 1,325 and 516 respectively.

Marriages—The number of marriages reported for 1938 was 31,006, a decrease of 5,184 from the number for the previous year. The marriage rate was 7.0 compared with 8.3 for 1937 and 7.5 for 1936. The 1938 figures reflect the effect of the premarital examination law which became effective on July 1 of that year. It is felt that the marriage rate for New Jersey will continue below normal until a similar law is enacted by the Legislatures of all adjacent States.

Deaths—The number of resident deaths for 1938 was 44,045. The death rate for the year, 9.9 was the lowest death rate since the Department of Health was established 60 years ago.

Stillbirths—The number of stillbirths reported for 1938 was 1,704. The number for the previous year was 1,731. The 1938 rate was 30.0 per 1,000 live births. The rate for the colored population was 51.1

TABLE 1—POPULATION; BIRTHS, MARRIAGES AND DEATHS REPORTED WITH RATES PER 1,000 POPULATION

YEAR	Estimated Population	BIRTHS		MARRIAGES		DEATHS	
		Number of births reported	Birth rate per 1,000 population	Number of marriages	Marriage rate per 1,000 population	Number of deaths	Death rate per 1,000 population
1879	1,110,489	23,116	20.8	7,096	6.3	20,440	18.4
1880	1,133,731	23,650	20.8	7,963	7.0	18,967	16.7
1881	1,165,112	23,484	20.1	8,109	6.9	20,312	17.8
1882	1,196,493	23,108	19.3	8,837	7.3	25,959	21.6
1883	1,227,874	24,430	19.8	9,166	7.4	23,310	18.9
1884	1,259,256	25,263	20.0	8,968	7.1	21,716	17.2
1885	1,290,638	24,077	18.6	8,989	6.9	23,807	18.4
1886	1,322,020	25,497	19.2	12,351	9.3	22,734	17.1
1887	1,353,402	27,340	20.2	15,416	11.3	24,331	17.9
1888	1,384,784	28,074	20.2	16,025	11.5	27,173	19.6
1889	1,416,166	29,099	20.5	15,726	11.1	26,543	18.7
1890	1,448,589	30,103	20.7	15,564	10.7	28,530	19.6
1891	1,492,462	28,882	19.3	15,305	10.2	28,840	19.3
1892	1,536,336	30,627	19.9	16,082	10.4	32,635	21.2
1893	1,580,209	32,285	20.4	17,178	10.8	30,596	19.3
1894	1,624,083	33,662	20.7	16,245	10.0	30,004	18.4
1895	1,667,957	31,742	19.0	15,878	9.5	30,634	18.3
1896	1,711,831	31,207	18.2	18,370	10.7	30,767	17.9
1897	1,755,705	31,595	17.9	18,171	10.3	29,822	16.9
1898	1,799,578	32,515	18.0	13,213	7.3	27,337	15.1
1899	1,843,452	29,419	15.9	13,336	7.2	30,999	16.8
1900	1,889,184	32,270	17.0	14,611	7.7	31,474	16.6
1901	1,955,361	34,812	17.8	16,539	8.4	31,739	16.2
1902	2,021,539	35,116	17.3	18,150	8.9	31,319	15.4
1903	2,087,716	37,242	17.8	19,512	9.3	31,820	15.2
1904	2,153,893	38,751	17.9	18,919	8.7	35,298	16.3
1905	2,220,070	39,689	17.8	20,572	9.2	33,864	15.2
1906	2,286,247	42,677	18.6	21,580	9.4	35,670	15.6
1907	2,352,424	44,651	18.9	23,649	10.0	37,408	15.9
1908	2,418,601	47,405	19.6	26,155	10.8	35,397	14.7
1909	2,484,778	47,508	19.1	29,724	11.9	36,359	14.6
1910	2,550,445	53,942	21.1	27,912	10.9	39,494	15.4
1911	2,614,177	58,133	22.2	25,014	9.5	38,612	14.7
1912	2,677,909	60,073	22.4	26,821	10.0	37,772	14.1
1913	2,741,642	61,432	22.4	27,697	10.1	39,425	14.3
1914	2,805,374	65,403	23.3	28,528	10.1	39,967	14.2
1915	2,869,106	66,476	23.1	27,694	9.6	39,435	13.7
1916	2,932,838	70,211	23.9	31,169	10.6	43,376	14.7
1917	2,996,569	75,309	25.1	30,060	10.0	43,532	14.5
1918	3,060,301	74,549	24.3	23,989	7.8	60,852	19.8
1919	3,124,034	70,935	22.7	29,281	9.3	39,979	12.7
1920	3,199,092	76,431	23.8	31,327	9.7	40,820	12.7
1921	3,283,473	78,172	23.7	27,815	8.4	37,362	11.3
1922	3,371,559	74,479	22.0	27,114	8.0	40,086	11.8
1923	3,458,243	74,611	21.5	28,730	8.3	41,294	11.9
1924	3,544,627	76,530	21.5	27,601	7.7	40,531	11.4
1925	3,631,011	74,193	20.4	27,672	7.6	41,749	11.4
1926	3,717,395	72,386	19.4	28,424	7.6	44,396	11.9
1927	3,803,779	72,799	19.1	28,316	7.4	41,562	10.9
1928	3,890,163	70,076	18.0	29,120	7.4	44,555	11.4
1929	3,976,546	68,297	17.1	30,257	7.6	45,746	11.5
1930	4,057,000	68,282	16.8	28,499	7.0	43,190	10.6
1931	4,110,000	64,078	15.5	26,468	6.4	44,135	10.7
1932	4,155,000	61,215	14.7	22,840	5.4	42,826	10.3
1933	4,196,000	56,072	13.3	24,453	5.8	43,380	10.3
1934	*4,247,000	54,841	12.9	28,991	6.8	43,547	10.2
1935	*4,288,000	55,059	12.8	29,724	6.9	43,267	10.0
1936	*4,328,000	54,145	12.5	32,771	7.5	44,659	10.3
1937	*4,343,000	55,197	12.7	36,190	8.3	45,312	10.4
1938	4,427,000	56,602	12.7	31,006	7.0	44,045	9.9

* Federal estimates.

TABLE 1A.—BIRTHS, MARRIAGES AND DEATHS, 1938

(Births and deaths corrected for Residence)

Month	*Births*	*Marriages*	*Deaths*
January	4,792	2,111	4,204
February	4,459	2,212	3,694
March	4,812	1,500	4,231
April	4,533	2,836	4,002
May	4,501	2,670	3,828
June	4,593	5,221	3,380
July	5,356	2,386	3,324
August	5,062	1,771	3,363
September	4,842	3,277	3,256
October	4,742	2,832	3,616
November	4,461	2,529	3,398
December	4,449	1,661	3,749
Total	56,602	31,006	44,045

TABLE 1B.—BIRTHS, MARRIAGES, DEATHS AND DEATHS UNDER ONE YEAR OF AGE BY COUNTIES, CITIES, BOROUGHS AND TOWNSHIPS, 1938

(Births and Deaths Corrected as to Residence)

ATLANTIC COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Absecon City	35	15	26	1
Atlantic City	823	467	981	37
Brigantine City	11	3	5	1
Buena Vista Township	47	32	32	3
Corbin City	3	...	4	...
Egg Harbor City	46	43	49	2
Egg Harbor Township	39	11	39	3
Estelle Manor City	3	...	3	...
Folsom Borough	3	1	3	...
Galloway Township	53	5	35	1
Hamilton Township	42	23	34	2
Hammonton Town	132	65	95	6
Linwood City	23	20	13	2
Longport Borough	3	1	4	...
Margate City	37	17	34	2
Mullica Township	22	4	18	2
Northfield City	38	15	31	...
Pleasantville City	146	72	156	5
Port Republic City	3	4	2	...
Somers Point City	37	7	42	2
Ventnor City	76	47	102	2
Weymouth Township	12	...	11	1
Total	1647	852	1719	72

BERGEN COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Allendale Borough	32	13	29	2
Alpine Borough	6	3	5	...
Bendix Borough	...	...	...	...
Bergenfield Borough	125	62	78	1
Bogota Borough	61	70	76	...
Carlstadt Borough	84	39	62	1
Cliffside Park Borough	215	77	136	6
Closter Borough	36	36	29	3
Cresskill Borough	27	16	20	...
Demarest Borough	13	1	11	...
Dumont Borough	99	32	63	2
East Paterson Borough	63	27	43	2
East Rutherford Borough	68	60	56	3
Edgewater Borough	57	84	46	3
Emerson Borough	17	6	15	1
Englewood City	231	185	215	8
Englewood Cliffs Borough	1	6	6	...
Fair Lawn Borough	128	34	66	1
Fairview Borough	92	111	63	1
Fort Lee Borough	95	215	91	3
Franklin Lakes Borough	16	3	5	...
Garfield City	403	163	181	7
Glen Rock Borough	51	19	47	1
Hackensack City	341	259	265	18
Harrington Park Borough	10	4	9	...
Hasbrouck Heights Borough	73	53	54	2
Haworth Borough	8	5	15	1
Hillsdale Borough	43	18	50	3
Hohokus Borough	30	16	14	...
Hohokus Township	51	17	33	1
Leonia Borough	57	45	49	1
Little Ferry Borough	58	24	45	...
Lodi Borough	161	77	75	6
Lyndhurst Township	234	122	149	12
Maywood Borough	39	25	33	1
Midland Park Borough	75	27	32	2
Montvale Borough	15	2	12	...
Moonachie Borough	17	12	14	...
New Milford Borough	38	21	28	...
North Arlington Borough	132	44	81	4
Northvale Borough	18	16	7	1
Norwood Borough	25	12	17	...
Oakland Borough	13	7	8	...
Old Tappan Borough	1	2	5	...
Oradell Borough	27	16	27	3
Palisades Interstate Park	...	...	1	...
Palisades Park Borough	111	34	84	6
Paramus Borough	43	13	35	2
Park Ridge Borough	41	29	28	...
Ramsey Borough	41	41	37	1
Ridgefield Borough	69	45	40	5
Ridgefield Park Borough	119	90	119	1
Ridgewood Village	131	130	160	5
River Edge Borough	48	28	27	1
Rivervale Township	10	1	5	...
Rochelle Park Township	46	23	26	1
Rockleigh Borough	1	...	2	...
Rutherford Borough	151	89	165	6
Saddle River Borough	4	3	7	...
Saddle River Township	11	6	14	1
South Hackensack Township	19	7	9	...
Teaneck Township	267	100	182	9
Tenafly Borough	86	53	61	1
Upper Saddle River Borough	3	4	9	...
Waldwick Borough	27	12	19	1
Wallington Borough	134	16	63	5
Washington Township	3	...	3	...
Westwood Borough	52	53	58	...
Woodcliff Lake Borough	9	4	9	...
Wood Ridge Borough	59	26	44	1
Wyckoff Township	46	16	27	1
Total	4944	2903	3594	153

BURLINGTON COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Bass River Township	8	4	9	...
Beverly City	54	25	50	9
Bordentown City	76	41	76	8
Bordentown Township	12	...	14	...
Burlington City	182	79	155	9
Burlington Township	18	3	22	2
Chester Township	76	38	49	5
Chesterfield Township	15	5	11	1
Cinnaminson Township	16	14	13	...
Delanco Township	38	10	19	1
Delran Township	36	5	19	2
Eastampton Township	12	...	7	...
Edgewater Park Township	11	8	12	1
Evesham Township	25	8	17	3
Fieldsboro Borough	6	2	4	...
Florence Township	99	50	84	6
Hainesport Township	9	4	9	3
Lumberton Township	15	4	10	...
Mansfield Township	24	9	20	...
Medford Township	39	12	26	1
Moorestown Township	127	48	104	5
Mount Holly Township	102	55	110	4
Mount Laurel Township	19	1	16	1
New Hanover Township	13	17	18	3
North Hanover Township	6	6	11	...
Palmyra Borough	84	24	56	2
Pemberton Borough	21	8	25	...
Pemberton Township	33	6	17	...
Riverside Township	127	58	71	9
Riverton Borough	26	26	34	...
Shamong Township	9	...	3	...
Southampton Township	27	6	28	1
Springfield Township	17	1	11	...
Tabernacle Township	8	2	5	...
Washington Township	6	1	14	...
Westampton Township	6	2	8	...
Willingboro Township	7	1	4	1
Woodland Township	11	...	5	1
Wrightstown Borough	11	...	8	1
Total	1431	583	1174	79

CAMDEN COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Audubon Borough	92	29	90	2
Barrington Borough	26	3	17	2
Bellmawr Borough	14	5	18	1
Berlin Borough	36	30	18	1
Berlin Township	25	8	21	3
Brooklawn Borough	34	5	15	2
Camden City	1838	888	1357	86
Chesilhurst Borough	3	2	9	...
Clementon Borough	52	15	29	3
Collingswood Borough	152	97	162	3
Delaware Township	52	13	43	4
Gibbsboro Borough	13	3	9	1
Gloucester City	205	66	187	15
Gloucester Township	83	29	65	10
Haddonfield Borough	116	59	110	11
Haddon Heights Borough	70	55	62	1
Haddon Township	76	20	88	2
Hi Nella Borough	2	...	2	...
Laurel Springs Borough	23	12	12	...
Lawnside Borough	28	8	20	3
Lindenwold Borough	47	26	34	1
Magnolia Borough	20	10	12	...
Merchantville Borough	156	34	73	3
Mount Ephraim Borough	27	7	18	1
Oaklyn Borough	77	17	36	1
Pensauken Township	199	69	148	16

CAMDEN COUNTY—Continued

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Pine Hill Borough	22	2	14	1
Pine Valley Borough	...	...	...	...
Runnemede Borough	39	20	29	3
Somerdale Borough	31	3	20	4
Stratford Borough	8	6	15	...
Tavistock Borough	...	...	1	...
Voorhees Township	16	6	7	1
Waterford Township	51	20	30	1
Winslow Township	68	26	41	3
Woodlynne Borough	35	5	34	2
Total	3736	1598	2846	187

CAPE MAY COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Avalon Borough	2	...	6	...
Cape May City	33	25	62	1
Cape May Point Borough	2	...	...	...
Dennis Township	24	11	23	...
Lower Township	24	18	22	...
Middle Township	66	18	60	1
North Cape May Borough	...	...	...	...
North Wildwood City	19	4	24	1
Ocean City	53	40	79	1
Sea Isle City	8	10	12	...
South Cape May Borough	...	...	1	...
Stone Harbor Borough	5	3	7	1
Upper Township	19	11	30	...
West Cape May Borough	14	1	12	...
West Wildwood City	2	...	3	...
Wildwood City	72	52	87	3
Wildwood Crest Borough	3	3	19	...
Woodbine Borough	24	8	15	...
Total	370	204	462	8

CUMBERLAND COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Bridgeton City	291	134	218	13
Commercial Township	35	13	50	1
Deerfield Township	28	10	23	1
Downe Township	19	6	16	2
Fairfield Township	31	9	23	3
Greenwich Township	18	5	17	1
Hopewell Township	24	5	23	2
Landis Township	204	102	155	8
Lawrence Township	30	4	22	1
Maurice River Township	26	11	42	1
Millville City	210	78	206	12
Shiloh Borough	4	3	6	...
Stow Creek Township	12	4	3	1
Upper Deerfield Township	31	5	16	1
Vineland Borough	114	54	89	...
Total	1077	443	909	47

ESSEX COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Belleville Town	415	165	259	11
Bloomfield Town	605	216	362	19
Caldwell Borough	61	56	70	1
Caldwell Township	13	1	9	...
Cedar Grove Township	35	10	29	...
East Orange City	854	444	783	21
Essex Fells Borough	15	10	10	...
Glen Ridge Borough	55	33	73	1
Irvington Town	726	413	532	19
Livingston Township	81	22	33	1
Maplewood Township	206	117	215	2
Millburn Township	124	52	83	2
Montclair Town	462	312	457	12
Newark City	6307	4206	4940	255
North Caldwell Borough	7	2	12	...
Nutley Town	278	138	199	7
Orange City	520	322	357	19
Roseland Borough	24	4	15	1
South Orange Village	131	103	141	4
Verona Borough	98	57	58	2
West Caldwell Borough	55	3	24	2
West Orange Town	344	115	244	17
Total	11416	6823	8905	396

GLOUCESTER COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Clayton Borough	49	4	33	2
Deptford Township	62	10	46	...
East Greenwich Township	19	12	28	1
Elk Township	24	10	13	1
Franklin Township	56	16	42	2
Glassboro Borough	75	40	66	2
Greenwich Township	20	7	13	...
Harrison Township	36	5	29	7
Logan Township	32	6	25	4
Mantua Township	61	6	36	2
Monroe Township	55	31	54	7
National Park Borough	55	14	32	7
Newfield Borough	22	2	13	1
Paulsboro Borough	138	31	71	5
Pitman Borough	70	19	97	2
South Harrison Township	7	1	5	...
Swedesboro Borough	43	29	31	...
Washington Township	23	8	21	3
Wenonah Borough	17	9	8	...
West Deptford Township	55	12	37	3
Westville Borough	40	28	43	3
Woodbury City	130	43	97	4
Woodbury Heights Borough	21	2	13	1
Woolwich Township	15	...	7	...
Total	1135	345	869	57

HUDSON COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Bayonne City	1120	648	693	45
East Newark Borough	44	20	23	...
Guttenberg Town	64	65	62	3
Harrison Town	214	122	158	7
Hoboken City	663	772	607	30
Jersey City	4368	2828	3431	179
Kearny Town	536	194	373	12
North Bergen Township	348	187	355	16
Secaucus Borough	72	45	80	3
Union City	662	589	599	24
Weehawken Township	130	132	168	7
West New York Town	532	521	331	18
Total	8968	6123	6880	346

HUNTERDON COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Alexandria Township	11	1	7	1
Bethlehem Township	9	...	6	...
Bloomsbury Borough	12	9	10	...
Califon Borough	9	6	10	...
Clinton Town	19	8	17	1
Clinton Township	31	11	23	1
Delaware Township	9	14	25	...
East Amwell Township	13	7	21	...
Flemington Borough	41	41	41	6
Franklin Township	12	6	22	3
Frenchtown Borough	16	4	23	1
Glen Gardner Borough	13	...	16	...
Hampton Borough	16	11	13	2
High Bridge Borough	23	10	24	...
Holland Township	16	1	5	...
Kingwood Township	12	1	12	...
Lambertville City	80	23	71	5
Lebanon Borough	6	6	13	...
Lebanon Township	15	5	8	...
Milford Borough	19	8	10	...
Raritan Township	15	3	21	...
Readington Township	26	25	45	5
Stockton Borough	9	2	5	...
Tewksbury Township	15	13	18	2
Union Township	8	2	14	...
West Amwell Township	10	1	7	...
Total	465	218	487	27

MERCER COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
East Windsor Township	9	...	9	...
Ewing Township	127	21	96	4
Hamilton Township	455	121	259	20
Hightstown Borough	47	29	39	1
Hopewell Borough	27	18	34	2
Hopewell Township	54	7	36	2
Lawrence Township	116	26	60	6
Pennington Borough	18	13	16	...
Princeton Borough	99	79	68	3
Princeton Township	53	9	32	...
Trenton City	1618	921	1298	74
Washington Township	13	4	18	1
West Windsor Township	31	11	19	...
Total	2667	1259	1984	113

MIDDLESEX COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Carteret Borough	176	90	107	7
Cranbury Township	27	17	25	1
Dunellen Borough	91	65	61	1
East Brunswick Township	34	8	27	1
Helmetta Borough	7	22	10	1
Highland Park Borough	124	80	75	4
Jamesburg Borough	37	33	28	1
Madison Township	51	9	35	1
Metuchen Borough	113	33	65	3
Middlesex Borough	44	12	26	5
Milltown Borough	67	49	24	2
Monroe Township	22	1	25	3
New Brunswick City	487	359	392	21
North Brunswick Township	58	20	32	3
Perth Amboy City	583	371	381	26

MIDDLESEX COUNTY—Continued

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Piscataway Township	80	12	48	2
Plainsboro Township	7	5	8	1
Raritan Township	142	39	92	4
Sayreville Borough	125	63	72	6
South Amboy City	139	70	90	6
South Brunswick Township	49	12	32	4
South Plainfield Borough	80	43	45	3
South River Borough	153	90	77	5
Spotswood Borough	22	8	20	1
Woodbridge Township	420	181	229	13
Total	3138	1692	2026	125

MONMOUTH COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Allenhurst Borough	5	1	12	...
Allentown Borough	19	17	23	3
Asbury Park City	167	137	203	12
Atlantic Township	19	5	13	2
Atlantic Highlands Borough	36	25	31	1
Avon Borough	14	26	25	...
Belmar Borough	49	40	52	2
Bradley Beach Borough	38	26	50	2
Brielle Borough	15	1	9	2
Deal Borough	16	8	13	3
Eatontown Borough	21	15	28	1
Englishtown Borough	16	6	14	...
Fair Haven Borough	29	8	28	2
Farmingdale Borough	12	14	11	...
Freehold Borough	121	72	95	6
Freehold Township	46	1	35	2
Highlands Borough	43	18	27	1
Holmdel Township	13	4	9	...
Howell Township	31	20	54	2
Interlaken Borough	9	2	6	...
Jersey Homesteads Borough	3	1	...	...
Keansburg Borough	43	22	51	3
Keyport Borough	79	81	67	2
Little Silver Borough	16	14	14	1
Long Branch City	229	120	212	5
Manalapan Township	28	11	15	...
Manasquan Borough	30	41	48	3
Marlboro Township	31	9	21	...
Matawan Borough	39	23	37	...
Matawan Township	25	9	23	1
Middletown Township	127	49	123	4
Millstone Township	15	1	19	1
Monmouth Beach Borough	9	1	4	...
Neptune Township	158	40	186	7
Neptune City Borough	34	8	16	...
Ocean Township	48	22	46	1
Oceanport Borough	30	4	24	2
Raritan Township	14	1	15	2
Red Bank Borough	161	118	168	4
Rumson Borough	30	17	37	2
Sea Bright Borough	8	3	15	...
Sea Girt Borough	4	8	7	...
Shrewsbury Borough	22	19	19	1
Shrewsbury Township	7	5	14	...
South Belmar Borough	17	9	9	...
Spring Lake Borough	16	22	24	1
Spring Lake Heights Borough	13	7	19	1
Union Beach Borough	28	12	28	3
Upper Freehold Township	31	2	14	1
Wall Township	64	16	43	1
West Long Branch Borough	33	11	25	1
Total	2109	1172	2081	88

MORRIS COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Boonton Town	85	54	72	...
Boonton Township	8	2	6	...
Butler Borough	42	23	36	3
Chatham Borough	93	28	54	4
Chatham Township	14	1	14	2
Chester Borough	6	7	16	1
Chester Township	6	3	8	...
Denville Township	61	17	38	2
Dover Town	159	99	124	6
East Hanover Township	11	7	14	2
Florham Park Borough	9	3	21	...
Hanover Township	55	17	28	3
Harding Township	15	9	12	...
Jefferson Township	23	3	19	1
Kinnelon Borough	3	1	3	...
Lincoln Park Borough	21	9	16	...
Madison Borough	116	75	76	3
Mendham Borough	22	16	16	1
Mendham Township	10	1	9	1
Mine Hill Township	15	3	14	...
Montville Township	55	20	33	1
Morris Plains Borough	35	26	42	2
Morristown Town	233	114	227	6
Morris Township	74	12	49	2
Mountain Lakes Borough	26	10	18	...
Mount Arlington Borough	7	1	9	...
Mount Olive Township	20	10	26	2
Netcong Borough	46	29	22	2
Parsippany-Troy Hills Township	55	16	42	2
Passaic Township	32	26	43	2
Pequannock Township	37	15	28	...
Randolph Township	39	7	30	1
Riverdale Borough	12	5	9	1
Rockaway Borough	42	40	35	5
Rockaway Township	56	9	30	4
Roxbury Township	76	23	61	4
Washington Township	17	6	23	...
Wharton Borough	49	53	31	2
Total	1685	780	1354	65

OCEAN COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Barnegat City Borough	4	...	2	...
Bay Head Borough	8	2	5	...
Beach Haven Borough	16	9	12	1
Beachwood Borough	7	3	4	...
Berkeley Township	5	7	15	...
Brick Township	22	12	32	...
Dover Township	77	32	69	3
Eagleswood Township	11	2	14	...
Harvey Cedars Borough	1	...	2	...
Island Beach Borough	...	...	...	...
Island Heights Borough	3	6	6	...
Jackson Township	23	11	17	...
Lacey Township	12	4	9	2
Lakehurst Borough	16	1	15	2
Lakewood Township	70	76	109	6
Lavalette Borough	8	1	2	1
Little Egg Harbor Township	7	1	8	1
Long Beach Township	4	4	3	1
Manchester Township	20	4	10	3
Mantoloking Borough	2	...	1	...
Ocean Township	4	7	5	...
Ocean Gate Borough	1	1	6	...
Pine Beach Borough	...	1	2	...
Plumsted Township	26	6	22	2
Point Pleasant Borough	40	5	43	3
Point Pleasant Beach Borough	2	23	31	...

OCEAN COUNTY—Continued

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Seaside Heights Borough	9	2	8	...
Seaside Park Borough	10	9	12	1
Ship Bottom-Beach Arlington Borough	5	3	8	1
South Toms River Borough	4	2	8	1
Stafford Township	11	2	18	...
Surf City Borough	1	1	1	...
Tuckerton Borough	28	11	19	...
Union Township	22	4	17	1
Total	479	252	535	29

PASSAIC COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Bloomingdale Borough	52	25	30	3
Clifton City	610	221	362	25
Haledon Borough	75	72	37	3
Hawthorne Borough	144	68	109	3
Little Falls Borough	68	37	51	1
North Haledon Borough	23	8	10	1
Passaic City	781	623	534	22
Paterson City	1737	1122	1598	58
Pompton Lakes Borough	49	43	28	4
Prospect Park Borough	61	36	29	1
Ringwood Borough	28	6	16	5
Totowa Borough	58	17	31	2
Wanaque Borough	52	28	31	3
Wayne Township	89	30	51	4
West Milford Township	40	19	36	4
West Paterson Borough	22	4	21	...
Total	3889	2359	2974	139

SALEM COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Alloway Township	24	12	17	...
Elmer Borough	22	8	22	1
Elsinboro Township	16	...	4	...
Lower Alloways Creek Township	23	5	18	2
Lower Penns Neck Township	95	15	40	3
Mannington Township	23	4	21	...
Oldmans Township	35	9	20	...
Penns Grove Township	157	46	65	6
Pilesgrove Township	21	2	14	1
Pittsgrove Township	24	6	13	2
Quinton Township	22	8	15	...
Salem City	150	66	130	10
Upper Penns Neck Township	44	13	34	1
Upper Pittsgrove Township	39	3	26	2
Woodstown Borough	39	15	25	1
Total	734	212	464	29

SOMERSET COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Bedminster Township	22	4	10	1
Bernards Township	38	22	14	...
Bernardsville Borough	54	26	37	...
Bound Brook Borough	123	94	71	2
Branchburg Township	18	16	12	...
Bridgewater Township	70	10	47	4
Far Hills Borough	12	4	5	...
Franklin Township	75	22	65	6
Green Brook Township	8	1	6	...
Hillsborough Township	38	11	17	...
Manville Borough	93	46	43	8
Millstone Borough	1	3	7	...
Montgomery Township	30	5	22	2
North Plainfield Borough	138	60	106	3
Peapack-Gladstone Borough	17	18	21	2
Raritan Town	75	45	28	5
Rocky Hill Borough	7	3	5	1
Somerville Borough	133	56	121	4
South Bound Brook Borough	41	9	20	2
Warren Township	25	8	16	...
Watchung Borough	14	12	11	1
Total	1032	475	684	41

SUSSEX COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Andover Borough	8	3	8	...
Andover Township	7	2	3	...
Branchville Borough	12	11	14	1
Byram Township	2	1	6	...
Frankford Township	13	...	17	1
Franklin Borough	83	38	44	5
Fredon Township	4	3	6	1
Green Township	7	6	9	1
Hamburg Borough	23	15	16	1
Hampton Township	8	...	7	1
Hardyston Township	9	1	9	1
Hopatcong Borough	5	5	7	...
Lafayette Township	20	4	8	...
Montague Township	8	3	8	...
Newton Town	83	53	84	4
Ogdensburg Borough	32	5	13	1
Sandyston Township	11	10	5	...
Sparta Township	21	17	24	1
Stanhope Borough	22	17	20	...
Stillwater Township	9	6	13	2
Sussex Borough	25	25	26	1
Vernon Township	25	4	11	...
Walpack Township	3	1	...	...
Wantage Township	36	5	20	3
Total	476	235	378	24

UNION COUNTY

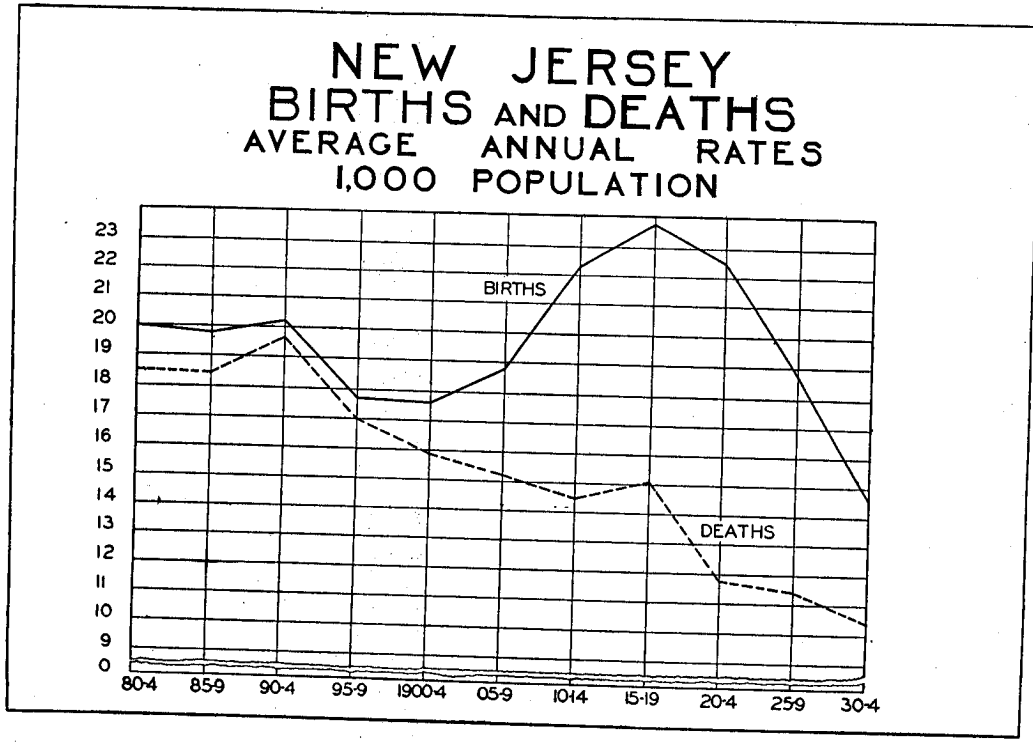
NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Clark Township	19	2	13	...
Cranford Township	156	68	106	3
Elizabeth City	1602	950	1156	87
Fanwood Borough	45	2	16	1
Garwood Borough	68	27	30	2
Hillside Township	227	60	148	3
Kenilworth Borough	38	8	17	...
Linden City	406	138	148	9
Mountainside Borough	8	3	4	...
New Providence Borough	33	13	23	...
New Providence Township	18	8	15	1
Plainfield City	547	294	404	21
Rahway City	237	118	169	7
Roselle Borough	186	102	147	11
Roselle Park Borough	100	35	87	6
Scotch Plains Township	90	34	38	2
Springfield Township	63	26	38	2
Summit City	187	112	152	4
Union Township	337	86	205	13
Westfield Town	205	101	198	4
Total	4372	2185	3114	176

WARREN COUNTY

NAME OF PLACE	Births	Marriages	Deaths	Deaths under one year
Allamuchy Township	3	...	4	...
Alpha Borough	42	15	23	3
Belvidere Town	22	17	32	2
Blairstown Township	21	13	14	...
Franklin Township	18	3	33	2
Frelinghuysen Township	5	1	5	2
Greenwich Township	30	16	14	1
Hackettstown Town	46	27	43	...
Hardwick Township	6	...	5	...
Harmony Township	21	3	15	2
Hope Township	3	3	8	...
Independence Township	22	22	20	...
Knowlton Township	11	13	19	...
Liberty Township	3	...	6	...
Lopatcong Township	8	3	7	...
Mansfield Township	4	5	21	1
Oxford Township	18	19	21	...
Pahaquarry Township	1	...	...	...
Phillipsburg Town	239	96	216	10
Polsatcong Township	34	7	13	1
Washington Borough	47	23	58	1
Washington Township	15	3	23	1
White Township	13	2	15	1
Total	632	291	615	27
State Total	56602	31006	44045	2228

TABLE 2—DEATHS BY AGE PERIODS AND PERCENTAGES OF EACH OF TOTAL DEATHS, 1938

	AGE PERIODS																	
	Total	Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
Deaths	44,043	2,228	222	163	102	95	2,810	378	894	1,619	2,354	4,469	7,215	9,854	9,334	4,496	627	..
Percentage of total	100.0	5.1	0.5	0.4	0.2	0.2	6.4	0.8	2.0	3.7	5.3	10.2	16.4	22.4	21.2	10.2	1.4	..



Infant Mortality—The infant mortality rate for 1938 was 39.3 per 1,000 babies born alive. The rate was the same as for 1937 which was the lowest infant mortality rate ever attained in New Jersey. 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 66.7. The colored races have shown high mortality rates since vital statistics were first collected and analyzed.

Maternal Mortality—The rate for 1938 was 3.3 and for 1937, 3.2. The rate for 1937 was the lowest since such rates were first computed in 1906. 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 4.5.

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

CALENDAR YEAR	DEATHS IN NEW JERSEY				
	All Ages	Under one year		Under five years	
		Number	Percentage of Total	Number	Percentage of Total
1904	35,298	7,472	21.2	10,927	31.0
1905	33,864	6,951	20.5	9,864	29.1
1906	35,670	7,773	21.8	11,246	31.5
1907	37,408	7,732	20.7	10,867	29.0
1908	35,597	7,823	22.0	10,869	30.5
1909	36,359	7,658	21.1	11,137	30.6
1910	39,494	8,352	21.1	11,648	29.5
1911	38,612	7,642	19.8	10,740	27.8
1912	37,772	7,457	19.7	10,309	27.3
1913	39,425	7,542	19.1	10,686	27.1
1914	39,967	7,431	18.6	10,278	25.7
1915	39,435	7,077	17.9	9,828	24.9
1916	43,376	7,348	16.9	11,188	25.8
1917	43,532	7,582	17.4	10,267	23.6
1918	60,852	8,372	13.8	13,709	22.5
1919	39,979	6,111	15.3	8,661	21.7
1920	40,820	6,672	16.3	9,569	23.4
1921	37,362	5,773	15.4	8,047	21.5
1922	40,086	5,864	14.6	8,371	20.9
1923	41,294	5,368	13.0	7,727	18.7
1924	40,531	5,359	15.5	7,344	21.3
1925	41,749	5,109	12.3	6,997	16.8
1926	44,396	5,090	11.5	7,442	16.8
1927	41,562	4,464	10.7	6,045	14.5
1928	44,555	4,600	10.3	6,438	14.4
1929	45,746	4,116	9.0	5,795	12.6
1930	43,190	3,870	9.0	5,205	12.1
1931	44,135	3,649	8.3	4,916	11.1
1932	42,826	3,089	7.2	4,049	9.4
1933	43,380	2,608	6.0	3,512	8.1
1934	43,547	2,686	6.2	3,518	8.1
1935	43,267	2,539	5.9	3,291	7.6
1936	44,659	2,383	5.3	3,039	6.8
1937	45,312	2,170	4.8	2,870	6.3
1938	44,045	2,228	5.1	2,810	6.4

TABLE 4.—NUMBER OF BIRTHS, STILLBIRTHS, DEATHS UNDER ONE MONTH, DEATHS UNDER ONE YEAR AND MATERNAL DEATHS IN NEW JERSEY, WITH RATES PER 1,000 LIVE BIRTHS

Year	Births Reported	Deaths Under 1 Year of Age	Rates per 1,000 Live Births	Deaths Under 1 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	42,677	7,773	182.1	2,545	59	2,399	56	322	7.5
1907	44,651	7,732	173.2	2,602	58	2,530	56	289	6.5
1908	47,405	7,823	165.2	2,655	56	2,617	55	329	6.9
1909	47,508	7,658	161.2	2,661	56	2,539	53	311	6.5
1910	53,942	8,352	154.8	2,801	51	2,737	50	377	6.9
1911	58,133	7,642	131.4	2,887	49	2,754	47	427	7.3
1912	60,073	7,457	124.1	2,836	47	2,953	49	415	6.9
1913	61,432	7,542	122.7	2,903	47	2,866	46	460	7.4
1914	63,403	7,431	113.6	2,995	45	3,074	47	416	6.3
1915	66,476	7,077	106.4	2,862	43	3,075	46	390	5.8
1916	70,211	7,348	104.7	3,075	43	3,221	45	383	5.4
1917	75,309	7,582	100.7	3,256	43	3,183	42	411	5.4
1918	74,349	8,372	112.3	3,175	42	3,525	47	417	5.5
1919	70,935	6,111	86.1	2,696	38	3,047	42	366	5.1
1920	76,431	6,672	87.2	2,961	38	3,221	42	472	6.1
1921	78,172	5,773	73.8	2,830	36	3,242	41	464	5.9
1922	74,479	5,864	78.7	2,773	37	3,033	40	466	6.2
1923	74,611	5,368	71.9	2,621	35	3,169	42	424	5.4
1924	76,530	5,359	70.0	2,739	35	3,177	41	466	6.0
1925	74,193	5,109	68.8	2,607	35	3,010	40	461	6.2
1926	72,386	5,090	70.3	2,537	35	3,018	41	394	5.4
1927	72,799	4,464	61.3	2,462	33	3,074	42	450	6.1
1928	70,076	4,600	65.6	2,485	35	2,864	40	406	5.7
1929	68,297	4,116	60.2	2,233	32	2,767	40	367	5.3
1930	68,282	3,870	56.6	2,107	30	2,647	38	390	5.7
1931	64,078	3,649	56.9	2,064	32	2,578	40	378	5.9
1932	61,215	3,089	50.4	1,802	29	2,343	38	351	5.7
1933	56,072	2,608	46.5	1,533	27	2,073	36	289	5.1
1934	54,841	2,686	48.9	1,634	29	2,025	36	294	5.3
1935	55,059	2,539	46.1	1,560	28	1,905	34	249	4.5
1936	54,145	2,383	44.0	1,449	26	1,846	34	202	3.7
1937	55,197	2,170	39.3	1,327	24	1,731	31	182	3.2
1938	56,602	2,228	39.3	1,365	24	1,704	30	191	3.3

TABLE 5.—DEATHS UNDER ONE YEAR, DEATHS UNDER ONE MONTH, STILLBIRTHS AND MATERNAL MORTALITY PER THOUSAND LIVE BIRTHS, 1938

	Rates per 1,000 live births			
	Deaths Under One Year	Deaths Under One Month	Stillbirths	Maternal Deaths
New Jersey	39	24	26	3.3
Atlantic	43	27	27	4.2
Bergen	30	20	21	2.2
Burlington	55	28	26	4.1
Camden	50	29	27	5.0
Cape May	21	8	27	10.8
Cumberland	43	20	29	6.4
Essex	34	22	25	2.8
Gloucester	50	24	22	6.1
Hudson	38	22	27	2.7
Hunterdon	58	34	21	2.1
Mercer	42	23	22	5.2
Middlesex	39	26	27	4.1
Monmouth	41	25	26	3.3
Morris	38	26	23	3.5
Ocean	60	43	29	6.2
Passaic	35	23	33	2.0
Salem	39	23	13	4.0
Somerset	39	19	22	2.9
Sussex	50	35	31	4.2
Union	38	24	25	2.4
Warren	42	25	34	1.5

TABLE 6.—DEATHS UNDER ONE YEAR, DEATHS UNDER ONE MONTH, STILLBIRTHS AND MATERNAL MORTALITY PER THOUSAND LIVE BIRTHS; NEW JERSEY AND TEN LARGEST CITIES, 1938

	Rates per 1,000 live births			
	Deaths Under One Year	Deaths Under One Month	Stillbirths	Maternal Deaths
New Jersey	39	24	26	3.3
Newark	40	26	26	2.8
Jersey City	40	24	24	2.5
Paterson	33	21	40	2.8
Trenton	45	24	22	4.3
Camden	46	26	81	3.8
Elizabeth	54	33	29	1.2
Bayonne	40	23	30	3.5
East Orange	24	11	12	2.3
Atlantic City	44	33	27	3.6
Passaic City	28	19	23	1.2

TABLE 7—BIRTHS, BIRTH RATES, DEATHS UNDER ONE YEAR AND INFANT MORTALITY RATES (EXCLUSIVE OF STILLBIRTHS)—1938

	Births (Exclusive of Stillbirths)	*Birth Rates per 1,000 Population*	*Deaths Under One Year*	*Infant Mortality Rates*
New Jersey	56,602	12.7	2,228	39
Atlantic County	1,647	11.5	72	43
Atlantic City	828	11.3	37	44
Hammonton Town	132	16.0	6	45
Pleasantville	146	10.3	5	34
Bergen County	4,944	11.4	153	30
Bergenfield Borough	125	11.2	1	8
Cliffside Park	215	11.0	6	27
Englewood City	231	11.2	8	34
Fairview Borough	92	8.4	1	10
Fort Lee Borough	95	9.4	3	31
Garfield City	403	11.7	7	17
Hackensack City	341	12.3	18	52
Lodi Borough	161	12.3	6	37
North Arlington	132	11.8	4	30
Ridgefield Park	119	10.1	1	8
Ridgewood Village	131	9.2	5	38
Rutherford Borough	151	8.7	6	39
Wallington Borough	134	12.7	5	37
Burlington County	1,431	14.4	79	55
Bordentown City	76	17.2	8	105
Burlington City	182	15.6	9	49
Camden County	3,736	13.3	187	50
Audubon Borough	92	8.5	2	21
Camden City	1,838	15.3	86	46
Collingswood Borough	152	10.4	3	19
Gloucester City	205	14.1	15	73
Haddonfield Borough	116	11.2	11	94
Cape May County	370	10.9	8	21
Cumberland County	1,077	14.6	47	43
Bridgeton City	291	17.8	13	44
Millville City	210	14.2	12	57
Vineland Borough	114	14.2	..	..

	Births (Exclusive of Stillbirths)	*Birth Rates per 1,000 Population*	*Deaths Under One Year*	*Infant Mortality Rates*
Essex County	11,416	12.5	396	34
Belleville Town	415	13.0	11	26
Bloomfield Town	605	13.4	19	31
East Orange City	854	11.2	21	24
Irvington Town	726	10.3	19	26
Montclair Town	462	9.6	12	25
Newark City	6,307	13.8	255	40
Nutley Town	278	10.9	7	25
Orange City	520	14.3	19	36
South Orange Village	131	7.9	4	30
West Orange Town	344	12.2	17	49
Gloucester County	1,135	14.0	57	50
Woodbury City	130	14.1	4	30
Hudson County	8,968	12.4	346	38
Bayonne City	1,120	11.8	45	40
Guttenberg Town	64	9.7	5	78
Harrison Town	214	13.7	7	32
Hoboken City	663	11.1	30	45
Jersey City	4,368	13.4	179	40
Kearny Town	556	11.8	12	21
Secaucus Town	72	6.8	3	41
Union City	662	11.2	24	36
West New York	532	13.2	18	33
Hunterdon County	465	13.0	27	58
Lambertville	80	17.7	5	62
Mercer County	2,667	13.4	113	42
Princeton Borough	99	13.2	3	30
Trenton City	1,618	12.9	74	45
Middlesex County	3,138	13.4	125	39
Carteret Borough	176	12.3	7	39
Highland Park	124	11.9	4	32
New Brunswick	487	13.7	21	43
Perth Amboy	583	13.1	26	44
Sayreville	125	13.4	6	48
South Amboy	139	15.9	6	43
South River	153	12.1	5	32
Monmouth County	2,109	12.7	88	41
Asbury Park	167	10.3	12	71
Long Branch	229	11.1	5	21
Red Bank	161	12.6	4	24

	Births (Exclusive of Stillbirths)	Birth Rates per 1,000 Population	Deaths Under One Year	Infant Mortality Rates
Morris County	1,685	13.7	65	38
Dover	159	15.7	6	37
Madison	116	13.9	3	25
Morristown	233	13.5	6	25
Ocean County	479	12.6	29	60
Passaic County	3,889	12.1	139	35
Clifton	610	10.9	25	40
Hawthorne	144	9.7	3	20
Passaic City	781	12.4	22	28
Paterson City	1,737	12.4	58	33
Salem County	734	19.8	29	39
Salem City	150	18.0	10	66
Somerset County	1,032	14.2	41	39
Bound Brook	123	15.3	2	16
North Plainfield	138	12.5	3	21
Somerville	133	14.9	4	30
Sussex County	476	16.3	24	50
Union County	4,572	13.0	176	38
Elizabeth City	1,602	13.0	87	54
Linden	406	15.1	9	22
Plainfield	547	14.6	21	38
Rahway	237	13.0	7	29
Roselle	186	11.4	11	59
Roselle Park	100	9.5	6	60
Summit	187	11.4	4	21
Westfield	205	9.6	4	19
Warren County	632	12.3	27	42
Phillipsburg	239	11.7	10	41

Typhoid Fever—The number of deaths was 18 and the death rate only 0.4 per 100,000 population. Similar figures for 1937 were 25 and 0.5 respectively. That the New Jersey rate was low was proven by the 1937 rate of 2.1 for the United States. The rate for the country for 1938 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, may be obtained by referring to Table 20. Table 22 shows the more important causes by sex, color and age groups.

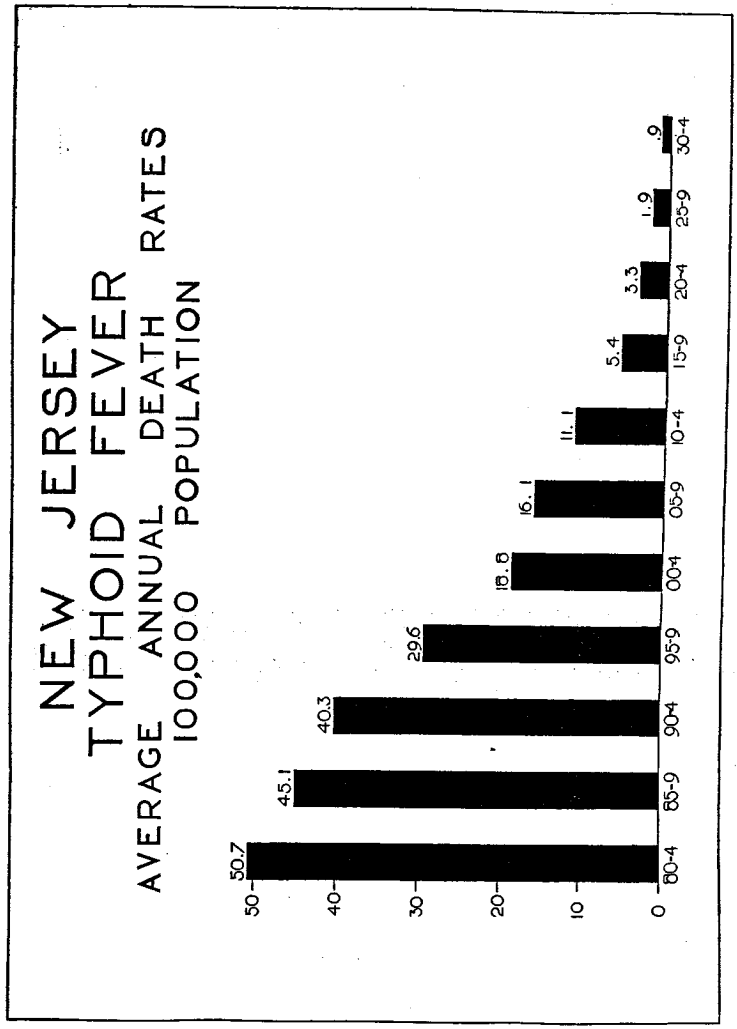


TABLE 8—COMPARATIVE DEATH RATES FROM TYPHOID FEVER PER 100,000 POPULATION, IN THE REGISTRATION AREA OF U. S. AND IN N. J. FOR 10 YEARS

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Registration area of the United States	4.2	4.7	4.4	3.6	3.5	3.3	2.7	2.5	2.1	...
New Jersey	1.4	1.1	0.9	0.7	0.9	0.7	0.5	0.6	0.5	0.4

TABLE 9—URBAN AND RURAL DEATHS FROM TYPHOID FEVER—1938

	Estimated population	Deaths from typhoid fever	Rate per 100,000 population
New Jersey	4,427,000	18	0.4
Municipalities having 5,000 or more inhabitants in 1930	3,216,000	17	0.5
Remainder of State	1,211,000	1	0.1

TABLE 10—DEATHS FROM TYPHOID FEVER, PER 100,000 POPULATION, BY COUNTIES, FOR 10 YEARS

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938
Atlantic	1.0	3.1	1.5	2.2	2.1	1.5	5.8	4.3	1.4	1.4
Bergen	0.7	...	0.7	...	0.2	1.0	0.9	1.4	0.4	0.4
Burlington	3.1	3.1	1.0	3.1	4.1	...	...	1.0	2.0	1.0
Camden	2.9	1.9	0.7	1.5	1.5	0.3	1.1	0.3	0.7	...
Cape May	...	3.3	...	...	...	3.2	6.2	3.0	...	...
Cumberland	1.4	...	1.4	1.3	2.7	...	...	...	...	...
Essex	1.3	0.8	0.7	0.5	0.6	0.4	0.1	0.1	0.5	0.5
Gloucester	3.3	...	2.7	2.6	2.5	1.0	...	1.2	1.2	...
Hudson	0.9	0.7	...	0.2	0.1	0.1	...	0.2	0.1	0.6
Hunterdon	...	...	...	...	...	...	...	...	...	...
Mercer	1.5	1.5	1.5	0.5	2.0	0.5	...	1.0	...	0.5
Middlesex	1.9	1.8	1.3	1.3	0.4	...	...	...	...	0.4
Monmouth	1.7	3.3	2.6	3.1	1.8	7.7	1.2	0.6	3.6	...
Morris	...	0.8	0.8	...	1.6	1.7	...	...	...	...
Ocean	...	2.9	2.9	...	2.7	...	...	...	2.6	...
Passaic	2.3	...	1.9	0.6	...	0.6	0.3	0.3	...	0.3
Salem	...	2.7	...	...	5.4	...	...	5.5	...	...
Somerset	...	4.5	...	...	5.6	1.4	1.4	2.8	1.3	...
Sussex	4.0	...	...	...	...	...	...	...	3.4	...
Union	1.1	0.9	1.8	...	0.5	...	...	0.2	2.8	...
Warren	...	...	...	...	...	...	...	...	...	...
New Jersey	1.4	1.1	0.9	0.7	0.9	0.7	0.5	0.6	0.5	0.4

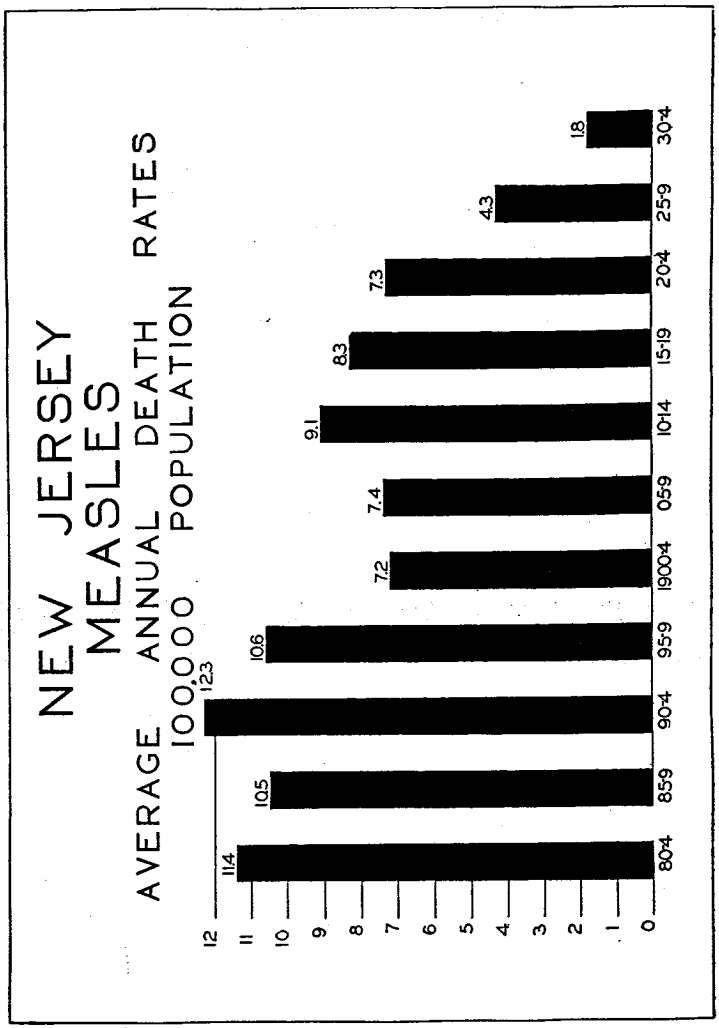
Malaria—As the following figures show, deaths during recent years from this affection are practically negligible in this State:

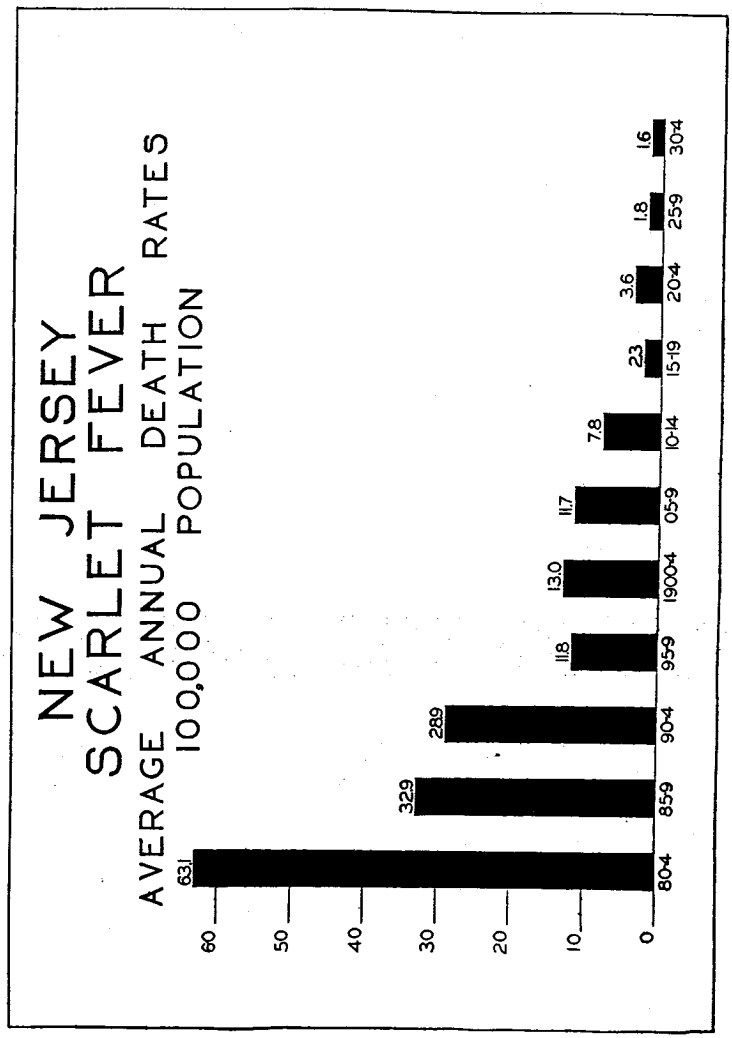
1879	268	1894	162	1909	25	1924	6
1880	293	1895	144	1910	25	1925	3
1881	431	1896	119	1911	25	1926	2
1882	379	1897	132	1912	29	1927	2
1883	290	1898	82	1913	11	1928	3
1884	230	1899	96	1914	10	1929	5
1885	209	1900	84	1915	17	1930	5
1886	243	1901	50	1916	10	1931	0
1887	217	1902	36	1917	5	1932	3
1888	264	1903	40	1918	13	1933	1
1889	203	1904	47	1919	2	1934	0
1890	195	1905	21	1920	5	1935	6
1891	180	1906	33	1921	10	1936	3
1892	198	1907	29	1922	3	1937	0
1893	148	1908	30	1923	2	1938	1

Smallpox—No deaths from smallpox have occurred in New Jersey since 1925, when as in 1924 the disease was prevalent in epidemic form in certain sections of the State.

Measles—This disease was responsible for 31 deaths during 1938. During the preceding year 55 deaths occurred. The death rate per 100,000 population was 0.7 and for 1937, 1.2.

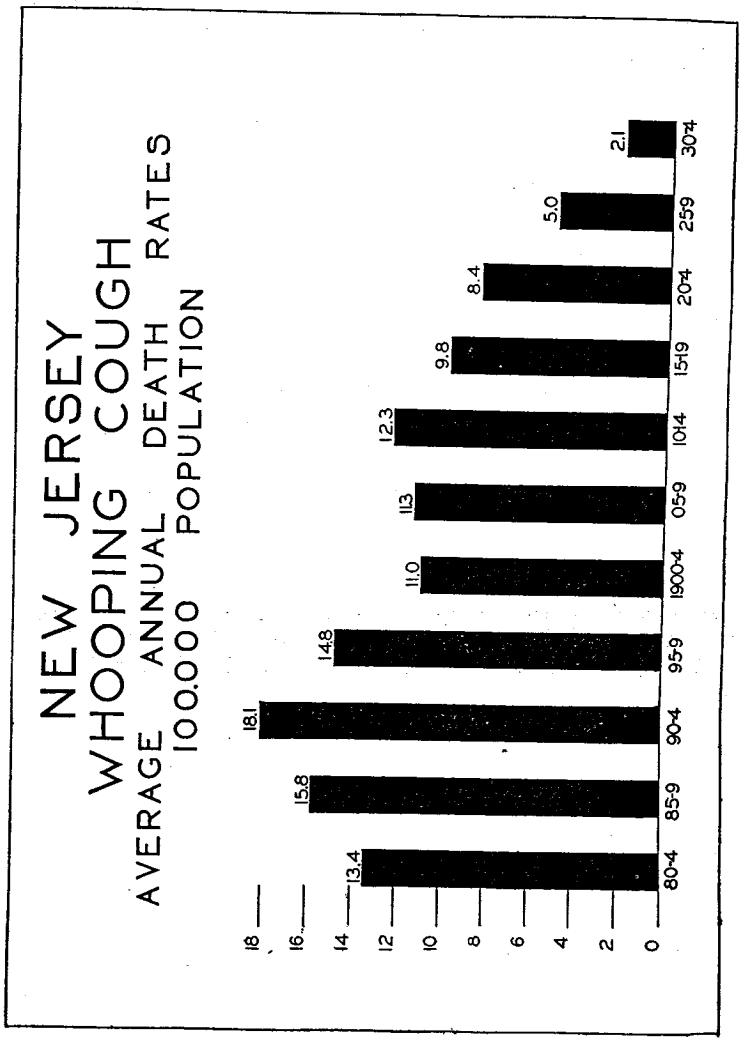
Scarlet Fever—The number of deaths from scarlet fever was 12, equivalent to a rate of 0.2 per 100,000 population. The number for the previous year was 16 and the rate was 0.3.

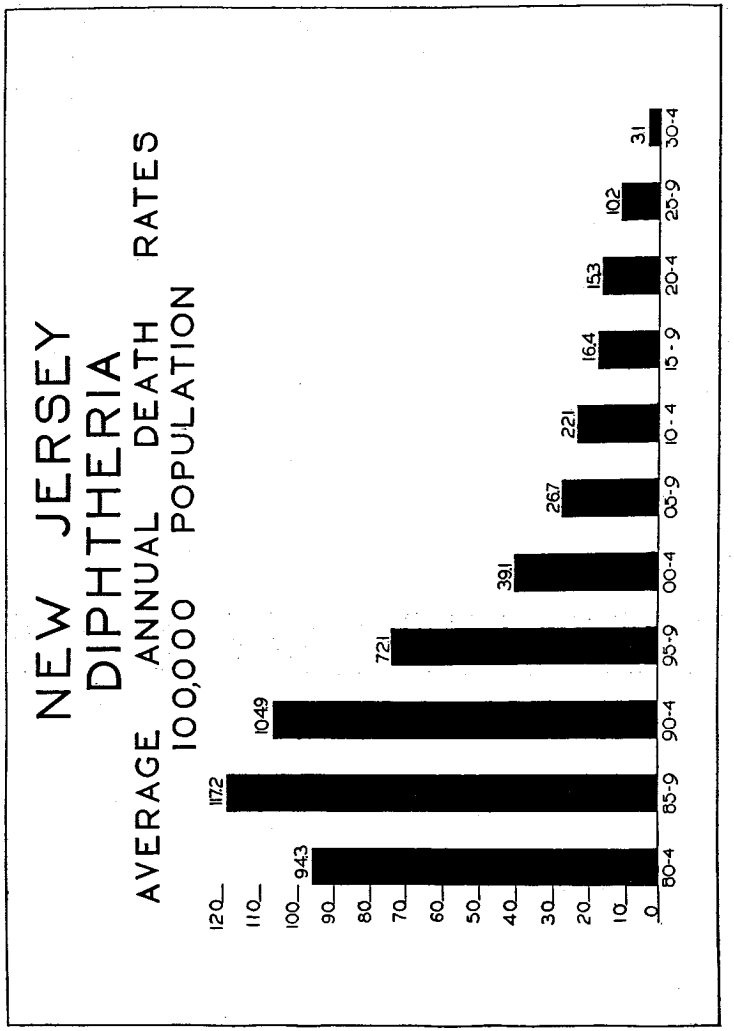

NEW JERSEY
MEASLES
AVERAGE ANNUAL DEATH RATES
100,000 POPULATION
12
11
10
9
8
7
6
5
4
3
2
1
0
11.4
10.5
12.3
10.6
7.2
7.4
9.1
8.3
7.3
4.3
1.8
80-4
85-9
90-4
95-9
1900-4
05-9
10-14
15-19
20-4
25-9
30-4


NEW JERSEY
SCARLET FEVER
AVERAGE ANNUAL DEATH RATES
100,000 POPULATION
60
50
40
30
20
10
0
63.1
32.9
28.9
11.8
13.0
11.7
7.8
2.3
3.6
1.8
1.6
80-4
85-9
90-4
95-9
1900-4
05-9
10-14
15-19
20-4
25-9
30-4

Whooping Cough—This disease caused 54 deaths during 1938; for 1937 the number was 48 and for 1936, 57. The 1938 death rate was 1.2 per 100,000 population.

Diphtheria—During 1938 only 33 persons died from diphtheria and laryngeal croup, equivalent to a rate of 0.7 per 100,000 population, compared with 0.6 for the previous year and 0.4 for 1936. The death rate from diphtheria for 1888 was 148 per 100,000 population. During the decade beginning with 1900 the rate declined from 48 to 25. The following 10-year period showed a decline to 18. The rate for 1937 was next to the lowest recorded and was decidedly favorable in comparison with the latest rate available for the United States, 2.0 for 1937.





Tuberculosis—The number of deaths from all forms of tuberculosis during 1938 was 1,962, of which 1,801 were deaths from tuberculosis of the respiratory system. The death rates per 100,000 population were 44.3 and 40.6 respectively, which were the lowest rates for tuberculosis ever recorded in New Jersey. The rates for 1937 were 48.1 and 44.2.

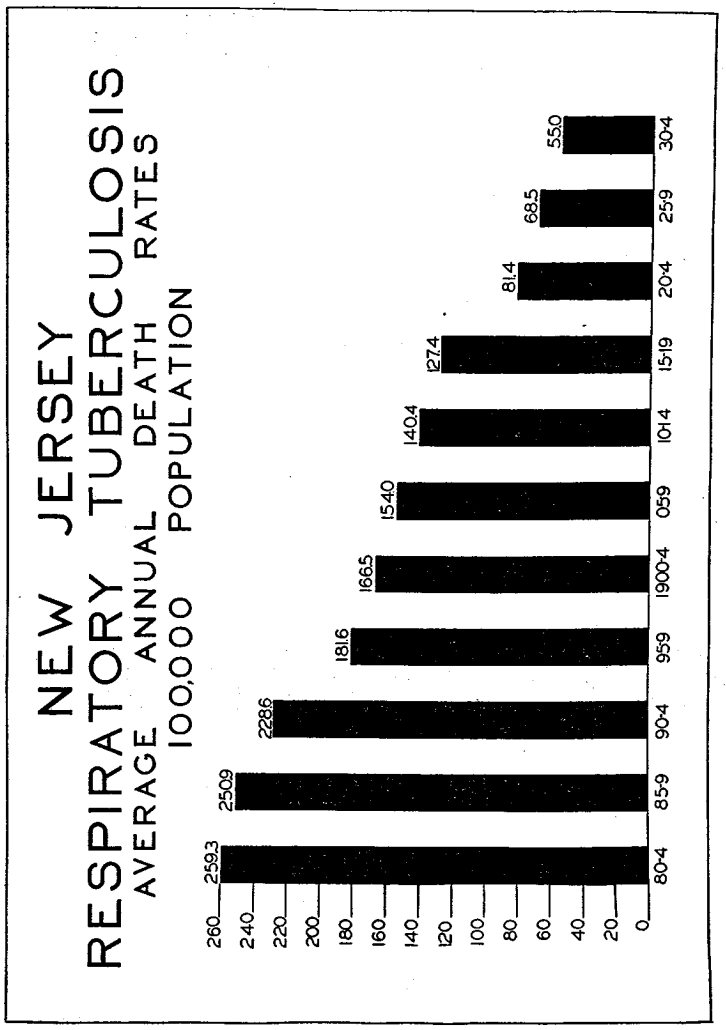
Colored Races—The number of deaths from all forms of tuberculosis was 419 and the rate 181.3 per 100,000 of colored population. The number of deaths from tuberculosis of the respiratory system was 371; the rate 160.6. Rates for the white population were 48.2 and 44.7 respectively.

TABLE 11.—AVERAGE ANNUAL DEATH RATES FROM ALL CAUSES AND FROM RESPIRATORY TUBERCULOSIS FOR 60 YEARS, NEW JERSEY COMPARED WITH RATES FOR 1938

COUNTIES	*Rates per 1,000 population*		*Rates per 100,000 population*	
	Average annual death rates from all causes	*Death rates from all causes, 1938*	**Average annual death rates from respiratory tuberculosis*	**Death rates from respiratory tuberculosis of 1938*
Atlantic	14.9	12.0	106	51
Bergen	11.1	8.3	85	31
Burlington	14.3	11.8	120	39
Camden	14.8	10.1	129	35
Cape May	14.1	13.6	86	29
Cumberland	11.1	12.3	128	43
Essex	14.1	9.7	145	48
Gloucester	13.4	10.6	106	37
Hudson	15.1	9.5	150	47
Hunterdon	14.2	13.7	109	39
Mercer	14.4	9.9	144	38
Middlesex	12.8	8.6	101	31
Monmouth	14.8	12.5	111	43
Morris	11.9	11.0	123	26
Ocean	14.6	14.1	129	42
Passaic	13.4	9.2	119	39
Salem	13.5	12.5	120	40
Somerset	12.7	9.4	99	31
Sussex	12.7	12.9	101	34
Union	11.8	8.8	100	36
Warren	13.8	12.0	100	25
The State	13.9	9.9	125	40

**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 1938 was 5,776 and the death rate was 130.4 per 100,000 population compared with 131.4 for the previous year. The mortality from the disease, with few exceptions, has steadily increased during the 60 years recorded in New Jersey.


NEW JERSEY
RESPIRATORY TUBERCULOSIS
AVERAGE ANNUAL DEATH RATES
100,000 POPULATION
260
240
220
200
180
160
140
120
100
80
60
40
20
0
2593
2509
2286
1816
1665
1540
1404
1274
814
685
550
80-4
85-9
90-4
95-9
1900-4
05-9
10-14
15-19
20-4
25-9
30-4

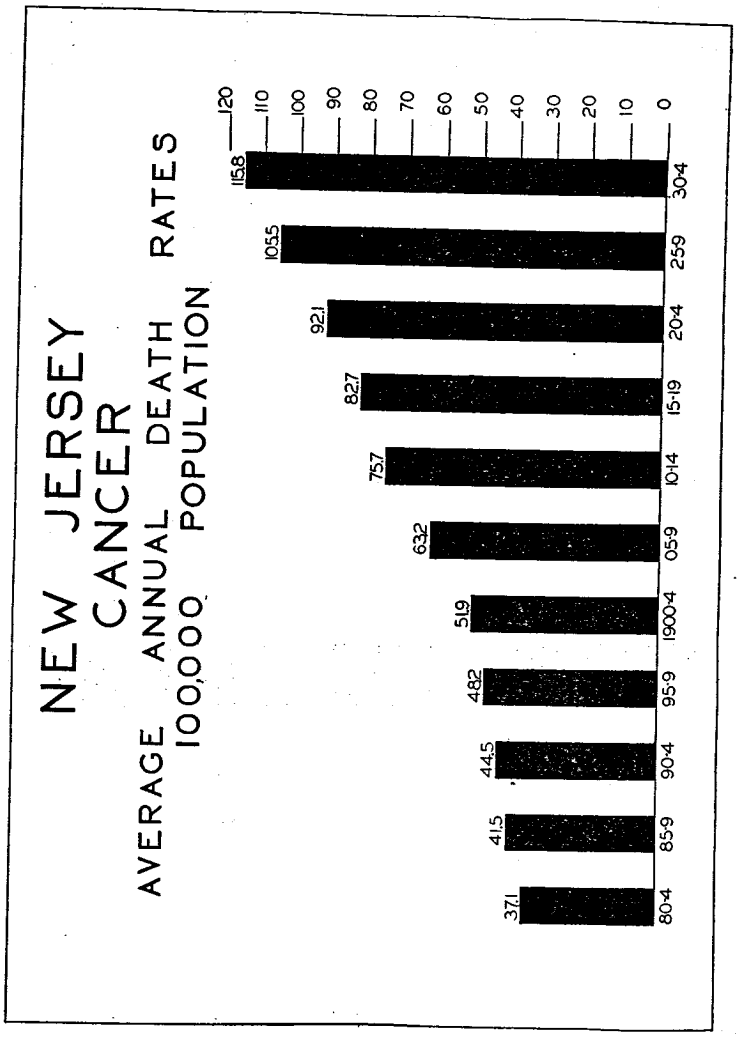

NEW JERSEY
CANCER
AVERAGE ANNUAL DEATH RATES
100,000 POPULATION
120
110
100
90
80
70
60
50
40
30
20
10
0
1158
1055
921
827
757
632
519
482
445
415
371
80-4
85-9
90-4
95-9
1900-4
05-9
10-14
15-19
20-4
25-9
30-4

TABLE 12—DEATHS FROM CANCER AND OTHER MALIGNANT TUMORS BY ORGAN AFFECTED, NEW JERSEY, 1938

CANCER AND OTHER MALIGNANT TUMORS	AGE PERIODS																				
	Under 1 year	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 and over	Total
Buccal Cavity and Pharynx—																					
Male	....	...	1	...	....	....	....	....	2	4	11	16	20	16	30	27	22	13	1	....	169
Female	....	...	...	...	....	....	....	....	....	1	....	2	....	4	3	7	3	4	2	....	26
Total	....	...	1	...	....	....	....	....	2	5	11	18	20	20	33	34	25	17	3	....	195
Digestive Tract and Peritoneum—																					
Male	....	1	...	...	2	1	7	10	33	54	111	163	200	260	278	205	118	59	19	5	1526
Female	....	2	...	...	....	3	9	9	26	58	77	106	163	209	204	194	151	92	36	8	1347
Total	....	3	...	...	2	4	16	19	59	112	188	269	363	469	482	399	269	151	55	13	2873
Respiratory System—																					
Male	....	...	...	1	....	....	2	7	5	15	26	33	62	53	38	18	9	6	1	1	277
Female	....	...	...	1	1	1	1	3	3	9	11	9	12	10	21	6	2	5	....	....	95
Total	....	...	...	2	1	1	3	10	8	24	37	42	74	63	59	24	11	11	1	1	372
Uterus—Female	....	1	...	...	....	1	7	18	36	48	62	69	53	68	67	49	24	20	6	1	530
Other Female Genital Organs	....	...	1	1	....	....	2	7	12	13	23	26	28	19	22	11	8	3	1	....	177
Breast—																					
Male	....	...	...	...	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	2
Female	....	...	...	...	....	1	2	12	23	44	63	61	85	71	64	60	47	25	9	6	573
Total	....	...	...	...	....	1	2	12	23	44	63	61	86	72	64	60	47	25	9	6	575
Male Genitourinary Organs	....	1	2	...	....	....	3	3	3	5	21	25	46	64	87	79	78	42	12	6	477
Skin																					
Male	....	...	1	...	....	....	....	....	2	....	2	....	....	2	10	7	9	9	6	....	48
Female	....	...	1	...	....	....	....	1	....	....	2	2	1	1	6	5	6	9	4	1	39
Total	....	...	2	...	....	....	....	1	2	....	4	2	1	3	16	12	15	18	10	1	87
Other or Unspecified Organs—																					
Male	....	...	1	2	7	8	6	3	9	10	12	24	22	24	28	22	17	11	1	....	207
Female	....	1	3	2	4	5	5	5	11	14	21	25	35	30	35	36	34	11	5	1	283
Total	....	1	4	4	11	13	11	8	20	24	33	49	57	54	63	58	51	22	6	1	490
Total Male	....	2	5	3	9	9	18	23	54	88	183	261	357	420	471	358	253	140	40	12	2706
Total Female	....	4	5	4	5	11	26	55	111	187	259	300	377	412	422	308	275	169	63	17	3070
Total Male and Female	....	6	10	7	14	20	44	78	165	275	442	561	734	832	893	726	528	309	103	29	5776

Encephalitis Lethargica or Sleeping Sickness—Twenty-eight deaths were assigned to this disease for the year 1938. In 1922, which was the first year that the deaths were separately classified, there were 45 deaths. Twenty-five deaths were recorded for 1937.

Nephritis—Deaths due to acute and chronic nephritis totaled 3,043, compared with 3,069 for the previous year.

Suicide—While deaths by this means increased considerably during the period 1926 to 1932, a reversal of trend started in 1933 and continued through 1936. Deaths for 1938 showed an increase of 94 over the number for 1937. Of the various means employed, hanging or strangulation was responsible for the most deaths, with poisonous gas and firearms in second and third places. The number of deaths by suicide for 10 years follows:

1929	622	1934	667
1930	601	1935	593
1931	694	1936	574
1932	740	1937	588
1933	709	1938	682

TABLE 13—DEATHS FROM SUICIDE, NEW JERSEY, 1938

MODE OF DEATH	AGE PERIODS																	
	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 and over	Not stated	Total
Solid or liquid poisons and corrosive substances—																			
Male	...	1	2	2	2	4	4	.....	1	7	2	1	.....	.....	.....	.....	.....	.....	26
Female	...	1	3	1	3	4	1	3	1	4	3	1	.....	.....	.....	.....	.....	.....	25
Total	...	2	5	3	5	8	5	3	2	11	5	2	.....	.....	.....	.....	.....	.....	51
Poisonous gas—																			
Male	.....	.....	4	9	8	9	10	10	17	22	12	7	5	5	1	1	.....	.....	135
Female	.....	.....	2	7	5	9	11	11	8	8	7	5	3	4	1	1	.....	.....	82
Total	.....	.....	6	16	13	18	27	30	25	30	19	12	8	9	2	2	.....	.....	217
Hanging or strangulation—																			
Male	...	2	6	4	8	5	15	16	22	17	20	10	11	11	3	.....	.....	.....	150
Female	...	1	.....	1	2	4	6	5	5	6	5	2	1	.....	1	.....	.....	.....	39
Total	...	3	6	5	10	9	21	21	27	23	25	12	12	11	4	.....	.....	.....	189
Drowning—																			
Male	...	1	.....	.....	2	.....	.....	1	2	1	.....	1	1	1	.....	.....	.....	.....	10
Female	...	.....	.....	1	2	.....	3	2	1	3	.....	1	.....	.....	1	.....	.....	.....	14
Total	...	1	.....	1	4	.....	3	3	3	4	.....	2	1	1	1	.....	.....	.....	24
Firearms—																			
Male	...	4	6	11	9	9	17	9	10	17	6	10	8	.....	1	1	.....	.....	118
Female	.....	.....	.....	.....	1	2	1	1	.....	3	.....	.....	1	.....	.....	.....	.....	.....	9
Total	...	4	6	11	10	11	18	10	10	20	6	10	9	.....	1	1	.....	.....	127
Cutting or piercing instruments—																			
Male	.....	.....	.....	.....	3	1	3	2	2	.....	3	1	4	1	1	.....	.....	.....	21
Female	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	1	.....	.....	.....	.....	.....	.....	4
Total	...	.....	.....	.....	3	1	3	3	3	1	3	2	4	1	1	.....	.....	.....	25
Jumping from high places—																			
Male	...	1	.....	2	.....	3	4	3	6	2	2	2	2	1	.....	.....	.....	.....	28
Female	...	1	.....	2	.....	1	1	.....	.....	2	.....	1	1	1	.....	.....	.....	.....	10
Total	...	2	.....	4	.....	4	5	3	6	4	2	3	3	2	.....	.....	.....	.....	38
Crushing—																			
Male	.....	.....	.....	.....	1	1	.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	5
Female	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	.....	.....	.....	.....	1	1	.....	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	5
Other means—																			
Male	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Female	.....	.....	.....	1	.....	.....	1	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1
Total	.....	.....	.....	1	.....	.....	1	2	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	5
Total Male	...	9	18	28	33	32	59	53	60	66	45	33	31	19	6	2	.....	.....	494
Total Female	...	3	5	13	13	20	24	24	16	29	15	11	6	5	3	1	.....	.....	188
Total Male and Female	...	12	23	41	46	52	83	77	76	95	60	44	37	24	9	3	.....	.....	682

Automobile Fatalities

Deaths due to accidents in which moving automobiles were involved totaled 902 compared with 1,295 for 1937. The figures include 13 deaths due to motorcycle accidents and 22 deaths of bicyclists who were struck by automobiles, but are exclusive of 14 deaths due to the accidental inhalation of motor exhaust.

Analyzed the motor fatality data show the death of 449 pedestrians, which number is approximately 50 percent of the total. Slightly less than one-sixth of the pedestrians who died were children under 15 years of age. Seventeen percent of the drivers and occupants of automobiles who were killed were less than 20 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: 1938

Age	*Pedestrians struck by motor vehicles*		*Deaths from other motor vehicle accidents*		*Totals*	
	Residents	*Non-Residents*	*Residents*	*Non-Residents*	*Residents*	*Non-Residents*
Under 5 years	24	0	7	2	31	2
5 to 9	36	0	3	3	39	3
10 to 14	15	0	17	0	32	0
15 to 19	10	0	41	3	51	3
20 to 24	13	3	50	7	63	10
25 to 29	4	1	36	13	40	14
30 to 59	175	8	159	50	334	58
60 to 69	101	4	35	6	136	10
70 and over	53	2	18	3	71	5
Totals	431	18	366	87	797	105

Motor Vehicle Fatalities by Sex, Color and Type of Accident: 1938

	Males		*Females*	
	White	*Colored*	*White*	*Colored*
Pedestrians	323	36	84	6
Collision auto and train or engine	18	1	1	0
Collision auto and street car	0	0	0	0
Collision auto with stationary objects	76	3	15	4
Collision auto with another motor vehicle	130	13	63	4
Collision auto with bicycle	17	4	1	0
Motorcycle accidents	12	1	0	0
Other accidents	67	5	16	2
Total	643	63	180	16

Motor Vehicle Fatalities by Months of Death: 1938

January	88	July	85
February	62	August	87
March	70	September	73
April	65	October	77
May	65	November	68
June	66	December	96
		Total	902

TABLE 14—PERCENTAGE OF THE VARIOUS CAUSES OF TOTAL DEATHS AND EACH SEX OF TOTAL: NEW JERSEY—1938

Abridged International List Number	CAUSE OF DEATH	Percentage of Total	Males—Percentage of Total	Females—Percentage of Total
1	Typhoid and paratyphoid fever	..	45	55
2	Typhus fever	..	..	..
3	Smallpox	..	..	..
4	Measles	.1	35	65
5	Scarlet fever	..	58	42
6	Whooping cough	.1	50	50
7	Diphtheria	.1	55	45
8	Influenza	.5	50	50
9	Plague	..	..	..
10	Tuberculosis of the respiratory system	4.1	60	40
11	Other forms of tuberculosis	.4	46	54
12	Syphilis	.9	73	27
13	Malaria	..	..	100
14	Other infectious and parasitic diseases	.4	54	46
15	Cancer and other malignant tumors	13.1	47	53
16	Tumors, nonmalignant, or of which the nature is not specified	.6	38	62
17	Chronic rheumatism and gout	.1	25	75
18	Diabetes mellitus	2.9	32	68
19	Alcoholism (acute or chronic)	.2	84	16
20	Other general diseases and chronic poisonings	1.6	45	55
21	Progressive locomotor ataxia and general paralysis of the insane	.3	87	13
22	Cerebral hemorrhage, cerebral embolism and thrombosis	7.8	46	54
23	Other diseases of the nervous system and of the organs of special sense	1.1	59	41
24	Diseases of the heart	31.8	55	45
25	Other diseases of the circulatory system	1.9	51	49
26	Bronchitis	.3	60	40
27	Pneumonias	5.5	55	45
28	Other diseases of the respiratory system (tuberculosis excepted)	.7	60	40
29	Diarrhea and enteritis	.5	57	43
30	Appendicitis	1.0	60	40
31	Diseases of the liver and biliary passages	1.9	51	49
32	Other diseases of the digestive system	2.3	61	39
33	Nephritis	6.9	48	52
34	Other diseases of the genitourinary system	1.3	66	34
35	Puerperal septicemia	.2	..	100
36	Other diseases of pregnancy, childbirth and the puerperal state	.3	..	100
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	.2	49	51
38	Congenital debility and malformations, premature birth and other diseases of early infancy	3.2	54	46
39	Senility	.3	39	61
40	Suicide	1.5	72	28
41	Homicide	.3	56	44
42	Violent and accidental deaths (suicide and homicide excepted)	5.6	70	30
43	Cause of death not specified or ill-defined	..	64	36
	All causes	100.0	53.2	46.8

TABLE 15—DEATH RATES, TOTAL, WHITE AND COLORED, FROM IMPORTANT CAUSES, PER 100,000 TOTAL, WHITE AND COLORED POPULATION: NEW JERSEY—1938

Abridged International List Number	CAUSE OF DEATH	Total Deaths per 100,000 Estimated Population	White Deaths per 100,000 Estimated White Population	Colored Deaths per 100,000 Estimated Colored Population
1	Typhoid and paratyphoid fever	0.4	0.4	1.7
2	Typhus fever	...	..	...
3	Smallpox	...	..	...
4	Measles	0.7	0.7	0.4
5	Scarlet fever	0.2	0.3	...
6	Whooping cough	1.2	1.0	5.6
7	Diphtheria	0.7	0.7	0.8
8	Influenza	4.5	4.3	8.2
9	Plague	...	...	...
10	Tuberculosis of the respiratory system	40.6	34.1	160.6
11	Other forms of tuberculosis	3.6	2.7	20.7
12	Syphilis	8.9	5.9	63.6
13	Malaria	...	..	...
14	Other infectious and parasitic diseases	4.1	3.7	11.6
15	Cancer and other malignant tumors	130.4	131.1	119.0
16	Tumors, nonmalignant, or of which the nature is not specified	5.8	5.5	12.1
17	Chronic rheumatism and gout	1.1	1.2	1.2
18	Diabetes mellitus	28.9	28.8	32.0
19	Alcoholism (acute or chronic)	1.8	1.8	3.4
20	Other general diseases and chronic poisonings	16.0	15.9	19.9
21	Progressive locomotor ataxia and general paralysis of the insane	2.7	2.3	9.9
22	Cerebral hemorrhage, cerebral embolism and thrombosis	77.5	76.5	96.5
23	Other diseases of the nervous system and of the organs of special sense	10.5	10.3	14.7
24	Diseases of the heart	316.4	314.0	361.9
25	Other diseases of the circulatory system	19.1	19.2	17.7
26	Bronchitis	2.7	2.8	2.1
27	Pneumonias	54.2	50.4	125.1
28	Other diseases of the respiratory system (tuberculosis excepted)	6.9	6.6	12.1
29	Diarrhea and enteritis	4.9	4.6	9.9
30	Appendicitis	9.9	9.9	11.2
31	Diseases of the liver and biliary passages	19.2	19.7	11.6
32	Other diseases of the digestive system	22.7	22.3	30.7
33	Nephritis	68.7	67.2	97.4
34	Other diseases of the genitourinary system	12.7	12.4	19.0
35	Puerperal septicemia	1.5	1.3	5.1
36	Other diseases of pregnancy, childbirth and the puerperal state	2.7	2.7	3.4
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	2.0	1.9	4.3
38	Congenital debility and malformations, premature birth and other diseases of early infancy	32.0	30.3	63.6
39	Senility	3.3	3.4	2.5
40	Suicide	15.4	15.7	9.9
41	Homicide	2.7	1.9	18.6
42	Violent and accidental deaths (suicide and homicide excepted)	55.9	54.5	81.8
43	Cause of death not specified or ill-defined	0.4	0.4	1.2
	All causes	994.9	968.6	1472.7

TABLE 16—DEATHS (EXCLUSIVE OF STILLBIRTHS) BY CAUSES AND MONTHS OF DEATH: NEW JERSEY—1938

Abridged International List Number	CAUSE OF DEATH	Total	MONTH OF DEATH											
			January	February	March	April	May	June	July	August	September	October	November	December
1	Typhoid and paratyphoid fever	20	....	1	1	3	2	....	3	2	3	4	1	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	31	3	7	4	10	5	2	....	....	....	....	....	....
5	Scarlet fever	12	2	1	2	2	1	....	....	....	1	1	1	1
6	Whooping cough	54	5	4	5	4	4	1	3	3	7	9	3	6
7	Diphtheria	33	4	7	4	2	3	1	2	1	1	2	4	2
8	Influenza	200	26	25	37	24	12	13	5	7	6	15	14	16
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	1801	164	155	163	172	160	159	154	141	146	133	142	172
11	Other forms of tuberculosis	161	11	9	17	16	19	15	20	15	15	7	8	9
12	Syphilis	395	30	33	40	39	35	34	24	23	29	38	30	31
13	Malaria	1	....	....	....	....	....	....	....	1	....	....	....	....
14	Other infectious and parasitic diseases	182	13	18	20	18	18	17	17	14	11	10	13	7
15	Cancer and other malignant tumors	5776	515	433	488	473	528	480	481	457	498	505	454	458
16	Tumors, nonmalignant, or of which the nature is not specified	260	26	21	24	22	26	16	16	21	15	28	22	23
17	Chronic rheumatism and gout	53	6	5	8	2	8	3	2	2	3	7	4	3
18	Diabetes mellitus	1283	110	101	126	133	102	94	103	79	90	105	98	133
19	Alcoholism (acute or chronic)	82	9	7	4	5	13	9	6	7	8	6	2	6
20	Other general diseases and chronic poisonings	712	62	53	60	67	56	66	54	68	61	51	52	62
21	Progressive locomotor ataxia and general paralysis of the insane	121	8	14	10	14	9	12	8	14	6	10	9	7
22	Cerebral hemorrhage, cerebral embolism and thrombosis	3435	321	299	313	291	281	225	257	298	262	264	282	342
23	Other diseases of the nervous system and of the organs of special sense	466	52	42	35	46	35	30	43	33	36	37	32	39
24	Diseases of the heart	14010	1336	1161	1341	1306	1230	1019	974	1026	997	1200	1121	1299
25	Other diseases of the circulatory system	849	81	47	77	74	67	82	65	69	73	86	68	60
26	Bronchitis	121	11	8	20	12	17	8	6	2	3	9	11	14
27	Pneumonias	2402	325	316	352	280	198	126	85	85	105	154	144	232
28	Other diseases of the respiratory system (tuberculosis excepted)	306	30	41	28	20	33	24	29	18	23	13	14	24
29	Diarrhea and enteritis	217	22	22	15	20	16	15	12	30	18	17	17	13
30	Appendicitis	441	41	41	35	28	19	52	55	52	38	31	28	26
31	Diseases of the liver and biliary passages	854	71	64	76	68	68	91	75	67	71	66	78	59
32	Other diseases of the digestive system	1006	94	88	108	85	87	83	74	81	78	78	86	70
33	Nephritis	3043	300	249	334	292	271	224	218	205	201	245	253	251
34	Other diseases of the genitourinary system	565	50	49	58	44	51	43	40	61	48	51	39	31
35	Puerperal septicemia	68	4	5	7	4	9	2	5	3	6	13	5	5
36	Other diseases of pregnancy, childbirth and the puerperal state	123	11	13	8	13	7	10	8	18	10	8	8	9
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	89	6	9	9	9	7	9	7	8	5	10	5	5
38	Congenital debility and malformations, premature birth and other diseases of early infancy	1420	128	101	104	124	124	111	143	151	112	126	114	102
39	Senility	150	12	9	14	7	15	11	9	14	10	19	9	12
40	Suicide	682	64	41	68	62	60	65	62	56	44	60	40	51
41	Homicide	123	9	18	7	12	12	10	8	12	8	7	10	10
42	Violent and accidental deaths (suicide and homicide excepted)	2470	224	175	203	189	207	203	240	238	197	190	186	215
43	Cause of death not specified or ill-defined	22	....	2	....	1	4	3	2	1	2	1	2	4
	All causes	44045	4204	3694	4231	4002	3828	3380	3324	3363	3250	3616	3308	3749

TABLE 17—DEATHS (EXCLUSIVE OF STILLBIRTHS) FROM EACH CAUSE OF THE ABRIDGED INTERNATIONAL LIST, BY AGE, SEX, AND COLOR IN NEW JERSEY, 1938

	CAUSE OF DEATH, SEX, AND COLOR	AGE PERIODS—YEARS																								
		All deaths	Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 and over	Age unknown
	All causes	44045	2228	222	163	102	95	2810	373	334	560	745	874	971	1383	1891	2578	3351	3864	4035	5219	4916	4418	3015	1481	627	...
	Both sexes—White	40643	1936	182	139	95	87	2439	328	292	470	620	710	802	1139	1631	2295	3037	3594	4374	4933	4722	4288	2930	1433	594	...
	Both sexes—Colored	3402	292	40	24	7	8	371	45	42	90	125	158	169	244	260	283	314	270	261	286	194	130	79	48	33	...
	Males—White	21629	1063	101	72	48	52	1336	189	178	282	317	340	416	637	908	1387	1847	2000	2518	2950	2439	2033	1308	559	186	...
	Males—Colored	1788	171	22	13	3	3	212	20	25	38	51	76	92	125	147	143	181	141	131	160	115	92	38	15	11	...
	Females—White	19014	873	81	67	47	35	1103	139	114	188	303	367	386	502	723	908	1190	1594	1856	2283	2283	2255	1028	874	408	...
	Females—Colored	1614	121	18	11	4	5	159	25	17	52	74	82	77	119	113	140	133	129	130	126	79	68	41	33	22	...
1	Typhoid and paratyphoid fever—																										
	Total	20	....	....	1	....	....	1	1	4	2	5	1	2	1	1	....	1	....	1	....	....	....	....	....	....	...
	Males—White	7	....	....	1	....	....	1	....	....	1	2	....	1	....	1	....	1	....	....	....	....	....	....	....	....	...
	Males—Colored	2	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—White	9	....	....	....	....	....	....	....	3	....	3	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	...
	Females—Colored	2	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
2	Typhus fever—																										
	Total	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
3	Smallpox—																										
	Total	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
4	Measles—																										
	Total	31	8	3	5	1	1	18	11	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—White	10	1	1	3	....	....	5	3	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—Colored	1	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—White	20	6	2	2	1	1	12	8	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
5	Scarlet fever—																										
	Total	12	....	....	2	2	2	6	3	....	....	....	2	....	....	....	1	....	....	....	....	....	....	....	....	....	....	...
	Males—White	7	....	....	....	1	2	3	2	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	...
	Males—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—White	5	....	....	2	1	....	3	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
6	Whooping cough—																										
	Total	54	32	11	6	3	2	54	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—White	21	14	4	2	....	1	21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—Colored	6	4	1	....	1	....	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—White	20	11	5	3	....	1	20	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—Colored	7	3	1	1	2	....	7	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
7	Diphtheria—																										
	Total	33	2	2	3	5	5	17	9	1	....	....	1	....	1	1	....	1	....	2	....	....	....	....	....	....	....	...
	Males—White	18	2	1	1	4	2	10	6	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	...
	Males—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—White	13	....	1	2	1	2	6	3	....	....	....	....	....	1	1	....	1	....	1	....	....	....	....	....	....	....	...
	Females—Colored	2	....	....	....	....	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
8	Influenza—																										
	Total	200	13	4	6	3	....	26	8	4	3	7	7	5	5	4	15	11	21	11	19	11	18	11	11	3	...
	Males—White	89	9	3	3	1	....	16	5	2	....	2	2	3	4	1	5	6	8	7	7	5	7	3	4	2	...
	Males—Colored	10	....	1	1	....	....	2	....	1	....	....	....	1	....	....	1	2	....	1	....	1	1	....	....	....	....	...
	Females—White	92	3	....	1	2	....	6	2	1	2	5	5	1	1	3	8	3	11	3	10	5	10	8	7	1	...
	Females—Colored	9	1	....	1	....	....	2	1	....	1	....	....	....	....	....	1	....	2	....	2	....	....	1	....	....	....	...
9	Plague—																										
	Total	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Males—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
	Females—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
10	Tuberculosis of the respiratory system—																										
	Total	1801	3	5	2	1	1	12	9	14	79	175	192	185	173	173	168	169	143	132	84	60	25	5	3	....	...
	Males—White	891	....	1	....	....	....	1	2	6	13	48	63	68	80	95	115	116	88	87	45	40	15	2	1	....	...
	Males—Colored	186	1	2	2	1	1	7	2	1	6	16	21	24	25	24	18	19	10	4	4	3	....	....	....	....	...
	Females—White	539	1	....	....	....	....	1	....	2	30	70	86	67	46	37	28	29	42	36	30	15	9	3	2	....	...
	Females—Colored	185	1	2	....	....	....	3	5	5	30	35	22	26	16	17	7	5	3	5	5	....	1	....	....	....	...
11	Other forms of tuberculosis—																										
	Total	161	11	10	7	3	5	36	8	5	13	16	8	9	15	9	7	8	4	8	6	3	6	....	....	....	...
	Males—White	51	2	4	2	2	2	12	2	1	3	4	1	1	8	1	1	4	1	6	2	3	1	....	....	....	...
	Males—Colored	23	4	....	2	....	....	6	1	1	1	2	2	1	1	2	1	2	....	1	....	....	2	....	....	....	...
	Females—White	62	2	4	3	1	1	11	4	1	4	5	4	6	4	6	4	2	3	1	4	....	3	....	....	....	...
	Females—Colored	25	3	2	....	....	2	7	1	2	5	3	1	1	2	....	1	....	....	....	....	....	....	....	....	....	...

TABLE 17—DEATHS (EXCLUSIVE OF STILLBIRTHS) FROM EACH CAUSE OF THE ABRIDGED INTERNATIONAL LIST, BY AGE, SEX, AND COLOR IN NEW JERSEY, 1933—Continued

	CAUSE OF DEATH, SEX, AND COLOR	AGE PERIODS—YEARS																								
		All deaths	Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 and over	Age unknown
12	Syphilis—																									
	Total	395	20	....	1	....	....	21	....	2	3	6	8	23	26	39	43	47	61	49	35	24	4	1	2	1	....
	Males—White	183	3	....	....	....	....	3	....	2	....	2	2	6	9	16	17	24	38	30	18	12	3	....	1	....	....
	Males—Colored	104	8	....	....	....	....	8	....	....	1	....	4	11	12	14	11	9	10	8	9	6	....	....	1	....	....
	Females—White	65	7	....	....	....	....	7	....	....	1	1	2	1	3	5	6	9	10	7	7	5	1	....	....	....	....
	Females—Colored	43	2	....	1	....	....	3	....	....	1	3	....	5	2	4	9	5	3	4	1	1	....	1	....	1	....
13	Malaria—																										
	Total	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Males—White	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Males—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females—White	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases—																									
	Total	182	15	1	8	3	7	34	7	10	10	11	10	9	11	11	11	12	10	10	9	6	3	1	1	....	....
	Males—White	85	8	1	4	2	3	18	4	5	3	3	6	5	6	2	5	5	5	8	3	4	1	....	....	....	....
	Males—Colored	13	1	....	....	....	....	1	....	1	1	....	1	1	2	1	....	1	2	....	2	....	....	....	....	....	....	....
	Females—White	70	6	....	3	1	3	13	3	4	4	5	4	1	2	8	6	5	3	2	4	2	2	1	1	....	....
	Females—Colored	14	....	....	1	....	1	2	....	....	....	3	5	2	1	....	....	1	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors—																										
	Total	5776	....	2	2	2	....	6	10	7	14	20	44	78	165	275	442	561	731	832	803	725	529	309	103	29	....
	Males—White	2590	....	1	1	....	....	2	3	3	8	7	15	21	50	80	173	241	337	410	456	350	248	138	38	10	....
	Males—Colored	117	....	....	....	....	....	....	2	....	1	2	3	2	4	8	10	20	20	10	15	8	5	2	2	3	....
	Females—White	2911	....	1	1	2	....	4	3	4	4	9	24	47	97	175	236	286	357	394	408	336	265	167	61	14	....
	Females—Colored	158	....	....	....	....	....	....	2	....	1	2	2	8	14	12	23	14	20	18	14	11	11	2	2	2	....
16	Tumors, nonmalignant, or of which the nature is not specified—																										
	Total	200	....	1	....	2	1	4	9	4	5	12	8	14	25	42	41	20	17	15	13	8	8	....	5	1	....
	Males—White	93	....	1	....	1	....	2	4	3	3	7	2	4	10	6	15	12	6	7	5	2	3	....	2	....	....
	Males—Colored	6	....	....	....	....	....	....	2	....	....	1	....	1	....	2	....	....	....	....	....	....	....	....	....	....	....	....
	Females—White	139	....	....	....	1	1	2	3	1	2	3	4	9	9	29	23	15	9	8	7	6	5	....	3	1	....
	Females—Colored	22	....	....	....	....	....	....	....	....	....	1	2	....	6	5	3	2	2	....	1	....	....	....	....	....	....	....
17	Chronic rheumatism and gout—																										
	Total	53	....	....	....	....	....	....	....	....	....	1	....	....	2	1	2	5	5	5	6	7	9	9	....	1	....
	Males—White	12	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	....	2	1	1	1	4	....	....	....	....
	Males—Colored	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females—White	38	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
	Females—Colored	2	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	3	3	3	5	6	5	9	....	1	....
18	Diabetes mellitus—																	2									
	Total	1283	....	1	1	....	....	2	2	6	7	2	7	7	6	20	58	106	178	200	262	211	141	52	15	5	....
	Males—White	394	....	1	1	....	....	2	....	3	2	2	3	3	1	11	13	20	57	59	76	69	53	12	2	....	....
	Males—Colored	18	....	....	....	....	2	....	....	....	....	....	....	....	....	....	3	4	2	4	3	1	1	....	....	....	....
	Females—White	815	....	....	....	....	....	....	....	2	5	....	4	2	4	14	33	60	104	133	173	134	85	39	11	4	....
	Females—Colored	56	....	....	....	....	....	....	....	1	....	....	....	2	1	1	4	7	12	7	10	7	2	1	....	1	....
19	Alcoholism (acute or chronic)—																										
	Total	82	....	....	....	....	....	....	....	....	....	....	3	4	12	12	16	13	13	7	1	1	....	....	....	....	....
	Males—White	62	....	....	....	....	....	....	....	....	....	....	1	3	9	9	14	11	11	3	1	....	....	....	....	....	....
	Males—Colored	7	....	....	....	....	....	....	....	....	....	....	....	1	1	3	....	....	2	....	....	....	....	....	....	....	....
	Females—White	12	....	....	....	....	....	....	....	....	....	....	1	....	2	....	2	2	....	4	....	1	....	....	....	....	....
	Females—Colored	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings—																										
	Total	712	61	6	6	5	8	86	40	29	41	26	29	35	30	54	50	42	55	67	41	41	26	17	2	1	....
	Males—White	300	20	3	1	1	4	38	22	15	21	8	14	16	12	15	10	18	26	27	13	18	11	5	2	....	....
	Males—Colored	19	4	1	....	....	....	5	....	1	1	....	3	1	2	1	2	1	1	1	....	....	....	....	....	....	....
	Females—White	366	25	2	4	4	4	39	15	10	17	18	12	17	15	33	27	22	27	36	27	23	15	12	....	1	....
	Females—Colored	27	3	....	1	....	....	4	3	3	2	....	....	1	1	5	2	1	1	3	1	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane—																										
	Total	121	....	....	....	....	....	....	1	....	2	4	2	4	9	14	10	14	19	16	15	4	5	....	2	....	....
	Males—White	83	....	....	....	....	....	....	1	....	2	2	1	1	5	10	7	7	17	13	11	3	3	....	....	....	....
	Males—Colored	22	....	....	....	....	....	....	....	....	....	....	....	2	4	3	3	3	1	2	3	1	....	....	....	....	....
	Females—White	15	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	Females—Colored	1	....	....	....	....	....	....	....	....	....	2	1	1	....	1	....	3	1	1	1	....	2	....	2	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis—																	1									
	Total	3485	1	....	2	1	....	4	1	2	2	8	14	14	39	77	125	230	309	403	543	548	543	338	167	68	....
	Males—White	1470	1	....	1	1	....	3	....	....	1	5	7	4	17	26	55	96	147	186	241	246	236	133	50	17	....
	Males—Colored	102	....	....	1	....	....	1	....	....	....	....	1	1	5	4	9	14	13	12	15	10	12	4	1	....	....
	Females—White	1742	....	....	....	....	....	....	1	1	1	3	5	8	13	43	54	102	134	187	270	282	284	194	110	50	....
	Females—Colored	121	....	....	....	....	....	....	....	1	....	....	1	1	4	4	7	18	15	18	17	10	11	7	6	1	....
23	Other diseases of the nervous system and of the organs of special sense—																										
	Total	466	28	8	7	5	4	52	29	20	22	17	26	23	33	22	34	28	28	20	37	32	21	10	5	1	....
	Males—White	256	18	3	4	1	1	27	19	12	13	7	13	13	16	14	13	14	12	15	24	22	13	5	2	....	....
	Males—Colored	19	1	2	1	....	....	4	....	1	1	2	1	1	3	2	2	....	1	....	1	....	....	....	....	....	....
	Females—White	176	9	2	1	4	3	19	9	7	7	7	8	8	14	5	16	13	15	10	12	10	8	4	3	1	....
	Females—Colored	15	....	1	1	....	....	2	1	....	1	1	4	1	....	1	1	1	....	1	....	....	....	1	....	....	....

TABLE 17—DEATHS (EXCLUSIVE OF STILLBIRTHS) FROM EACH CAUSE OF THE ABRIDGED INTERNATIONAL LIST, BY AGE, SEX, AND COLOR IN NEW JERSEY, 1938—Continued

	CAUSE OF DEATH, SEX, AND COLOR	AGE PERIODS—YEARS																									
		All deaths	Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 and over	Age unknown
24	Diseases of the heart—																										
	Total	14010	4	....	3	4	3	14	24	49	82	95	104	133	248	409	725	1084	1265	1636	1951	2063	1859	1330	670	260	...
	Males—White	7281	2	....	1	1	2	6	12	20	42	48	47	68	115	220	436	682	748	952	1047	1047	863	586	260	73	...
	Males—Colored	413	....	....	....	....	....	....	....	3	1	3	6	9	17	36	32	42	41	45	61	55	31	19	8	4	...
	Females—White	5803	2	....	2	3	1	8	12	25	36	38	42	48	93	118	213	312	427	630	791	924	945	703	386	182	...
	Females—Colored	423	....	....	....	....	....	....	....	1	3	6	9	8	23	20	44	48	49	49	52	37	20	22	16	10	...
25	Other diseases of the circulatory system—																										
	Total	849	3	1	....	....	....	4	1	....	....	6	6	10	8	12	30	33	47	64	87	100	135	152	103	51	...
	Males—White	410	2	1	....	....	....	3	....	....	....	3	3	6	6	3	21	10	25	30	43	50	61	72	39	20	...
	Males—Colored	20	....	....	....	....	....	....	....	....	....	....	1	....	1	2	2	3	1	5	3	5	....	1	....	2	...
	Females—White	398	1	....	....	....	....	1	1	....	....	2	2	4	1	4	6	11	21	27	38	39	71	79	62	29	...
	Females—Colored	15	....	....	....	....	....	....	....	....	....	1	....	....	....	3	1	....	....	2	3	....	3	....	2	....	...
26	Bronchitis—																										
	Total	121	7	3	2	....	....	12	2	1	1	3	1	3	1	5	4	7	4	13	15	11	9	18	7	4	...
	Males—White	67	6	2	1	....	....	9	....	1	....	....	1	1	1	2	4	6	2	10	9	5	1	8	6	1	...
	Males—Colored	5	....	....	1	....	....	1	2	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	...
	Females—White	49	1	1	....	....	....	2	....	....	1	2	....	2	....	3	....	1	2	3	6	6	7	10	1	3	...
	Females—Colored	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	...
27	Pneumonias—																										
	Total	2402	306	87	46	21	15	535	33	30	34	39	50	75	83	113	136	121	164	192	204	198	180	140	55	41	...
	Males—White	1128	153	34	22	13	7	231	10	13	14	10	20	32	35	61	73	74	92	106	105	74	88	54	20	13	...
	Males—Colored	183	41	10	3	1	1	56	5	1	6	8	11	8	10	10	19	12	6	9	11	5	1	4	1	....	...
	Females—White	985	1440	32	20	6	6	204	16	16	13	19	15	29	28	33	32	33	60	77	86	88	95	81	33	27	...
	Females—Colored	106	30	11	1	1	1	44	2	....	1	2	4	5	10	9	10	2	6	....	2	1	5	1	1	1	...
28	Other diseases of the respiratory system (tuberculosis excepted)—																										
	Total	306	20	10	1	2	1	34	7	5	11	7	11	9	17	19	21	32	25	31	17	20	16	12	5	7	...
	Males—White	167	6	5	....	1	....	12	3	4	8	2	2	4	9	11	18	17	17	21	9	12	9	6	2	1	...
	Males—Colored	18	4	....	....	....	....	4	....	....	....	....	2	....	4	1	....	2	2	1	2	....	....	....	....	....	....	...
	Females—White	111	8	5	1	1	1	16	4	1	3	4	7	5	3	6	3	10	6	8	6	7	7	6	3	6	...
	Females—Colored	10	2	....	....	....	....	2	....	....	....	1	....	....	1	1	....	3	....	1	....	1	....	....	....	....	....	...
29	Diarrhea and enteritis—																										
	Total	217	119	14	4	6	1	144	4	2	5	6	6	2	6	7	1	4	4	8	8	1	4	1	2	2	...
	Males—White	105	57	7	3	2	1	70	1	1	4	2	2	1	2	4	1	2	2	3	4	1	2	1	1	1	...
	Males—Colored	18	12	3	....	....	....	15	....	....	....	....	....	....	....	....	....	1	....	....	2	....	....	....	....	....	....	...
	Females—White	89	48	4	1	4	....	57	2	1	1	4	4	1	4	3	....	1	2	3	2	....	2	....	1	1	...
	Females—Colored	5	2	....	....	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	...
30	Appendicitis—																										
	Total	441	....	3	10	7	7	27	22	23	32	20	29	19	32	38	36	48	23	42	20	12	9	3	3	1	...
	Males—White	250	....	2	8	4	5	19	12	12	19	13	16	9	14	29	23	24	15	23	11	5	3	2	1	....	...
	Males—Colored	11	....	....	....	....	....	....	1	....	1	1	3	....	2	1	1	2	1	1	1	....	....	....	....	....	....	...
	Females—White	165	....	1	2	3	2	8	9	12	13	5	8	8	14	7	11	21	7	17	8	7	6	1	2	1	...
	Females—Colored	12	....	....	....	....	....	....	1	....	....	1	2	2	2	1	1	1	....	1	....	....	....	....	....	....	....	...
31	Diseases of the liver and biliary passages—																										
	Total	854	4	1	1	....	....	6	2	2	2	5	10	23	37	73	74	119	107	128	80	92	56	22	14	2	...
	Males—White	422	2	....	....	....	....	2	....	2	1	1	2	10	15	28	43	61	53	70	45	49	26	8	5	1	...
	Males—Colored	14	....	....	....	....	....	....	....	....	....	....	....	....	2	1	1	5	....	....	2	3	....	....	....	....	....	...
	Females—White	405	2	1	1	....	....	4	2	....	1	4	6	13	18	43	30	50	53	57	33	38	29	14	9	1	...
	Females—Colored	13	....	....	....	....	....	....	....	....	....	....	2	....	2	1	....	3	1	1	....	2	1	....	....	....	....	...
32	Other diseases of the digestive system—																										
	Total	1006	39	15	4	4	4	66	26	9	12	12	20	28	45	60	93	101	121	106	97	68	72	55	18	5	...
	Males—White	571	20	9	....	3	2	34	13	5	4	5	9	16	20	36	56	56	74	74	68	33	27	22	13	....	...
	Males—Colored	39	2	....	....	....	....	2	....	....	1	1	1	5	1	6	6	6	5	3	....	1	....	1	....	....	....	...
	Females—White	364	14	6	3	1	2	26	10	4	7	5	14	5	13	22	26	39	39	27	29	33	45	12	4	4	...
	Females—Colored	32	3	....	1	....	....	4	3	....	....	1	2	2	5	2	5	....	3	2	....	1	....	....	1	1	...
33	Nephritis—																										
	Total	3043	....	2	4	2	3	11	6	11	20	10	32	35	63	99	152	199	215	314	448	425	458	330	155	57	...
	Males—White	1361	....	1	1	....	3	5	1	6	5	7	15	17	21	42	70	100	103	152	201	198	189	151	58	20	...
	Males—Colored	93	....	....	....	....	....	....	1	....	2	1	....	2	5	6	9	9	11	7	19	8	6	6	1	....	...
	Females—White	1457	....	1	2	1	....	4	3	4	12	7	12	12	24	41	57	72	92	144	214	212	252	168	92	35	...
	Females—Colored	132	....	....	1	1	....	2	1	1	1	1	5	4	13	10	16	15	9	11	14	7	11	5	4	2	...
34	Other diseases of the genitourinary system—																										
	Total	505	3	....	....	....	1	4	2	1	3	14	20	20	24	29	35	36	37	52	85	71	74	38	15	5	...
	Males—White	349	2	....	....	....	1	3	2	1	....	1	4	3	3	7	9	13	25	37	66	56	68	33	14	4	...
	Males—Colored	24	....	....	....	....	....	....	....	....	....	....	2	1	....	2	2	4	2	4	4	2	1	....	....	....	....	...
	Females—White	172	1	....	....	....	....	1	....	....	3	10	11	16	16	17	22	18	10	9	14	13	5	5	1	1	...
	Females—Colored	20	....	....	....	....	....	....	....	....	....	3	3	....	5	3	2	1	....	2	1	....	....	....	....	....	....	...
35	Puerperal septicemia—																										
	Total	68	....	....	....	....	....	....	....	....	1	12	28	15	8	4	....	....	....	....	....	....	....	....	....	....	....	...
	Females—White	56	....	....	....	....	....	....	....	....	1	11	22	12	7	3	....	....	....	....	....	....	....	....	....	....	....	...
	Females—Colored	12	....	....	....	....	....	....	....	....	....	1	6	3	1	1	....	....	....	....	....	....	....	....	....	....	....	...

TABLE 17—DEATHS (EXCLUSIVE OF STILLBIRTHS) FROM EACH CAUSE OF THE ABRIDGED INTERNATIONAL LIST, BY AGE, SEX, AND COLOR IN NEW JERSEY, 1938—Continued

	CAUSE OF DEATH, SEX, AND COLOR	AGE PERIODS—YEARS																							
		All deaths	Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 and over	Age unknown
36	Other diseases of pregnancy, childbirth and the puerperal state—																									
	Total	123									1	16	32	32	24	17	1									
	Females—White	115										14	30	31	22	17	1									
	Females—Colored	8									1	2	2	1	2											
37	Diseases of the skin and cellular tissue and of the bones and organs of locomotion—																									
	Total	80	11					11	4	6	7	2	4	4	6	1	5	6	5	8	3	7	3	5	2	
	Males—White	40	2					2	2	3	4	1	1	3	4	1	2	3	2	3	2	4	2		1	
	Males—Colored	4	1					1				1						1		1						
	Females—White	30	7					7	1	2	3		2	1	2		3	2	2	3	1	3	1	5	1	
	Females—Colored	6	1					1	1	1			1						1	1						
38	Congenital debility and malformations, premature birth and other diseases of early infancy—																									
	Total	1420	1395	9	8	3	2	1417	3																	
	Males—White	695	687	1	3	2	1	694	1																	
	Males—Colored	78	78					78																		
	Females—White	578	563	7	4	1	1	576	2																	
	Females—Colored	69	67	1	1			69																		
39	Senility—																									
	Total	150																	3	6	16	23	33	34	35	
	Males—White	56																		1	10	9	12	11	13	
	Males—Colored	2																	1	1					1	
	Females—White	88																	2	3	6	14	20	23	20	
	Females—Colored	3																		1			1		1	
40	Suicide—																									
	Total	632									12	23	41	46	52	83	77	76	95	60	44	37	24	9	3	
	Males—White	479									8	17	28	30	32	58	51	57	65	44	32	30	19	6	2	
	Males—Colored	15									1	1		3		1	2	3	1	1	1	1				
	Females—White	130									2	5	10	11	20	22	24	16	29	15	11	6	5	3	1	
	Females—Colored	8									1		3	2		2										
41	Homicide—																									
	Total	123	7	1	1		1	10	1	2	6	23	7	18	18	10	8	5	1	6	4	3	1			
	Males—White	40	3					3		1	1	4	2	4	7	5	3	2		4	3	1				
	Males—Colored	20	3					3		1	1	3	3	6	4	3		2		2			1			
	Females—White	40	1	1	1		1	4			4	13		6	3	1	4	1	1		1	2				
	Females—Colored	14							1			3	2	2	4	1	1									
42	Violent and accidental deaths (suicide and homicide excepted)—																									
	Total	2476	53	21	20	17	21	132	88	82	127	135	97	87	157	145	159	203	154	187	182	140	148	134	81	38
	Males—White	1573	30	15	9	8	15	77	59	56	99	104	65	62	113	103	116	145	111	131	97	82	68	49	24	10
	Males—Colored	150	6	2	2		1	11	8	12	14	8	11	10	20	14	9	13	9	5	3	3		1	1	1
	Females—White	714	15	4	8	9	5	41	23	13	11	21	19	14	20	22	32	42	32	47	82	54	77	84	55	25
	Females—Colored	39	2		1			3	1	1	3	2	2	1	4	4	2	3	2	4		1	3		1	2
43	Cause of death not specified or ill-defined—																									
	Total	22	3	1				4					2		1		3	3	3	1	4	1				
	Males—White	13	2					2									2	2	1	1	4	1				
	Males—Colored	1																1								
	Females—White	6		1				1					1		1		1		2							
	Females—Colored	2	1					1					1													

TABLE 18.—DEATHS (exclusive of stillbirths) BY CAUSES, BY DAYS, WEEKS AND MONTHS OF THE FIRST YEAR OF LIFE, IN NEW JERSEY—1938

Abridged International List Number	CAUSE OF DEATH	AGE UNDER 1 YEAR, IN COMPLETED DAYS, WEEKS AND MONTHS														
			DAYS				WEEKS				MONTHS					
		Under 1 Year	Under 1	One	Two	3 to 6	Under 1	One	Two	Three	Under 1	One	Two	3 to 5	6 to 8	9 to 11
	All causes	2228	672	192	117	170	1151	101	72	41	1795	152	120	282	176	133
1	Typhoid and paratyphoid fever															
2	Typhus fever															
3	Smallpox															
4	Measles	8											2	1	2	3
5	Scarlet fever															
6	Whooping cough	32										7	5	11	7	2
7	Diphtheria	2												2		
8	Influenza	13											2	5	3	3
9	Plague															
10	Tuberculosis of the respiratory system	3													1	2
11	Other forms of tuberculosis	11												2	4	5
12	Syphilis	20	3	1		3	7	1			8	2	5	4	1	
13	Malaria															
14	Other infectious and parasitic diseases	15				1	1		1	1	3	4		2	2	4
15	Cancer and other malignant tumors															
16	Tumors, nonmalignant, or of which the nature is not specified															
17	Chronic rheumatism and gout															
18	Diabetes mellitus															
19	Alcoholism (acute or chronic)															
20	Other general diseases and chronic poisonings	61	5	6	1	2	14	3	3	2	22	7	7	18	3	4
21	Progressive locomotor ataxia and general paralysis of the insane															
22	Cerebral hemorrhage, cerebral embolism and thrombosis	1														1
23	Other diseases of the nervous system and of the organs of special sense	28		1	1	1	3		1		4	1	2	6	7	8
24	Diseases of the heart	4										2		2		
25	Other diseases of the circulatory system	3							1		1			1	1	
26	Bronchitis	7										1		4	2	
27	Pneumonias	366	1	2	1	5	9	8	10	9	42	34	52	93	86	59
28	Other diseases of the respiratory system, (tuberculosis excepted)	20				1	1			1	2	2	2	7	3	4
29	Diarrhea and enteritis	119		1		2	3	1	3	5	12	14	13	42	21	17
30	Appendicitis															
31	Diseases of the liver and biliary passages	4								1	1	1		2		
32	Other diseases of the digestive system	39				2	2		2	1	5	9	2	12	7	4
33	Nephritis															
34	Other diseases of the genitourinary system	3								1	1		1	1		
35	Puerperal septicemia															
36	Other diseases of pregnancy, childbirth and the puerperal state															
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	11							1		1	3		5	1	1
38	Congenital debility and malformations, premature birth and other diseases of early infancy	1395	658	178	113	151	1100	88	41	19	1248	50	23	45	15	8
39	Senility															
40	Suicide															
41	Homicide	7	4	2			6				6					1
42	Violent and accidental deaths (suicide and homicide excepted)	53	1	1	1	1	4		3	1	8	9	4	16	9	7
43	Cause of death not specified or ill-defined	3				1	1				1			1	1	

TABLE 19.—DEATHS (exclusive of stillbirths) UNDER ONE YEAR OF AGE, BY CAUSES AND MONTHS OF DEATH, IN NEW JERSEY—1938

Abridged International List Number	CAUSE OF DEATH	Total	MONTH OF DEATH											
			January	February	March	April	May	June	July	August	September	October	November	December
	All causes	2228	219	191	211	202	203	161	185	174	159	182	168	173
1	Typhoid and paratyphoid fever													
2	Typhus fever													
3	Smallpox													
4	Measles	8	2	1	1	2	2							
5	Scarlet fever													
6	Whooping cough	32	5	2	4	2	2	1		1	5	6	2	2
7	Diphtheria	2		2										
8	Influenza	13	1		3					1	1	2	2	3
9	Plague													
10	Tuberculosis of the respiratory system	3	1						1					1
11	Other forms of tuberculosis	11		1	1	1	1	2	1	1	2			1
12	Syphilis	20	1		3		6			2	2	1	2	3
13	Malaria													
14	Other infectious and parasitic diseases	15	4	1	1	1	1	1	1		1	2	2	
15	Cancer and other malignant tumors													
16	Tumors, nonmalignant, or of which the nature is not specified													
17	Chronic rheumatism and gout													
18	Diabetes mellitus													
19	Alcoholism (acute or chronic)													
20	Other general diseases and chronic poisonings	61	11	5	4	2	2	7	4	5	6	6	1	8
21	Progressive locomotor ataxia and general paralysis of the insane													
22	Cerebral hemorrhage, cerebral embolism and thrombosis	1								1				
23	Other diseases of the nervous system and of the organs of special sense	28	1	5	4	2	3	3		2	2	3	2	1
24	Diseases of the heart	4		1			1	1						1
25	Other diseases of the circulatory system	3		1		1	1							
26	Bronchitis	7			2	1	1		1				1	1
27	Pneumonias	366	44	43	60	43	37	21	10	6	14	21	27	34
28	Other diseases of the respiratory system (tuberculosis excepted)	20	1	3	5	2	2	1	1		2		2	1
29	Diarrhea and enteritis	119	12	12	10	11	8	10	5	17	9	9	10	6
30	Appendicitis													
31	Diseases of the liver and biliary passages	4	2				1					1		
32	Other diseases of the digestive system	39	3	5	5	5	2	2	4	1	1	4	3	4
33	Nephritis													
34	Other diseases of the genitourinary system	3	1			1	1							
35	Puerperal septicemia													
36	Other diseases of pregnancy, childbirth and the puerperal state													
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	11		1		4	3		2					1
38	Congenital debility and malformations, premature birth and other diseases of early infancy	1305	125	101	103	119	124	109	142	120	110	122	111	100
39	Senility													
40	Suicide													
41	Homicide	7	1	1		1	2	1		1				
42	Violent and accidental deaths (suicide and homicide excepted)	53	4	5	5	4	2	2	7	7	3	5	3	6
43	Cause of death not specified or ill-defined	3		1			1				1			

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938

	State Total	Atlantic County	Atlantic City	Hammonton	Pleasantville	Bergen County	Bergenfield	Cliffside Park	Englewood	Fairview	Fort Lee	Garfield	Hackensack
1. Typhoid fever	18	2	1	1		2							1
2. Paratyphoid fever	2												
3. Typhus fever													
4. Relapsing fever													
5. Undulant fever													
6. Smallpox													
7. Measles	31	1		1		6						2	1
8. Scarlet fever	12	1	1										
9. Whooping cough	54	1		1									
10. Diphtheria	33	2		1	1	2		1				1	
11. Influenza	200	3	2		1	9						1	
12. Cholera													
13. Dysentery	10												
14. Plague													
15. Erysipelas	20												
16. Acute poliomyelitis and acute polioencephalitis	10												
17. Lethargic or epidemic encephalitis	28	1	1			5							
18. Epidemic cerebrospinal meningitis	22					2							
19. Glanders													
20. Anthrax (bacillus anthracis) malignant pustule													
21. Rabies	2												
22. Tetanus	11	1		1									
23. Tuberculosis of the respiratory system	1801	73	47	5	7	138	1	5	6	4	1	9	18
24. Tuberculosis of the meninges and central nervous system	46	2	2			2			1				
25. Tuberculosis of the intestines and peritoneum	27					1		1					
26. Tuberculosis of the vertebral column	11												
27. Tuberculosis of the bones and joints	8	1	1										
28. Tuberculosis of the skin and subcutaneous cellular tissue	1												
29. Tuberculosis of the lymphatic system	9												
30. Tuberculosis of the genitourinary system	4					1							
31. Tuberculosis of other organs	49	2	1		1	3			1			1	1
32. Disseminated tuberculosis													
33. Leprosy	395	23	20			25	1		4		3		4
34. Syphilis	20					2			1				1
35. Gonococcus infection and other venereal diseases	32					3		1					
36. Purulent infection, septicemia													
37. Yellow fever	1												
38. Malaria													
39. Other diseases due to protozoal parasites	1												
40. Ankylostomiasis													
41. Hydatid cysts	1												
42. Other diseases caused by helminths													
43. Mycoses	1												
44. Other infectious and parasitic diseases	6												
45. Cancer and other malignant tumors of the buccal cavity and pharynx	19	1		1		2		1					
46. Cancer and other malignant tumors of the digestive tract and peritoneum	195	9	6	1	1	16					1	1	1
47. Cancer and other malignant tumors of the respiratory system	2873	101	50	5	5	248	6	10	14	2	4	11	11
48. Cancer and other malignant tumors of the uterus	372	7	5	1	1	31	1	1	3		1	1	3
49. Cancer and other malignant tumors of other female genital organs	330	29	17	4	4	44	2	1	3			3	3
50. Cancer and other malignant tumors of the breast	177	7	3		1	24	1	1		1		1	4
51. Cancer and other malignant tumors of the male genitourinary organs	575	20	11	3		68	2	3	2		1	4	4
52. Cancer and other malignant tumors of the skin	477	13	8	1	2	42	2		2	1	1	2	2
53. Cancer and other malignant tumors of other or unspecified organs	87	4	2	1		5			1		1		1
	490	19	10		3	44			1		1	3	3

	Lodi	North Arlington	Ridgefield Park	Ridgewood	Rutherford	Wallington	Burlington County	Bordentown	Burlington City	Camden County	Audubon	Camden City	Collingswood	Gloucester City	Haddonfield	Cape May County	Cumberland County	Bridgeton	Millville	Vineland	Essex County	Belleville
1. Typhoid fever					1		1														5	
2. Paratyphoid fever																						
3. Typhus fever																						
4. Relapsing fever																						
5. Undulant fever																						
6. Smallpox																						
7. Measles			1				1			3		2					2	1				
8. Scarlet fever							1														1	
9. Whooping cough							2			3		3					2				16	
10. Diphtheria							1			2		2									4	1
11. Influenza		1			1		6	2		21	1	14		1	1	3	8	2	1	1	32	1
12. Cholera										1		1									1	
13. Dysentery																						
14. Plague							1			4		3									2	
15. Erysipelas																						
16. Acute poliomyelitis and acute polioencephalitis																					2	
17. Lethargic or epidemic encephalitis																						
18. Epidemic cerebrospinal meningitis		1								3		2			1		3				1	
19. Glanders																	2		1		5	
20. Anthrax (bacillus anthracis) malignant pustule																						
21. Rabies																						
22. Tetanus																					1	
23. Tuberculosis of the respiratory system	2	3	6	5	8	6	39	4	6	100	2	57	2	5	4	10	32	9	5	2	443	6
24. Tuberculosis of the meninges and central nervous system										2				1			2			1	11	
25. Tuberculosis of the intestines and peritoneum										5		1	1								10	
26. Tuberculosis of the vertebral column										2											6	
27. Tuberculosis of the bones and joints																					1	
28. Tuberculosis of the skin and subcutaneous cellular tissue																						
29. Tuberculosis of the lymphatic system																						
30. Tuberculosis of the genitourinary system										3		2	1								3	
31. Tuberculosis of other organs																					1	
32. Disseminated tuberculosis										3		1	1				3		3		13	
33. Leprosy																						
34. Syphilis	1	1	2		1		9	1		24		18	1	1		6	8	4	1	1	89	2
35. Gonococcus infection and other venereal diseases										2		2									5	1
36. Purulent infection, septicemia		1								3		1		1	1		2	1			3	
37. Yellow fever																						
38. Malaria																						
39. Other diseases due to protozoal parasites																						
40. Ankylostomiasis																						
41. Hydatid cysts										1												
42. Other diseases caused by helminths																						
43. Mycoses																						
44. Other infectious and parasitic diseases							1														1	
45. Cancer and other malignant tumors of the buccal cavity and pharynx		1					1			1							2	1			2	
46. Cancer and other malignant tumors of the digestive tract and peritoneum				1	1		2			12		6		1		1	6	1	1		40	
47. Cancer and other malignant tumors of the respiratory system	4	6	11	11	10	5	83	6	10	164	3	78	7	12	5	25	40	9	8	6	594	10
48. Cancer and other malignant tumors of the uterus	2		1	2		1	4			21	1	9			1	1	1		1		89	1
49. Cancer and other malignant tumors of other female genital organs		2	3	2	3		27	1	4	37	4	17	1	3	2	6	20	3	5	2	104	2
50. Cancer and other malignant tumors of the breast			1				5		2	9		2	1		1	2	2			1	38	1
51. Cancer and other malignant tumors of the male genitourinary organs	2	1	3	5	3		16	1	1	41	2	14	5	4	3	1	7	2	1		131	3
52. Cancer and other malignant tumors of the skin		1	2		2	1	12	1	2	35	3	17		2		9	9	3	1	1	101	3
53. Cancer and other malignant tumors of other or unspecified organs			1				4			12	1	9					4	3	1		14	
		3	2	2	5	1	13		3	30	4	11	5	1	1	1	10	5	2		130	7

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

	Bloomfield	East Orange	Irvington	Montclair	Newark	Nutley	Orange	South Orange	West Orange	Gloucester County	Woodbury
1. Typhoid fever					2	1			1		
2. Paratyphoid fever											
3. Typhus fever											
4. Relapsing fever											
5. Undulant fever											
6. Smallpox											
7. Measles										1	
8. Scarlet fever					1					1	
9. Whooping cough	1				7	1	2	1	3	2	
10. Diphtheria					2					3	
11. Influenza	4	1	1		18	2	1	1	1	7	1
12. Cholera											
13. Dysentery					1						
14. Plague											
15. Erysipelas					2						
16. Acute poliomyelitis and acute polioencephalitis					1		1			1	1
17. Lethargic or epidemic encephalitis					1						
18. Epidemic cerebrospinal meningitis					4	1					
19. Glanders											
20. Anthrax (bacillus anthracis) malignant pustule											
21. Rabies	1										
22. Tetanus					1					2	
23. Tuberculosis of the respiratory system	12	26	20	16	300	11	18	5	9	30	2
24. Tuberculosis of the meninges and central nervous system					8	1	1		1	2	
25. Tuberculosis of the intestines and peritoneum		1	1		7	1					
26. Tuberculosis of the vertebral column		1			4						
27. Tuberculosis of the bones and joints							1				
28. Tuberculosis of the skin and subcutaneous cellular tissue											
29. Tuberculosis of the lymphatic system											
30. Tuberculosis of the genitourinary system				1					1		
31. Tuberculosis of other organs					1						
32. Disseminated tuberculosis		1		3	9						
33. Leprosy											
34. Syphilis	2	6	4	1	67	2	1		1	5	
35. Gonococcus infection and other venereal diseases		1		1	2						
36. Purulent infection, septicemia		1			2						
37. Yellow fever											
38. Malaria											
39. Other diseases due to protozoal parasites											
40. Ankylostomiasis											
41. Hydatid cysts											
42. Other diseases caused by helminths											
43. Mycoses					1						
44. Other infectious and parasitic diseases					2					2	
45. Cancer and other malignant tumors of the buccal cavity and pharynx	1	1	4	2	22	2	1		2	2	
46. Cancer and other malignant tumors of the digestive tract and peritoneum	19	58	49	32	298	8	24	13	17	62	7
47. Cancer and other malignant tumors of the respiratory system	5	2	5	1	63	2	3	1	1	5	
48. Cancer and other malignant tumors of the uterus	2	18	4	1	54	1	13			12	2
49. Cancer and other malignant tumors of other female genital organs	1	7	3	6	19				1	2	
50. Cancer and other malignant tumors of the breast	7	14	10	10	57	2	2	5	8	10	1
51. Cancer and other malignant tumors of the male genitourinary organs	4	15	9	5	48		4	1	5	3	
52. Cancer and other malignant tumors of the skin	2	2			7			1	2	1	
53. Cancer and other malignant tumors of other or unspecified organs	2	11	7	6	65	3	9	6	3	7	2

	Bayonne	Guttenberg	Harrison	Hoboken	Jersey City	Kearny	Secaucus	Union City	West New York	Hunterdon County	Lambertville	Mercer County	Princeton	Trenton	Middlesex County	Carteret	Highland Park	New Brunswick	Perth Amboy	Sayreville	South Amboy
5					4				1			1		1	1				1		
1					1																
8	1				5		1	1				1		1	2			1			
1				1					1			2		1	1	1					
7		2	1	4					2			2		1	1				1		
14	4		1	7	1			1				1		1	2						
28	2	1	1	15	2		1	4				12		8	7	1		1	2	1	1
2				2																	
															4			3			
3				2				1	1			2		2	1						
1	1																				
4				3				1				1		1	4	1			1		
1				1											3				2		
4	2			1		1															
339	62		4	35	173	10	4	15	16	14	2	76		60	73	3	2	14	14	8	3
9	2			1	5			1				1			2				1		
1					1					1		2		2	2			1			
6					5	1				1					1						
2	2																		1		
1					1																
1					1										1						
9			1	5				1	1			4		3	2						
49	6		7	23	3	1	2	2	3	1		17		13	19	4	1	8	2		
6				6											2						
5				3	1				1			2		2	3			1		1	
1				1																	
1				1																	
2				1	1																
1				1											1			1			
34	2	1		4	21	1	1	2	1	3		13		12	7		3	1	2		
471	42	3	12	41	227	37	5	40	18	25	6	122	6	70	153	9	2	33	29	3	11
57	7			3	36	2		3	3	9	1	23		13	22	1		1	5		
57	3	2	2	2	29	5	1	6	4	7	2	25		16	25	1	1	3	4		1
27				2	12	2	1	5	2	3		7		6	5			2	1		
81	8	1	1	7	36	8		7	2	6	1	19		14	15	2	1	2	1		1
64	6		1	2	34	6	1	4	7	8		19	1	9	27	1	1	6	3		2
10				1	8				1	3		2			7			3			1
63	8	1		5	32	1		4	4	5		24	5	14	25		1	2	8		1

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

	South River	Monmouth County	Asbury Park	Long Branch	Red Bank	Morris County	Dover	Madison	Morristown	Ocean County	Passaic County	Clifton City	Hawthorne	Passaic City	Paterson	Salem County	Salem City	Somerset County	Bound Brook	North Plainfield	Somerville	Sussex County	Union County	Elizabeth	Linden	Plainfield	Rahway	Roselle	Roselle Park	Summit	Westfield	Warren County	Phillipsburg
1. Typhoid fever											1				1																		
2. Paratyphoid fever											1																						
3. Typhus fever																																	
4. Relapsing fever																																	
5. Undulant fever																																	
6. Smallpox																																	
7. Measles																1		4		1			2	1						1			
8. Scarlet fever											1				1	1						1											
9. Whooping cough		1				1					2				2	1		4		1		1	6	2	1	1		1					
10. Diphtheria											2				1																		
11. Influenza		10		1	1	5	1			6	16	3	2	4	5	7	2	3		1	1	1	13	6		2				2	3	2
12. Cholera																																	
13. Dysentery		1								1																							
14. Plague																																	
15. Erysipelas	1									1	3				2								1						1		1	
16. Acute poliomyelitis and acute polioencephalitis		1									3				2								1								1	
17. Lethargic or epidemic encephalitis		1								1	1				1	1							2			1						
18. Epidemic cerebrospinal meningitis	1										3			2								1	3	2							2	1
19. Glanders																																	
20. Anthrax (bacillus anthracis) malignant pustule																																	
21. Rabies																																	
22. Tetanus																							1	1							1	1
23. Tuberculosis of the respiratory system	5	72	11	9	8	32	3	2	10	16	126	15		37	65	15	8	23	1	2	4	10	127	60	10	14	3	10	3	7	3	13	4
24. Tuberculosis of the meninges and central nervous system		1				1				1	4			2	2	1	1	1					3		1		1			1	1	
25. Tuberculosis of the intestines and peritoneum		1	1			1			1														3			1						
26. Tuberculosis of the vertebral column											1				1							1	1	1									
27. Tuberculosis of the bones and joints		1	1								1	1																					
28. Tuberculosis of the skin and subcutaneous cellular tissue																			1														
29. Tuberculosis of the lymphatic system																																	
30. Tuberculosis of the genitourinary system										1																							
31. Tuberculosis of other organs																1																	
32. Disseminated tuberculosis		3	1	1						1	1				1								5	3		1						
33. Leprosy																																	
34. Syphilis		34	6	4	3	11		2	4	4	28	5	1	5	15	7	4	1	1			1	27	12	2	4				1	1	5	2
35. Gonococcus infection and other venereal diseases		1																					2	1									
36. Purulent infection, septicemia	1	1				1				1	1				1	1		1				1	4	3						1			
37. Yellow fever																																	
38. Malaria																																	
39. Other diseases due to protozoal parasites																																	
40. Ankylostomiasis																																	
41. Hydatid cysts																																	
42. Other diseases caused by helminths																																	
43. Mycoses																							1										
44. Other infectious and parasitic diseases		3		1						1									1	1			2	1							1		
45. Cancer and other malignant tumors of the buccal cavity and pharynx		9		1	2	7				1	11	2		2	6	1	1	4		1	1	1	14	5	1	2	2	2	1	1		2	
46. Cancer and other malignant tumors of the digestive tract and peritoneum	4	118	10	12	11	81	6	3	15	50	203	27	9	31	114	24	6	52	7	11	2	19	202	73	12	23	14	14	3	8	13	36	17
47. Cancer and other malignant tumors of the respiratory system	1	12	2	1	1	10			1	5	28	3		6	15	3	1	5		2		1	37	12	1	8		3	1	1	3	1	1
48. Cancer and other malignant tumors of the uterus	2	23	1	5	3	20	3	1	1	8	30	4	4	1	18	6	2	11	1	5	1	2	32	8	1	4	2	3	3	3	1	5	1
49. Cancer and other malignant tumors of other female genital organs		3		1		7					17	4		2	7			3	2			2	12	8		1				2		2	
50. Cancer and other malignant tumors of the breast		22	1	2	3	15	1	2	3	9	42	9		3	24	3		14	1	1	5	4	46	8	5	7	5	1	1	2	9	5	3
51. Cancer and other malignant tumors of the male genitourinary organs	1	17	3		2	15		1	1	6	36	4	4	4	18	2		10	1	2	3	4	37	11	2	5	3		3	1	1	8	3
52. Cancer and other malignant tumors of the skin		2		1	1	4		1		3	5		1	2	2	2	1	1	1				2	2								2	
53. Cancer and other malignant tumors of other or unspecified organs	2	22	1	1		12			5	7	33		1	6	24	1	1	6		1			35	14	2	6	2		1		2	3	1

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

	State Total	Atlantic County	Atlantic City	Hammonton	Pleasantville	Bergen County	Bergenfield	Cliffside Park	Englewood	Fairview	Fort Lee	Garfield	Hackensack
54. Nonmalignant tumors	188	6	4	....	....	21	....	3	2	1	1	2	1
55. Tumors of which the nature is not specified	72	2	2	....	....	4	....	1	1	....	....	....	....
56. Acute rheumatic fever	110	3	....	1	1	7	....	....	....	....	1	2	....
57. Chronic rheumatism, osteoarthritis	52	4	1	....	1	4	....	....	....	....	....	1	....
58. Gout	1	1	1	....	....	....	....	....	....	....	....	....	....
59. Diabetes mellitus	1283	53	32	1	6	100	3	4	8	3	3	8	7
60. Scurvy	1	....	....	....	....	....	....	....	....	....	....	....	....
61. Beriberi	1	....	....	....	....	....	....	....	....	....	....	....	....
62. Pellagra	10	....	....	....	....	1	....	....	....	....	....	....	....
63. Rickets	4	1	1	....	....	....	....	....	....	....	....	....	....
64. Osteomalacia	....	....	....	....	....	....	....	....	....	....	....	....	....
65. Diseases of the pituitary body	4	....	....	....	....	....	....	....	....	....	....	....	....
66. Diseases of the thyroid and parathyroid glands	131	6	4	....	1	9	....	1	....	....	....	1	....
67. Diseases of the thymus gland	57	3	2	....	....	6	....	....	....	....	....	1	1
68. Diseases of the adrenals	15	....	....	....	....	....	....	....	....	....	....	....	....
69. Other general diseases	11	....	....	....	....	....	....	....	....	....	....	....	....
70. Hemorrhagic conditions	8	2	2	....	....	....	....	....	....	....	....	....	....
71. Anemias	97	3	1	....	....	11	....	....	2	....	....	1	1
72. Leukemias and pseudoleukemias	220	6	2	1	....	22	1	....	1	....	....	....	1
73. Diseases of the spleen	22	....	....	....	....	1	....	....	....	....	....	....	....
74. Other diseases of the blood and blood-making organs	14	1	1	....	....	....	....	....	....	....	....	....	....
75. Alcoholism	82	4	4	....	....	3	....	1	....	....	....	....	....
76. Chronic poisoning by other organic substances	1	1	1	....	....	....	....	....	....	....	....	....	....
77. Chronic poisoning by mineral substances	6	1	1	....	....	1	....	....	....	....	....	....	....
78. Encephalitis	49	1	1	....	....	7	....	....	1	....	....	....	....
79. Meningitis	72	2	1	1	....	7	....	....	1	....	....	1	1
80. Progressive locomotor ataxia	20	....	....	....	....	1	....	....	....	....	....	....	1
81. Other diseases of the spinal cord	13	....	....	....	....	1	....	....	....	....	....	....	1
82. Cerebral hemorrhage, cerebral embolism and thrombosis	3435	127	70	6	12	5	....	....	1	....	....	1	1
83. General paralysis of the insane	101	8	5	....	1	7	1	....	....	1	....	1	1
84. Dementia praecox and other psychoses	42	....	....	....	....	5	....	1	....	....	....	....	....
85. Epilepsy	48	1	1	....	....	7	....	....	1	....	....	1	....
86. Convulsions (under 5 years of age)	3	....	....	....	....	....	....	....	....	....	....	....	....
87. Other diseases of the nervous system	121	6	1	....	1	9	....	1	....	....	1	....	....
88. Diseases of the organs of vision	2	....	....	....	....	....	....	....	....	....	....	....	....
89. Diseases of the ear and of the mastoid process	56	2	2	....	....	6	....	....	....	....	....	....	....
90. Pericarditis	14	....	....	....	....	....	....	....	....	....	....	....	....
91. Acute endocarditis	124	5	4	....	....	7	....	....	....	....	1	....	3
92. Chronic endocarditis, valvular diseases	1423	50	33	1	2	130	1	4	7	1	3	5	11
93. Diseases of the myocardium	6123	204	96	20	18	481	17	16	29	16	19	21	28
94. Diseases of the coronary arteries and angina pectoris	3032	136	78	6	11	370	9	21	25	6	8	16	18
95. Other diseases of the heart	3294	189	128	3	15	219	1	10	19	3	6	11	11
96. Aneurysm	57	3	1	2	....	3	....	....	....	....	....	....	....
97. Arteriosclerosis	618	24	14	1	3	44	2	....	4	....	1	2	3
98. Gangrene	15	....	....	....	....	....	....	....	....	....	....	....	....
99. Other diseases of the arteries	73	5	3	....	....	7	....	....	....	....	1	....	1
100. Diseases of the veins	23	1	1	....	....	2	....	....	....	....	....	....	....
101. Diseases of the lymphatic system	4	....	....	....	....	1	....	....	....	....	....	....	....
102. Idiopathic anomalies of the blood-pressure	55	3	2	....	....	1	....	....	....	....	....	....	....
103. Other diseases of the circulatory system	2	....	....	....	....	....	....	....	....	....	....	....	....
104. Diseases of the nasal fossae and annexae	21	1	....	....	1	2	....	....	....	....	....	....	....
105. Diseases of the larynx	11	....	....	....	....	1	....	....	....	....	....	....	....
106. Bronchitis	121	3	2	1	....	10	....	....	....	....	1	....	....
107. Broncho pneumonia	992	40	21	....	7	84	....	6	4	1	1	8	8
108. Lobar pneumonia	1311	38	21	....	3	86	1	....	5	2	3	6	9

	Lodi	North Arlington	Ridgefield Park	Ridgewood	Rutherford	Wallington	Burlington County	Bordentown	Burlington City	Camden County	Audubon	Camden City	Collingswood	Gloucester City	Haddonfield	Cape May County	Cumberland County	Bridgeton	Millville	Vineland	Essex County	Belleville
54. Nonmalignant tumors	....	....	....	1	....	....	4	1	....	8	....	4	2	....	....	....	....	....	....	....	36	2
55. Tumors of which the nature is not specified	....	....	....	....	....	....	2	....	....	6	....	1	1	....	....	....	1	....	....	....	17	1
56. Acute rheumatic fever	....	....	....	....	1	1	3	....	1	3	....	2	....	1	....	1	3	1	1	....	24	1
57. Chronic rheumatism, osteoarthritis	....	....	....	....	1	....	2	....	....	3	....	3	....	....	....	2	3	1	1	....	9	....
58. Gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
59. Diabetes mellitus	5	1	4	1	6	....	19	4	3	102	5	52	10	6	1	19	17	4	3	2	262	7
60. Scurvy	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....
61. Beriberi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
62. Pellagra	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....
63. Rickets	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
64. Osteomalacia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
65. Diseases of the pituitary body	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
66. Diseases of the thyroid and parathyroid glands	....	....	....	....	....	....	2	....	....	3	....	2	....	1	....	3	6	1	1	1	29	1
67. Diseases of the thymus gland	1	....	....	2	....	....	3	....	1	7	....	2	....	1	....	....	1	....	....	....	7	....
68. Diseases of the adrenals	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	....
69. Other general diseases	....	....	....	....	....	....	2	....	....	2	....	1	....	....	1	1	....	....	....	....	2	....
70. Hemorrhagic conditions	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....
71. Anemias	....	....	....	1	....	....	1	....	....	5	....	4	....	....	....	1	4	....	3	....	18	....
72. Leukemias and pseudoleukemias	1	1	....	2	2	2	6	1	1	11	....	5	1	1	2	1	....	....	....	....	49	....
73. Diseases of the spleen	....	....	....	....	....	....	1	....	....	2	....	1	....	....	1	....	2	1	....	....	5	....
74. Other diseases of the blood and blood-making organs	....	....	....	....	....	....	....	....	....	2	....	....	....	1	1	....	....	....	....	....	2	....
75. Alcoholism	....	....	....	....	....	....	2	....	....	4	....	2	....	1	....	....	4	1	1	....	16	....
76. Chronic poisoning by other organic substances	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
77. Chronic poisoning by mineral substances	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2	....
78. Encephalitis	....	1	1	....	....	....	1	....	....	6	....	4	....	1	....	....	2	1	....	....	13	....
79. Meningitis	....	2	....	....	....	....	1	....	....	9	....	4	....	1	....	....	....	....	....	....	12	....
80. Progressive locomotor ataxia	....	....	....	....	....	....	....	....	....	3	....	1	....	....	....	....	....	....	....	....	3	....
81. Other diseases of the spinal cord	....	....	....	....	1	....	....	....	....	5	1	1	....	1	....	2	1	1	....	....	13	....
82. Cerebral hemorrhage, cerebral embolism and thrombosis	8	8	9	12	11	4	84	7	15	182	4	91	13	12	9	58	100	19	33	11	646	13
83. General paralysis of the insane	1	....	....	....	....	....	....	....	....	12	....	11	....	1	....	2	1	....	....	....	22	1
84. Dementia praecox and other psychoses	1	....	....	1	....	....	2	1	....	1	....	1	....	....	....	....	....	....	....	....	12	2
85. Epilepsy	....	....	....	....	....	....	3	....	....	3	....	3	....	....	....	1	1	....	....	....	7	1
86. Convulsions (under 5 years of age)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....
87. Other diseases of the nervous system	....	....	1	1	1	....	6	....	1	9	....	3	....	2	1	....	3	2	....	....	25	1
88. Diseases of the organs of vision	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....
89. Diseases of the ear and of the mastoid process	....	....	1	....	1	....	1	....	....	2	....	2	....	....	....	....	1	....	....	....	17	1
90. Pericarditis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	4	....
91. Acute endocarditis	....	1	....	1	....	....	1	....	1	14	1	7	2	....	....	....	5	2	2	....	25	1
92. Chronic endocarditis, valvular diseases	2	3	4	3	9	1	43	2	15	106	2	66	9	5	2	8	74	30	14	2	257	7
93. Diseases of the myocardium	5	9	21	28	17	5	215	11	16	484	19	206	32	24	16	82	142	25	24	19	1163	35
94. Diseases of the coronary arteries and angina pectoris	6	12	13	11	22	5	74	6	8	179	5	78	15	13	13	28	40	9	5	3	618	15
95. Other diseases of the heart	6	....	7	2	8	4	58	3	5	151	13	69	7	11	2	13	36	11	14	2	714	26
96. Aneurysm	....	....	....	1	1	....	....	....	....	2	....	2	....	....	....	1	2	....	1	....	16	....
97. Arteriosclerosis	....	....	1	5	....	1	19	2	6	23	1	10	....	3	2	9	25	7	7	1	97	3
98. Gangrene	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	1	1	....	....	....	5	1
99. Other diseases of the arteries	....	....	....	1	....	....	....	....	....	4	....	1	....	....	1	1	2	1	....	....	12	....
100. Diseases of the veins	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	4	....
101. Diseases of the lymphatic system	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
102. Idiopathic anomalies of the blood-pressure	....	1	....	....	....	....	1	1	....	....	....	....	....	....	....	2	....	....	....	....	18	2
103. Other diseases of the circulatory system	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
104. Diseases of the nasal fossae and annexae	....	....	....	....	....	....	1	....	....	2	....	1	1	....	....	....	....	....	....	....	5	1
105. Diseases of the larynx	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
106. Bronchitis	1	....	....	1	1	1	1	....	....	6	....	2	....	3	....	2	3	1	1	....	25	....
107. Broncho pneumonia	2	4	1	5	1	....	13	1	1	46	....	27	....	2	2	8	12	3	4	3	152	5
108. Lobar pneumonia	3	....	2	4	3	3	33	1	7	97	2	55	2	6	4	16	15	2	3	2	267	10

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

	Bloomfield	East Orange	Irvington	Montclair	Newark	Nutley	Orange	South Orange	West Orange	Gloucester County	Woodbury
54. Nonmalignant tumors	1	1	3	.....	23	4	2	.....	.....	2	.....
55. Tumors of which the nature is not specified	2	.....	3	.....	7	.....	2	.....	1	.....	.....
56. Acute rheumatic fever	1	2	1	1	16	.....	.....	.....	1	3	.....
57. Chronic rheumatism, osteoarthritis	.....	.....	2	.....	7	.....	.....	.....	.....	3	.....
58. Gout	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
59. Diabetes mellitus	10	15	21	13	156	3	15	1	6	29	7
60. Scurvy	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
61. Beriberi	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
62. Pellagra	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....
63. Rickets	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
64. Osteomalacia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65. Diseases of the pituitary body	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
66. Diseases of the thyroid and parathyroid glands	1	3	2	2	14	1	2	.....	2	3	.....
67. Diseases of the thymus gland	1	1	1	.....	4	.....	.....	.....	.....	4	.....
68. Diseases of the adrenals	.....	1	.....	.....	3	.....	.....	.....	.....	.....	.....
69. Other general diseases	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
70. Hemorrhagic conditions	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
71. Anemias	.....	3	.....	.....	14	.....	.....	.....	.....	1	.....
72. Leukemias and pseudoleukemias	3	6	4	1	27	.....	2	3	1	6	3
73. Diseases of the spleen	.....	.....	1	.....	3	.....	.....	1	.....	1	.....
74. Other diseases of the blood and blood-making organs	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
75. Alcoholism	.....	1	.....	.....	10	.....	.....	1	.....	2	.....
76. Chronic poisoning by other organic substances	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
77. Chronic poisoning by mineral substances	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
78. Encephalitis	.....	1	.....	.....	10	.....	.....	1	.....	.....	.....
79. Meningitis	1	.....	.....	1	9	.....	.....	1	.....	.....	.....
80. Progressive locomotor ataxia	.....	.....	.....	.....	3	.....	.....	.....	.....	1	.....
81. Other diseases of the spinal cord	1	4	.....	2	3	1	.....	.....	.....	4	.....
82. Cerebral hemorrhage, cerebral embolism and thrombosis	26	80	28	41	325	16	31	12	23	71	9
83. General paralysis of the insane	.....	2	1	.....	17	.....	.....	.....	.....	2	.....
84. Dementia praecox and other psychoses	.....	.....	1	1	6	.....	.....	.....	.....	2	.....
85. Epilepsy	.....	1	1	.....	4	.....	.....	.....	.....	.....	.....
86. Convulsions (under 5 years of age)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
87. Other diseases of the nervous system	1	1	2	1	16	.....	1	2	.....	1	.....
88. Diseases of the organs of vision	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
89. Diseases of the ear and of the mastoid process	1	1	2	.....	10	1	.....	1	.....	.....	.....
90. Pericarditis	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....
91. Acute endocarditis	.....	2	.....	3	15	2	1	1	.....	1	.....
92. Chronic endocarditis, valvular diseases	7	30	15	21	119	13	13	9	6	19	3
93. Diseases of the myocardium	58	127	74	71	533	34	52	23	38	124	14
94. Diseases of the coronary arteries and angina pectoris	25	66	46	49	295	13	21	10	27	54	5
95. Other diseases of the heart	17	28	31	20	528	7	14	7	8	39	4
96. Aneurysm	.....	2	.....	2	11	.....	.....	.....	.....	1	.....
97. Arteriosclerosis	3	7	4	6	58	2	5	.....	3	15	2
98. Gangrene	.....	.....	.....	.....	4	.....	.....	.....	.....	1	.....
99. Other diseases of the arteries	1	2	.....	.....	7	2	.....	.....	.....	.....	.....
100. Diseases of the veins	2	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
101. Diseases of the lymphatic system	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
102. Idiopathic anomalies of the blood-pressure	1	2	.....	.....	11	.....	2	.....	.....	1	.....
103. Other diseases of the circulatory system	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
104. Diseases of the nasal fossae and annexae	1	.....	.....	.....	2	.....	.....	1	.....	.....	.....
105. Diseases of the larynx	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....
106. Bronchitis	2	3	1	.....	13	1	2	.....	1	5	.....
107. Broncho pneumonia	4	16	7	6	80	4	9	4	5	19	2
108. Lobar pneumonia	14	12	12	18	163	7	9	2	8	42	4

	Hudson County	Bayonne	Guttenberg	Harrison	Hoboken	Jersey City	Kearny	Secaucus	Union City	West New York	Hunterdon County	Lambertville	Mercer County	Princeton	Trenton	Middlesex County	Carteret	Highland Park	New Brunswick	Perth Amboy	Sayreville	South Amboy
54. Nonmalignant tumors	36	4	.....	.....	2	20	1	1	7	.....	.....	.....	5	.....	3	8	1	1	.....	2	.....	.....
55. Tumors of which the nature is not specified	7	.....	.....	.....	.....	5	1	.....	.....	2	.....	.....	3	.....	3	3	.....	.....	.....	1	.....	.....
56. Acute rheumatic fever	20	2	.....	1	1	12	.....	.....	2	1	.....	.....	3	1	1	6	2	.....	.....	.....	.....	.....
57. Chronic rheumatism, osteoarthritis	3	.....	.....	.....	.....	3	.....	.....	.....	.....	2	.....	3	.....	3	4	.....	.....	1	1	.....	.....
58. Gout	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
59. Diabetes mellitus	208	21	2	7	16	101	12	2	17	11	16	4	55	3	40	68	5	4	14	17	2	1
60. Scurvy	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
61. Beriberi	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
62. Pellagra	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....
63. Rickets	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
64. Osteomalacia	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65. Diseases of the pituitary body	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
66. Diseases of the thyroid and parathyroid glands	25	2	.....	1	2	9	.....	.....	2	6	2	.....	2	.....	2	4	.....	.....	3	.....	.....	.....
67. Diseases of the thymus gland	4	.....	.....	1	1	2	.....	.....	.....	.....	1	.....	6	.....	3	2	.....	.....	.....	.....	.....	.....
68. Diseases of the adrenals	3	.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
69. Other general diseases	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70. Hemorrhagic conditions	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	1	.....
71. Anemias	14	5	.....	.....	.....	5	.....	.....	2	1	2	.....	5	.....	5	4	.....	.....	.....	.....	1	.....
72. Leukemias and pseudoleukemias	30	6	1	1	3	13	.....	.....	1	3	2	.....	9	1	5	11	1	.....	3	1	1	.....
73. Diseases of the spleen	3	1	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	3	.....	3	2	.....	.....	.....	2	.....	.....
74. Other diseases of the blood and blood-making organs	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2	.....	1	1	.....	.....	1	.....	.....	.....
75. Alcoholism	23	2	.....	.....	4	14	1	.....	.....	1	3	.....	4	.....	3	3	1	.....	1	1	.....	.....
76. Chronic poisoning by other organic substances	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
77. Chronic poisoning by mineral substances	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
78. Encephalitis	6	1	.....	1	.....	2	.....	.....	1	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....
79. Meningitis	17	4	.....	.....	1	10	.....	.....	1	.....	.....	.....	3	1	1	4	.....	2	.....	.....	1	1
80. Progressive locomotor ataxia	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2	.....	.....	1	1	.....	.....
81. Other diseases of the spinal cord	5	1	.....	.....	1	2	.....	.....	1	.....	1	.....	5	.....	3	7	.....	1	1	2	.....	.....
82. Cerebral hemorrhage, cerebral embolism and thrombosis	482	54	4	12	29	233	25	7	55	26	44	7	140	10	84	172	8	8	34	27	12	10
83. General paralysis of the insane	10	1	.....	.....	1	2	.....	.....	3	.....	3	2	5	.....	4	7	1	1	2	.....	.....	.....
84. Dementia praecox and other psychoses	3	.....	.....	.....	1	2	.....	.....	1	.....	.....	.....	2	.....	2	3	.....	.....	1	.....	.....	1
85. Epilepsy	4	.....	.....	.....	.....	2	.....	.....	1	.....	1	.....	6	.....	4	1	.....	.....	.....	.....	.....	.....
86. Convulsions (under 5 years of age)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
87. Other diseases of the nervous system	21	2	.....	.....	1	9	2	.....	4	2	1	.....	2	.....	1	7	.....	.....	3	1	.....	1
88. Diseases of the organs of vision	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
89. Diseases of the ear and of the mastoid process	7	.....	.....	.....	2	4	.....	.....	.....	.....	.....	.....	1	.....	.....	5	.....	.....	1	1	.....	.....
90. Pericarditis	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....
91. Acute endocarditis	21	3	.....	1	1	8	1	2	2	2	.....	.....	5	.....	3	10	1	.....	2	1	.....	1
92. Chronic endocarditis, valvular diseases	184	19	3	6	15	78	15	3	23	7	19	2	58	1	36	76	2	2	13	13	7	1
93. Diseases of the myocardium	1150	84	14	30	109	535	67	9	118	52	58	8	330	12	222	259	9	13	71	40	10	14
94. Diseases of the coronary arteries and angina pectoris	305	58	3	5	19	134	14	4	30	13	30	3	150	5	99	123	6	7	25	28	3	.....
95. Other diseases of the heart	676	54	7	9	66	401	30	5	45	22	30	2	83	4	61	110	7	5	13	24	2	8
96. Aneurysm	9	.....	.....	1	1	4	.....	.....	2	1	.....	.....	6	.....	2	3	.....	.....	.....	2	1	.....
97. Arteriosclerosis	75	7	.....	1	12	42	3	1	5	3	13	4	36	.....	22	24	.....	1	3	4	1	1
98. Gangrene	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1	1	2	.....	1	1	.....	.....	.....	.....	.....	.....
99. Other diseases of the arteries	10	1	.....	.....	1	7	.....	.....	.....	1	1	.....	5	1	2	6	1	.....	.....	2	.....	1
100. Diseases of the veins	5	.....	.....	.....	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....
101. Diseases of the lymphatic system	2	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
102. Idiopathic anomalies of the blood-pressure	7	1	.....	.....	.....	5	.....	.....	.....	1	1	.....	1	.....	1	3	.....	.....	.....	.....	.....	.....
103. Other diseases of the circulatory system	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
104. Diseases of the nasal fossae and annexae	4	.....	.....	1	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
105. Diseases of the larynx	3	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
106. Bronchitis	21	.....	.....	2	9	4	.....	2	1	.....	.....	.....	6	.....	3	5	.....	.....	2	1	.....	.....
107. Broncho pneumonia	188	20	.....	5	21	103	5	3	13	8	17	2	62	.....	41	42	1	2	9	6	.....	2
108. Lobar pneumonia	232	18	3	7	27	115	12	1	11	20	15	2	71	2	44	48	2	.....	11	9	1	4

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

	South River	Monmouth County	Asbury Park	Long Branch	Red Bank	Morris County	Dover	Madison	Morristown	Ocean County	Passaic County
54. Nonmalignant tumors	....	12	2	1	1	4	....	....	1	2	17
55. Tumors of which the nature is not specified	....	2	....	1	....	2	....	....	....	....	8
56. Acute rheumatic fever	1	11	1	2	....	4	....	1	....	....	2
57. Chronic rheumatism, osteoarthritis	....	1	....	....	....	3	....	....	1	....	1
58. Gout	1	52	8	8	3	37	3	....	12	18	104
59. Diabetes mellitus	....	....	....	....	....	....	....	....	....	....	....
60. Scurvy	....	....	....	....	....	....	....	....	....	....	....
61. Beriberi	....	1	....	....	....	1	....	....	1	....	1
62. Pellagra	....	....	....	....	....	1	....	....	....	....	....
63. Rickets	....	....	....	....	....	....	....	....	....	....	....
64. Osteomalacia	....	1	....	1	....	....	....	....	....	....	1
65. Diseases of the pituitary body	....	....	....	....	....	....	....	....	....	....	....
66. Diseases of the thyroid and parathyroid glands	1	4	....	....	....	5	....	....	1	....	11
67. Diseases of the thymus gland	1	2	....	....	1	3	1	1	....	1	....
68. Diseases of the adrenals	....	2	1	1	....	1	....	....	....	....	1
69. Other general diseases	....	2	....	....	....	1	....	....	....	....	....
70. Hemorrhagic conditions	....	....	....	....	....	....	....	....	....	....	1
71. Anemias	1	2	1	....	....	1	....	....	1	1	16
72. Leukemias and pseudoleukemias	....	7	1	....	1	5	....	....	....	....	17
73. Diseases of the spleen	....	....	....	....	....	....	....	....	....	....	....
74. Other diseases of the blood and blood-making organs	....	....	....	....	....	1	....	....	....	....	1
75. Alcoholism	....	3	....	....	1	2	....	....	....	....	....
76. Chronic poisoning by other organic substances	....	....	....	....	....	....	....	....	....	....	....
77. Chronic poisoning by mineral substances	....	1	....	....	....	....	....	....	....	....	....
78. Encephalitis	....	2	....	....	....	1	....	....	....	....	2
79. Meningitis	....	2	....	....	....	1	....	....	....	....	3
80. Progressive locomotor ataxia	....	2	....	1	....	....	....	....	....	....	1
81. Other diseases of the spinal cord	....	3	....	....	....	3	....	....	....	1	2
82. Cerebral hemorrhage, cerebral embolism and thrombosis	6	186	11	19	14	122	4	7	23	39	249
83. General paralysis of the insane	....	3	1	1	....	3	....	....	2	1	7
84. Dementia praecox and other psychoses	....	2	1	....	1	....	....	....	....	....	3
85. Epilepsy	....	1	....	....	1	4	....	....	....	....	2
86. Convulsions (under 5 years of age)	....	1	....	....	....	....	....	....	....	....	....
87. Other diseases of the nervous system	....	3	1	....	....	10	....	....	1	....	4
88. Diseases of the organs of vision	....	....	....	....	....	....	....	....	....	....	....
89. Diseases of the ear and of the mastoid process	1	3	....	....	....	2	1	....	....	1	3
90. Pericarditis	....	1	....	....	....	....	....	....	....	....	3
91. Acute endocarditis	....	6	....	1	....	2	....	....	....	1	10
92. Chronic endocarditis, valvular diseases	5	55	8	5	3	46	6	3	3	18	92
93. Diseases of the myocardium	7	221	18	23	21	196	16	11	37	74	322
94. Diseases of the coronary arteries and angina pectoris	3	190	18	23	20	99	11	10	12	52	215
95. Other diseases of the heart	6	264	37	27	16	64	....	9	20	18	239
96. Aneurysm	....	1	....	....	....	1	....	....	1	....	1
97. Arteriosclerosis	1	44	4	4	4	24	4	....	5	11	47
98. Gangrene	....	....	....	....	....	....	....	....	....	....	....
99. Other diseases of the arteries	....	5	2	....	....	....	....	....	....	1	3
100. Diseases of the veins	....	3	....	....	....	1	....	....	1	....	3
101. Diseases of the lymphatic system	....	1	....	....	....	....	....	....	....	....	....
102. Idiopathic anomalies of the blood-pressure	....	....	....	....	....	....	....	....	....	....	4
103. Other diseases of the circulatory system	....	1	....	1	....	....	....	....	....	....	1
104. Diseases of the nasal fossae and annexae	....	3	....	2	....	....	....	....	....	1	1
105. Diseases of the larynx	....	1	....	....	....	....	....	....	....	....	....
106. Bronchitis	....	7	....	....	1	5	1	....	....	....	10
107. Broncho pneumonia	2	38	7	1	1	24	4	1	2	24	73
108. Lobar pneumonia	2	41	1	....	7	42	8	3	5	17	89

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

	Clifton City	Hawthorne	Passaic City	Paterson	Salem County	Salem City	Somerset County	Bound Brook	North Plainfield	Somerville	Sussex County	Union County	Elizabeth	Linden	Plainfield	Rahway	Roselle	Roselle Park	Summit	Westfield	Warren County	Phillipsburg
54. Nonmalignant tumors	1	1	3	9	2	....	1	....	....	1	....	23	11	2	2	1	1	1	1	2	1	1
55. Tumors of which the nature is not specified	1	....	3	1	2	1	3	1	....	1	....	8	4	....	1	....	1	....	....	....	....	....
56. Acute rheumatic fever	....	....	1	1	....	....	1	....	....	1	1	13	5	4	....	3	1	....	....	....	2	2
57. Chronic rheumatism, osteoarthritis	....	....	....	1	....	....	....	....	....	....	2	2	....	....	....	....	1	....	1	....	1	....
58. Gout	11	6	18	54	16	4	14	3	2	4	5	73	21	1	11	3	5	2	5	5	16	6
59. Diabetes mellitus	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....
60. Scurvy	....	....	....	1	....	....	....	....	....	....	1	1	....	....	1	....	....	....	....	....	....	....
61. Beriberi	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
62. Pellagra	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
63. Rickets	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
64. Osteomalacia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
65. Diseases of the pituitary body	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
66. Diseases of the thyroid and parathyroid glands	1	....	2	6	1	....	1	....	1	....	1	11	5	....	2	....	....	....	1	1	3	2
67. Diseases of the thymus gland	....	....	....	....	1	....	1	....	....	....	....	2	....	....	....	....	....	1	1	....	1	1
68. Diseases of the adrenals	....	....	....	....	....	....	1	....	....	....	....	2	1	....	....	....	....	....	....	....	....	....
69. Other general diseases	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....
70. Hemorrhagic conditions	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
71. Anemias	1	....	3	10	....	....	....	....	....	....	....	6	2	....	1	....	....	....	....	1	2	....
72. Leukemias and pseudoleukemias	3	1	2	10	....	....	3	....	....	1	3	27	9	1	3	2	1	4	1	2	5	3
73. Diseases of the spleen	....	....	....	....	1	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....
74. Other diseases of the blood and blood-making organs	1	....	....	....	....	....	1	....	1	....	....	2	....	....	....	....	....	....	....	....	....	....
75. Alcoholism	....	....	....	....	1	1	....	....	....	....	1	6	3	....	....	....	1	....	....	....	1	1
76. Chronic poisoning by other organic substances	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
77. Chronic poisoning by mineral substances	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
78. Encephalitis	....	....	1	....	....	....	....	....	....	....	....	5	1	....	....	....	1	....	1	1	1	1
79. Meningitis	1	....	2	4	....	....	2	....	1	....	....	6	1	....	2	....	1	....	1	....	....	....
80. Progressive locomotor ataxia	1	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	2	....
81. Other diseases of the spinal cord	1	....	....	....	....	....	2	....	1	....	1	11	4	....	1	....	1	....	3	1	2	1
82. Cerebral hemorrhage, cerebral embolism and thrombosis	29	5	39	142	39	14	50	7	10	6	47	267	113	5	36	16	15	6	10	15	66	17
83. General paralysis of the insane	....	1	2	3	1	1	1	....	....	....	....	4	1	....	1	....	....	....	1	....	2	....
84. Dementia praecox and other psychoses	....	....	1	....	....	....	....	....	....	....	....	4	1	1	1	....	1	....	....	....	....	....
85. Epilepsy	....	....	....	1	2	2	....	....	....	....	....	4	2	....	....	....	....	....	....	....	....	....
86. Convulsions (under 5 years of age)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
87. Other diseases of the nervous system	....	....	2	2	....	....	2	....	....	....	....	12	5	....	3	....	....	1	1	1	....	....
88. Diseases of the organs of vision	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
89. Diseases of the ear and of the mastoid process	1	....	....	2	....	....	1	....	1	....	....	4	....	....	....	....	1	....	....	2	....	....
90. Pericarditis	....	....	....	3	....	....	1	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....
91. Acute endocarditis	3	....	1	4	1	....	2	....	2	....	....	8	6	....	....	....	....	....	....	1	....	....
92. Chronic endocarditis, valvular diseases	12	....	18	50	19	3	34	6	6	6	6	100	33	5	12	8	6	2	2	10	29	10
93. Diseases of the myocardium	30	14	65	172	55	10	79	4	10	13	63	345	111	10	54	23	5	9	22	36	76	27
94. Diseases of the coronary arteries and angina pectoris	36	10	39	103	34	6	28	2	3	12	24	242	95	13	33	13	10	4	13	16	41	17
95. Other diseases of the heart	14	8	34	163	20	8	68	7	11	15	18	226	90	15	25	16	11	6	6	10	59	21
96. Aneurysm	....	....	1	....	1	....	....	....	....	....	3	4	3	....	1	....	....	....	....	....	....	....
97. Arteriosclerosis	3	2	3	35	13	3	14	3	2	2	7	42	21	....	2	4	1	2	2	....	9	....
98. Gangrene	....	....	1	2	....	....	4	....	....	1	....	6	3	....	....	....	....	....	1	....	1	....
99. Other diseases of the arteries	....	....	....	2	....	....	1	1	....	....	1	1	1	....	....	....	....	....	....	....	1	1
100. Diseases of the veins	1	....	1	2	....	....	....	....	....	....	....	13	5	2	....	....	3	....	....	1	....	....
101. Diseases of the lymphatic system	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
102. Idiopathic anomalies of the blood-pressure	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
103. Other diseases of the circulatory system	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1
104. Diseases of the nasal fossae and annexae	1	1	....	6	1	....	2	....	2	....	1	7	2	....	....	....	1	....	1	....	1	....
105. Diseases of the larynx	8	2	10	38	15	2	21	3	2	5	7	90	42	3	4	6	3	5	4	2	17	7
106. Bronchitis	12	3	20	47	12	4	16	....	2	3	16	95	39	4	9	2	4	2	7	4	23	11
107. Broncho pneumonia																						
108. Lobar pneumonia																						

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

	State Total	Atlantic County	Atlantic City	Hammonton	Pleasantville	Bergen County	Bergenfield	Cliffside Park	Englewood	Fairview	Fort Lee	Garfield	Hackensack	Lodi	North Arlington	Ridgefield Park	Ridgewood	Rutherford	Wallington	Burlington County	Bordentown	Burlington City	Camden County	Audubon	Camden City	Collingswood	Gloucester City	Haddonfield	Cape May County	Cumberland County	Bridgeton	Millville	Vineland	Essex County	Belleville
109. Pneumonia, unspecified	99	6	3	1	1	5														3	1	1	6	1	2		1		1	2				25	1
110. Pleurisy	96	3	1	1		7			1			1				1	1			3		1	6		4			1		3	1		1	18	3
111. Congestion, edema, embolism, hemorrhagic infarct, and thrombosis of the lungs	59	3	3			7		2								1	1						7			4	2		3	1	1			10	1
112. Asthma	61	4	2		1	7	2	1								1	2						9		2	1	1		1	1	1			9	
113. Pulmonary emphysema	6					1														1	1								1					2	
114. Other diseases of the respiratory system	52	1	1			1		1												3		1	2		1			1	1	1				13	
115. Diseases of the buccal cavity and annexa and of the pharynx and tonsils	138	3		2		14		1					3	1		3	1	1	2		1	14	1	6	1			1	4	2	1	1	28	3
116. Diseases of the esophagus	2	1	1																				1		1										
117. Ulcer of the stomach and duodenum	291	13	6			23		1			1	1	3	3	1	1				4		1	17	1	2	3			2	4	2		1	71	3
118. Other diseases of the stomach	38	2			1	2			2											4	1		3		2				1	1		1	6	
119. Diarrhea and enteritis (under 2 years of age)	133	1			1	10			2				1							2			3		8				7	2	1		14	
120. Diarrhea and enteritis (2 years and over)	84	4	3		1	6						1	1			1	1			2			4		2				4			1	15	
121. Appendicitis	441	11	6	1	2	41	2	3	2	1	1	4	3	2	1	2	2			10	1	1	25	2	13	2	2		4	8	3	3		128	7
122. Hernia, intestinal obstruction	399	16	10		2	38		1	3			1	4		1	2	2			8	1	1	26		13	2	1	3	3	2		1		79	3
123. Other diseases of the intestines	70	6	4		1	3			1											4			4		4				1				13	1
124. Cirrhosis of the liver	486	16	8	1	2	49	2	2	4	4		2	6			1	1		3	8		2	19		9	1	1	1	2	4		2		114	2
125. Other diseases of the liver	47	1	1			3														1			2		2				1				10	
126. Biliary calculi	200	4				21		1	2		1		1		1		2		1	7		2	5		2		1	1	2	7	2	1		44	
127. Other diseases of the gall-bladder and biliary passages	121	12	9		2	7		1												2			6		4				4	5	1	1	1	25	2
128. Diseases of the pancreas	33	4	3		1																								1					6	
129. Peritonitis, cause not specified	35	5	3																				2		2									9	1
130. Acute nephritis (including unspecified under 10 years of age)	64	3	1		1	6			1			1	1							2			2		2				1					15	
131. Chronic nephritis	2856	94	47	5	12	243	8	3	9	4	6	8	17	4	4	5	18	15	3	118	2	12	278	5	124	13	23	17	33	59	12	19	11	530	23
132. Nephritis, unspecified (10 years and over)	123	13	7	2	1	9		1					1		1		1			1		1	9		1				1	7	2	2		25	
133. Other diseases of the kidneys and ureters (puerperal diseases excepted)	111	4	3		1	6	1						1							3		1	5		3									1
134. Calculi of the urinary passages	63					5	1		1			1											4			1	1			2			1	10	
135. Diseases of the bladder	25	1	1			3												1											1	1				3	
136. Diseases of the urethra, urinary abscess, etc.	6																						1		1									2	
137. Diseases of the prostate	245	9	3		2	22			1			1			1		3	1		3	1		5		3		1		1	4	2			59	2
138. Diseases of the male genital organs, not specified as venereal	6																																	5	
139. Diseases of the female genital organs, not specified as venereal	109	1	1			4										1	1			2		1	5	1	1	1			2		1		20	1
140. Abortion with septic conditions	26	1				2							1							4			4		2								5	
141. Abortion without mention of septic conditions	3																																	1	
142. Ectopic gestation	13					1								1						3						1								4	
143. Other accidents of pregnancy	5																												1				1	1	
144. Puerperal hemorrhage	36					1						1								1			1		1				1	1			9	
145. Puerperal septicemia	42	2	1			1														7			3	1	1			2	1				4	
146. Puerperal albuminuria and eclampsia	19	1		1		1														2			2						3	2			1	
147. Other toxemias of pregnancy	10	1				2														2														1	
148. Puerperal phlegmasia alba dolens, embolus, sudden death	11					1																						1					1	1
149. Other accidents of childbirth	24	2	2			2								1				1		2			1						1		1		6	
150. Other and unspecified conditions of the puerperal state	2																																		
151. Furuncle, carbuncle	14	1	1																	1			1											3	
152. Phlegmon, acute abscess	12					1											1																	2	
153. Other diseases of the skin and annexa, and of the cellular tissue	22					1														1			2			1			2	1	1		7	
154. Osteomyelitis	22	3	2		1	2			1								1			2			1		1								2	
155. Other diseases of the bones (tuberculosis excepted)	12	2	1																	1			1											2	
156. Diseases of the joints and other organs of locomotion	7																											1					2	
157. Congenital malformations	325	10	3			29		3			1		2		1	1	3	1	1	12		1	24		9	2	1	1	1	7	1	2		54	2

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

	Bloomfield	East Orange	Irvington	Montclair	Newark	Nutley	Orange	South Orange	West Orange	Gloucester County	Woodbury
109. Pneumonia, unspecified			4	2	14		2		1	4	1
110. Pleurisy		1	2		10		1			3	1
111. Congestion, edema, embolism, hemorrhagic infarct, and thrombosis of the lungs		1	1	2	3						
112. Asthma	1	1		1	3		2			1	
113. Pulmonary emphysema					1						
114. Other diseases of the respiratory system					12		1			1	
115. Diseases of the buccal cavity and annexa and of the pharynx and tonsils		2		2	17	1			1	1	
116. Diseases of the esophagus											
117. Ulcer of the stomach and duodenum	4	5	2	6	42	1	2		3	2	1
118. Other diseases of the stomach		1		1	2			1			
119. Diarrhea and enteritis (under 2 years of age)			2		10	1				2	
120. Diarrhea and enteritis (2 years and over)	2		2		8			1	1	1	
121. Appendicitis	5	10	12	6	66	3	4	2	3	7	
122. Hernia, intestinal obstruction	3	11	2	6	45	2	2		1	9	1
123. Other diseases of the intestines		3	2		5		1		1	1	
124. Cirrhosis of the liver	4	11	7	3	68	2	7	1	4	8	
125. Other diseases of the liver		1	1	1	6	1				2	
126. Biliary calculi	2	8	4	1	26		1				
127. Other diseases of the gall-bladder and biliary passages		1	3	1	17					4	
128. Diseases of the pancreas				1	5					1	
129. Peritonitis, cause not specified		1	1		3	1	1			1	
130. Acute nephritis (including unspecified under 10 years of age)	2	1	2		7			1		1	1
131. Chronic nephritis	44	50	20	27	250	14	28	8	8	80	10
132. Nephritis, unspecified (10 years and over)	2	1	3	2	13		2	1	1	3	1
133. Other diseases of the kidneys and ureters (puerperal diseases excepted)		1	3	1	12		3			2	
134. Calculi of the urinary passages	1		2	1	6						
135. Diseases of the bladder	1				2						
136. Diseases of the urethra, urinary abscess, etc.					1				1		
137. Diseases of the prostate	4	7	2	3	32	2	1		1	5	2
138. Diseases of the male genital organs, not specified as venereal					4		1				
139. Diseases of the female genital organs, not specified as venereal		3			12				2	5	
140. Abortion with septic conditions					5					2	1
141. Abortion without mention of septic conditions			1								
142. Ectopic gestation			1		3						
143. Other accidents of pregnancy										1	
144. Puerperal hemorrhage	2	1		1	4						
145. Puerperal septicemia		1			3					1	
146. Puerperal albuminuria and eclampsia			1							3	1
147. Other toxemias of pregnancy					1						
148. Puerperal phlegmasia alba dolens, embolus, sudden death											
149. Other accidents of childbirth	1		1	2	2						
150. Other and unspecified conditions of the puerperal state										1	
151. Furuncle, carbuncle		1									
152. Phlegmon, acute abscess	1	1									
153. Other diseases of the skin and annexa, and of the cellular tissue		2			3	1		1			
154. Osteomyelitis					2						
155. Other diseases of the bones (tuberculosis excepted)			1		1						
156. Diseases of the joints and other organs of locomotion						1					
157. Congenital malformations	2	5	1	2	32	1	2		3	10	1

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

	Hudson County	Bayonne	Guttenberg	Harrison	Hoboken	Jersey City	Kearny	Secaucus	Union City	West New York	Hunterdon County	Lambertville	Mercer County	Princeton	Trenton	Middlesex County	Carteret	Highland Park	New Brunswick	Perth Amboy	Sayreville	South Amboy
	3			2	2			1		1			2		1	2				1		
	14	2		1	5	1	1	2	1				8	1	5	2						
	3	1			1			1					2		1	1				1		
	8	1		1	6								2			6		1				
																1	1					
	6	1			2	2		1					4		3	4	1			1		
	22	4		1	2	8	5		1		3		6		4	8			1	2		
	43	2			4	26	3		4	3	3	2	10		7	10	1			3	1	
	2						1			1	2	1	2		2							
	34			3	5	17			4	3	1		9		6	7	2		2			
	13	1		1	1	6			1	1	1		3		2	4				1		
	74	4			6	41	4	1	7	2	3		16		12	11	1		2	4		
	59	3		5	5	30	2		6	3	5	1	19	2	13	14		2	3	3		
	15				3	5	2		2	2	1		2			2						
	106	14	2	2	10	49	4	1	11	6	5		21		17	20			5	5	1	1
	12	1			2	6			1				1			2			1			
	33	2	1	2	3	13	4	1	3	1			4		3	8		1	3	1		
	17	1			1	8			2	1			4	1	3	6			1		1	
	5					3			1		1		2		1	1						
	5				1	3			1				5	1	1	1			1			
	7	2			1	3				1	1		2		2	5			2	2		
	334	35	4	16	24	141	34	4	40	12	30	8	148	2	99	123	12	2	18	23	4	5
	12					6	1		1	1	2	1	2		2	5	1	1	1	1		
	21	3	1		1	9	4		1	1			5	1	3	3	1			2		
	8				1	4	1				1		4		4	6	1		2	1		1
	4					2			1	1						2			1			
	1					1																
	27	2			1	14		1	2	4	4	1	15	1	9	9		1	2	3		
	18	1		1		8			2	3			5		4	6			4	1		
	4					2		1			1		3		2	1						
	1								1													
													2		1	2			1			
	7	1			2	3			1				1			3				1	1	
	6				1	3				1			3		2	4	1					1
	2	1				1										1						
	1	1																				
	2				1	1										2				1		
	1					1							5		2							
	1														1							
	4	1				2	1						1									
	6	1				4				1			1			1						
	4	1			1	2										1				1		
	6	3			1	1							2		2							
	1									1			1			1			1			
													1		1							
	30	10	1		4	29	2				2		11		11	26		1	3	7	1	1

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

	South River	Monmouth County	Asbury Park	Long Branch	Red Bank	Morris County	Dover	Madison	Morristown	Ocean County	Passaic County
109. Pneumonia, unspecified	....	4	....	....	1	1	....	....	....	1	5
110. Pleurisy	....	2	1	....	....	5	....	2	1	1	6
111. Congestion, edema, embolism, hemorrhagic infarct, and thrombosis of the lungs	....	5	....	....	....	3	....	....	....	....	4
112. Asthma	1	1	....	1	....	2	1	....	....	....	5
113. Pulmonary emphysema	....	....	....	....	....	....	....	....	....	....	....
114. Other diseases of the respiratory system	....	3	1	....	....	3	1	....	....	....	....
115. Diseases of the buccal cavity and annexa and of the pharynx and tonsils	....	6	....	2	....	4	....	....	....	1	9
116. Diseases of the esophagus	....	....	....	....	....	....	....	....	....	....	....
117. Ulcer of the stomach and duodenum	....	11	1	....	1	10	....	....	3	2	29
118. Other diseases of the stomach	....	6	....	3	....	....	....	....	....	1	2
119. Diarrhea and enteritis (under 2 years of age)	....	4	....	....	....	1	....	....	....	1	4
120. Diarrhea and enteritis (2 years and over)	1	5	1	....	....	1	....	....	1	3	7
121. Appendicitis	....	13	4	....	1	12	2	2	2	5	25
122. Hernia, intestinal obstruction	....	24	1	1	1	13	2	....	3	10	27
123. Other diseases of the intestines	....	....	....	....	....	5	....	....	1	1	8
124. Cirrhosis of the liver	2	17	....	1	2	11	1	....	....	4	34
125. Other diseases of the liver	....	1	....	....	....	....	....	....	....	....	6
126. Biliary calculi	1	5	....	....	....	11	2	1	2	2	17
127. Other diseases of the gall-bladder and biliary passages	1	5	....	2	....	2	....	1	....	....	5
128. Diseases of the pancreas	....	2	....	....	....	2	....	....	....	1	3
129. Peritonitis, cause not specified	....	....	....	....	....	1	....	....	....	....	2
130. Acute nephritis (including unspecified under 10 years of age)	....	5	1	1	1	1	....	....	....	....	5
131. Chronic nephritis	3	120	7	16	8	135	21	3	16	25	168
132. Nephritis, unspecified (10 years and over)	....	6	....	....	1	1	....	....	....	2	9
133. Other diseases of the kidneys and ureters (puerperal diseases excepted)	....	4	1	....	1	5	....	1	....	1	12
134. Calculi of the urinary passages	....	3	....	....	....	3	....	....	....	1	7
135. Diseases of the bladder	....	2	....	....	....	1	....	....	1	....	5
136. Diseases of the urethra, urinary abscess, etc.	....	....	....	....	....	....	....	....	....	1	....
137. Diseases of the prostate	....	10	....	....	2	12	2	1	3	3	24
138. Diseases of the male genital organs, not specified as venereal	....	1	....	....	....	....	....	....	....	....	....
139. Diseases of the female genital organs, not specified as venereal	....	6	2	....	1	8	1	....	5	1	7
140. Abortion with septic conditions	1	1	....	....	....	....	....	....	....	....	1
141. Abortion without mention of septic conditions	....	....	....	....	....	....	....	....	....	....	1
142. Ectopic gestation	....	....	....	....	....	....	....	....	....	....	....
143. Other accidents of pregnancy	....	....	....	....	....	1	....	....	....	....	1
144. Puerperal hemorrhage	....	2	....	1	....	2	....	....	....	1	....
145. Puerperal septicemia	....	1	....	....	....	1	....	....	....	1	2
146. Puerperal albuminuria and eclampsia	....	1	....	....	....	1	....	....	....	....	1
147. Other toxemias of pregnancy	....	....	....	....	....	....	....	....	....	1	....
148. Puerperal phlegmasia alba dolens, embolus, sudden death	....	1	....	....	....	1	....	....	....	....	....
149. Other accidents of childbirth	....	....	....	....	....	....	....	....	....	....	2
150. Other and unspecified conditions of the puerperal state	....	1	....	1	....	....	....	....	....	....	....
151. Furuncle, carbuncle	....	2	....	....	....	....	....	....	....	1	....
152. Phlegmon, acute abscess	....	....	....	....	....	....	....	....	....	....	....
153. Other diseases of the skin and annexa, and of the cellular tissue	....	1	....	....	....	....	....	....	....	....	1
154. Osteomyelitis	....	1	1	....	....	....	....	....	....	....	1
155. Other diseases of the bones (tuberculosis excepted)	....	1	....	1	....	....	....	....	....	....	2
156. Diseases of the joints and other organs of locomotion	....	....	....	....	....	....	....	....	....	....	1
157. Congenital malformations	....	16	2	3	1	8	1	....	3	2	23

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1930—Continued

	Clifton City	Hawthorne	Passaic City	Paterson	Salem County	Salem City	Somerset County	Bound Brook	North Plainfield	Somerville	Sussex County	Union County	Elizabeth	Linden	Plainfield	Rahway	Roselle	Roselle Park	Summit	Westfield	Warren County	Phillipsburg
109. Pneumonia, unspecified	1	1	1	2	1	1	4	....	....	....	4	15	10	....	1	1	1	1	....	1	2	....
110. Pleurisy	1	....	2	2	1	....	2	....	....	....	1	7	2	2	....	....	2	....	....	....	4	....
111. Congestion, edema, embolism, hemorrhagic infarct, and thrombosis of the lungs	....	....	....	2	....	....	1	....	1	....	2	4	3	....	....	....	....	....	....	....	3	....
112. Asthma	....	....	2	1	....	....	....	....	....	....	....	4	....	....	3	1	....	....	....	....	1	1
113. Pulmonary emphysema	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
114. Other diseases of the respiratory system	....	....	....	....	....	....	2	....	....	1	....	7	....	....	3	....	1	1	1	1	....	....
115. Diseases of the buccal cavity and annexa and of the pharynx and tonsils	1	2	1	3	1	1	....	....	....	....	3	8	4	1	1	1	1	....	....	....	....	....
116. Diseases of the esophagus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
117. Ulcer of the stomach and duodenum	5	....	3	19	4	1	5	1	1	....	1	21	7	3	3	....	....	2	2	....	4	2
118. Other diseases of the stomach	....	....	....	1	1	....	1	....	....	....	....	1	1	....	....	....	....	....	....	....	1	....
119. Diarrhea and enteritis (under 2 years of age)	2	....	....	1	1	....	3	....	....	....	1	12	5	2	1	....	3	....	....	....	2	1
120. Diarrhea and enteritis (2 years and over)	1	....	....	6	1	....	....	....	....	....	1	7	2	....	2	....	....	....	1	....	2	1
121. Appendicitis	1	....	9	3	2	2	8	....	2	2	2	33	14	1	4	....	3	1	5	....	3	....
122. Hernia, intestinal obstruction	3	1	7	10	4	1	7	....	1	2	6	20	12	1	1	4	1	2	....	1	1	....
123. Other diseases of the intestines	....	....	3	4	....	....	4	1	1	1	....	4	3	....	....	....	....	....	....	....	....	....
124. Cirrhosis of the liver	7	....	7	14	6	2	5	....	....	2	3	22	10	....	4	1	1	....	....	....	12	3
125. Other diseases of the liver	1	1	2	2	....	....	....	....	....	....	....	3	....	2	....	....	....	....	....	....	2	2
126. Biliary calculi	3	1	2	10	3	....	3	1	1	....	....	20	7	2	5	1	....	....	....	1	4	....
127. Other diseases of the gall-bladder and biliary passages	2	....	1	2	....	....	1	....	....	....	1	13	8	1	1	1	....	....	....	....	2	1
128. Diseases of the pancreas	....	1	....	2	....	....	....	....	....	....	1	2	....	....	1	1	....	....	....	....	1	....
129. Peritonitis, cause not specified	....	....	....	1	....	....	....	....	....	....	....	3	1	1	....	....	....	....	....	....	1	....
130. Acute nephritis (including unspecified under 10 years of age)	....	....	1	3	1	1	2	....	....	....	1	5	2	1	....	1	....	....	....	....	1	....
131. Chronic nephritis	25	11	30	83	30	11	33	3	1	10	29	174	45	5	30	7	6	6	13	13	43	15
132. Nephritis, unspecified (10 years and over)	2	....	1	6	4	1	1	....	....	....	....	7	2	....	....	....	....	....	....	1	4	2
133. Other diseases of the kidneys and ureters (puerperal diseases excepted)	1	....	1	9	2	....	3	1	2	....	....	9	4	1	1	....	1	....	....	....	2	1
134. Calculi of the urinary passages	....	....	2	5	1	....	2	....	2	....	1	5	2	1	....	....	....	....	....	....	....	....
135. Diseases of the bladder	....	2	....	3	1	1	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....
136. Diseases of the urethra, urinary abscess, etc.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
137. Diseases of the prostate	2	2	6	11	5	3	5	....	1	....	2	18	1	....	3	....	1	....	5	2	1	1
138. Diseases of the male genital organs, not specified as venereal	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	2
139. Diseases of the female genital organs, not specified as venereal	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
140. Abortion with septic conditions	1	....	3	1	1	....	5	....	1	....	1	11	4	....	1	....	....	....	....	1	1	....
141. Abortion without mention of septic conditions	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
142. Ectopic gestation	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
143. Other accidents of pregnancy	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
144. Puerperal hemorrhage	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
145. Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
146. Puerperal albuminuria and eclampsia	....	....	1	1	2	....	1	1	....	....	1	3	1	....	....	....	1	1	....	....	....	....
147. Other toxemias of pregnancy	....	....	....	1	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....	....	....
148. Puerperal phlegmasia alba dolens, embolus, sudden death	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
149. Other accidents of childbirth	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
150. Other and unspecified conditions of the puerperal state	....	....	....	2	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....
151. Furuncle, carbuncle	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
152. Phlegmon, acute abscess	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....
153. Other diseases of the skin and annexa, and of the cellular tissue	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
154. Osteomyelitis	....	....	....	1	....	....	....	....	....	....	....	2	1	....	1	....	....	....	....	....	....	....
155. Other diseases of the bones (tuberculosis excepted)	....	....	....	....	....	....	....	....	....	1	....	2	....	....	....	....	....	....	....	....	....	....
156. Diseases of the joints and other organs of locomotion	....	....	....	2	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....
157. Congenital malformations	....	....	1	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	1	....
	4	....	6	11	6	2	7	1	....	2	1	24	12	2	5	2	1	1	....	1	2	1

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

	State Total	Atlantic County	Atlantic City	Hammonton	Pleasantville	Bergen County	Bergenfield	Cliffside Park	Englewood	Fairview	Fort Lee	Garfield	Hackensack
158. Congenital debility	49	1				6						2	2
159. Premature birth	661	20	15	2	1	47		1	4		2	2	1
160. Injury at birth	242	5	1	1		20	1					1	1
161. Other diseases peculiar to early infancy	143	4	2			4			1				
162. Senility	150	6	3		1	10		2					1
163. Suicide by solid or liquid poisons or by absorption of corrosive substances	51					2							
164. Suicide by poisonous gas	217	6	4	2		24	1		1	1	4	1	
165. Suicide by hanging or strangulation	189	8	6			22		1	1		1	2	2
166. Suicide by drowning	24	1	1			1							1
167. Suicide by firearms	127	3	3			13			1	1		1	
168. Suicide by cutting or piercing instruments	25	2	1			2							
169. Suicide by jumping from high places	38	1	1			1				1			
170. Suicide by crushing	5												1
171. Suicide by other means	6					2							
172. Infanticide	6	4	4										
173. Homicide by firearms	54	3	3			4						1	1
174. Homicide by cutting or piercing instruments	22												
175. Homicide by other means	41	3	3			1							
176. Attack by venomous animals	2												
177. Poisoning by food	1												
178. Accidental absorption of poisonous gas	99	7	6			4	1		1				
179. Other acute accidental poisonings (gas excepted)	33	1	1										
180. Conflagration	54	3	2			3							
181. Accidental burns (conflagration excepted)	137	6	3		2	9		1					
182. Accidental mechanical suffocation	27					2							
183. Accidental drowning	231	11	8			19			1		2	2	4
184. Accidental traumatism by firearms	22	1											
185. Accidental traumatism by cutting or piercing instruments	4												
186a Accidental traumatism by fall	738	30	21		1	57	1	2	1	1	2	2	5
186b Accidental traumatism by crushing, landslide	923	48	20	5	6	72	2	4	4	4	2	3	4
187. Cataclysm	6												
188. Injuries by animals	6												
189. Hunger and thirst	2	1	1										
190. Excessive cold	4	1	1										
191. Excessive heat	13	1			1	3				1			
192. Lightning	6												
193. Accidents due to electric currents	22	3			1								
194. Other accidents	96	1				4		1					
195. Violent deaths of which the nature is unknown	33	1	1			1							
196. Wounds of war													
197. Execution of civilians by belligerent armies													
198. Legal executions	7												
199. Sudden death													
200. Cause of death not specified or ill-defined	22	2	1										
Total	14045	1719	981	93	156	3594	78	136	215	63	91	181	265
Supplemental Tabulation of Certain Types of Violent and Accidental Deaths (Adjusted for Residence)—1938													
201. Accidents in mines and quarries	3					1							
202. Accidents from agricultural machinery	1												
203. Elevator accidents													
204. Accidents from machinery used for recreation													
205. Other machinery accidents	17												
206. Railroad and automobile collisions	23	1				1			1				
207. Other railroad accidents	73	3		1		2							
208. Street car and automobile collisions	2												
209. Other street car accidents	8					1		1					
210. Automobile accidents (primary)	816	46	22	4	6	67	2	3	3	4	2	3	4
211. Motorcycle accidents	11												
212. Other land transportation accidents	16					1							1
213. Water transportation accidents	44	1				6	1						2
214. Air transportation accidents	3												

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

Lodi	North Arlington	Ridgefield Park	Ridgewood	Rutherford	Wallington	Burlington County	Burlentown	Burlington City	Camden County	Audubon	Camden City	Collingswood	Gloucester City	Haddonfield	Cape May County	Cumberland County	Bridgeton	Millville	Vineland	Essex County	Belleville
	1					5			7		4		1			2	1	1		5	
2	1		1	1		22	3	4	53	1	21	1	6	2	3	12	4	4		143	4
	1		1	1		8	1	1	14	1	5			2		5	2	1		51	1
1					1	3	1		14		8					1				28	1
						4	3		6		4	1	1		6	6	1	2		37	
						1			2		1	1			3	2				18	
			3	1	1	5			6		2		1		1	3				68	2
			2		2	2			6		4				1	2				32	
									1		1				1					6	1
						4			1							4	2	1		15	1
						2														6	
						2			2		2									12	
									1		1									2	1
																				2	
1					1				4		4				2					10	
									2	1	1				1					9	
						1									1	3				10	
									1		1										
						2			3		1				2		1			32	3
									2		1					1		1		6	
			1						1							1	1			13	
1		1			1	2			11		7	1	1			5		1	1	30	1
	1	1	1	1		6	2	1	11		7		2		8	8	1	2	2	35	1
					1				1				1		2					2	
2		3	4	2		22	1	8	31		17	1		2	4	8	2	2	2	164	3
3	1		2	6	1	37		3	73	1	28	3	3		8	16		4	2	139	5
																1				5	
																				1	
																1		1		3	
																				2	
						2			9		3	1	1		1	2			1	21	1
																				5	
									1											2	
																1				2	
75	81	119	160	165	63	1174	76	155	2846	90	1357	162	187	110	462	909	218	206	89	8905	259
									1		1				1					1	
						1			1							1	1			1	1
						3			3		1		1		1					9	
																				1	
3	1		2	6	1	32		3	73	1	28	3	2		6	15		4	3	125	3
						1			1		1					1				3	1
				1		1		1	2		1		1		3	2			2	3	
																				1	

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

	Bloomfield	East Orange	Irvington	Montclair	Newark	Nutley	Orange	South Orange	West Orange	Gloucester County	Woodbury
158. Congenital debility				1	3			1		2	
159. Premature birth	7	12	5	6	97	4	10		5	8	
160. Injury at birth	4	12	3		30		3		4	2	
161. Other diseases peculiar to early infancy	2	12	2	1	17			1	1	4	
162. Senility	1	4	4	2	25		1				
163. Suicide by solid or liquid poisons or by absorption of corrosive substances			1	1	12			2	1	1	1
164. Suicide by poisonous gas	3	7	13	4	21	3	3	3	1	1	
165. Suicide by hanging or strangulation	1	2	3	2	15			1	3	2	
166. Suicide by drowning		1			4						
167. Suicide by firearms	2	3	2		5		1			7	1
168. Suicide by cutting or piercing instruments		3	1		2						
169. Suicide by jumping from high places		3			8						
170. Suicide by crushing					1						
171. Suicide by other means					1				1		
172. Infanticide										4	2
173. Homicide by firearms		2			8						
174. Homicide by cutting or piercing instruments				1	8					1	
175. Homicide by other means		1		2	6						
176. Attack by venomous animals										1	
177. Poisoning by food										2	
178. Accidental absorption of poisonous gas		3	1		18	1	1				
179. Other acute accidental poisonings (gas excepted)		1			3					1	1
180. Conflagration		1			12					2	
181. Accidental burns (conflagration excepted)	2	1	1	2	20		1		1		
182. Accidental mechanical suffocation	1				2					3	1
183. Accidental drowning	1	4		1	22	4			1	2	
184. Accidental traumatism by firearms											
185. Accidental traumatism by cutting or piercing instruments											
186a Accidental traumatism by fall	2	13	14	8	93	4	5	4	5	14	
186b Accidental traumatism by crushing, landslide	8	8	13	7	77	3	4		1	18	1
187. Cataclysm				1			2		2		
188. Injuries by animals					1						
189. Hunger and thirst										1	
190. Excessive cold					3					1	
191. Excessive heat					2						
192. Lightning					2					1	
193. Accidents due to electric currents			3	2	11		1			1	
194. Other accidents					5						
195. Violent deaths of which the nature is unknown											
196. Wounds of war											
197. Execution of civilians by belligerent armies					2					2	
198. Legal executions											
199. Sudden death			1		1						
200. Cause of death not specified or ill-defined	362	783	532	437	4940	199	357	141	244	860	97
Total											
Supplemental Tabulation of Certain Types of Violent and Accidental Deaths (Adjusted for Residence)—1938											
201. Accidents in mines and quarries											
202. Accidents from agricultural machinery											
203. Elevator accidents											
204. Accidents from machinery used for recreation					1						
205. Other machinery accidents					6					1	
206. Railroad and automobile collisions	1		1								
207. Other railroad accidents								1			
208. Street car and automobile collisions											
209. Other street car accidents	7	8	11	7	72	3	3			17	
210. Automobile accidents (primary)					3		1		1		
211. Motorcycle accidents		1				1				1	
212. Other land transportation accidents				1							
213. Water transportation accidents											
214. Air transportation accidents											

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES
FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

Hudson County	Bayonne	Guttenberg	Harrison	Hoboken	Jersey City	Kearny	Secaucus	Union City	West New York	Hunterdon County	Lambertville	Mercer County	Princeton	Trenton	Middlesex County	Carteret	Highland Park	New Brunswick	Perth Amboy	Sayreville	South Amboy
2					1			1		2					8	2					
39	15	2	1	5	47	2		8	4	10	3	34		22	29	1		6	7		2
41	3		1	1	23	2		3	2	3	1	11		6	18		1	3	4	2	3
21	2	1			10	2	1	2				5	1	1	9	1		4		1	
10					3	1		2	1	7		2		1	6				1		1
4			1		2				1	1		3		3	1						
18	1			1	6	2		4				4		3	7	1		2	1		
38	6			6	11	3	1	8		12		6	1	4	13			3	3		
1		1										3		3							
21	2			2	11	1	1		2	3		3	1	1	4			1			
												3		3	6		2	1	2		
9				3	4				2						1			1			
															1						
1					1																
2								1		1		3		3	5			1	2		
7				2	3		2								1				1		
6	1		1		2	1						1		1	5			2	2		1
1					1																
															2				1		
11				1	10										5	1			1		
9	1				4		3		1			1		1							
6					3							4		3	4						
24	3		1	2	12	2		1				4		3	9				1	1	
3	1			1	1										1				1		
53	5			9	25	3	2	3	1	2		3		2	15	1		1	3		1
4				1	1			1							2			1			
142	10	1	7	12	80	4	3	14	2	10	2	39	3	24	29	1		2	5		4
110	7		4	6	58	2	3	9	9	12	1	41		20	63	4	3	6	12	2	2
1															1		1				
															1						
2					2							2		2							
1					1																
1	1											1		1	2			1			
18	1	1		3	5	3		1	2			3		2	3				1		
2	1				1							3		3	1				1		
												1									
2				1	1							1		1	2	2					
6880	693	62	158	607	3431	373	80	599	331	487	71	1934	68	1298	2026	107	75	392	381	72	90
5	1				3			1	1												
11			1		9				2			2		2	3				3		
												4		2	11	2			2		2
90	6		3	7	45	2	3	8	6	10	1	34		16	52	2	3	6	7	2	1
3			1						2												
3					2			1				1			1						
14	2			1	7			1							2			1	1		
												1									

TABLE 20.—DEATHS, ADJUSTED FOR RESIDENCE, FROM EACH CAUSE, DETAILED OF 5,000 OR MORE INHABITANTS IN 1930. COUNTY

INTERNATIONAL LIST, IN THE COUNTIES OF NEW JERSEY AND MUNICIPALITIES FIGURES INCLUDE PLACES WHICH FOLLOW: 1938—Continued

	South River	Monmouth County	Asbury Park	Long Branch	Red Bank	Morris County	Dover	Madison	Morristown	Ocean County	Passaic County
158. Congenital debility		1				1				1	2
159. Premature birth	2	22	6	2		19	1	1	2	15	46
160. Injury at birth		8	2		1	6	1			1	16
161. Other diseases peculiar to early infancy		4		1		9	1		1		11
162. Senility		19		4		6	1		2	1	13
163. Suicide by solid or liquid poisons or by absorption of corrosive substances		3	1		1	3				1	2
164. Suicide by poisonous gas		11		2		5	1		1	3	30
165. Suicide by hanging or strangulation		3				10	1		2	4	11
166. Suicide by drowning		1		1							2
167. Suicide by firearms	1	11	1			4	1			4	9
168. Suicide by cutting or piercing instruments		2									
169. Suicide by jumping from high places		1									4
170. Suicide by crushing											
171. Suicide by other means											
172. Infanticide											
173. Homicide by firearms		5	2			2	1				8
174. Homicide by cutting or piercing instruments											2
175. Homicide by other means		4									3
176. Attack by venomous animals										1	1
177. Poisoning by food											
178. Accidental absorption of poisonous gas		6			3	1					11
179. Other acute accidental poisonings (gas excepted)		1				1				1	2
180. Conflagration	1	1				1					5
181. Accidental burns (conflagration excepted)	2	7			2	3	1			4	6
182. Accidental mechanical suffocation		3				2		1			
183. Accidental drowning	1	13		1	1	4				3	13
184. Accidental traumatism by firearms		1									3
185. Accidental traumatism by cutting or piercing instruments		1				1					
186a Accidental traumatism by fall	2	32	3	2	3	15	2	3	1	18	50
186b Accidental traumatism by crushing, landslide	2	49	3	4	5	37	1	2	6		64
187. Cataclysm										1	
188. Injuries by animals											
189. Hunger and thirst											
190. Excessive cold											
191. Excessive heat											
192. Lightning		1				3	1		1		3
193. Accidents due to electric currents						7	2				6
194. Other accidents		4									
195. Violent deaths of which the nature is unknown		1				1					1
196. Wounds of war											
197. Execution of civilians by belligerent armies											
198. Legal executions											
199. Sudden death											4
200. Cause of death not specified or ill-defined											
Total	7	268	20	21	16	135	12	7	22	53	297
Supplemental Tabulation of Certain Types of Violent and Accidental Deaths (Adjusted for Residence)—1938											
201. Accidents in mines and quarries						2	1				
202. Accidents from agricultural machinery											1
203. Elevator accidents											
204. Accidents from machinery used for recreation											1
205. Other machinery accidents		2				2				1	1
206. Railroad and automobile collisions		3		1							6
207. Other railroad accidents		4				4	1				
208. Street car and automobile collisions											
209. Other street car accidents											
210. Automobile accidents (primary)	2	41	3	3	5	27		2	4	11	57
211. Motorcycle accidents						1			1		1
212. Other land transportation accidents		1				1					1
213. Water transportation accidents		2								2	2
214. Air transportation accidents						1			1		

	Clifton City	Hawthorne	Passaic City	Paterson	Salem County	Salem City	Somerset County	Bound Brook	North Plainfield	Somerville	Sussex County	Union County	Elizabeth	Linden	Plainfield	Rahway	Roselle	Roselle Park	Summit	Westfield	Warren County	Phillipsburg
158. Congenital debility	1			1								4	2									
159. Premature birth	8	2	5	16	10	3	9	1		1	11	46	19	4	7	2	3	2	1	2	6	2
160. Injury at birth	1		5	7	2	2	3				2	24	14	1	2	1	1	1		1	2	
161. Other diseases peculiar to early infancy	2	1	1	6	1	1	2				2	17	9				2				4	2
162. Senility			2	9	4	1	1				1	4	1		1			1			1	
163. Suicide by solid or liquid poisons or by absorption of corrosive substances			1				2					1			1						1	
164. Suicide by poisonous gas	4	2	6	15	1		4		1	1		20	4	1	3	1	1			2		
165. Suicide by hanging or strangulation	1	1	3	6	2	2	3	1	1	1		9	1			1	1			1	3	2
166. Suicide by drowning	1			1	2						2	2	1						1		3	1
167. Suicide by firearms			3	4	2		5			2	5	4	1	1		1					3	
168. Suicide by cutting or piercing instruments											1	1										
169. Suicide by jumping from high places			1	3								4		1		1				1	1	
170. Suicide by crushing							1															
171. Suicide by other means					1						1											
172. Infanticide											1											
173. Homicide by firearms	1	1	1	5								1				1						
174. Homicide by cutting or piercing instruments	1			1																		
175. Homicide by other means			1	2	1		1															
176. Attack by venomous animals					1																	
177. Poisoning by food		1	2	5								13	6		1					3		
178. Accidental absorption of poisonous gas				2	1		3		2			3	2						1			
179. Other acute accidental poisonings (gas excepted)				5	2						6	2	1								3	
180. Conflagration				4	3		6	1			1	5	1	1	1					1		
181. Accidental burns (conflagration excepted)					1	1	1				1	2	1	1								
182. Accidental mechanical suffocation	1	1	4	4	2		3				4	11	5		3					1	4	
183. Accidental drowning	1			2	1		1			1	1	1						1				
184. Accidental traumatism by firearms																						
185. Accidental traumatism by cutting or piercing instruments																						
186a Accidental traumatism by fall	5		8	28	10	2	13	2	3	2	6	40	17		4	2	3		3	2	6	3
186b Accidental traumatism by crushing, landslide	8	2	18	28	20	4	15	3	2	2	7	74	20	3	16	6	2	4	6	6	11	3
187. Cataclysm																						
188. Injuries by animals							1														1	
189. Hunger and thirst											1											
190. Excessive cold												1	1									
191. Excessive heat											1										1	
192. Lightning							1			1												
193. Accidents due to electric currents			1	1			1	1			2	1		1							3	1
194. Other accidents	2		1	3	1	1	1					7	2	2	3						3	1
195. Violent deaths of which the nature is unknown				1								14	3	2	4		1		1	1	1	1
196. Wounds of war																						
197. Execution of civilians by belligerent armies																						
198. Legal executions												1			1							
199. Sudden death																						
200. Cause of death not specified or ill-defined				3								7	3			1		1		2		
Total	362	109	534	1598	464	130	684	71	106	121	378	3114	1156	148	404	169	147	87	152	198	615	216
Supplemental Tabulation of Certain Types of Violent and Accidental Deaths (Adjusted for Residence)—1938																						
201. Accidents in mines and quarries																						
202. Accidents from agricultural machinery	1																					
203. Elevator accidents																						
204. Accidents from machinery used for recreation												3	2			1						
205. Other machinery accidents	1											3			3							
206. Railroad and automobile collisions			3	2			4	2				6	1		2			2			1	
207. Other railroad accidents																						
208. Street car and automobile collisions																						
209. Other street car accidents	7	2	15	26	21	4	12	1	2	2	8	62	16	3	10	5	2	2	6	6	10	3
210. Automobile accidents (primary)				1								1	1									
211. Motorcycle accidents				1								1								1		
212. Other land transportation accidents		1	2		1																1	
213. Water transportation accidents																						
214. Air transportation accidents																						

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938

		AGRICULTURE, FORESTRY AND ANIMAL HUSBANDRY						EXTRACTION OF MINERALS			
		Farmers	Farm laborers	Fishermen and oystermen	Gardeners, florists, fruit growers and nurserymen	Other agricultural and animal husbandry pursuits	Totals	Foremen, overseers and inspectors	Miners	Quarry operatives	Totals
Tuberculosis of the respiratory system	10 to 19		1								
	20 to 29	3	1		3						
	30 to 39	4	2						1		
	40 to 49		3	1	3						
	50 to 59	6	4	2					1		
	60 to 69	5	3		2				1		
	70 to 79	5									
	80 and over										
	Totals	23	14	3	8				3		
Cancer and other malignant tumors	10 to 19		1								
	20 to 29										
	30 to 39					1					
	40 to 49	6	2	1	2	1					
	50 to 59	24	3	2	5	1			1		
	60 to 69	29	7	4	10	1					2
	70 to 79	22	9	2	5	1					
	80 and over	14	2		2						
	Totals	95	24	9	24	5			1		2
Diseases of the nervous system and of the organs of special sense	10 to 19										
	20 to 29	2									
	30 to 39	1		1					1		
	40 to 49	3	1		2						
	50 to 59	11	4		3						
	60 to 69	17	4	1	8				1		
	70 to 79	34	6	1	4				1		
	80 and over	14	4	2	2	1					
	Totals	82	19	5	19	1			3		
Diseases of the circulatory system	10 to 19		2								
	20 to 29		3		1						
	30 to 39	1	2								
	40 to 49	7	7	2	1						
	50 to 59	36	14	2	10	2		1	2		1
	60 to 69	66	17	7	19	3		1	2		
	70 to 79	127	19	9	28	2			3		1
	80 and over	93	15	5	17				1		1
	Totals	330	79	25	76	7		2	8		3

		MANUFACTURING AND MECHANICAL INDUSTRIES																				
		Bakers	Blacksmiths, forgemen and hammermen	Boilermakers	Brick and stone masons	Builders and building contractors	Carpenters, coopers and cabinet makers	Compositors, linotypers and typesetters	Dressmakers and seamstresses (not in factory)	Dyers	Electricians and electrical engineers	Engineers (stationary)	Engravers	Filers, grinders, buffers and polishers (metal)	Firemen (except locomotive and fire department)	Glassblowers	Jewelers, watchmakers, goldsmiths and silversmiths	Laborers—	General and not specified	Building and hand trades	Chemical industries	Clay and stone industries (excepting potteries)
Tuberculosis of the respiratory system	10 to 19						2												3			
	20 to 29			1	2	1	3		2	1	6	4			2		1		24			
	30 to 39	1		2	3		6				2	1			1		1		35	2	1	
	40 to 49	3	1		3	1	9					1	1		1				40	1	1	1
	50 to 59	1	1		3	3	10					5			1				40	1	2	
	60 to 69				2	1	1					2					1		23	1	1	
	70 to 79	1																	4			
	80 and over																		1			
	Totals	6	2	3	13	6	31		2	1	8	13	1		7		5		170	5	5	1
Cancer and other malignant tumors	10 to 19																			1		
	20 to 29						2		2	1	1								3	1		
	30 to 39		1				2		1		2								16			1
	40 to 49	2	1		3	3	6					1	1		4	1			31		1	
	50 to 59	2	3	1	9	4	30	1	2	1	6	15	1	3	3		2		69	2	3	2
	60 to 69	5	4	3	17	7	35		5	1	6	7		1	7		5		70	3	3	1
	70 to 79	4	2	2	8	6	25	2	4	1		13			1		3		41	2		
	80 and over	1	2		2	1	4	1				3		1	1	1	2		10			
	Totals	14	13	6	39	21	102	4	14	4	15	39	2	5	16	2	12		240	9	6	4
Diseases of the nervous system and of the organs of special sense	10 to 19	1																	1			
	20 to 29								1		2			1					6			
	30 to 39	3	2		3	1	4		1			1		1					16			
	40 to 49	1		2	5	3	12		4	1	4	5		1			3		19			1
	50 to 59		5	1	12	1	23	2	2		1	5	2	2		1	2		42		1	1
	60 to 69	4	7	3	3	6	24		3		1	7		3		1	1		48		1	1
	70 to 79				2		9					2	1			1	2		9			
	80 and over																					
	Totals	9	14	6	25	11	72	2	11	1	8	20	3	8		3	8		189	2	3	2
Diseases of the circulatory system	10 to 19																		1	1		
	20 to 29	2				1					1						1		17			
	30 to 39	2		1	2		4	1	1		1				1				25	3	1	
	40 to 49	5	5	2	5	2	15	2	4	3	6	8			2	3	4		76	2	3	
	50 to 59	8	10	7	6	11	46	1	2	1	10	22		1	18	2	14		145	7	7	1
	60 to 69	14	18	2	21	21	58	2	4	2	8	32	2	1	17	2	13		203	10	5	
	70 to 79	11	12	4	28	12	78	4	14	3	4	27	3	3	14	3	13		138	3	3	1
	80 and over	2	3		12	6	42	1	8		2	6		1	7	1	14		56	1	1	1
	Totals	44	48	16	74	52	244	11	33	9	32	95	5	6	59	11	59		661	27	20	3

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

	Glass Industries	Iron, steel and other metal Industries	Leather Industries	Lumber and furniture industries	Potteries	Rubber Industries	Textile Industries	Other Industries		Machinists, millwrights and toolmakers	Managers, superintendents and foremen (manufacturing)	Manufacturers and officials	Mechanics (gunsmiths, locksmiths, wheelwrights, etc.)
Tuberculosis of the respiratory system													
10 to 19										4	1		1
20 to 29		3						1		2	1		5
30 to 39		2								3	3	2	7
40 to 49										5	3		12
50 to 59								1		1	3	1	12
60 to 69											1	1	1
70 to 79								1					
80 and over													
Totals		5						3		15	12	4	18
Cancer and other malignant tumors													
10 to 19													
20 to 29							1						1
30 to 39						1		1		2	1		3
40 to 49		4		1		1	2	2		10	4	3	12
50 to 59		3	1			1	1			23	10	8	8
60 to 69		5						4		24	12	11	1
70 to 79		3					1	1		13	8	6	2
80 and over											1	6	
Totals		15	1	1		3	5	8		72	36	34	17
Diseases of the nervous system and of the organs of special sense													
10 to 19													
20 to 29													1
30 to 39		1									2		1
40 to 49								1		1	2	1	2
50 to 59		3				1				6	5	3	4
60 to 69		1				1		2		13	9	5	2
70 to 79		2					1			10	1	3	3
80 and over										2		4	
Totals		7			2		1	4		32	19	16	13
Diseases of the circulatory system													
10 to 19													
20 to 29							1			2	3		5
30 to 39		3						2		5	3	2	7
40 to 49		4	1		1	1	2	8		28	16	5	12
50 to 59		9	1			2	2	8		45	30	26	17
60 to 69	1	7		1	1		3	7		51	38	23	13
70 to 79	1	4		1				2		42	18	20	8
80 and over								1		10	10	12	3
Totals	2	27	2	2	2	3	8	26		183	118	88	65

	Millers (grain, flour, feed, etc.)	Milliners and millinery dealers	Moulders, founders and casters	Painters, glaziers, varnishers, enamelers, etc.	Paperhangers	Plasterers	Plumbers and gas and steam fitters	Pressmen (printing)	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	Leather Industries	Lumber and furniture Industries
Tuberculosis of the respiratory system																			
10 to 19										4				1					
20 to 29				1						16		5		8	1		6	1	
30 to 39		1	2	4			4	2		5							5		
40 to 49			4	6			2	3		3	2	1		1	2		3	3	
50 to 59			1	2	1		2	1	1	2			3	2	4		11	4	1
60 to 69														1					
70 to 79			3				1				1						1	2	
80 and over																			
Totals		1	9	23	2		16	9	1	35	3	6	3	13	7		26	10	1
Cancer and other malignant tumors																			
10 to 19																			
20 to 29				1				1						1					
30 to 39				1			2	2			2				1		5		
40 to 49			1	4			2	1		1	3		1	3			7	2	
50 to 59		1	5	12			8	2	1	2	3	1		9	3		11	3	1
60 to 69			3	31	3	1	11	5	3	8	3	2	4	4	4		10	10	1
70 to 79		2	1	25		1	2	1		4	2	2		5	1	2	3	1	2
80 and over			1	6						1	1	1					1	2	1
Totals		3	11	80	3	2	30	12	4	16	14	6	5	22	9	2	37	18	5
Diseases of the nervous system and of the organs of special sense																			
10 to 19										1				1					
20 to 29				1						3				2					
30 to 39				3			1				1								
40 to 49			2	2		1	4	1		1	1						2		
50 to 59			1	9			4	1		6					1		3	1	3
60 to 69	1		3	10	1		8	4		3	3			2	1	2	4	6	2
70 to 79	1	2	3	11				4		6	1			4	1	4	8	2	2
80 and over				3				1							2	3	1	1	
Totals	2	2	9	39	1	1	17	11		20	6			9	5	9	18	10	7
Diseases of the circulatory system																			
10 to 19										1									
20 to 29							1			2	1								2
30 to 39			6	1			3	1	1		1	1		1	2		2		1
40 to 49		6	16		1	1	10	2		10	2		2	7	2	1	11	5	
50 to 59	1	2	4	33	2	1	20	11		12	6	2	1	7	3	1	26	5	1
60 to 69		2	6	48	3	1	29	15	4	18	11	4	3	8	3		26	7	2
70 to 79	1	2	6	39	2	1	8	5	1	13	8	4	2	16	10	2	27	7	2
80 and over		2	4	19	2		6	4	1	7	1	1		2	2	2	7	3	4
Totals	2	7	26	161	10	4	77	38	7	63	30	12	8	45	23	6	99	27	19

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

		Potteries	Rubber Industries	Textile Industries	Other Industries	Shoemakers and cobblers (not in factory)	Stonecutters	Tailors and tailoresses	Tinsmiths and coppersmiths	Upholsterers	Other manufacturing and mechanical industries	TRANSPORTATION	Water—	Boatmen, canalmen, sailors and deck hands	Longshoremen and stevedores	Other pursuits	Road and Street—	Carriage and truck drivers, draymen, teamsters and expressmen	Chauffeurs	Contractors and foremen (road building)	Garage keepers and managers	Laborers (road building) and street cleaners	Livery stable keepers and managers, hostlers and stable hands	Other pursuits	Railroad—	Baggagemen and freight agents	Brakemen	Conductors	Foremen, overseers and inspectors	Laborers	Locomotive engineers	Locomotive firemen
Tuberculosis of the respiratory system	10 to 19			1	1																										
	20 to 29			2	1						1							14					4								
	30 to 39	1		5	1			2						6			2	6					1								
	40 to 49			2	3			2					6	4			1	10	1		2		2				1		5		
	50 to 59	2		3	1			3	1				1			1	2	3				2	2				2				1
	60 to 69	3		3		1	1	1						1	1			1			1		1					1	1		
	70 to 79		1	1									1																		
	80 and over																														
	Totals	8	1	17	13	1	1	9	1		1		8	5	2		5	34	1		3	2	9			3		1	6		1
Cancer and other malignant tumors	10 to 19																														
	20 to 29	1		1														2													
	30 to 39	1	1	3	1		1				1			1				1					1			1					
	40 to 49	1	1	4	5		1							1	1		1	3					1			1	3	3			
	50 to 59	3	4	14	6		5				2			2		1	2	11					4			1	4	3	2	1	
	60 to 69	3	1	18	17		4	1	9	1	1	3		3		2	3	2		1			4		2	3	2	1	4	3	
	70 to 79	1		8	6		4		2	5	1	3		5	2	2	1		2	1	2		3			2	2	3		3	
	80 and over			4			1		1			1					1	1					1				1				
	Totals	10	7	50	35	1	16	1	25	6	2	10		14	3	5	5	24	2	2	2		9		2	8	12	10	8	8	1
Diseases of the nervous system and of the organs of special sense	10 to 19																														
	20 to 29			1						1											2							1			
	30 to 39			2	1				1									3													
	40 to 49			1	5				1						1			3		1			2				3		2	1	
	50 to 59	1	1	2	2		4		4					2	2			3			1		1			1	4	1	2	1	
	60 to 69	2	1	15	6		3		7	2	1	4		3	1			3	1		4	1	4		1	1	2	1	2	1	
	70 to 79	1	1	12	6		3	1	3		1	7		2			2	1	2		2		2		1		1		1		
	80 and over			6	1				1		1			1			1											1			
	Totals	2	3	39	21	1	10	1	17	3	4	11		6	3		3	14	2	1	7	1	9		2	1	8	1	7	3	
Diseases of the circulatory system	10 to 19				1																										
	20 to 29		2	1	4				1																						
	30 to 39	2		4	2									2			1	4					2					1			
	40 to 49		1	11	12		2		7	2		4		2	3		1	18					2								
	50 to 59	3	3	13	28		8		19		2	7		2	3		1	24			2		8			2	3	1	1	2	2
	60 to 69	2	5	37	23		11	1	20	7	3	12		10	5	1	4	14	1	6	5	3	9		1	4	6	4	7	6	1
	70 to 79	5	6	35	21		9	1	11	5	2	10		13	9	3	2	14		3	3	3	4		1		4	6	7	5	1
	80 and over			15	5		4	1	4	2	1	3		9	3	4	4	3	2			1	3		1	5	9	5	4	5	
	Totals	10	17	116	96	3	34	3	62	16	8	36		12	1	3	3	2	1				2			1		1	1	2	
														48	21	11		14	80	3	10	11	7	35	3	12	23	17	20	20	4

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

TRADE	Motormen	Officials and superintendents	Switchmen, flagmen and yardmen	Ticket and station agents	Other pursuits	Express, Post, Telegraph and Telephone—	Express messengers and railway mail clerks	Linemen	Mail carriers	Telegraph operators	Telephone operators	Other pursuits
Tuberculosis of the respiratory system												
10 to 19										1	1	
20 to 29			2						1			
30 to 39			1						1	1		1
40 to 49					2					1		1
50 to 59												
60 to 69												
70 to 79												
80 and over												
Totals			3		2				2	2	1	2
Cancer and other malignant tumors												
10 to 19												
20 to 29												
30 to 39					1							
40 to 49		2	2		2			1	1	2	2	2
50 to 59		1	1		2				3	2		4
60 to 69	1		1	1	2					1		2
70 to 79	1		2		5							
80 and over												
Totals	2	3	5	1	17			1	4	5	2	11
Diseases of the nervous system and of the organs of special sense												
10 to 19												1
20 to 29					1					1		
30 to 39								1		1		
40 to 49					5							1
50 to 59	1			1	2		1		1	1		3
60 to 69	1	1	3		6			1		1		2
70 to 79												1
80 and over												
Totals	2	1	3	2	13		1	1	2	4		8
Diseases of the circulatory system												
10 to 19												
20 to 29												
30 to 39					2			2	1	1	1	1
40 to 49			5	1	3				1	1		7
50 to 59	2	1	1	1	9				1	2	1	8
60 to 69	4	1	4	2	20		3	1	7	3	2	5
70 to 79	2	4	4	2	8				1	2		3
80 and over		2	3	1	2			1	1	1		3
Totals	8	8	17	7	44		3	4	12	10	4	27

TRADE	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)	Firemen (fire department)	Laborers (public service)	Marshals, sheriffs, detectives, etc.	Officials and inspectors (city, county, state, U.S.)	Policemen	Soldiers, sailors and marines	Other pursuits
Tuberculosis of the respiratory system																	
10 to 19			2														
20 to 29				1		6		3	3			1					
30 to 39	2	1	1	1	2	8		5	3			2			1		2
40 to 49		2		1		7	2	6			1	3		2	1		3
50 to 59	1				3	8		6				3					3
60 to 69						3		5	1			2					2
70 to 79	1				1	3		1				1		1			3
80 and over																	
Totals	4	3	5	3	6	35	2	26	7		1	13		3	2		20
Cancer and other malignant tumors																	
10 to 19								1									3
20 to 29																	1
30 to 39			2		2	6		4	2								1
40 to 49	4		3		4	6		22	5		3	4			3		8
50 to 59	2		4		14	22	1	30	4		4	10	2	4	2		11
60 to 69	7	4	3		26	28		56	5		6	8		7	5		29
70 to 79	3	1		1	11	12	2	32	1		1	1		3	5	1	14
80 and over		2			2	5		12				1		1			2
Totals	16	7	12	1	59	79	3	157	17		14	24	2	15	15	1	69
Diseases of the nervous system and of the organs of special sense																	
10 to 19																	
20 to 29						3		3									
30 to 39					3	1		2	1			2			2	1	2
40 to 49	1				3	5		8	3			1			2		3
50 to 59	4	3	1		4	8		22			1	1			6		10
60 to 69	2	3		1	12	7		34	3		2	8	1	2		1	13
70 to 79	2	1		1	5	8	2	30			1	2		4	4		21
80 and over	3			1	1	2	1	12				1	2	1	1		3
Totals	16	7	1	3	28	34	3	111	7		5	23	4	8	15	2	52
Diseases of the circulatory system									1								
10 to 19		1		1		8		3			1	3					1
20 to 29	3	4		2	3	13	1	13	1			5			3		2
30 to 39	4	3	2	4	16	28		49	9		12	17	1	3	7		20
40 to 49	12	4	1	2	23	58	2	95	17		8	23	2	15	20	1	43
50 to 69	15	6	1	4	58	56		162	19		3	23	2	22	19	1	62
60 to 69	8	2	1	1	33	52	2	124	4		1	5	3	17	13	2	38
70 to 79	5	1		1	10	18	2	47	3		1			2	5		14
80 and over																	
Totals	47	21	5	15	141	233	7	493	56		26	82	8	59	67	10	207

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

		PROFESSIONAL SERVICE													DOMESTIC AND PERSONAL SERVICE										CLERICAL OCCUPATIONS				
		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	Barbers, hairdressers and manicurists	Bartenders	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	Waiters	Other pursuits	Agents, canvassers and collectors	Bookkeepers, cashiers and accountants	Clerks (except clerks in stores)	Other clerical pursuits	Totals
Tuberculosis of the respiratory system	10 to 19													1				14						4						33
	20 to 29								2		1		2	3	6	2		86		4	3			19	4	6		2	1	4	304
	30 to 39			1							3		5	6	2	1		90		5	3	1		16	3	6	1	2	26	4	326
	40 to 49									1	1	1	1	1		3		71	1	2	4		2	15	2	2	2		23	6	312
	50 to 59				1		1	2				1		1	2		2	61	3	2	4	1		5		6	2	2	9		294
	60 to 69	1						1							1			45	1		1	1		5	2	4			7	4	182
	70 to 79	1																12	1					1		2			1	1	63
	80 and over																	2													5
	Totals	2	1	1	1		1	3	1	5	2	1	9	15	11	6	2	381	6	13	15	3	2	65	11	26	3	20	70	15	1519
Cancer and other malignant tumors	10 to 19																														
	20 to 29					1							2	2																	2
	30 to 39						1	1	2				2	3				19		1				1					2		7
	40 to 49		1		1	1		1	1	1	1	1	11	13	1	1		123						5	2	1		2	5	1	50
	50 to 59	1	1		1	2			1	3		1	11	18	1	1		337	3	4	2	1	2	15	2	2		5	1	1	222
	60 to 69	1	1		2	2		3	4	4		3	13	19	1	7	2	523	7	3	4	6	3	15	2	2	2	8	14	4	660
	70 to 79	1		1	1	6		3	4		3	2	4	15	10	2	1	590	12	1	2	2	3	15	2	16	4	10	18	6	1172
	80 and over		1			1		2					2	5	1		5	411	5		4	4	4	9	1	11	2	14	32	8	1441
	Totals	2	3	1	5	12	1	10	12	8	4	4	45	75	2			137	1	1	1	1		2		2	1	4	19	1	922
																													9		272
Diseases of the nervous system and of the organs of special sense	10 to 19														22	11	8	2140	28	10	13	14	12	62	8	46	9	39	104	21	4746
	20 to 29				1									1																	
	30 to 39				1		1		1			1						12						1		1					3
	40 to 49				2	1		1		2		1		4	1	1		33			1			6		1		2	2		46
	50 to 59		2				2	1	2	1	1		1	3	7	2	1	110	2		2	2		6		1		1	4	2	118
	60 to 69				2	2		1		1		2	7	11	3	1	2	228	1	3		1	1	10	1	7	2	1	8		259
	70 to 79				1		5	2	1	1	1	3	3	10	3		2	363	9	4	3	4	2	9		7		8	15	3	547
	80 and over						5			1			2	2	3	1	4	363	3	1		1		6	1	6	1	5	9	2	816
	Totals		2	5	3	13	2	4	5	6	4	9	21	27		1	1	199	3	1		1				5	1			1	333
															17	6	9	1313	16	9	6	9	3	38	2	28	4	28	54	9	2973
Diseases of the circulatory system	10 to 19																	1													
	20 to 29		1					1		1			2	2	1			55		1				1		1			1		11
	30 to 39	1		1		2		3	1	1		1	5	2	2	1		129		3	1	1	2	2	1	1	2	2	8	6	164
	40 to 49	1		3	4	2	3	1	5	6			7	8	7	3	3	332	5	4	4	7	3	11	1	6		9	11	5	372
	50 to 59	1	3	3	7	10	2	3	8	6	2	10	11	42	15	6	6	665	13		4	9	10	27	8	8	2	12	35	6	1107
	60 to 69	3	5	7	3	10	6	7	13	7		12	14	44	14		7	1124	18	12	6	9	5	37	7	33	4	35	55	9	2207
	70 to 79	4	2	6	3	14		3	10	6	3	10	18	36	13	2	4	1251	21	6	8	4	2	46	6	27	6	25	60	11	3105
	80 and over	1	2		1	9	1	2	8	3		5	9	8	7	2	4	734	3					22	1	29	4	23	52	10	2916
	Totals	11	13	20	18	47	12	17	47	30	5	38	66	142										11		8		5	16	1	1429
															59	14	24	4292	60	26	25	31	19	158	23	112	18	111	238	48	11311

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

Cause	Age	AGRICULTURE, FORESTRY AND ANIMAL HUSBANDRY	Farmers	Farm laborers	Fishermen and oystermen	Gardeners, florists, fruit growers and nurserymen	Other agricultural and animal husbandry pursuits	EXTRACTION OF MINERALS	Foremen, overseers and inspectors	Miners	Quarry operatives
Pneumonia	10 to 19		....	1	....	....	....		....	....	....
	20 to 29		....	....	....	....	....		....	....	....
	30 to 39		4	....	....	....	....		....	....	....
	40 to 49		1	2	....	1	....		....	....	....
	50 to 59		4	7	1	1	....		1	....	....
	60 to 69		9	2	2	1	1		....	....	....
	70 to 79		10	2	....	2	....		....	....	....
	80 and over		8	3	1	2	....		1	....	....
Totals			36	17	4	7	1		2	....	....
Diseases of the respiratory system (pneumonia and tuberculosis excepted)	10 to 19		....	....	....	....	....		....	....	....
	20 to 29		....	....	....	....	....		....	....	....
	30 to 39		....	....	....	....	....		....	....	....
	40 to 49		....	....	....	....	....		....	1	....
	50 to 59		2	....	....	2	....		....	....	1
	60 to 69		....	....	....	....	....		....	....	....
	70 to 79		1	....	....	1	....		....	....	1
	80 and over		3	....	....	1	....		....	1	....
Totals			6	....	....	4	....		....	2	2
Diseases of the digestive system	10 to 19		....	3	....	....	....		....	....	....
	20 to 29		....	2	....	....	....		....	....	....
	30 to 39		3	....	....	....	....		....	....	....
	40 to 49		4	....	....	1	....		1	....	....
	50 to 59		5	....	1	7	....		....	....	....
	60 to 69		7	2	2	2	1		....	....	....
	70 to 79		11	1	1	1	....		....	....	....
	80 and over		4	1	....	1	....		....	....	....
Totals			34	9	4	12	1		1	....	....
Non-venereal diseases of the genito-urinary system and annexa	10 to 19		....	....	....	....	....		....	....	....
	20 to 29		....	1	....	....	....		....	....	....
	30 to 39		....	1	1	1	....		....	....	....
	40 to 49		1	....	....	....	....		....	....	....
	50 to 59		8	....	....	2	1		....	1	....
	60 to 69		21	2	1	10	....		....	....	1
	70 to 79		32	3	4	5	1		....	1	....
	80 and over		22	3	....	8	....		....	....	....
Totals			84	10	6	26	2		....	2	1

Cause	Age	MANUFACTURING AND MECHANICAL INDUSTRIES	Bakers	Blacksmiths, forgemen and hammermen	Boilermakers	Brick and stone masons	Builders and building contractors	Carpenters, coopers and cabinet makers	Compositors, linotypers and typesetters	Dressmakers and seamstresses (not in factory)	Dyers	Electricians and electrical engineers	Engineers (stationary)	Engravers	Filers, grinders, buffers and polishers (metal)	Firemen (except locomotive and fire department)	Glassblowers	Jewelers, watchmakers, goldsmiths and silversmiths	Laborers—	General and not specified	Building and hand trades	Chemical industries	Clay and stone industries (excepting potteries)
Pneumonia	10 to 19		....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1		2	....	....	....
	20 to 29		....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....		13	1	1	....
	30 to 39		....	1	....	....	....	1	....	1	....	1	....	....	....	1	....	....		13	....	1	....
	40 to 49		....	1	1	1	....	4	....	....	....	3	2	....	....	1	....	1		31	....	1	....
	50 to 59		1	1	1	1	1	6	....	1	....	2	3	....	....	2	....	....		31	....	....	....
	60 to 69		1	....	....	2	2	13	....	3	....	1	3	....	....	....	....	2		29	....	1	....
	70 to 79		2	....	....	1	4	13	....	1	....	....	....	....	....	....	....	....		17	2	....	....
	80 and over		....	....	....	2	....	6	....	1	....	....	....	....	....	....	....	1		3	....	....	....
Totals			4	4	2	7	7	43	....	7	....	7	8	....	....	4	....	5		139	3	4	....
Diseases of the respiratory system (pneumonia and tuberculosis excepted)	10 to 19		....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....		1	....	....	....
	20 to 29		....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....		....	....	....	....
	30 to 39		....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....		2	....	....	....
	40 to 49		1	....	....	1	....	1	1	....	....	....	....	....	....	....	....	....		4	....	....	....
	50 to 59		1	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....		6	....	....	....
	60 to 69		....	....	1	....	....	1	....	....	....	....	1	....	....	1	....	....		10	....	....	....
	70 to 79		....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....		3	....	....	....
	80 and over		....	....	....	1	....	3	....	....	....	....	....	....	....	....	....	1		....	....	....	....
Totals			2	....	1	3	....	5	1	....	....	....	3	....	1	1	....	1		26	....	....	....
Diseases of the digestive system	10 to 19		....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....		....	1	....	....
	20 to 29		2	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....		5	....	....	....
	30 to 39		....	1	....	3	....	1	....	....	....	2	2	....	....	....	....	1		13	1	1	....
	40 to 49		....	3	1	2	2	5	....	2	....	4	6	....	....	2	....	....		14	....	2	....
	50 to 59		1	2	2	2	4	12	....	2	1	....	9	1	....	1	....	2		38	1	....	1
	60 to 69		....	2	....	3	3	10	....	....	1	1	4	....	....	5	....	1		27	....	....	2
	70 to 79		....	....	....	1	1	7	....	....	....	1	3	....	....	1	....	....		10	....	....	....
	80 and over		1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2		2	....	....	....
Totals			4	8	3	11	10	36	....	4	2	8	25	1	1	9	....	6		109	3	3	3
Non-venereal diseases of the genito-urinary system and annexa	10 to 19		1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....		....	....	....	....
	20 to 29		....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1		2	....	....	....
	30 to 39		....	....	....	....	....	1	....	1	1	....	1	....	....	....	....	....		5	2	....	....
	40 to 49		1	1	....	....	....	4	....	2	....	....	4	....	....	1	1	1		18	2	....	....
	50 to 59		1	1	....	2	1	7	1	1	2	1	....	....	1	2	1	1		32	....	....	2
	60 to 69		....	3	1	4	1	24	....	2	....	4	5	1	....	....	1	2		41	1	1	....
	70 to 79		3	2	....	8	6	19	....	1	4	....	5	2	1	2	2	2		27	....	1	....
	80 and over		....	....	....	6	3	15	1	1	....	1	3	....	....	....	3	2		11	1	....	....
Totals			6	8	1	20	11	70	2	8	7	6	18	3	2	5	8	9		136	6	2	2

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

		Glass industries	Iron, steel and other metal industries	Leather industries	Lumber and furniture industries	Potteries	Rubber industries	Textile industries	Other industries	Machinists, millwrights and toolmakers	Managers, superintendents and foremen (manufacturing)	Manufacturers and officials	Mechanics (gunsmiths, locksmiths, wheelwrights, etc.)
Pneumonia	10 to 19		2			1				1			1
	20 to 29		1										
	30 to 39		12			2			1	4	3	1	2
	40 to 49		1						1	5	1	2	1
	50 to 59		3			1	1			4	4	3	1
	60 to 69									2	3	2	3
	70 to 79										1	1	
	80 and over												
Totals			9			4	1		2	16	12	9	8
Diseases of the respiratory system (tuberculosis excepted)	10 to 19												1
	20 to 29												
	30 to 39									1	1		
	40 to 49									2		1	
	50 to 59								1	2			
	60 to 69		1							2			1
	70 to 79									1	1	1	1
	80 and over									1			1
Totals			1						1	9	2	2	4
Diseases of the digestive system	10 to 19												
	20 to 29		1						1	1			2
	30 to 39									3			1
	40 to 49		1				1		2	7	10	3	3
	50 to 59		1			1		1	3	11	5	2	3
	60 to 69		2							7	3	6	2
	70 to 79									3	1	3	2
	80 and over										2	2	
Totals			5			1	1	1	6	32	21	16	13
Non-venereal diseases of the genito-urinary system and annexa	10 to 19												
	20 to 29		1							1			2
	30 to 39		1						1	1			
	40 to 49		1							5	5		3
	50 to 59		2						2	5	7	6	3
	60 to 69		1						4	15	6	2	3
	70 to 79		1							13	3	12	5
	80 and over									2	3	4	
Totals			7						7	42	24	24	16

		Millers (grain, flour, feed, etc.)	Milliners and millinery dealers	Moulders, founders and casters	Painters, glaziers, varnishers, enamelers, etc.	Paperhangers	Plasterers	Plumbers and gas and steam fitters	Pressmen (printing)	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	Leather industries	Lumber and furniture industries
Pneumonia	10 to 19										1									
	20 to 29				2			1			4				1			2	1	
	30 to 39			1	6			5	2	1	7							7	1	
	40 to 49			1	4			5			1				1			6	1	
	50 to 59			1	1			1			3				1			5	1	
	60 to 69	2		1	3			4							1	1		4		
	70 to 79			1										1						
	80 and over																			
Totals		2		5	16			16	2	1	11		1		4	1		24	4	
Diseases of the respiratory system (tuberculosis excepted)	10 to 19																			
	20 to 29																			
	30 to 39							1												
	40 to 49						1		1		1				1			1		
	50 to 59			1				1	1		1	1							1	
	60 to 69				2	1					2		1	1	1			2	1	
	70 to 79																			
	80 and over																	2		
Totals				1	2	1	1	2	2		5	1	1	1	2			5	2	
Diseases of the digestive system	10 to 19																			
	20 to 29				2				1									1		
	30 to 39			1	1			2		1			1		1	1	1	1		
	40 to 49		1	1	3	1	1	4	1	1	4	2			2	2		2		
	50 to 59			3	5	1		2			4	1			2	2		2		
	60 to 69			2	4			2	3		1	3			1	1	1	5	2	1
	70 to 79			1	4	1		1	1				1		2			4		1
	80 and over				1													2		
Totals			1	8	20	3	1	11	6	2	9	7	2	2	10	7	2	21	2	2
Non-venereal diseases of the genito-urinary system and annexa	10 to 19																			
	20 to 29				1		1		1		1		1							
	30 to 39				4			1		1	2					1		1		
	40 to 49				6	1		3	1		1	2					2	1		
	50 to 59			2	16			10	2	2	3		2	2	1	3		3	3	
	60 to 69				4			5	3		4	1			1	1	1	3	3	2
	70 to 79			1	7			1	1				1	1	1	1	1	1	1	
	80 and over																			
Totals				3	38	1	1	21	8	3	12	2	5	3	2	10	4	13	10	2

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

		Potteries	Rubber industries	Textile industries	Other industries	Shoemakers and cobblers (not in factory)	Stonecutters	Tailors and tailoresses	Tinsmiths and coppersmiths	Upholsterers	Other manufacturing and mechanical industries
Pneumonia	10 to 19										
	20 to 29			1							1
	30 to 39	1			1						
	40 to 49		1			1			1		2
	50 to 59			4	1		1		1	1	2
	60 to 69		1	7	3			1			1
	70 to 79			3	1	1	1				
	80 and over										2
	Totals	1	2	15	6	2	2	1	2	1	6
Diseases of the respiratory system (pneumonia and tuberculosis excepted)	10 to 19										
	20 to 29			1	1						
	30 to 39										
	40 to 49		1		2						
	50 to 59		1					1			1
	60 to 69			2							
	70 to 79			1				2			
	80 and over			2							
	Totals		2	6	3			3			1
Diseases of the digestive system	10 to 19				1						
	20 to 29			3					1		
	30 to 39			2	6						1
	40 to 49	1	1	2	2			3			2
	50 to 59		1	2		2		4			1
	60 to 69	1	2	5	3	1		4	2		1
	70 to 79		1	1	2				1		1
	80 and over										
	Totals	2	5	15	14	3		11	4		6
Non-venereal diseases of the genito-urinary system and annexa	10 to 19										
	20 to 29			2	1						
	30 to 39	1			3						
	40 to 49		2	1	3	1		1			
	50 to 59	1		3	3	1		4	2		2
	60 to 69		3	11	6			4	2	1	1
	70 to 79	1		11	8	3		3		1	1
	80 and over			2	3	2		1	2		
	Totals	3	5	30	27	7		13	6	2	4

TRANSPORTATION																					
	Water—				Road and Street—								Railroad—								
		Boatmen, canalmen, sailors and deck hands	Longshoremen and stevedores	Other pursuits		Carriage and hack drivers, draymen, teamsters and expressmen	Chauffeurs	Contractors and foremen (road building)	Garage keepers and managers	Laborers (road building) and street cleaners	Livery stable keepers and managers, hostlers and stable hands	Other pursuits		Baggagemen and freight agents	Brakemen	Conductors	Foremen, overseers and inspectors	Laborers	Locomotive Engineers	Locomotive firemen
Pneumonia	10 to 19						1					1								
	20 to 29						9					2								1
	30 to 39		1	1			1		1			2			2	1		1		
	40 to 49	1	1				5	1		1					2		1	3	1	
	50 to 59	2		1		1	1			1	1	1						2	1	
	60 to 69	2																	1	
	70 to 79	1																		
	80 and over																			
	Totals	6	3	2		1	17		1	2	1	7			4	1	1	6	3	1
Diseases of the respiratory system (pneumonia and tuberculosis excepted)	10 to 19																			
	20 to 29						1													
	30 to 39			1			1								1					
	40 to 49	1					2												1	1
	50 to 59						1													
	60 to 69	1					1					1								
	70 to 79																			
	80 and over																			
	Totals	2		1			6					1			1				1	1
Diseases of the digestive system	10 to 19																			
	20 to 29						4			1		1					1			
	30 to 39	1	1				4										1			
	40 to 49	4	3			1	5					3			4	2		2	1	1
	50 to 59	2	1	1			3		1		1	2						3		
	60 to 69	1	3	2		1	2			2		1								
	70 to 79					1		1		1							1		1	
	80 and over																			
	Totals	9	8	3		3	18	1	1	4	1	7			4	3	2	5	2	1
Non-venereal diseases of the genito-urinary system and annexa	10 to 19																			
	20 to 29																			
	30 to 39																			
	40 to 49	1					1								1					
	50 to 59		2			1	4					2					1	1	1	
	60 to 69	2		1			7		1			1			2			2	1	
	70 to 79	2		1		1	4					3		1			2		1	
	80 and over	1		2		1	3	1		1		2		1			3	2	1	1
	Totals	6	2	6		3	19	1	1	1		9		2	3	5	5	4	4	1

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

	TRADE	Motormen	Officials and superintendents	Switchmen, flagmen and yardmen	Ticket and station agents	Other pursuits	Express, Post, Telegraph and Telephone—	Express messengers and railway mail clerks	Linemen	Mail carriers	Telegraph operators	Telephone operators	Other pursuits
Pneumonia	10 to 19												
	20 to 29												
	30 to 39												
	40 to 49	1						1					
	50 to 59		1			1		1					
	60 to 69	1							1				1
	70 to 79	1		1					1		1		
	80 and over												
	Totals	3	1	1		1		2	2		1		1
Diseases of the respiratory system (pneumonia and tuberculosis excepted)	10 to 19												
	20 to 29												
	30 to 39												
	40 to 49												
	50 to 59												
	60 to 69		1	1									1
	70 to 79												
	80 and over												
	Totals		1	1									1
Diseases of the digestive system	10 to 19												
	20 to 29												
	30 to 39								1				
	40 to 49		2	1		2						1	2
	50 to 59		1						1				1
	60 to 69		1	1	1	4				1			1
	70 to 79												
	80 and over									1			
	Totals		4	2	1	8			1	2		1	4
Non-venereal diseases of the genito-urinary system and annexa	10 to 19												
	20 to 29												
	30 to 39												
	40 to 49	2											
	50 to 59		2										
	60 to 69		2		1	1				1	1		3
	70 to 79		2		1	5				1	2		2
	80 and over		1			1							
	Totals	2	3	5	2	7				2	3		7

	TRADE	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)	Firemen (fire department)	Laborers (public service)	Marshals, sheriffs, detectives, etc.	Officials and inspectors (city, county, state, U.S.)	Policemen	Soldiers, sailors and marines	Other pursuits
Pneumonia	10 to 19		1															2
	20 to 29					1				1								3
	30 to 39					1	2		4	2		1	4		1			1
	40 to 49	1		3		1	2		5				4	4				3
	50 to 59				2	1	2		9				5		1			8
	60 to 69	2	1		1	1	4		21	1			1		2	2		11
	70 to 79		1			4	3		3							1		5
	80 and over	1				6	2		6									
	Totals	4	3	3	3	15	20		48	4		1	14	4	4	3		33
Diseases of the respiratory system (pneumonia and tuberculosis excepted)	10 to 19																	
	20 to 29						2											
	30 to 39			1														1
	40 to 49	1				1	1		1			1			1			
	50 to 59						1		3				1					1
	60 to 69			1	1		1		2							1		2
	70 to 79					3	1											2
	80 and over								1									
	Totals	1		2	1	4	6		7			1	1		1	1		6
Diseases of the digestive system	10 to 19		1															
	20 to 29		1		2		1		1									1
	30 to 39	1	1			1	7		2			2	1			2		2
	40 to 49	5					16		11	4		2	3					1
	50 to 59	22	3		1	3	12	2	21			2	4			4		3
	60 to 69	3			1	4	9		17	3		1	6		3	1		5
	70 to 79				1	2	5	1	8						1			16
	80 and over								2									2
	Totals	11	6		5	10	50	3	62	7		6	17	1	6	12		31
Non-venereal diseases of the genito-urinary system and annexa	10 to 19																	
	20 to 29		2	1			1		1									1
	30 to 39	1		2					1				2			2		2
	40 to 49	2			1	2	8		5	1		1	8	1	1	2		4
	50 to 59	1	1			5	12	1	11	2		1	4		2	2		7
	60 to 69	2	3		2	9	8	1	34	3		1	5		3	4	1	15
	70 to 79	2	1		1	8	5		33	2		1			2	2		9
	80 and over					2	5		15			1			2	2	1	3
	Totals	11	7	3	4	26	39	2	102	8		5	19	1	10	17	2	41

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

	PROFESSIONAL SERVICE														DOMESTIC AND PERSONAL SERVICE												CLERICAL OCCUPATIONS				
	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		Barbers, hairdressers and manicurists	Bartenders	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	Waiters	Other pursuits		Agents, canvassers and collectors	Bookkeepers, cashiers and accountants	Clerks (except clerks in stores)	Other clerical pursuits	Totals
Pneumonia																															
10 to 19																		1											1	10
20 to 29					1								2				1	27		1				5	1				6	1	74
30 to 39												1	2		1			47	1					3		2	1		5	3	136
40 to 49		1								1			1			3		63	1	1	2			10	4	1	1		5	2	235
50 to 69		1				1	1	1	1		1	1	2		1			72	2		1		1	5	1	5	1		3	7	253
60 to 69	1	1				1		2			1		6		3	1		124	5		2	1		2		2	1		7	1	343
70 to 79			1	1	1	1	1			1			1		1	1	1	118	1					4		2	1		3	1	251
80 and over					1	1							1					67						2		2			1		125
Totals	1	3	1	2	4	2	1	3	1	2	2	8	18		6	5	2	519	10	2	5	1	3	31	6	17		3	9	32	9	1432
Diseases of the respiratory system (pneumonia and tuberculosis excepted)																															
10 to 19																															
20 to 29																		6	1	1									2		2
30 to 39								1							1			8						1		1			1		19
40 to 49															1			10		1									3		26
50 to 59								1	1			1	2					17				1		1		1		1	2	1	45
60 to 69															1			16	1					1				1	2		57
70 to 79																		16								1					71
80 and over												1						15						1							38
Totals								2	1		1	1	3		4			88	2	2		1		5		2		1	3	8	1	290
Diseases of the digestive system																															
10 to 19													1					5							1						15
20 to 29			1							1		3	3		2	1		22		1		1		3	1	1			3	10	2	98
30 to 39			1		1	1						1	2		1	3		69					1	3				1	3	11	3	182
40 to 49		1	3		2		1			1		1	7		2	3		122		1		2	1	12	1	2		1		6	1	369
50 to 59		1	3	2		1		2	1		1	4	11		2		3	172	3	1		2	6	2	3	9	2	11	3	4	8	486
60 to 69		1			3		1	2	3			1	8		4	1	1	135	1		1	2	3	2	1			4	5	11	2	414
70 to 79		2			2			1				3	5		1		1	113	2							2		1	1	6	1	242
80 and over											1		2					22								1			2			54
Totals	4	6	8	2	6	2	1	5	4	1	3	14	42		17	8	7	660	6	2	3	11	9	30	6	17		10	18	55	10	1860
Non-venereal diseases of the genito-urinary system and annexa																															
10 to 19																		4			1										6
20 to 29																		29						5	2			1	4	1	68
30 to 39				1	1			2	1		1	1	2					67		1					1	1			5	2	129
40 to 49			1	2		1		1			1	1	4		2			133	2	1		1	4	13	1	2		2	10	2	301
50 to 59		1			1			2				4	4		2			170	1		2	4		10	2	6		2	4	2	429
60 to 69								8				3	10		2	1		292	7	1	1	1	1	5	1	8		1	9	15	6	733
70 to 79	1	1						3				2	5		3		5	319	7		2			3		5		1	4	16	3	713
80 and over		1	1	1				1				1	5		3		1	163	3		2			5		1			1	3		351
Totals	1	3	4	3	15		2	8	7	4	10	12	31		12	1	8	1177	20	3	8	6	5	46	7	23		4	21	67	16	2740

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

		AGRICULTURE, FORESTRY AND ANIMAL HUSBANDRY						EXTRACTION OF MINERALS			
		Farmers	Farm laborers	Fishermen and oystermen	Gardeners, florists, fruit growers and nurserymen	Other agricultural and animal husbandry pursuits		Foremen, overseers and inspectors	Miners	Quarry operatives
Suicide	10 to 19	1							1	
	20 to 29			1	1				1	
	30 to 39	1	1						1	
	40 to 49	6							1	
	50 to 59	3	2		3					
	60 to 69	2	2		2					
	70 to 79	4	1		1					
	80 and over	1			1					
Totals		18	6	1	8				3	
Violent deaths (suicide excepted)	10 to 19		9		1					
	20 to 29		2	1	1					1
	30 to 39	4	7	3						
	40 to 49	3	8	1	1			1	2	
	50 to 59	6	8			1				
	60 to 69	12	11	2	4			1		
	70 to 79	8	3							
	80 and over	9			1					
Totals		42	38	7	8	1		2	2	1
All other diseases and causes of death	10 to 19		3							
	20 to 29	1	1			1				
	30 to 39		1		1					
	40 to 49	2	2	2	2					
	50 to 59	9	1	3	2					
	60 to 69	7	1	3	3					
	70 to 79	10	4	1	1					
	80 and over	6	4							
Totals		35	17	9	9	1				
Summary	10 to 19	1	20		1				1	
	20 to 29	6	10	2		1			1	1
	30 to 39	18	14	3	2	1			3	
	40 to 49	33	25	7	13	1		2	4	
	50 to 59	114	43	11	35	3		2	5	2
	60 to 69	175	41	22	61	6		2	4	3
	70 to 79	264	45	18	48	4			5	2
	80 and over	174	32	8	35	1		1	2	1
Totals		785	233	73	201	19		7	24	9

	MANUFACTURING AND MECHANICAL INDUSTRIES																			
	Bakers	Blacksmiths, forgemen and hammermen	Boilermakers	Brick and stone masons	Builders and building contractors	Carpenters, coopers and cabinet makers	Compositors, linotypers and typesetters	Dressmakers and seamstresses (not in factory)	Dyers	Electricians and electrical engineers	Engineers (stationary)	Engravers	Filers, grinders, buffers and polishers (metal)	Firemen (except locomotive and fire department)	Glassblowers	Jewelers, watchmakers, goldsmiths and silversmiths	Laborers—	General and not specified	Building and hand trades	Chemical industries	Clay and stone industries (excepting potteries)
Suicide						1			1					1				4	1		
	1					6	1		1	2	1			1		1		5		1	
					3	3												6			
		4			1	2				1	2				1			6	1	1	
	1			1		3					1							6			1
				1														2			
Totals	2	4		2	4	15	1	1	2	3	5			2	1	1		29	2	2	1
Violent deaths (suicide excepted)						1															
	1			1		1				2								9	1		
	2	5	1	1		3				2	2			1				32	1	1	
	2			2	1	4	1	1	1	2	4			1				26			
	4	2	1	4		10		2		1	3			3		1		28	3	1	
	1	1	2	5	2	9				2	1			1				37	3	2	
	1			1		8					6				1			29	1		3
	1			1		3					1							7			
																		1	1		
Totals	12	8	4	15	3	39	1	3	2	8	17			9	1	1		169	10	4	3
All other diseases and causes of death																					
				1	1	1				1								2			
		1				2				1			1					11	2		
		1		1		10		1	1	2	3					1		31	2		
	2	1		3	3	8			2	2	5	1	1	1	1	2		31			
	1		1	1	4	10	2	3	1	2	7		1	2		3		47			
	1	4		5	1	7		1	1	1	3			2	1	2		35	1		
	1			2	1	3		1							1	1		19	1		
Totals	4	7	1	12	11	41	2	6	5	9	21	1	3	5	3	9		176	5	1	
Summary	1					1															
	6	2		2	1	6				4			1	4		1		19	4		
	4	9	3	9	1	18	1	9	5	16	10		2	4		3		117	6	2	
	16	14	6	20	10	63	5	12	6	22	31	1	1	13	6	3		187	10	5	1
	24	21	14	35	31	143	3	14	8	26	64	4	8	30	4	24		298	8	9	2
	22	38	11	68	45	195	6	19	5	26	72	5	5	36	5	30		493	15	13	6
	26	27	9	58	37	185	6	24	9	7	71	3	7	20	7	22		521	17	12	3
	7	3		28	11	83	3	11		3	16	1	2	8	7	25		316	9	6	1
																		93	3	1	1
	107	116	43	220	136	698	24	89	33	104	264	16	26	117	29	116		2044	72	50	19

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

		Glass Industries	Iron, steel and other metal Industries	Leather Industries	Lumber and furniture Industries	Potteries	Rubber Industries	Textile Industries	Other Industries	Machinists, millwrights and toolmakers	Managers, superintendents and foremen (manufacturing)	Manufacturers and officials	Mechanics (gunsmiths, locksmiths, wheelwrights, etc.)
Suicide	10 to 19									1			
	20 to 29							1		2	1		1
	30 to 39		1							3	1	2	2
	40 to 49		2						2	4		1	1
	50 to 59		1							1	2		
	60 to 69									1		2	
	70 to 79												
	80 and over												
	Totals		4					1	2	12	4	7	4
Violent deaths (suicide excepted)	10 to 19									1			
	20 to 29	1							3	1	4		3
	30 to 39		1							4	3		3
	40 to 49		2							9	1	6	4
	50 to 59		2					1	2	6	5		1
	60 to 69		1				1		1	7	3	5	
	70 to 79		2							5	1	1	1
	80 and over									1		1	1
	Totals	1	8				1	1	9	34	17	13	23
All other diseases and causes of death	10 to 19												
	20 to 29						1			1	1		2
	30 to 39									5	2	1	2
	40 to 49		2					1			3		1
	50 to 59		1				1		2	3	5	2	5
	60 to 69								1	5	6	6	
	70 to 79							2		6	4	4	2
	80 and over											1	
	Totals		3				2	3	3	20	21	14	12
Summary	10 to 19									1			1
	20 to 29	1	7			1	1	2	4	12	9		23
	30 to 39		9				1	1	3	25	14	3	28
	40 to 49		17	1	1	3	3	5	17	72	48	24	38
	50 to 59		24	2		2	4	5	23	115	71	50	45
	60 to 69	1	22		1	3	2	3	19	130	86	64	25
	70 to 79	1	12		1			4	4	98	41	55	28
	80 and over								1	16	17	31	5
	Totals	3	91	3	3	9	11	20	71	467	286	227	193

		Millers (grain, flour, feed, etc.)	Millinners and millinery dealers	Moulders, founders and casters	Painters, glaziers, varnishers, enamelers, etc.	Paperhangers	Plasterers	Plumbers and gas and steam fitters	Pressmen (printing)	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	Leather Industries	Lumber and furniture Industries
Suicide	10 to 19																				
	20 to 29								2			2		2			1	1			
	30 to 39			2	2								1						2	2	
	40 to 49			1	2			3				3							4	1	1
	50 to 59				4							1				2			1		
	60 to 69				2	1		1													
	70 to 79																				
	80 and over																				
	Totals			3	10	1		7	2			6	1	2		2	1	1	7	3	1
Violent deaths (suicide excepted)	10 to 19																				
	20 to 29			1	5			1		1		5				3			1		
	30 to 39				2			4	1			3	4			3			6		1
	40 to 49		1		4	1		2				2	2						2		
	50 to 59			1	7		2	5	2	1		2	2		1	3	2		6		1
	60 to 69				8			2	1	1		1	1		1	1	1		9	2	2
	70 to 79			1	1			1	1			2				1					
	80 and over														1	1	1		5	2	1
	Totals		1	3	27	1	2	15	5	3		14	9	1	5	14	5		30	4	5
All other diseases and causes of death	10 to 19																				
	20 to 29																1				
	30 to 39			1	4			3	2			1	1			3	2		2	1	
	40 to 49				5		2	3	1			2	2	2		1			3		
	50 to 59				4		2	2				3			1		2		3	2	
	60 to 69		1	1	7	1		6	3			1				1	1		2		1
	70 to 79			2	2			1					1	1		1			2	1	
	80 and over															1			1		
	Totals		1	4	22	1	4	15	6			8	4	3	1	5	8	1	14	4	1
Summary	10 to 19							1				1									
	20 to 29			1	11		1	2	3	1						5	1		2		
	30 to 39		1	4	23	1		22	7	2		23	6	9		3	5	1	15	2	3
	40 to 49		2	15	52	2	6	46	13	3		17	7	1		6	8	1	21	2	1
	50 to 59	1	3	21	89	5	5	55	21	2		28	15	4	7	14	10	2	44	16	4
	60 to 69	1	3	19	133	10	2	71	30	11		37	14	4	6	24	15	2	82	19	10
	70 to 79	4	5	13	94	4	2	24	19	1		44	20	9	10	22	14	3	58	31	6
	80 and over		2	7	36	2		7	7	1		29	13	8	3	30	17	9	58	17	17
	Totals	6	16	82	438	24	16	227	101	21		199	77	39	28	128	76	25	294	94	43

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

		Potteries	Rubber industries	Textile industries	Other industries		Shoemakers and cobblers (not in factory)	Stonecutters	Tailors and tailoresses	Tinsmiths and coppersmiths	Upholsterers	Other manufacturing and mechanical industries
Suicide	10 to 19											
	20 to 29			3	1							
	30 to 39		1	1	2							
	40 to 49			2								
	50 to 59	1		1	3		1	1	1	1		1
	60 to 69			4					2	1		1
	70 to 79		1	1								
	80 and over			1			1		1			
	Totals	1	2	13	6		2	1	4	2		2
Violent deaths (suicide excepted)	10 to 19		1	1	2							
	20 to 29	2		1	3			1	1		2	
	30 to 39		2	3	3				1		1	
	40 to 49			4	3		1		2	1		
	50 to 59	1	1	3	5				2			
	60 to 69	1		6	2		1		4	1	1	
	70 to 79			3	3		2	1	3			
	80 and over			3								
	Totals	3	4	24	21		4	2	13	2	4	
All other diseases and causes of death	10 to 19		1		2				1			
	20 to 29		1	1	2				1			
	30 to 39	1		1	2				2			
	40 to 49			2	4		2	1	3			1
	50 to 59		1	1	5		3		7			1
	60 to 69	3	1	1	3		3		4		1	1
	70 to 79		2	4	5						1	
	80 and over		1				1				1	
	Totals	4	7	22	23		9	1	18		3	3
Summary	10 to 19		2	2	7				1			
	20 to 29	3	3	17	19			1	3	1	3	1
	30 to 39	5	4	21	22		1		7	1	1	3
	40 to 49	2	7	29	39		8	1	23	5		7
	50 to 59	11	12	52	54		24	2	55	5	3	17
	60 to 69	15	14	113	63		24	3	54	15	8	24
	70 to 79	8	12	80	52		22	4	26	11	6	22
	80 and over		1	33	9		9	1	7	4	3	6
	Totals	44	55	347	265		88	12	176	42	24	80

		TRANSPORTATION																				
		Water—				Road and Street—						Railroad—										
		Boatmen, canalmen, sailors and deck hands	Longshoremen and stevedores	Other pursuits		Carriage and hack drivers, draymen, teamsters and expressmen	Chauffeurs	Contractors and foremen (road building)	Garage keepers and managers	Laborers (road building) and street cleaners	Livery stable keepers and managers, hostlers and stable hands	Other pursuits		Baggagemen and freight agents	Brakemen	Conductors	Foremen, overseers and inspectors	Laborers	Locomotive engineers	Locomotive firemen	
Suicide	10 to 19																					
	20 to 29						3															
	30 to 39	1					3															
	40 to 49		1	1			2					1										
	50 to 59		1							1						1						
	60 to 69															1						
	70 to 79																					
	80 and over	1																				
	Totals	2	2	1			10			1		1					2					
Violent deaths (suicide excepted)	10 to 19																					
	20 to 29	2					2				1	1										
	30 to 39	3	1				10				1	6										
	40 to 49	6	3				11		1	1		3			1	1		4	1			
	50 to 59	4	2	2			9			1		3			4			3				
	60 to 69	3	2			2	1			2		2			3	1	1	3	3	1		
	70 to 79			1		1	1			2		2				2	1	1				
	80 and over														1							
	Totals	23	12	3		3	37		1	6	2	21			9	4	2	11	4	1		
All other diseases and causes of death	10 to 19																					
	20 to 29		1				1					1										
	30 to 39						1								1							
	40 to 49	1					1				1											
	50 to 59	2	2	1			5			1		2			1	1	1		2			
	60 to 69						2		1			1			2		1		1			
	70 to 79	1	1				1	1		1		3										
	80 and over											1								1		
	Totals	4	4	1		1	22	1	2	2	1	8			4	2	4	3	3	1		
Summary	10 to 19	2					2				1	1										
	20 to 29	4	2			1	42			1	1	14					1					
	30 to 39	12	5	1		4	65		2	3		11			5	2	1	5	1	1		
	40 to 49	19	17	4		6	73	1	1	5	1	26			10	8	6	15	4	3		
	50 to 59	23	15	6		10	56	1	9	10	6	18		1	19	18	10	22	17	4		
	60 to 69	29	17	10		6	31		5	12	2	21		5	5	15	12	21	11	1		
	70 to 79	22	6	9		9	8	9	1	8	1	20		3	9	15	10	5	11	1		
	80 and over	17	1	5		2	4		1		3	5			1	2	3	2	4			
	Totals	128	63	35		38	281	11	19	39	15	116		9	49	60	43	70	48	12		

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

		TRADE										PUBLIC SERVICE (NOT ELSEWHERE CLASSIFIED)							
		Motormen	Officials and superintendents	Switchmen, flagmen and yardmen	Ticket and station agents	Other pursuits	Express, Post, Telegraph and Telephone— Express messengers and railway mail clerks	Linemen	Mail carriers	Telegraph operators	Telephone operators	Other pursuits	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	Firemen (fire department)	Laborers (public service)	Marshals, sheriffs, detectives, etc.	Officials and inspectors (city, county, state, U.S.)	Policemen	Soldiers, sailors and marines	Other pursuits
Suicide	10 to 19													1		1	1	3		1	1							
	20 to 29												1				2	4	1	3	1		1			1	1	2
	30 to 39	1						1					2				5	3		9	1		1			2	1	4
	40 to 49											1	4	1			2	6		14	3		3	1		1		4
	50 to 59	1										1	1				1	2		4			1					1
	60 to 69					1											1			3			1				1	2
	70 to 79					2					1																	
	80 and over																											
	Totals	2				3		1			1	2	8	2		1	12	18	1	34	6		8	1		4	4	13
Violent deaths (suicide excepted)	10 to 19														1			1		1	1		2			1		5
	20 to 29													3	3	1		3	1	1	6		5		1	2	3	4
	30 to 39							3		1		2	1		1		2	8		8	1	2	9			4	1	6
	40 to 49		1	1		3		2			1		2	2	3		1	7	1	8	2	4	8	1	2	2	1	7
	50 to 59			1	1	1			1	1			2		1		1	4	2	15	2	2	5	1	1			9
	60 to 69				1	1								1			3	2		5	1	3	12		3			10
	70 to 79												1							4			3		2			2
	80 and over					2					1														1			3
	Totals		1	2	1	7		5	2	3	2	2	5	6	9	1	10	31	4	60	13	11	44	2	10	9	5	46
All other diseases and causes of death	10 to 19																											
	20 to 29													1		1	1	1		1	2							2
	30 to 39											2	1	2		1	5	6		7	2		3	1		1		2
	40 to 49					1						1	1	2	2		2	8		10	1		1			1	1	2
	50 to 59				2	1	1						2	1		2	6	11	1	25	2	1	11			2	1	4
	60 to 69					1			1				1	1		2	3	7	1	26	3	1	3			3	1	8
	70 to 79												1	2			2	3	1	16		1		1	3	7		10
	80 and over	2		1								1	1					2		8			1		2	1		7
	Totals	2		3	1	3	1		1		4	3	7	7	2	6	19	35	3	93	10	2	19	2	5	14	2	35
Summary	10 to 19													2	3			1		1	2		2					
	20 to 29	1		2	1	2		1	1	5	1		10	9	6	7	3	23	1	15	13	1	14	1	1	1	2	13
	30 to 39	3	2	7	1	10	1	3	2	2	2		22	7	13	6	35	92	3	134	28	6	29		3	16	3	21
	40 to 49	3	5	8	2	18	2	1	3	7	1		30	13	6	7	64	144	7	254	28	24	52	7	7	25	3	63
	50 to 59	7	6	8	6	40	4	2	14	7	3		32	18	6	12	113	130	4	376	40	18	76	8	28	44	8	112
	60 to 69	7	8	14	4	30		1	5	4			23	9	1	5	73	94	8	257	8	17	75	4	45	28	3	178
	70 to 79		3	3	1	5		1	2	3			13	3		2	21	35	3	107	5	4	14	3	32	27	4	122
	80 and over																					2	2	2	7	8	1	28
	Totals	21	22	42	15	105	7	15	27	27	15	68	130	69	42	43	330	580	28	1193	135	72	264	25	121	159	26	553

TABLE 21.—DEATHS BY OCCUPATIONS AND AGE GROUPS, NEW JERSEY, 1938—Continued

		PROFESSIONAL SERVICE													DOMESTIC AND PERSONAL SERVICE								CLERICAL OCCUPATIONS				
			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	Barbers, hairdressers and manicurists	Bartenders	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	Waiters	Other pursuits	Agents, canvassers and collectors	Bookkeepers, cashiers and accountants	Clerks (except clerks in stores)	Other clerical pursuits	Totals
Suicide	10 to 19																													
	20 to 29				1					1					3			9						1			1		3
	30 to 39				1				1	1			1		1			24					3	1	2		3	4		57
	40 to 49			1	1				1			1		1	2			35				1	3	2	1		2	3		91
	50 to 59				1						1		1		2		1	32	1			1	1		3		1	2	6		142
	60 to 69		1				1			1	1	1	2		1		1	17		1	1						1	2	2	1	152
	70 to 79									1			1					7									1	1	2	1	87
	80 and over																	2										1			47
	Totals		1	1	4		1		2	3	2	1	4	3	10															6
			2	1	1	126	1	1	1	1	4	7	3	7		2	10	18	2	585
Violent deaths (suicide excepted)	10 to 19																													
	20 to 29																	2	1			1								5
	30 to 39			1	1		1		1	1	3		2	1	2		1	23		1		2		1	2			2	2	60
	40 to 49						1							1	1		2	30	2		3			8	4	3	1	4	3	239
	50 to 59					1	1		1						4			53		1	1	1	1	11	2	3		2	8	3	263
	60 to 69				1						1				2		2	58	2		1	1	1	3	1	1	1	3	9		301
	70 to 79						1	2	1	2	2				1		1	95	4			1	1	3	1	3		3	8	1	322
	80 and over														3		1	85	4					1		1		2	6	1	319
																	1	92						3		2		1	2		202
	Totals			1	1	2	4	2	3	5	7	1	2	8	24														1		139
			3	3	3	438	13	2	5	3	2	30	11	13		2	15	60	10	1845
All other diseases and causes of death	10 to 19																													
	20 to 29														1			2								4					1
	30 to 39				1										2			113		3				1	1	1					19
	40 to 49														1		1	134			1			5	4	2		2	8	5	216
	50 to 59			1						3	1			1	4			194	4	1	4		1	9	4	3		6	10	4	286
	60 to 69		1	1						1	2	1	1	6	7		4	267	3		4		2	19		3		7	7	4	411
	70 to 79			1	1	1	1	1		2		1		1	6		1	354	3	1	4	1	3	15		3		4	6		582
	80 and over					1	2					1	1	2	2		2	226	1		2	2		10	1	2	1	3	8	1	645
										1				1	1			76						4	1	3		2	4		414
	Totals		1	2	2	3	5	1	1	7	3	3	3	19	30									1				1	1	1	129
			17	6	4	1372	11	5	12	5	6	64	11	16		2	25	46	15	2702
Summary	10 to 19														3															
	20 to 29			1	3	1	1		3	3	4	1	1	14	28			29	1		1	1									
	30 to 39		1	2	7	1	4	2	3	11	8		7	18	22			407	1	13	3	3		7	5	1					
	40 to 49		1	2	9	6	6	3	5	10	11	3	4	27	62			754	3	3	9	2	4	52	17	14		3	21	99	23	1335
	50 to 59		2	10	8	12	15	5	8	13	17	6	18	36	91			1461	18	15	21	19	21	71	15	26		3	31	85	29	2149
	60 to 69		7	9	8	9	28	8	12	27	20	4	20	45	110			2265	36	9	19	28	15	111	15	91		12	39	112	19	4142
	70 to 79		7	5	9	6	34	4	11	21	9	12	19	47	72			3160	61	20	21	21	19	96	13	67		14	78	144	28	6516
	80 and over		1	4	1	4	19	1	4	11	5	1	8	19	29			2921	43	7	16	11	6	54	4	68		16	77	182	33	8193
																		1509	10	2	3	2		23		19		9	44	110	18	6624
	Totals		19	33	45	39	107	23	46	98	74	27	77	206	417													1	9	31	3	2875
			172	61	68	12506	173	75	93	87	63	536	88	307		58	299	752	156	32003

TABLE 22.—TABULATION OF DEATHS IN ATLANTIC COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	1719	902	817	377	72	5	7	8	3	90	14	24	52	99	168	286	424	374	161	27	
1	Typhoid and paratyphoid fever	2	2		1										2							
2	Typhus fever																					
3	Smallpox																					
4	Measles	1		1				1			1											
5	Scarlet fever	1	1											1								
6	Whooping cough	1		1		1					1											
7	Diphtheria	2	1	1								1		1								
8	Influenza	3	1	2	2									1		1		1				
9	Plague																					
10	Tuberculosis of the respiratory system	73	46	27	31		1				1		3	12	17	16	15	9	3			
11	Other forms of tuberculosis	5	3	2	3		1	1			2	1		1					1			
12	Syphilis	23	15	8	18	4					4		1	2	3	8	4	1				
13	Malaria																					
14	Other infectious and parasitic diseases	3	2	1												1	2					
15	Cancer and other malignant tumors	209	91	118	30							1	1	2	8	22	43	65	56	10	1	
16	Tumors, nonmalignant, or of which the nature is not specified	8	3	5	4										2	4	1	1				
17	Chronic rheumatism and gout	5	1	4													1	2	2			
18	Diabetes mellitus	53	24	29	10								1			4	18	16	11	3		
19	Alcoholism (acute or chronic)	4	4		2											1	3					
20	Other general diseases and chronic poisonings	27	14	13	3	5	1			1	7	1	1	2	1	4	4	3	2	2		
21	Progressive locomotor ataxia and general paralysis of the insane	8	6	2	3										1	3	2	2				
22	Cerebral hemorrhage, cerebral embolism and thrombosis	127	66	61	31									1	4	6	16	37	40	22	1	
23	Other diseases of the nervous system and of the organs of special sense	12	6	6	1	1	1				2			1	1	1	1	4	2			
24	Diseases of the heart	584	309	275	115								1	2	14	44	104	167	162	73	17	
25	Other diseases of the circulatory system	30	17	13	7									1	2	1	1	9	16	4	2	
26	Bronchitis	3	1	2										1	2	1	1	9	16	4	2	
27	Pneumonias	84	48	36	21	8	1	4	1	1	15	2		5	7	9	12	10	19	5		
28	Other diseases of the respiratory system (tuberculosis excepted)	12	4	8	4	4					4											
29	Diarrhoea and enteritis	5	2	3	3	1			1		2						3	2	3			
30	Appendicitis	11	5	6	3												1	2				
31	Diseases of the liver and biliary passages	33	16	17	4							1	1		2	2	4	1				
32	Other diseases of the digestive system	50	29	21	13	2					2	1	3	1	3	4	10	11	2	2		
33	Nephritis	110	49	61	26							1	2	1	6	9	14	28	28	10	2	
34	Other diseases of the genitourinary system	15	12	3	3										2	1	1	7	2	1	1	
35	Puerperal septicemia	3		3											2	1						
36	Other diseases of pregnancy, childbirth and the puerperal state	4		4	2										1	3						
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	6	4	2	3									1	1		1	3				
38	Congenital debility and malformations, premature birth and other diseases of early infancy	40	15	25	9	40					40											
39	Senility	6	3	3															1	5		
40	Suicide	23	16	7	2								1		4	8	1	6	1	2		
41	Homicide	10	7	3	4	4					4	1	2		1		1	1				
42	Violent and accidental deaths (suicide and homicide excepted)	115	77	38	18	1		1	1	1	4	4	7	11	12	12	11	27	13	9	3	
43	Cause of death not specified or ill-defined	2	2		1	1					1						1					

Estimated population, 142,700. Total resident deaths, 1,719. Rate per 1,000 population, 12.0.

TABULATION OF DEATHS IN ATLANTIC CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	981	520	461	304	37	3	4	2	1	47	5	11	32	64	110	190	236	193	70	14	....
1	Typhoid and paratyphoid fever	1	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	2	1	1	2	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	47	31	16	28	....	1	....	....	....	1	....	1	6	12	11	10	4	2	....	....	....
11	Other forms of tuberculosis	4	3	1	3	....	1	1	....	....	2	....	....	1	....	....	....	....	1	....	....	....
12	Syphilis	20	13	7	17	3	....	....	....	....	3	....	1	2	2	7	4	1	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
15	Cancer and other malignant tumors	112	47	65	25	....	....	....	....	....	....	1	....	1	2	13	27	35	27	5	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	6	3	3	4	....	....	....	....	....	....	....	....	....	2	3	1	....	....	....	....	....
17	Chronic rheumatism and gout	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....
18	Diabetes mellitus	32	14	18	8	....	....	....	....	....	....	....	1	....	....	2	11	11	4	3	....	....
19	Alcoholism (acute or chronic)	4	4	....	2	....	....	....	....	....	....	....	....	....	....	1	3	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	15	6	9	3	4	1	....	....	....	5	....	....	1	....	3	2	2	1	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	5	3	2	2	....	....	....	....	....	....	....	....	....	1	2	2	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	70	40	30	23	....	....	....	....	....	....	....	....	1	1	5	9	22	24	8	....	....
23	Other diseases of the nervous system and of the organs of special sense	6	3	3	1	1	....	....	....	....	1	....	....	1	1	....	1	2	....	....	....	....
24	Diseases of the heart	339	179	160	91	....	....	....	....	....	....	....	1	2	11	30	75	89	86	37	8	....
25	Other diseases of the circulatory system	21	10	11	6	....	....	....	....	....	....	....	....	1	1	....	....	4	11	3	1	....
26	Bronchitis	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
27	Pneumonia	45	27	18	14	....	....	2	....	....	2	2	....	4	5	6	10	2	11	3	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	7	3	4	3	2	....	....	....	....	2	....	....	....	....	....	....	2	1	2	....	....
29	Diarrhoea and enteritis	3	1	2	2	....	....	....	1	....	1	....	....	....	....	....	....	....	2	....	....	....
30	Appendicitis	6	3	3	2	....	....	....	....	....	....	1	1	....	2	1	....	1	....	....	....	....
31	Diseases of the liver and biliary passages	18	10	8	1	....	....	....	....	....	....	....	....	1	....	2	2	5	9	....	1	....
32	Other diseases of the digestive system	27	15	12	10	....	....	....	....	....	....	....	....	....	1	1	5	8	7	2	4	....
33	Nephritis	55	21	34	21	....	....	....	....	....	....	....	1	1	1	6	6	6	15	12	7	1
34	Other diseases of the genitourinary system	8	5	3	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
35	Puerperal septicemia	1	....	1	....	....	....	....	....	....	....	....	....	2	1	....	....	3	....	1	1	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	4	3	1	2	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	21	8	13	8	21	....	....	....	....	21	....	....	1	1	....	1	1	....	....	....	....
39	Senility	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	16	12	4	2	....	....	....	....	....	....	....	1	....	3	3	1	5	....	1	2	....
41	Homicide	10	7	3	4	4	....	....	....	....	4	1	2	....	1	....	....	1	....	1	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	64	40	24	10	1	....	1	1	1	4	....	2	5	8	6	8	18	8	3	2	....
43	Cause of death not specified or ill-defined	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 73,000. Total resident deaths, 981. Rate per 1,000 population, 13.4.

TABULATION OF DEATHS IN BERGEN COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	3594	1844	1750	108	153	10	12	7	6	188	24	70	117	172	341	589	802	825	411	55	
1	Typhoid and paratyphoid fever	2		2									1	1								
2	Typhus fever																					
3	Smallpox																					
4	Measles	3	2	3		3					3	1	1									
5	Scarlet fever																					
6	Whooping cough																					
7	Diphtheria	2	2						1	1	2											
8	Influenza	9	8	1	1	1			1		2	1			2		1	2	1			
9	Plague																					
10	Tuberculosis of the respiratory system	138	78	60	12								6	20	34	30	26	17	5			
11	Other forms of tuberculosis	7	4	3	3	1			1		2			2	1	1		1				
12	Syphilis	25	17	8	3	1		1			2					5	6	9	3			
13	Malaria																					
14	Other infectious and parasitic diseases	14	9	5	2		1		1		2			2	4	2	1	2	1			
15	Cancer and other malignant tumors	522	225	297	13								4	7	22	62	111	159	110	44	3	
16	Tumors, nonmalignant, or of which the nature is not specified	23	6	19	1								3	1	6	9	1	2	1	2		
17	Chronic rheumatism and gout	4		4													1	1	1	1		
18	Diabetes mellitus	109	31	69	7								1		2	8	20	32	35	2		
19	Alcoholism (acute or chronic)	3	3														1					
20	Other general diseases and chronic poisonings	58	28	30	1	6		1			7	4	3	4	4	8	8	9	7	3	1	
21	Progressive locomotor ataxia and general paralysis of the insane	8	7	1	1										1		2	4	1			
22	Cerebral hemorrhage, cerebral embolism and thrombosis	258	103	155	3			1			1			3	2	11	37	71	78	53	2	
23	Other diseases of the nervous system and of the organs of special sense	46	21	25	2	4	1				5	2	6	3	6	6	4	6	4	4		
24	Diseases of the heart	1207	673	534	23	1					1	2	13	21	24	83	220	291	362	170	20	
25	Other diseases of the circulatory system	58	22	36												1	6	8	10	26	7	
26	Bronchitis	10	10		1	1		2			3				1	1	1	2	1		1	
27	Pneumonias	175	91	84	4	17	4	2	2		25	2	3	5	5	23	14	29	31	20	9	
28	Other diseases of the respiratory system (tuberculosis excepted)	26	18	8	2	1					1		1	3	1	3	5	8	2	2		
29	Diarrhoea and enteritis	16	8	8		9	1	1	1		12	1			1		1			1		
30	Appendicitis	41	23	18				2		1	3	1	9	4	6	4	10	3	1			
31	Diseases of the liver and biliary passages	80	42	38	1								4	19	16	20	16	5				
32	Other diseases of the digestive system	80	41	39	3	2	1				3	4	1	3	4	10	13	20	14	8		
33	Nephritis	288	115	143	8								2	6	11	15	34	61	86	37	6	
34	Other diseases of the genitourinary system	40	29	11										2	2	5	5	7	12	6	1	
35	Puerperal septicemia	4		4										4								
36	Other diseases of pregnancy, childbirth and the puerperal state	7		7	1									4	3							
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	4	1	3		1					1			2						1		
38	Congenital debility and malformations, premature birth and other diseases of early infancy	106	55	51	8	103	2	1			106											
39	Senility	10	2	8																		
40	Suicide	67	46	21	2								1	10	8	17	14	10	6	3	1	
41	Homicide	5	4	1									1	1		2	1					
42	Violent and accidental deaths (suicide and homicide excepted)	174	120	54	6	2		1		4	7	6	14	9	18	14	30	28	31	13	4	
43	Cause of death not specified or ill-defined																					

Estimated population, 432,200. Total resident deaths, 3,594. Rate per 1,000 population, 8.3.

TABULATION OF DEATHS IN ENGLEWOOD CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	215	104	111	34	8	1	2	....	1	12	3	....	8	12	20	33	50	42	28	7	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	6	2	4	2	....	....	....	....	....	....	....	....	1	3	1	1	....	....	....	....	....
11	Other forms of tuberculosis	2	1	1	2	....	1	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....
12	Syphilis	4	2	2	2	....	....	1	....	....	1	....	....	....	....	....	1	2	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	....	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	26	13	13	3	....	....	....	....	....	....	....	....	....	....	3	9	5	5	3	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	3	....	3	1	....	....	....	....	....	....	....	....	....	1	....	....	1	....	1	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	8	2	6	1	....	....	....	....	....	....	....	....	....	....	2	3	2	1	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	3	1	2	1	....	....	....	....	....	....	....	....	....	....	1	1	....	....	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	21	9	12	2	....	....	1	....	....	1	....	....	....	....	2	2	5	7	3	1	....
23	Other diseases of the nervous system and of the organs of special sense	4	2	2	1	....	1	....	....	....	1	....	....	....	....	1	1	1	....	....	....	....
24	Diseases of the heart	80	43	37	11	....	....	....	....	....	....	....	....	1	3	4	12	24	20	14	2	....
25	Other diseases of the circulatory system	4	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	1	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	9	5	4	....	....	....	....	....	....	....	1	....	1	....	....	....	1	3	2	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	2	....	2	....	....	2	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	1	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....
31	Diseases of the liver and biliary passages	6	4	2	1	....	....	....	....	....	....	....	....	....	....	1	2	2	1	....	....	....
32	Other diseases of the digestive system	6	1	5	1	....	....	....	....	....	....	....	....	....	1	1	1	2	....	1	....	....
33	Nephritis	10	5	5	2	....	....	....	....	....	....	....	....	....	1	1	....	1	4	1	1	....
34	Other diseases of the genitourinary system	2	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	5	3	2	3	5	....	....	....	....	5	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	7	4	3	....	....	....	....	....	....	1	1	....	....	....	2	2	....	1	....	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 20,500. Total resident deaths, 215. Rate per 1,000 population, 10.4.

TABULATION OF DEATHS IN GARFIELD CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	181	104	77	.....	7	....	1	2	....	10	1	9	11	8	23	35	30	34	10	1	....
1	Typhoid and paratyphoid fever	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	2	1	1	.....	1	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	1	1	....	.....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	1	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
9	Plague	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	9	6	3	.....	....	....	....	....	....	....	....	....	2	3	2	....	1	1	....	....	....
11	Other forms of tuberculosis	1	1	....	.....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
12	Syphilis	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	26	13	13	.....	....	....	....	....	....	....	....	1	....	1	3	10	6	4	....	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	2	....	2	.....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....
17	Chronic rheumatism and gout	1	....	1	.....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
18	Diabetes mellitus	8	5	3	.....	....	....	....	....	....	....	....	....	....	....	1	....	4	3	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	5	....	5	.....	1	....	....	....	....	1	....	1	1	....	....	....	2	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	.....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	9	5	4	.....	....	....	....	....	....	....	....	....	....	....	1	1	4	2	1	....	....
23	Other diseases of the nervous system and of the organs of special sense	4	2	2	.....	....	....	....	....	....	....	....	2	1	....	....	....	1	....	....	....	....
24	Diseases of the heart	53	34	19	.....	....	....	....	....	....	....	....	2	2	2	3	11	12	16	5	....	....
25	Other diseases of the circulatory system	2	2	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....
26	Bronchitis	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonia	14	6	8	.....	....	1	....	....	....	1	....	....	....	....	3	2	3	3	2	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	1	....	.....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	1	1	....	.....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	4	4	....	.....	....	....	....	....	....	....	....	1	2	....	....	1	....	....	....	....	....
31	Diseases of the liver and biliary passages	2	2	....	.....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
32	Other diseases of the digestive system	2	....	2	.....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
33	Nephritis	9	4	5	.....	....	....	....	....	....	....	....	....	....	1	1	2	4	1	....	....	....
34	Other diseases of the genitourinary system	2	1	1	.....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....
35	Puerperal septicemia	1	....	1	.....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	5	1	4	.....	5	....	....	....	....	5	....	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	7	5	2	.....	....	....	....	....	....	....	....	....	....	1	4	1	....	1	....	....	....	....
41	Homicide	1	1	....	.....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	7	6	1	.....	....	....	....	....	....	....	....	1	1	....	2	2	....	1	....	....	....	....
43	Cause of death not specified or ill-defined	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 34,300. Total resident deaths, 181 Rate per 1,000 population, 5.2.

TABULATION OF DEATHS IN HACKENSACK CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	265	124	141	29	18	1				10	3	6	12	14	23	40	40	61	33	5	
1	Typhoid and paratyphoid fever	1		1									1									
2	Typhus fever																					
3	Smallpox																					
4	Measles	1		1		1					1											
5	Scarlet fever																					
6	Whooping cough																					
7	Diphtheria																					
8	Influenza																					
9	Plague																					
10	Tuberculosis of the respiratory system	18	6	12	3								1	4	1	2	4	4	2			
11	Other forms of tuberculosis	1		1	1									1								
12	Syphilis	4	2	2	1											3	1					
13	Malaria																					
14	Other infectious and parasitic diseases	1		1	1									1								
15	Cancer and other malignant tumors	32	10	22	3										4	2	7	4	10	5		
16	Tumors, nonmalignant, or of which the nature is not specified	1		1												1						
17	Chronic rheumatism and gout																					
18	Diabetes mellitus	7	2	5	2												1	3	2	1		
19	Alcoholism (acute or chronic)																					
20	Other general diseases and chronic poisonings	3	1	2		1					1				1	1						
21	Progressive locomotor ataxia and general paralysis of the insane	2	2		1													1	1			
22	Cerebral hemorrhage, cerebral embolism and thrombosis	25	13	12													1	8	10	6		
23	Other diseases of the nervous system and of the organs of special sense	3	1	2	1								1		1		1					
24	Diseases of the heart	71	36	35	5							1	1	2	3	6	12	14	22	8	2	
25	Other diseases of the circulatory system	4	2	2													1		1	1	1	
26	Bronchitis																					
27	Pneumonias	17	11	6	3	2	1				3				1	4	1	1	3	3	1	
28	Other diseases of the respiratory system (tuberculosis excepted)																					
29	Diarrhoea and enteritis	2		2		1					1	1										
30	Appendicitis	3	2	1										1		1	1					
31	Diseases of the liver and biliary passages	7	2	5												1	2	3	1			
32	Other diseases of the digestive system	10	5	5		1					1				1			3	2	3		
33	Nephritis	18	11	7	2										1		2	6	5	4		
34	Other diseases of the genitourinary system	1		1													1					
35	Puerperal septicemia	1		1										1								
36	Other diseases of pregnancy, childbirth and the puerperal state																					
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion																					
38	Congenital debility and malformations, premature birth and other diseases of early infancy	12	5	7	5	12					12											
39	Senility	1		1															1			
40	Suicide	5	2	3	1									1			2	1		1		
41	Homicide	1	1													1						
42	Violent and accidental deaths (suicide and homicide excepted)	13	10	3								1	2	1	1	1	3	1	1	1	1	
43	Cause of death not specified or ill-defined																					

Estimated population, 27,600. Total resident deaths, 265. Rate per 1,000 population, 9.6.

TABULATION OF DEATHS IN RUTHERFORD BOROUGH FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	165	87	78	4	6	....	1	1	....	8	1	3	10	2	18	26	32	41	24	....	....
1	Typhoid and paratyphoid fever	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	8	4	4	....	....	....	....	....	....	....	....	1	1	....	4	1	1	....	....	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	24	10	14	1	....	....	....	....	....	....	....	....	....	....	3	5	9	6	1	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
18	Diabetes mellitus	6	....	6	1	....	....	....	....	....	....	....	....	....	....	....	3	2	1	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	3	1	2	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	11	1	10	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	8	3	....	....
23	Other diseases of the nervous system and of the organs of special sense	3	3	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	1	....	....
24	Diseases of the heart	57	33	24	....	....	....	....	....	....	....	....	....	4	1	4	9	12	15	12	....	....
25	Other diseases of the circulatory system	3	3	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....
26	Bronchitis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	4	4	....	....	....	....	1	....	....	1	....	....	1	....	....	1	....	....	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....
29	Diarrhoea and enteritis	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
30	Appendicitis	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....
31	Diseases of the liver and biliary passages	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
32	Other diseases of the digestive system	3	2	1	1	....	....	....	....	....	....	....	....	....	....	1	....	2	....	....	....	....
33	Nephritis	15	7	8	1	....	....	....	....	....	....	....	1	....	....	2	2	3	5	2	....	....
34	Other diseases of the genitourinary system	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	5	2	3	....	5	....	....	....	....	5	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	10	9	1	....	1	....	....	....	....	1	....	1	1	....	2	....	1	2	2	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 17,300. Total resident deaths, 165. Rate per 1,000 population, 9.5.

TABULATION OF DEATHS IN BURLINGTON COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	1174	588	586	94	79	9	2	2	5	97	8	19	32	53	79	140	220	280	188	40	....
1	Typhoid and paratyphoid fever	1	....	1	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	1	....	1	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	2	....	2	....	1	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	1	....	1	1	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	6	4	2	....	....	....	....	....	....	....	....	....	....	....	....	2	2	1	....	1	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	39	25	14	7	....	....	....	....	....	....	1	1	5	7	6	5	9	3	2	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	9	7	2	2	....	....	....	....	....	....	....	1	....	....	2	4	2	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	3	1	2	....	1	....	....	....	....	1	....	....	....	....	....	....	....	2	....	....	....
15	Cancer and other malignant tumors	166	64	102	15	....	....	....	....	....	....	2	....	1	10	10	29	51	41	20	2	....
16	Tumors, nonmalignant, or of which the nature is not specified	6	1	5	1	....	....	....	....	....	....	....	....	....	3	....	2	....	....	....	1	....
17	Chronic rheumatism and gout	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....
18	Diabetes mellitus	19	3	16	....	....	....	....	....	....	....	....	1	1	....	1	2	8	4	2	....	....
19	Alcoholism (acute or chronic)	2	1	1	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	19	11	8	....	4	....	....	1	2	7	....	4	1	....	....	2	3	2	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	84	36	48	4	....	....	....	....	....	....	....	....	2	....	2	11	16	31	19	3	....
23	Other diseases of the nervous system and of the organs of special sense	14	7	7	....	....	....	....	1	....	1	3	....	1	1	1	3	2	1	....	1	....
24	Diseases of the heart	391	205	186	24	....	....	....	....	....	....	1	1	5	9	24	46	73	128	82	22	....
25	Other diseases of the circulatory system	19	11	8	....	....	....	....	....	....	....	....	....	....	1	....	1	3	4	9	1	....
26	Bronchitis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonia	49	28	21	6	14	4	1	....	1	20	....	....	....	1	7	6	5	4	3	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	9	6	3	....	1	1	....	....	....	2	....	2	1	....	2	....	2	....	....	....	....
29	Diarrhoea and enteritis	7	4	3	1	4	1	....	....	....	5	....	....	2	....	....	....	....	....	....	....	....
30	Appendicitis	10	7	3	1	....	....	....	....	....	....	....	3	1	....	2	2	1	1	....	....	....
31	Diseases of the liver and biliary passages	18	6	12	....	....	....	....	....	....	....	....	....	....	2	2	2	6	5	1	....	....
32	Other diseases of the digestive system	18	11	7	1	1	....	....	....	1	2	....	2	....	1	2	1	5	3	2	....	....
33	Nephritis	119	44	75	12	....	....	....	....	....	....	....	....	1	6	5	13	24	37	29	4	....
34	Other diseases of the genitourinary system	8	5	3	....	....	....	....	....	....	....	....	1	1	1	....	....	1	2	2	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	6	....	6	....	....	....	....	....	....	....	....	....	3	3	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	50	28	22	11	49	....	1	....	....	50	....	....	....	....	....	....	....	....	....	....	....
39	Senility	4	1	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	1	....
40	Suicide	16	13	3	1	....	....	....	....	....	....	....	....	....	....	2	5	4	3	2	....	....
41	Homicide	1	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	71	56	15	5	2	1	....	....	....	3	....	1	7	5	8	13	12	8	11	3	....
43	Cause of death not specified or ill-defined	1	....	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 98,700. Total resident deaths, 1,174. Rate per 1,000 population, 11.8.

TABULATION OF DEATHS IN BURLINGTON CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	153	77	78	14	9	4	....	....	1	14	....	1	7	7	15	21	22	34	20	5	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	6	5	1	1	....	....	....	....	....	....	....	....	1	2	2	1	....	....	....	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	22	7	15	3	....	....	....	....	....	....	....	....	....	2	2	5	6	7	....	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	3	....	3	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	1	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	3	3	....	....	1	....	....	....	....	1	....	1	....	....	....	1	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	15	6	9	1	....	....	....	....	....	....	....	....	1	....	....	1	3	3	6	1	....
23	Other diseases of the nervous system and of the organs of special sense	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
24	Diseases of the heart	45	25	20	2	....	....	....	....	....	....	....	....	....	....	5	8	6	14	9	3	....
25	Other diseases of the circulatory system	6	2	4	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	3	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	9	6	3	1	1	3	....	....	....	4	....	....	....	....	1	1	....	2	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	2	1	1	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
29	Diarrhoea and enteritis	2	1	1	....	1	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....
30	Appendicitis	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	4	1	3	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	1	....	....
32	Other diseases of the digestive system	3	2	1	....	....	....	....	....	1	1	....	....	....	....	....	....	2	....	....	....	....
33	Nephritis	13	4	9	2	....	....	....	....	....	....	....	....	....	1	....	2	2	5	3	....	....
34	Other diseases of the genitourinary system	2	1	1	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	6	3	3	2	6	....	....	....	....	6	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	12	8	4	2	....	1	....	....	....	1	....	....	1	1	1	1	1	....	5	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 11,600. Total resident deaths, 153. Rate per 1,000 population, 13.3.

TABULATION OF DEATHS IN CAMDEN COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	2846	1473	1373	267	187	16	9	7	5	224	24	50	95	157	298	429	645	618	207	39	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	3	1	2	....	....	1	....	....	1	2	1	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	3	1	2	2	3	....	....	....	....	3	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	2	1	1	....	....	....	....	2	....	2	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	21	13	8	4	3	1	1	....	....	5	1	....	1	....	5	3	2	3	1	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	100	56	44	22	....	2	1	....	....	3	2	3	27	20	16	18	8	3	....	....	....
11	Other forms of tuberculosis	15	9	6	2	....	1	....	....	....	1	....	....	3	3	1	2	4	1	....	....	....
12	Syphilis	24	15	9	7	3	....	....	....	....	3	....	1	1	5	3	4	6	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	15	5	10	3	1	....	....	....	....	1	....	1	4	....	1	2	3	3	....	....	....
15	Cancer and other malignant tumors	361	172	189	20	....	....	....	....	....	....	1	....	1	10	54	73	109	76	27	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	14	9	5	....	....	....	....	....	....	....	2	....	1	1	7	2	1	....	....	....	....
17	Chronic rheumatism and gout	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....
18	Diabetes mellitus	102	37	65	5	....	....	1	....	....	1	....	2	1	1	3	21	44	23	5	1	....
19	Alcoholism (acute or chronic)	4	4	....	....	....	....	....	....	....	....	....	....	....	....	1	2	1	....	....	....	....
20	Other general diseases and chronic poisonings	36	14	22	6	6	....	....	1	....	7	2	3	2	5	7	2	3	4	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	15	14	1	4	....	....	....	....	....	....	....	....	....	1	9	1	1	3	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	182	94	88	15	....	....	....	....	....	....	....	....	....	2	16	33	48	54	25	4	....
23	Other diseases of the nervous system and of the organs of special sense	36	26	10	5	7	....	1	1	....	9	1	5	4	2	4	1	4	5	1	....	....
24	Diseases of the heart	934	502	432	65	....	....	1	....	1	2	1	6	11	22	76	137	251	276	134	18	....
25	Other diseases of the circulatory system	32	13	19	1	....	....	....	....	....	....	....	....	1	1	1	3	6	11	6	3	....
26	Bronchitis	6	1	5	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	3	....	....
27	Pneumonias	149	71	78	27	26	4	3	1	....	34	2	2	4	16	14	20	35	13	5	4	....
28	Other diseases of the respiratory system (tuberculosis excepted)	26	13	13	3	1	....	....	....	....	1	....	2	1	3	5	6	2	3	2	1	....
29	Diarrhoea and enteritis	18	9	9	3	12	2	....	1	....	15	....	1	1	....	....	1	....	....	....	....	....
30	Appendicitis	25	17	8	3	....	....	....	....	....	....	1	4	1	6	5	4	3	1	....	....	....
31	Diseases of the liver and biliary passages	32	18	14	4	1	....	....	....	....	1	....	....	....	4	4	10	10	2	1	....	....
32	Other diseases of the digestive system	67	34	33	7	6	3	....	....	1	10	3	....	3	7	10	13	11	7	3	....	....
33	Nephritis	289	136	153	29	....	1	....	....	1	2	....	2	1	8	19	38	71	106	39	3	....
34	Other diseases of the genitourinary system	20	13	7	1	....	....	....	....	....	....	....	....	2	2	4	4	2	3	3	....	....
35	Puerperal septicemia	11	....	11	2	....	....	....	....	....	....	....	....	3	6	2	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	8	....	8	....	....	....	....	....	....	....	....	....	2	3	3	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	6	3	3	....	1	....	....	....	....	1	1	....	....	....	....	4	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	112	58	54	14	112	....	....	....	....	112	....	....	....	....	....	....	....	....	....	....	....
39	Senility	6	2	4	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	4	1	....
40	Suicide	19	11	8	....	....	....	....	....	....	....	....	....	2	1	6	4	3	1	....	....	....
41	Homicide	6	5	1	3	....	....	....	....	....	....	....	....	2	1	1	....	2	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	144	94	50	9	5	1	1	1	1	9	6	18	16	17	20	19	12	17	7	3	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 279,300. Total resident deaths, 2,846. Rate per 1,000 population, 10.1.

TABULATION OF DEATHS IN CAMDEN CITY FOR 1936, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	1357	720	637	192	86	10	6	4	8	109	12	24	46	90	100	222	306	253	114	19	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	2	1	1	....	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	3	1	2	2	3	....	....	....	....	3	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	2	1	1	....	....	....	....	2	....	2	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	14	11	3	3	2	1	1	....	....	4	....	....	1	....	4	2	1	1	1	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	57	33	24	16	....	....	1	....	....	1	1	2	15	16	11	5	5	1	....	....	....
11	Other forms of tuberculosis	4	2	2	....	....	....	....	....	....	....	....	....	....	2	....	....	2	....	1	....	....	....
12	Syphilis	18	11	7	7	2	....	....	....	....	2	....	....	1	4	2	3	5	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infections and parasitic diseases	9	2	7	3	1	....	....	....	....	1	....	....	4	....	1	....	1	2	....	....	....
15	Cancer and other malignant tumors	163	79	84	13	....	....	....	....	....	....	1	....	1	13	20	29	46	34	13	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	5	5	....	....	....	....	....	....	....	....	1	....	1	....	2	....	1	....	....	....	....
17	Chronic rheumatism and gout	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....
18	Diabetes mellitus	52	20	32	5	....	....	....	....	....	....	....	1	....	1	1	13	25	8	2	1	....
19	Alcoholism (acute or chronic)	2	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
20	Other general diseases and chronic poisonings	18	7	11	4	2	....	....	....	....	2	1	2	....	1	5	1	3	3	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	12	11	1	4	....	....	....	....	....	....	....	....	....	1	8	1	1	1	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	91	49	42	10	....	....	....	....	....	....	....	....	....	1	11	22	22	22	11	2	....
23	Other diseases of the nervous system and of the organs of special sense	18	13	5	5	3	....	1	....	....	4	....	2	2	2	4	1	1	1	1	....	....
24	Diseases of the heart	428	234	192	44	....	....	1	....	1	2	1	5	6	11	34	70	117	120	53	7	....
25	Other diseases of the circulatory system	15	6	9	1	....	....	....	....	....	....	....	....	....	1	....	2	5	2	2	3	....
26	Bronchitis	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....
27	Pneumonias	84	40	44	18	13	4	1	1	....	19	1	....	2	10	9	12	20	4	4	3	....
28	Other diseases of the respiratory system (tuberculosis excepted)	8	4	4	2	....	....	....	....	....	....	....	1	1	....	2	2	1	....	1	....	....
29	Diarrhoea and enteritis	10	4	6	3	6	2	....	1	....	9	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	13	9	4	2	....	....	....	....	....	....	....	2	....	3	4	2	1	1	....	....	....
31	Diseases of the liver and biliary passages	17	10	7	3	1	....	....	....	....	1	....	....	....	1	4	4	4	2	1	....	....
32	Other diseases of the digestive system	30	13	17	6	3	1	....	....	....	4	1	....	1	3	3	6	6	2	2	....	....
33	Nephritis	127	57	70	21	....	1	....	....	....	1	....	1	1	6	11	22	28	40	16	1	....
34	Other diseases of the genitourinary system	8	6	2	....	....	....	....	....	....	....	....	....	1	....	....	3	2	....	2	....	....	....
35	Puerperal septicemia	5	....	5	1	....	....	....	....	....	....	....	....	....	4	1	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	3	1	2	....	1	....	....	....	....	1	....	....	....	....	....	2	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	47	27	20	7	47	....	....	....	....	47	....	....	....	....	....	....	....	....	....	....	....
39	Senility	4	2	2	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	1	....
40	Suicide	11	7	4	....	....	....	....	....	....	....	....	....	....	....	3	4	3	1	....	....	....
41	Homicide	5	4	1	3	....	....	....	....	....	....	....	....	2	1	1	....	1	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	67	46	21	8	2	1	1	....	1	5	4	8	6	7	11	11	3	8	3	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 119,700. Total resident deaths, 1,357. Rate per 1,000 population, 11.3.

TABULATION OF DEATHS IN GLOUCESTER CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	187	95	92	.....	15	.....	.....	1	.....	16	2	4	7	11	19	24	42	52	9	1	.....
1	Typhoid and paratyphoid fever	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
2	Typhus fever	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3	Smallpox	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
4	Measles	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
5	Scarlet fever	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6	Whooping cough	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
7	Diphtheria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	Influenza	1	.....	1	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
9	Plague	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	Tuberculosis of the respiratory system	5	1	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	2	.....	.....	.....	.....	.....
11	Other forms of tuberculosis	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
12	Syphilis	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
13	Malaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14	Other infectious and parasitic diseases	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
15	Cancer and other malignant tumors	23	10	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2	2	5	11	1	.....	.....
16	Tumors, non-malignant, or of which the nature is not specified	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
17	Chronic rheumatism and gout	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
18	Diabetes mellitus	6	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	4	.....	.....	.....
19	Alcoholism (acute or chronic)	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
20	Other general diseases and chronic poisonings	5	2	3	.....	1	.....	.....	.....	.....	1	.....	.....	.....	3	.....	1	.....	.....	.....	.....	.....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	12	5	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	2	6	1	.....	.....
23	Other diseases of the nervous system and of the organs of special sense	5	3	2	.....	1	.....	.....	1	.....	2	.....	1	.....	.....	.....	.....	2	.....	.....	.....	.....
24	Diseases of the heart	53	35	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	8	6	20	15	3	.....	.....
25	Other diseases of the circulatory system	2	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2	.....	.....
26	Bronchitis	3	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27	Pneumonias	9	4	5	.....	2	.....	.....	.....	.....	2	.....	.....	1	1	1	2	1	1	.....	.....	.....
28	Other diseases of the respiratory system (tuberculosis excepted)	3	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	1	.....
29	Diarrhoea and enteritis	3	2	1	.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	Appendicitis	2	1	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
31	Diseases of the liver and biliary passages	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
32	Other diseases of the digestive system	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
33	Nephritis	23	11	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3	1	8	9	1	.....	.....	.....
34	Other diseases of the genitourinary system	3	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....
35	Puerperal septicemia	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
36	Other diseases of pregnancy, childbirth and the puerperal state	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	2	1	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	8	4	4	.....	8	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
39	Senility	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
40	Suicide	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
41	Homicide	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
42	Violent and accidental deaths (suicide and homicide excepted)	8	7	1	.....	.....	.....	.....	.....	.....	.....	.....	3	1	1	.....	1	2	.....	.....	.....	.....
43	Cause of death not specified or ill-defined	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Estimated population, 14,500. Total resident deaths, 187. Rate per 1,000 population, 12.8.

TABULATION OF DEATHS IN CAPE MAY COUNTY FOR 1933, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	462	261	201	57	8	2	2	....	....	12	1	7	13	17	29	64	124	116	68	11	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	3	1	2	1	....	....	1	....	....	1	....	....	....	....	....	1	1	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	10	7	3	1	....	....	....	....	....	....	....	....	2	2	1	3	2	....	....	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	6	2	4	4	....	....	....	....	....	....	....	....	....	....	4	1	1	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	46	25	21	5	....	....	....	....	....	....	....	....	....	1	0	8	13	12	0	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	2	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....
18	Diabetes mellitus	19	9	10	1	....	....	....	....	....	....	....	....	....	....	....	2	5	9	3	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	8	5	3	....	....	....	1	....	....	1	....	1	1	1	....	....	3	1	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	2	2	....	1	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	58	25	33	2	....	....	....	....	....	....	....	....	1	....	3	5	11	21	16	1	....
23	Other diseases of the nervous system and of the organs of special sense	3	2	1	1	....	....	....	....	....	....	....	....	1	....	....	1	....	1	....	....	....
24	Diseases of the heart	131	70	52	10	....	....	....	....	....	....	....	....	....	3	5	17	42	37	24	3	....
25	Other diseases of the circulatory system	14	9	5	2	....	....	....	....	....	....	....	....	....	....	....	1	5	4	3	1	....
26	Bronchitis	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....
27	Pneumonias	25	16	9	10	3	1	....	....	....	4	....	1	1	3	3	3	6	3	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	6	2	4	1	1	1	....	....	....	2	....	....	....	....	....	....	1	....	1	2	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	4	2	2	....	....	....	....	....	....	....	....	....	....	1	....	1	2	....	....	....	....
31	Diseases of the liver and biliary passages	8	4	4	1	....	....	....	....	....	....	....	....	....	....	1	2	4	1	....	....	....
32	Other diseases of the digestive system	9	4	5	1	....	....	....	....	....	....	....	....	....	1	2	4	2	....	....	....	....
33	Nephritis	54	31	23	2	....	....	....	....	....	....	....	....	1	1	1	8	15	21	6	1	....
34	Other diseases of the genitourinary system	2	2	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....
35	Puerperal septicemia	2	....	2	1	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	1	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	4	4	....	1	4	....	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....
39	Senility	6	1	5	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	3	2	....
40	Suicide	6	3	3	....	....	....	....	....	....	....	....	....	....	1	....	1	2	2	....	....	....
41	Homicide	4	3	1	3	....	....	....	....	....	....	....	....	....	2	....	....	1	1	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	25	21	4	6	....	....	....	....	....	....	1	5	1	....	2	6	6	1	3	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 33,900. Total resident deaths, 462. Rate per 1,000 population, 13.6.

TABULATION OF DEATHS IN CUMBERLAND COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	909	484	425	69	47	2	7	3	3	62	9	19	38	32	68	101	180	235	139	17	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	2	....	2	....	....	....	....	1	....	1	1	....	....	....	....	1	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	2	2	....	1	2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	8	6	2	....	1	....	....	....	....	1	....	....	....	....	....	2	2	1	2	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	32	15	17	5	....	....	....	1	....	1	....	1	6	5	7	5	6	1	....	....	....
11	Other forms of tuberculosis	5	1	5	1	....	....	....	....	....	....	....	2	1	....	1	....	1	....	....	....	....
12	Syphilis	8	4	4	1	....	....	....	....	....	....	....	....	....	....	....	5	3	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infections and parasitic diseases	11	4	7	1	2	....	1	....	....	3	....	....	2	....	4	....	1	....	1	....	....
15	Cancer and other malignant tumors	99	38	61	7	....	....	....	....	....	....	....	1	6	3	10	17	23	27	12	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
17	Chronic rheumatism and gout	3	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....
18	Diabetes mellitus	17	10	7	2	....	....	....	....	....	....	....	1	....	....	4	2	6	4	....	....	....
19	Alcoholism (acute or chronic)	4	2	2	1	....	....	....	....	....	....	....	....	....	....	2	....	1	1	....	....	....
20	Other general diseases and chronic poisonings	16	6	10	2	1	....	....	....	....	1	2	1	1	1	1	4	5	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	100	47	53	6	....	....	....	....	....	....	....	....	....	1	3	8	28	39	19	2	....
23	Other diseases of the nervous system and of the organs of special sense	9	8	1	....	....	....	1	....	2	3	....	....	1	....	1	....	....	3	1	....	....
24	Diseases of the heart	298	171	127	21	1	....	....	....	....	1	....	2	3	4	17	37	66	98	62	8	....
25	Other diseases of the circulatory system	39	12	18	....	....	....	....	....	....	....	....	....	....	1	2	1	2	7	15	2	....
26	Bronchitis	2	1	2	....	1	....	....	....	....	1	....	....	....	....	....	....	1	1	....	....	....
27	Pneumonias	29	14	15	3	5	2	....	....	....	7	....	1	1	2	2	3	5	4	3	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	6	2	4	....	....	....	....	....	....	....	....	....	1	....	....	....	2	1	2	....	....	....
29	Diarrhoea and enteritis	11	8	3	3	7	....	....	....	....	7	....	1	....	....	....	....	....	2	....	1	....
30	Appendicitis	8	8	....	....	....	....	....	....	....	....	2	1	2	1	1	....	....	1	....	....	....
31	Diseases of the liver and biliary passages	17	7	10	....	....	....	....	....	....	....	....	....	....	1	2	4	2	6	2	....	....
32	Other diseases of the digestive system	11	7	4	1	....	....	1	....	....	1	....	....	2	....	4	....	3	1	....	....	....
33	Nephritis	67	42	25	2	....	....	1	....	....	1	....	....	....	1	3	7	20	23	12	....	....
34	Other diseases of the genitourinary system	9	6	3	....	....	....	....	....	....	....	....	....	....	....	1	1	3	3	1	....	....	....
35	Puerperal septicemia	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	6	....	6	....	....	....	....	....	....	....	....	....	3	2	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	2	1	1	....	1	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	27	15	12	5	26	....	1	....	....	27	....	....	....	....	....	....	....	....	....	....	....
39	Senility	6	2	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	3	....
40	Suicide	11	9	2	....	....	....	....	....	....	....	....	....	....	2	1	1	2	4	1	....	....
41	Homicide	3	1	2	1	....	....	....	....	....	....	....	....	1	....	....	1	....	1	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	45	32	13	6	....	....	2	1	1	4	4	7	7	8	1	1	2	6	4	1	....
43	Cause of death not specified or ill-defined	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....

Estimated population, 73,600. Total resident deaths, 909. Rate per 1,000 population, 12.3.

TABULATION OF DEATHS IN BRIDGETON CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	218	118	100	24	13	1	2	1	1	18	3	3	5	4	17	21	52	51	41	3	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	....	1	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	9	4	5	....	....	....	....	....	....	....	....	....	1	1	4	....	3	....	....	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	4	1	3	....	....	....	....	....	....	....	....	....	....	....	....	1	3	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	3	1	2	1	1	....	....	....	....	1	....	....	....	....	2	....	....	....	....	....	....
15	Cancer and other malignant tumors	26	13	13	1	....	....	....	....	....	....	....	1	....	1	3	5	4	5	7	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
18	Diabetes mellitus	4	1	3	2	....	....	....	....	....	....	....	....	....	....	1	2	1	....	....	....	....
19	Alcoholism (acute or chronic)	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
20	Other general diseases and chronic poisonings	3	1	2	1	....	....	....	....	....	....	2	....	....	....	....	1	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	19	12	7	3	....	....	....	....	....	....	....	....	....	....	1	1	7	5	5	....	....
23	Other diseases of the nervous system and of the organs of special sense	3	3	....	....	....	....	....	1	....	1	2	....	....	....	....	1	....	....	1	1	....
24	Diseases of the heart	77	45	32	9	....	....	....	....	....	....	....	....	....	1	1	2	6	24	26	15	2
25	Other diseases of the circulatory system	8	1	7	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	4	1
26	Bronchitis	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
27	Pneumonias	5	5	....	....	2	1	....	....	....	3	....	....	....	....	....	....	....	2	....	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	3	....	3	....	....	....	....	....	....	....	....	....	1	....	....	1	1	....	....	....	....
29	Diarrhoea and enteritis	2	2	....	1	2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	3	3	....	....	....	....	....	....	....	....	1	1	....	....	1	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	3	....	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	....
32	Other diseases of the digestive system	4	2	2	....	....	....	....	....	....	....	....	....	2	....	1	....	....	1	....	....	....
33	Nephritis	14	9	5	1	....	....	....	....	....	....	....	....	....	....	....	....	3	1	7	3	....
34	Other diseases of the genitourinary system	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	8	4	4	3	7	....	1	....	....	8	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
40	Suicide	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	4	3	1	2	....	....	....	....	....	....	....	1	....	....	....	....	1	2	....	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 16,300. Total resident deaths, 218. Rate per 1,000 population, 13.3.

TABULATION OF DEATHS IN MILLVILLE CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	206	107	99	1	12	1	....	1	....	14	1	4	12	5	22	23	30	58	24	4	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	5	2	3	....	....	....	....	....	....	....	....	1	2	....	....	1	....	1	....	....	....
11	Other forms of tuberculosis	3	....	3	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....	....
12	Syphilis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
15	Cancer and other malignant tumors	20	7	13	....	....	....	....	....	....	....	....	....	4	....	3	....	6	7	....	....	....
16	Tumors, non-malignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
18	Diabetes mellitus	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	....	....	....
19	Alcoholism (acute or chronic)	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	5	2	3	....	....	....	....	....	....	....	....	1	1	....	....	1	2	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	33	13	20	....	....	....	....	....	....	....	....	....	....	....	1	3	7	12	8	2	....

23	Other diseases of the nervous system and of the organs of special sense	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
24	Diseases of the heart	59	31	28	....	1	....	....	....	....	1	....	....	....	....	7	13	11	17	10	....	....
25	Other diseases of the circulatory system	8	3	5	....	....	....	....	....	....	....	....	....	....	....	1	....	....	3	3	1	....
26	Bronchitis	1	1	....	....	1	....	....	....	....	1	....	....	....	....	2	....	....	....	....	....	....
27	Pneumonias	7	3	4	....	1	1	....	....	....	2	....	....	....	1	1	1	....	2	....	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	1	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	3	3	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	1	....	....	....
31	Diseases of the liver and biliary passages	4	1	3	....	....	....	....	....	....	....	....	....	....	1	1	....	....	1	1	....	....
32	Other diseases of the digestive system	2	2	....	1	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....
33	Nephritis	21	16	5	....	....	....	....	....	....	....	....	....	....	....	3	2	5	9	2	....	....
34	Other diseases of the genitourinary system	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	8	5	3	....	8	....	....	....	....	8	....	....	....	....	....	....	....	....	....	....	....
39	Senility	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....
40	Suicide	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	12	11	1	....	....	....	....	1	....	1	1	1	2	2	....	1	1	2	1	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 14,700. Total resident deaths, 206. Rate per 1,000 population, 14.0.

TABULATION OF DEATHS IN ESSEX COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	8905	4666	4239	1002	396	45	20	17	17	504	72	194	354	559	955	1548	1985	1796	831	107	....
1	Typhoid and paratyphoid fever	5	2	3	....	....	....	1	....	....	1	....	2	2	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	16	6	10	6	7	3	3	2	1	16	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	4	2	2	1	....	1	....	....	....	1	2	1	....	....	....	....	....	....	....	....	....
8	Influenza	32	17	15	2	2	2	2	....	....	6	....	2	2	1	2	7	4	4	3	1	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	443	252	191	134	1	1	....	....	1	3	2	25	105	96	84	65	47	16	....	....	....
11	Other forms of tuberculosis	45	23	22	20	7	....	1	1	3	12	1	9	7	7	3	3	2	1	....	....	....
12	Syphilis	89	66	23	41	1	....	....	....	....	1	....	2	3	19	15	31	9	9	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	24	14	10	7	....	....	....	3	....	3	1	3	5	6	2	1	3	....	....	....	....
15	Cancer and other malignant tumors	1241	581	660	80	....	1	....	1	....	2	3	5	15	46	156	288	369	262	89	6	....
16	Tumors, nonmalignant, or of which the nature is not specified	53	18	35	10	....	....	....	....	....	....	3	....	0	11	15	6	3	6	....	....	....
17	Chronic rheumatism and gout	9	4	5	1	....	....	....	....	....	....	....	....	....	....	2	....	2	1	2	2	....
18	Diabetes mellitus	202	78	124	21	....	....	....	....	....	....	1	2	3	3	15	25	77	75	19	2	....
19	Alcoholism (acute or chronic)	10	12	2	3	....	....	....	....	....	....	....	....	1	5	7	3	....	....	....	....	....
20	Other general diseases and chronic poisonings	147	60	87	18	7	1	1	....	....	9	9	19	8	16	17	29	24	14	2	....	....
21	Progressive locomotor ataxia and genera. paralysis of the insane	25	24	1	5	....	....	....	....	....	....	1	1	2	3	6	6	5	1	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	646	278	368	61	....	....	....	....	....	....	....	1	4	16	39	97	198	209	71	11	....
23	Other diseases of the nervous system and of the organs of special sense	99	51	48	12	4	2	1	....	1	8	7	8	8	11	17	17	11	7	5	....	....
24	Diseases of the heart	2781	1531	1250	226	....	....	....	2	1	3	5	26	37	95	243	483	731	731	382	45	....
25	Other diseases of the circulatory system	152	83	69	8	....	....	....	....	....	....	....	....	3	6	12	18	34	40	33	6	....
26	Bronchitis	25	16	9	1	2	1	....	....	....	3	1	....	1	....	1	2	6	3	6	2	....
27	Pneumonias	444	229	215	62	52	16	3	3	2	76	6	14	20	27	58	63	71	67	38	4	....
28	Other diseases of the respiratory system (tuberculosis excepted)	58	38	20	7	4	1	....	1	....	6	2	3	4	10	8	7	6	9	2	1	....
29	Diarrhoea and enteritis	20	15	14	2	9	5	....	1	1	16	1	1	4	....	3	....	2	1	1	....	....
30	Appendicitis	128	75	53	7	....	1	5	3	1	10	7	13	8	19	19	24	13	10	4	1	....
31	Diseases of the liver and biliary passages	193	93	100	8	1	1	1	....	....	3	....	....	5	13	36	55	40	31	8	2	....
32	Other diseases of the digestive system	212	137	75	22	5	1	1	....	1	8	3	5	7	10	35	53	48	28	8	1	....
33	Nephritis	579	297	303	57	....	....	1	1	1	3	1	7	10	21	53	83	143	157	84	8	....
34	Other diseases of the genitourinary system	123	89	34	19	2	....	....	....	1	3	1	....	8	11	10	21	28	27	12	2	....
35	Puerperal septicemia	9	....	9	3	....	....	....	....	....	....	....	....	6	3	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	24	....	24	....	....	....	....	....	....	....	....	....	10	12	2	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	18	8	10	3	4	....	....	....	....	4	....	4	1	2	2	....	3	2	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	281	147	134	38	274	2	2	....	1	279	2	....	....	....	....	....	....	....	....	....	....
39	Senility	37	12	25	2	....	....	....	....	....	....	....	....	....	....	....	....	3	12	12	10	....
40	Suicide	161	106	55	7	....	....	....	....	....	....	....	1	11	26	34	45	28	13	3	....	....
41	Homicide	29	17	12	20	....	....	....	....	1	1	....	1	10	12	2	....	3	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	472	312	160	62	14	6	3	2	1	26	13	30	35	44	59	74	72	58	47	5	....
43	Cause of death not specified or ill-defined	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....

Estimated population, 912,600. Total resident deaths, 8,905. Rate per 1,000 population, 9.7.

TABULATION OF DEATHS IN BELLEVILLE TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	259	134	125	9	11	2	....	1	....	14	3	12	17	16	21	44	59	40	29	4	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	1	....	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	6	2	4	2	....	....	....	....	....	....	....	1	....	3	....	....	1	1	....	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
15	Cancer and other malignant tumors	27	11	16	2	....	....	....	....	....	....	....	1	2	3	....	11	5	4	1	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	3	2	1	....	....	....	....	....	....	....	1	....	....	....	....	2	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	7	....	7	....	....	....	....	....	....	....	1	....	....	....	....	2	2	2	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	2	....	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	13	3	10	1	....	....	....	....	....	....	....	....	....	1	....	2	5	3	2	....	....
23	Other diseases of the nervous system and of the organs of special sense	5	3	2	....	....	....	....	....	....	....	....	....	....	1	2	2	....	....	....	....	....
24	Diseases of the heart	84	55	29	2	....	....	....	....	....	....	....	2	....	3	5	10	27	22	14	1	....
25	Other diseases of the circulatory system	6	4	2	....	....	....	....	....	....	....	....	....	....	1	....	....	3	....	1	1	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonia	16	8	8	1	3	....	....	1	....	4	....	1	1	1	2	3	3	....	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	5	4	1	....	....	....	....	....	....	....	....	1	1	1	1	....	....	....	1	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	7	2	5	....	....	....	....	....	....	....	....	2	1	....	1	1	1	1	....	....	....
31	Diseases of the liver and biliary passages	4	1	3	....	....	....	....	....	....	....	....	....	1	....	2	....	....	....	....	1	....
32	Other diseases of the digestive system	11	6	5	....	....	....	....	....	....	....	....	2	1	1	1	4	2	....	....	....	....
33	Nephritis	23	11	12	....	....	....	....	....	....	....	....	....	3	1	....	1	5	6	7	....	....
34	Other diseases of the genitourinary system	4	3	1	....	....	....	....	....	....	....	....	....	2	....	....	1	....	....	1	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	8	4	4	....	7	1	....	....	....	8	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	5	5	....	....	....	....	....	....	....	....	....	....	....	1	3	....	1	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	15	7	8	....	1	....	....	....	....	1	....	2	1	1	2	1	3	2	1	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 31,900. Total resident deaths, 259. Rate per 1,000 population, 8.1.

TABULATION OF DEATHS IN BLOOMFIELD TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	362	178	184	4	19	2	3	2	2	28	1	2	9	18	32	51	82	85	46	8	
1	Typhoid and paratyphoid fever																					
2	Typhus fever																					
3	Smallpox																					
4	Measles																					
5	Scarlet fever																					
6	Whooping cough	1		1				1			1											
7	Diphtheria																					
8	Influenza	4	2	2										1			1		2			
9	Plague																					
10	Tuberculosis of the respiratory system	12	7	5										3	2	2	1	4				
11	Other forms of tuberculosis																					
12	Syphilis	2	1	1	1												1		1			
13	Malaria																					
14	Other infectious and parasitic diseases	1	1												1							
15	Cancer and other malignant tumors	43	23	20					1		1				1	8	8	11	9	5		
16	Tumors, nonmalignant, or of which the nature is not specified	3	1	2											1	1	1					
17	Chronic rheumatism and gout																					
18	Diabetes mellitus	10	2	8													3	2	3	2		
19	Alcoholism (acute or chronic)																					
20	Other general diseases and chronic poisonings	6	2	4		1					1		1				1	3				
21	Progressive locomotor ataxia and general paralysis of the insane																					
22	Cerebral hemorrhage, cerebral embolism and thrombosis	26	11	15												2	5	6	10	1	2	

23	Other diseases of the nervous system and of the organs of special sense	4	2	2			1				1	1						2				
24	Diseases of the heart	107	38	49	1									1	6	5	10	31	31	18	5	
25	Other diseases of the circulatory system	7	3	4													3	1	2	1		
26	Bronchitis	2		2																2		
27	Pneumonias	38	5	13		1	1	1			3			1	1	4	1	2	4	2		
28	Other diseases of the respiratory system (tuberculosis excepted)	2	1	1												1			1			
29	Diarrhoea and enteritis	2	2							1	1							1				
30	Appendicitis	5	2	3											1	1	2		1			
31	Diseases of the liver and biliary passages	6	4	2												1		1	3	1		
32	Other diseases of the digestive system	7	5	2												1	1	1	3	1		
33	Nephritis	48	20	28	1			1	1	1	3				1	2	7	10	12	12	1	
34	Other diseases of the genitourinary system	6	5	1											1			3	1	1		
35	Puerperal septicemia																					
36	Other diseases of pregnancy, childbirth and the puerperal state	3		3											3							
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1		1															1			
38	Congenital debility and malformations, premature birth and other diseases of early infancy	15	9	6		15					15											
39	Senility	1		1																1		
40	Suicide	6	4	2									1		1		3	1				
41	Homicide																					
42	Violent and accidental deaths (suicide and homicide excepted)	14	8	6	1	1	1				2				2	4	3	1	1	1		
43	Cause of death not specified or ill-defined																					

Estimated population, 45,100. Total resident deaths, 362. Rate per 1,000 population, 8.0.

TABULATION OF DEATHS IN EAST ORANGE CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	783	357	426	73	21	2	....	....	....	23	5	9	23	39	68	135	175	186	104	16	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	26	17	9	9	....	....	....	....	....	....	....	3	5	8	4	4	1	1	....	....	....
11	Other forms of tuberculosis	3	3	....	1	1	....	....	....	....	1	....	1	....	....	....	....	....	1	....	....	....
12	Syphilis	6	4	2	3	....	....	....	....	....	....	....	....	....	3	....	1	....	2	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	2	1	1	1	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	128	59	89	6	....	....	....	....	....	....	....	....	2	3	10	31	40	29	12	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	15	3	12	3	....	....	....	....	....	....	....	....	....	....	2	1	2	7	2	1	....
19	Alcoholism (acute or chronic)	1	....	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	17	6	11	4	1	....	....	....	....	1	....	3	1	1	2	3	3	3	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	2	2	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	89	25	55	9	....	....	....	....	....	....	....	....	1	....	5	10	29	23	12	....	....
23	Other diseases of the nervous system and of the organs of special sense	8	6	2	....	....	....	....	....	....	....	....	....	....	1	....	2	1	....	2	2	....	....
24	Diseases of the heart	255	127	128	13	....	....	....	....	....	....	....	....	....	4	5	14	45	60	67	50	10	....
25	Other diseases of the circulatory system	13	5	8	....	....	....	....	....	....	....	....	....	....	....	....	1	4	2	1	4	1	....
26	Bronchitis	3	3	....	....	1	....	....	....	....	1	....	....	....	....	....	1	....	....	....	1	....	....
27	Pneumonias	28	9	19	5	5	1	....	....	....	6	1	1	1	....	....	3	3	4	6	3	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	10	5	5	....	....	1	....	....	....	1	2	....	....	3	1	2	1	....	....	....	....	....
31	Diseases of the liver and biliary passages	21	10	11	4	....	....	....	....	....	....	....	....	1	3	5	3	1	7	1	....	....	....
32	Other diseases of the digestive system	23	16	7	1	1	....	....	....	....	1	....	....	....	....	6	7	4	3	2	....	....	....
33	Nephritis	52	24	28	1	....	....	....	....	....	....	....	....	....	2	1	5	16	22	5	1	....	....
34	Other diseases of the genitourinary system	11	7	4	2	....	....	....	....	....	....	....	....	....	2	1	....	2	3	2	1	....	....
35	Puerperal septicemia	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	4	3	1	2	1	....	....	....	....	1	....	....	....	1	1	....	1	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	11	5	6	....	11	....	....	....	....	11	....	....	....	....	....	....	....	....	....	....	....	....
39	Senility	4	....	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	1	....	....
40	Suicide	19	14	5	1	....	....	....	....	....	....	....	....	....	1	3	5	5	2	3	....	....	....
41	Homicide	3	2	1	1	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	31	19	12	5	....	....	....	....	....	....	2	1	1	2	3	8	6	3	5	....	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 75,600. Total resident deaths, 783. Rate per 1,000 population, 10.3.

TABULATION OF DEATHS IN IRVINGTON TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	532	277	255	1	19	2	1	2	....	24	3	11	14	33	65	92	108	130	44	8	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
10	Tuberculosis of the respiratory system	20	9	11	....	....	....	....	....	....	....	....	1	4	4	1	5	3	2	....	....	....
11	Other forms of tuberculosis	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2	1	1	....	....
12	Syphilis	4	3	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	91	47	44	1	....	....	....	....	....	....	1	1	1	4	13	15	26	24	6	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	6	2	4	....	....	....	....	....	....	....	....	....	....	....	3	....	1	2	....	....	....
17	Chronic rheumatism and gout	2	1	1	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....
18	Diabetes mellitus	21	5	16	....	....	....	....	....	....	....	....	....	....	....	2	0	2	10	1	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	9	5	4	....	....	....	....	....	....	....	1	....	1	2	1	3	....	1	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	28	11	17	....	....	....	....	....	....	....	....	....	....	2	2	6	4	8	6	....	....
23	Other diseases of the nervous system and of the organs of special sense	6	3	3	....	....	....	....	....	....	....	1	1	2	....	....	1	....	1	....	....	....
24	Diseases of the heart	160	80	80	....	....	....	....	....	....	....	....	1	2	5	19	28	30	53	16	6	....
25	Other diseases of the circulatory system	4	4	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	1	....	....
26	Bronchitis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
27	Pneumonias	23	10	13	....	5	....	....	....	....	5	....	....	1	1	3	1	4	5	3	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	3	3	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....
29	Diarrhoea and enteritis	4	2	2	....	1	1	....	1	....	3	....	1	....	....	....	....	....	....	....	....	....
30	Appendicitis	12	10	2	....	....	....	....	1	....	1	....	2	....	3	1	3	1	1	....	....	....
31	Diseases of the liver and biliary passages	15	5	10	....	....	....	1	....	....	1	....	....	....	1	3	2	5	3	....	....	....
32	Other diseases of the digestive system	7	5	2	....	....	....	....	....	....	....	....	1	....	....	2	....	1	3	....	....	....
33	Nephritis	25	13	12	....	....	....	....	....	....	....	....	....	1	2	2	2	6	5	6	1	....
34	Other diseases of the genitourinary system	7	5	2	....	....	....	....	....	....	....	....	....	....	2	1	....	1	2	1	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	4	....	4	....	....	....	....	....	....	....	....	....	1	3	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	13	6	7	....	13	....	....	....	....	13	....	....	....	....	....	....	....	....	....	....	....
39	Senility	4	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	2	....
40	Suicide	20	13	7	....	....	....	....	....	....	....	....	....	....	1	6	7	3	2	1	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	32	23	9	....	....	1	....	....	....	1	....	2	1	1	6	7	8	3	2	1	....
43	Cause of death not specified or ill-defined	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....

Estimated population, 70,400. Total resident deaths, 532. Rate per 1,000 population, 7.5.

TABULATION OF DEATHS IN MONTCLAIR TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	457	203	251	76	12	2	....	1	1	16	4	4	18	24	33	72	104	110	56	14	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	16	6	10	7	....	....	....	....	....	....	....	1	3	5	2	2	3	....	....	....	....
11	Other forms of tuberculosis	4	3	1	2	....	....	....	....	....	....	1	....	1	1	....	1	....	....	....	....	....
12	Syphilis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
15	Cancer and other malignant tumors	63	29	34	8	....	....	....	....	....	....	....	....	3	....	7	17	18	13	5	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	13	7	6	5	....	....	....	....	....	....	....	....	....	....	2	2	5	3	....	1	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	4	1	3	2	....	....	....	....	....	....	1	....	....	....	....	....	3	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	41	14	27	6	....	....	....	....	....	....	....	....	....	1	2	....	11	19	5	3	....
23	Other diseases of the nervous system and of the organs of special sense	5	....	5	1	....	....	....	....	....	....	....	....	....	1	2	1	....	....	1	....	....
24	Diseases of the heart	164	79	85	21	....	....	....	....	....	....	....	1	2	8	9	25	39	47	28	5	....
25	Other diseases of the circulatory system	8	3	5	1	....	....	....	....	....	....	....	....	....	....	....	....	1	2	5	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonia	26	12	14	4	1	1	....	....	1	3	....	1	2	1	1	8	4	5	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	3	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	6	6	....	....	....	....	....	....	....	....	....	....	1	1	....	2	1	1	....	....	....
31	Diseases of the liver and biliary passages	6	3	3	1	....	....	....	....	....	....	....	....	....	....	....	3	....	1	1	1	....
32	Other diseases of the digestive system	16	7	9	3	....	....	....	....	....	....	1	....	....	1	2	5	5	2	....	....	....
33	Nephritis	29	8	21	3	....	....	....	....	....	....	....	....	....	1	1	3	9	9	5	1	....
34	Other diseases of the genitourinary system	5	3	2	1	....	....	....	....	....	....	....	....	....	1	....	1	....	2	1	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	3	....	3	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	10	5	5	3	10	....	....	....	....	10	....	....	....	....	....	....	....	....	....	....	....
39	Senility	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....
40	Suicide	7	3	4	....	....	....	....	....	....	....	....	....	2	1	1	1	1	1	....	....	....
41	Homicide	3	2	1	3	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	21	12	9	4	1	1	....	1	....	3	1	1	1	....	5	....	3	3	3	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 47,800. Total resident deaths, 457. Rate per 1,000 population, 9.5.

TABULATION OF DEATHS IN NEWARK CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	4940	2727	2213	752	255	28	17	9	12	321	38	132	218	344	575	922	1103	903	354	30	....
1	Typhoid and paratyphoid fever	2	1	1	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	7	3	4	5	3	2	....	2	....	7	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	2	1	1	1	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....
8	Influenza	18	12	6	2	2	2	2	....	....	6	....	1	1	....	1	4	1	2	1	1	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	300	176	124	126	1	1	....	....	1	3	....	19	74	61	59	44	30	10	....	....	....
11	Other forms of tuberculosis	29	12	17	21	6	....	1	....	3	10	....	5	5	5	2	1	1	....	....	....	....
12	Syphilis	67	50	17	37	1	....	....	....	....	1	....	2	2	10	13	24	5	4	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	17	9	8	4	....	....	2	....	....	2	1	3	4	3	2	....	2	....	....	....	....
15	Cancer and other malignant tumors	633	321	312	51	....	1	....	....	....	1	1	3	5	23	86	103	194	124	31	2	....
16	Tumors, nonmalignant, or of which the nature is not specified	30	9	21	10	....	....	....	....	....	....	2	....	8	6	7	2	2	3	....	....	....
17	Chronic rheumatism and gout	7	3	4	1	....	....	....	....	....	....	....	....	....	1	....	1	1	2	2	....	....
18	Diabetes mellitus	156	49	107	11	....	....	....	....	....	....	....	....	2	2	7	42	51	41	11	....	....
19	Alcoholism (acute or chronic)	10	9	1	1	....	....	....	....	....	....	....	....	....	4	3	3	....	....	....	....	....
20	Other general diseases and chronic poisonings	88	39	49	10	5	1	1	....	....	7	5	12	6	10	12	17	10	7	2	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	20	19	1	4	....	....	....	....	....	....	1	1	2	3	4	4	5	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	325	153	172	37	....	....	....	....	....	....	....	1	3	8	20	57	104	90	33	3	....
23	Other diseases of the nervous system and of the organs of special sense	58	29	29	8	3	2	....	....	1	6	4	5	3	9	10	10	7	2	2	....	....
24	Diseases of the heart	1512	871	641	161	....	....	....	1	1	2	5	19	22	54	151	292	410	383	165	9	....
25	Other diseases of the circulatory system	93	53	40	7	....	....	....	....	....	....	....	....	2	5	10	10	22	29	13	2	....
26	Bronchitis	15	11	4	1	1	1	....	....	....	2	1	....	1	....	....	1	6	2	2	....	....
27	Pneumonias	257	152	105	46	30	10	1	2	1	44	2	11	11	22	38	39	42	34	13	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	34	23	11	6	4	....	....	1	....	5	2	1	2	4	6	5	5	4	....	....	....
29	Diarrhoea and enteritis	18	8	10	2	7	3	....	....	....	10	....	....	3	....	3	....	....	1	1	....	....
30	Appendicitis	66	38	28	7	....	....	3	2	1	6	3	8	5	9	9	9	7	6	3	1	....
31	Diseases of the liver and biliary passages	117	59	58	2	1	....	....	....	....	1	....	....	2	7	20	40	28	15	4	....	....
32	Other diseases of the digestive system	119	80	39	17	4	1	1	....	1	7	2	2	6	11	20	29	20	10	3	....	....
33	Nephritis	270	128	142	50	....	....	....	....	....	....	1	6	5	12	36	43	61	71	29	3	....
34	Other diseases of the genitourinary system	69	50	19	14	1	....	....	....	1	2	....	....	4	6	6	14	19	13	5	1	....
35	Puerperal septicemia	8	....	8	3	....	....	....	....	....	....	....	....	5	3	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	10	....	10	....	....	....	....	....	....	....	....	....	3	6	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	6	3	3	1	2	....	....	....	....	2	....	2	1	....	....	....	....	1	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	179	89	90	33	174	1	2	....	1	178	1	....	....	....	....	....	....	....	....	....	....
39	Senility	25	10	15	2	....	....	....	....	....	....	....	....	....	....	....	....	3	8	8	6	....
40	Suicide	69	49	20	5	....	....	....	....	....	....	....	....	3	12	15	20	14	3	2	....	....
41	Homicide	22	13	9	16	....	....	....	....	....	....	....	1	6	10	2	....	3	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	280	194	86	50	10	3	3	1	1	18	6	28	21	33	32	48	38	31	24	1	....
43	Cause of death not specified or ill-defined	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....

Estimated population, 454,500. Total resident deaths, 4,940. Rate per 1,000 population, 10.8.

TABULATION OF DEATHS IN NUTLEY TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 yea.	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	199	103	96	9	7	2	....	2	....	11	4	8	7	12	23	25	36	44	27	2	....
1	Typhoid and paratyphoid fever	1	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	11	7	4	1	....	....	....	....	....	....	1	....	3	3	2	1	1	....	....	....	....
11	Other forms of tuberculosis	2	1	1	1	....	....	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....
12	Syphilis	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	18	8	10	....	....	....	....	....	....	....	....	....	....	1	1	9	....	5	2	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	4	2	2	....	....	....	....	....	....	....	....	....	1	....	3	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	1	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	16	8	8	2	....	....	....	....	....	....	....	....	....	....	1	....	4	9	2	....	....
23	Other diseases of the nervous system and of the organs of special sense	2	2	....	....	....	....	....	....	....	....	....	1	....	....	4	4	9	17	18	15	1
24	Diseases of the heart	69	32	37	4	....	....	....	1	....	1	....	....	....	1	....	....	....	....	1	....	....
25	Other diseases of the circulatory system	4	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	....
26	Bronchitis	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
27	Pneumonias	11	5	6	1	....	1	....	....	....	1	1	....	....	....	3	1	1	2	2	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	3	2	1	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....
32	Other diseases of the digestive system	5	4	1	....	....	1	....	....	....	1	....	....	....	....	....	1	1	....	2	1	....
33	Nephritis	14	7	7	....	....	....	....	....	....	....	....	1	....	1	3	2	3	3	1	....	....
34	Other diseases of the genitourinary system	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	2	....	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	5	4	1	....	5	....	....	....	....	5	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	3	1	2	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	12	8	4	....	....	....	....	....	....	....	....	2	1	....	2	....	4	1	2	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 25,400. Total resident deaths, 199. Rate per 1,000 population, 7.8.

TABULATION OF DEATHS IN ORANGE CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	357	173	184	66	19	1	4	....	....	24	2	5	10	25	38	60	69	63	42	10	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	2	1	1	1	1	....	1	....	....	2	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	18	15	3	8	....	....	....	....	....	....	....	1	5	3	5	3	1	....	....	....	....
11	Other forms of tuberculosis	2	2	....	1	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....
12	Syphilis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	1	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	56	21	35	10	....	....	....	....	....	....	....	....	1	8	11	8	11	12	5	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	4	1	3	....	....	....	....	....	....	....	....	....	....	3	....	....	....	1	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	15	3	12	2	....	....	....	....	....	....	....	1	1	....	1	6	2	2	2	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	5	3	2	2	....	....	....	....	....	....	1	....	....	2	....	....	2	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	31	13	18	6	....	....	....	....	....	....	....	....	....	1	1	6	9	10	3	1	....
23	Other diseases of the nervous system and of the organs of special sense	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
24	Diseases of the heart	101	53	48	21	....	....	....	....	....	....	....	....	....	3	2	12	21	22	20	17	4
25	Other diseases of the circulatory system	7	4	3	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	1	2	1	....
26	Bronchitis	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....
27	Pneumonia	20	7	13	5	2	....	1	....	....	3	....	....	....	2	1	....	2	3	3	4	2	....
28	Other diseases of the respiratory system (tuberculosis excepted)	4	1	3	1	....	1	....	....	....	1	....	....	....	1	1	....	1	....	....	....	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	4	1	3	....	....	....	1	....	....	1	....	....	....	....	1	1	....	1	....	....	....	....
31	Diseases of the liver and biliary passages	8	4	4	1	....	....	....	....	....	....	....	....	....	1	....	4	....	2	1	....	....	....
32	Other diseases of the digestive system	6	3	3	1	....	....	....	....	....	....	....	....	1	....	1	....	2	1	1	....	....	....
33	Nephritis	30	15	15	2	....	....	....	....	....	....	....	....	....	1	....	2	1	2	....	....	....	....
34	Other diseases of the genitourinary system	5	5	....	1	....	....	....	....	....	....	....	....	1	....	2	3	3	5	6	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	2	1	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	15	9	6	1	15	....	....	....	....	15	....	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
40	Suicide	3	3	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	1	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	14	7	7	2	1	....	....	....	....	1	....	2	2	1	....	1	2	3	1	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 36,300. Total resident deaths, 357. Rate per 1,000 population, 9.8.

TABULATION OF DEATHS IN SOUTH ORANGE VILLAGE FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	141	62	79	8	4	....	2	....	....	6	1	2	4	4	16	17	33	35	21	2	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	5	3	2	....	....	....	....	....	....	....	....	....	1	....	3	....	1	....	....	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	27	8	19	1	....	....	....	....	....	....	....	....	1	....	2	6	10	4	3	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
19	Alcoholism (acute or chronic)	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
20	Other general diseases and chronic poisonings	4	2	2	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	2	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	12	4	8	....	....	....	....	....	....	....	....	....	....	1	3	1	4	2	1	....	....

23	Other diseases of the nervous system and of the organs of special sense	5	3	2	2	....	....	1	....	....	1	....	1	1	....	....	1	1	....	....	....	....
24	Diseases of the heart	50	22	28	....	....	....	....	....	....	....	....	....	1	....	5	2	11	19	11	1	....
25	Other diseases of the circulatory system	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	6	3	3	....	1	....	....	....	....	1	....	....	....	....	....	1	....	2	2	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	2	1	1	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....
31	Diseases of the liver and biliary passages	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
32	Other diseases of the digestive system	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
33	Nephritis	10	5	5	....	....	....	....	....	....	....	....	....	....	....	1	1	2	4	2	....	....
34	Other diseases of the genitourinary system	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	2	1	1	....	2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	5	3	2	....	....	....	....	....	....	....	....	....	....	2	....	1	....	2	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	4	1	3	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	2	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 16,400. Total resident deaths, 141. Rate per 1,000 population, 8.5.

TABULATION OF DEATHS IN WEST ORANGE TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	244	132	112	2	17	2	1		1	21	3		8	10	25	40	54	51	27	5	
1	Typhoid and paratyphoid fever	1		1										1								
2	Typhus fever																					
3	Smallpox																					
4	Measles																					
5	Scarlet fever																					
6	Whooping cough	3	2	1		2				1	3											
7	Diphtheria																					
8	Influenza	1		1														1				
9	Plague																					
10	Tuberculosis of the respiratory system	9	4	5										1	2	4	1	1				
11	Other forms of tuberculosis	2		2										1		1						
12	Syphilis	1	1													1						
13	Malaria																					
14	Other infectious and parasitic diseases																					
15	Cancer and other malignant tumors	39	19	20												3	6	15	10	5		
16	Tumors, nonmalignant, or of which the nature is not specified	1		1												1						
17	Chronic rheumatism and gout																					
18	Diabetes mellitus	6	2	4												1	1	3	1			
19	Alcoholism (acute or chronic)																					
20	Other general diseases and chronic poisonings	4	1	3								1						2	1			
21	Progressive locomotor ataxia and general paralysis of the insane																					
22	Cerebral hemorrhage, cerebral embolism and thrombosis	23	11	12											1		3	6	10	2	1	
23	Other diseases of the nervous system and of the organs of special sense																					
24	Diseases of the heart	70	50	20	1											3	7	13	16	23	13	4
25	Other diseases of the circulatory system	3	1	2															1		2	
26	Bronchitis	1	1																		1	
27	Pneumonias	14	8	6		2	2				4	1				1	2	3	1	2		
28	Other diseases of the respiratory system (tuberculosis excepted)																					
29	Diarrhoea and enteritis	1		1														1				
30	Appendicitis	3	1	2					1		1					1	1					
31	Diseases of the liver and biliary passages	4		4											2		2					
32	Other diseases of the digestive system	6	2	4											1	1	2	1	1			
33	Nephritis	9	6	3												1	3	2	3			
34	Other diseases of the genitourinary system	4	2	2	1											2	1		1			
35	Puerperal septicemia																					
36	Other diseases of pregnancy, childbirth and the puerperal state																					
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion																					
38	Congenital debility and malformations, premature birth and other diseases of early infancy	13	10	3		13					13											
39	Senility																					
40	Suicide	7	4	3											1	1	1	3	1			
41	Homicide																					
42	Violent and accidental deaths (suicide and homicide excepted)	10	7	3								1		4			2	1		2		
43	Cause of death not specified or ill-defined																					

Estimated population, 28,100. Total resident deaths, 244. Rate per 1,000 population, 8.6.

TABULATION OF DEATHS IN GLOUCESTER COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	860	446	414	85	57	....	2	....	7	66	7	20	33	41	72	112	185	193	117	14	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	....	1	....	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	1	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	2	2	....	1	1	....	1	....	....	2	1	....	....	....	....	....	....	1	....	....	....
7	Diphtheria	3	1	2	....	....	....	....	....	1	1	....	1	1	....	1	....	....	....	1	1	....
8	Influenza	7	1	6	....	2	....	....	....	....	2	....	1	1	....	1	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	3	6	7	3	5	4	2	....	....	....
10	Tuberculosis of the respiratory system	30	18	12	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
11	Other forms of tuberculosis	2	....	2	....	....	....	....	....	1	1	1	....	....	....	1	2	....	....	....	....	....
12	Syphilis	5	2	3	2	2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	5	4	1	....	1	....	....	....	2	3	....	1	1	4	8	23	32	26	9	....	....
15	Cancer and other malignant tumors	104	50	54	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	2	....	2	....	....	....	....	....	....	....	....	....	....	1	....	2	....	....	....	....	....
17	Chronic rheumatism and gout	3	....	3	....	....	....	....	....	....	....	....	....	....	....	1	4	13	9	2	....	....
18	Diabetes mellitus	29	15	14	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
19	Alcoholism (acute or chronic)	2	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	18	10	8	1	4	....	....	....	....	4	....	....	....	2	2	2	2	5	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	3	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	71	33	38	8	....	....	....	....	....	....	....	....	....	....	....	1	13	19	27	9	2	....
23	Other diseases of the nervous system and of the organs of special sense	7	4	3	....	....	....	....	....	....	....	....	1	....	1	1	....	1	2	1	....	....	....
24	Diseases of the heart	237	133	104	15	....	....	....	....	....	....	....	1	6	6	10	28	54	74	45	4	....
25	Other diseases of the circulatory system	18	8	10	1	....	....	....	....	....	....	....	....	....	....	1	1	2	3	9	2	....	....
26	Bronchitis	5	3	2	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	....	2	....	....
27	Pneumonias	65	34	31	21	17	....	1	....	1	19	1	2	1	3	7	6	12	4	7	3	....
28	Other diseases of the respiratory system (tuberculosis excepted)	6	3	3	....	1	....	....	....	....	1	1	....	1	....	....	2	1	....	....	1	....	....
29	Diarrhoea and enteritis	3	....	1	....	2	....	....	....	....	2	....	....	....	....	....	....	....	....	1	....	....	....
30	Appendicitis	7	4	3	....	....	....	....	....	1	1	....	1	....	....	....	....	1	3	1	....	....	....
31	Diseases of the liver and biliary passages	14	9	5	....	....	....	....	....	....	....	....	....	....	1	2	1	2	3	4	1	....	....
32	Other diseases of the digestive system	15	5	10	....	....	....	....	....	....	....	....	....	....	1	2	3	1	1	5	2	....	....
33	Nephritis	84	35	49	7	....	....	....	....	....	....	....	1	....	1	....	6	6	17	26	24	3	....
34	Other diseases of the genitourinary system	12	6	6	1	....	....	....	....	....	....	....	....	....	2	3	....	2	2	3	....	....	....
35	Puerperal septicemia	3	....	3	3	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	4	....	4	1	....	....	....	....	....	....	....	1	1	1	1	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	26	19	7	5	26	....	....	....	....	26	....	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	11	7	4	....	....	....	....	....	....	....	....	....	....	1	1	2	3	2	1	1	....	....
41	Homicide	5	2	3	....	....	....	....	....	....	....	....	....	....	1	1	2	1	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	49	31	18	8	1	....	....	....	....	....	....	1	8	4	5	9	7	8	3	3	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 80,700. Total resident deaths, 860. Rate per 1,000 population, 10.6.

TABULATION OF DEATHS IN HUDSON COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	6880	3746	3134	276	346	45	37	23	11	462	74	158	290	394	859	1248	1619	1262	465	49	....
1	Typhoid and paratyphoid fever	6	2	4	2	....	....	....	....	....	....	1	2	1	....	....	1	1	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	8	3	5	....	1	1	2	....	....	4	4	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	1	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	7	5	2	2	3	4	....	....	....	7	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	14	10	4	....	2	1	2	2	....	7	4	....	....	1	1	....	1	....	....	....	....
8	Influenza	28	9	19	1	2	....	1	1	....	4	....	....	4	3	4	5	3	1	3	1	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	339	221	118	42	....	....	....	....	....	....	....	19	66	64	82	47	45	14	2	....	....
11	Other forms of tuberculosis	29	14	15	3	....	3	3	....	....	6	1	2	2	5	6	3	2	2	....	....	....
12	Syphilis	49	33	16	9	3	....	....	....	....	3	....	....	3	4	13	10	14	2	....	....	....
13	Malaria	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	30	18	12	5	2	....	1	....	1	4	1	0	7	2	0	1	3	....	....	....	....
15	Cancer and other malignant tumors	864	448	416	22	....	1	1	1	....	3	2	3	6	32	134	223	263	154	44	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	43	13	30	2	....	....	....	1	....	1	1	1	2	8	18	7	3	2	....	....	....
17	Chronic rheumatism and gout	3	1	2	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....	....
18	Diabetes mellitus	208	47	161	0	....	....	....	....	....	....	....	2	....	2	16	47	80	53	8	....	....
19	Alcoholism (acute or chronic)	23	21	2	1	....	....	....	....	....	....	....	....	2	5	7	7	2	....	....	....	....
20	Other general diseases and chronic poisonings	104	38	66	2	6	....	1	2	1	10	7	12	7	10	13	14	17	14	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	12	12	....	1	....	....	....	....	....	....	....	....	....	....	1	4	6	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	482	218	264	15	1	....	....	....	....	1	....	3	1	4	33	103	156	123	53	5	....
23	Other diseases of the nervous system and of the organs of special sense	65	47	18	2	3	1	2	....	1	7	3	8	7	9	10	7	8	6	....	....	....
24	Diseases of the heart	2338	1304	1034	69	....	....	1	....	....	1	7	32	53	82	224	437	647	597	229	20	....
25	Other diseases of the circulatory system	122	58	64	6	1	....	....	....	....	1	1	....	2	3	5	11	32	28	24	5	....
26	Bronchitis	21	13	8	1	2	1	....	....	....	3	....	....	....	....	4	4	5	2	3	....	....
27	Pneumonias	425	241	184	35	66	21	13	8	3	111	7	12	18	34	46	53	68	55	19	2	....
28	Other diseases of the respiratory system (tuberculosis excepted)	38	21	17	2	2	1	1	....	....	4	2	2	3	4	5	9	6	3	....	....	....
29	Diarrhoea and enteritis	47	29	18	2	32	2	1	1	....	36	....	....	2	1	2	2	1	3	....	....	....
30	Appendicitis	74	40	34	1	....	....	2	1	2	5	3	10	11	9	16	8	9	3	....	....	....
31	Diseases of the liver and biliary passages	168	93	75	1	....	....	....	....	....	....	....	3	2	15	34	54	34	23	3	....	....
32	Other diseases of the digestive system	153	99	54	3	7	3	2	2	....	14	3	3	3	9	23	44	33	16	1	2	....
33	Nephritis	353	166	187	14	....	....	2	1	....	3	....	6	10	16	49	55	96	79	36	3	....
34	Other diseases of the genitourinary system	79	46	33	2	....	....	....	....	....	....	....	....	5	8	12	9	17	23	5	....	....
35	Puerperal septicemia	10	....	10	1	....	....	....	....	....	....	....	....	7	3	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	15	....	15	....	....	....	....	....	....	....	....	....	6	6	3	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	21	15	6	2	2	....	....	....	....	2	2	4	....	2	3	3	1	3	1	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	203	118	85	10	200	....	2	....	....	202	1	....	....	....	....	....	....	....	....	....	....
39	Senility	10	5	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	4	4	1
40	Suicide	91	75	16	....	....	....	....	....	....	....	....	1	6	16	25	26	9	8	....	....	....
41	Homicide	16	9	7	1	1	1	....	....	....	2	....	....	4	4	5	....	....	1	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	388	282	106	10	10	5	....	3	2	20	22	27	48	33	50	54	55	42	30	1	....
43	Cause of death not specified or ill-defined	2	1	1	1	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....

Estimated population, 717,000. Total resident deaths, 6,880. Rate per 1,000 population, 9.5.

TABULATION OF DEATHS IN BAYONNE CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	693	398	295	33	45	7	3	2	1	58	9	24	34	41	89	135	181	82	35	5	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	4	2	2	....	....	....	....	....	....	....	3	....	....	....	1	....	....	....	....	....	....
9	Plague	2	1	1	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....
10	Tuberculosis of the respiratory system	62	36	26	6	....	....	....	....	....	....	....	6	9	14	10	8	12	3	....	....	....
11	Other forms of tuberculosis	4	3	1	....	....	1	....	....	....	1	1	....	1	....	....	....	1	....	....	....	....
12	Syphilis	6	2	4	2	....	....	....	....	....	....	....	....	2	1	2	....	1	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	3	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	76	41	35	....	....	....	....	1	....	1	....	2	....	....	....	....	....	....	....	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	4	1	3	....	....	....	....	....	....	....	....	....	1	2	20	10	24	11	2	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	1	....	....	....
18	Diabetes mellitus	21	7	14	1	....	....	....	....	....	....	....	....	....	....	4	4	9	4	....	....	....
19	Alcoholism (acute or chronic)	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....
20	Other general diseases and chronic poisonings	18	8	10	1	1	....	....	1	1	3	1	4	....	3	1	1	2	3	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	2	2	....	1	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	54	29	25	2	....	....	....	....	....	....	....	....	....	1	3	10	24	8	8	....	....
23	Other diseases of the nervous system and of the organs of special sense	8	6	2	1	....	....	....	....	....	....	....	2	....	....	2	1	2	1	....	....	....
24	Diseases of the heart	218	130	88	8	....	....	....	....	....	....	1	4	8	6	20	32	67	38	18	4	....
25	Other diseases of the circulatory system	9	4	5	1	....	....	....	....	....	....	....	....	....	....	1	1	2	2	3	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	38	25	13	3	6	2	1	....	....	9	1	2	1	3	4	10	6	2	....	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	6	2	4	....	1	1	1	....	....	3	....	....	....	1	1	1	....	....	....	....	....
29	Diarrhœa and enteritis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
30	Appendicitis	4	2	2	....	....	....	....	....	....	....	....	....	2	....	1	....	1	....	....	....	....
31	Diseases of the liver and biliary passages	18	11	7	....	....	....	....	....	....	....	....	1	1	1	1	7	4	....	....	....	....
32	Other diseases of the digestive system	9	7	2	1	2	2	....	....	....	4	....	....	1	1	1	1	1	1	....	....	....
33	Nephritis	37	18	19	4	....	....	....	1	....	1	....	....	3	....	4	8	15	5	....	1	....
34	Other diseases of the genitourinary system	6	3	3	....	....	....	....	....	....	....	....	....	1	....	1	....	2	1	1	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	4	....	4	....	....	....	....	....	....	....	....	....	3	1	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	6	4	2	1	1	....	....	....	....	1	1	1	....	....	....	2	1	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	30	19	11	1	30	....	....	....	....	30	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	9	8	1	....	....	....	....	....	....	....	....	....	....	3	3	2	1	....	....	....	....
41	Homicide	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	30	21	9	....	3	1	....	....	....	4	1	2	1	4	4	7	3	1	3	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 94,300 — Total resident deaths, 698. — Rate per 1,000 population, 7.3.

TABULATION OF DEATHS IN HARRISON TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	158	84	74	1	7	1	1	....	....	9	2	3	9	4	22	25	40	36	8	....	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	2	2	....	....	1	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	4	4	....	....	....	....	....	....	....	....	....	....	....	....	....	3	1	....	....	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	16	10	6	1	....	....	....	....	....	....	....	....	....	....	4	4	5	3	....	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	7	....	7	....	....	....	....	....	....	....	....	....	....	....	....	....	1	5	1	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	4	1	3	....	1	....	....	....	....	1	....	1	....	1	....	....	1	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	12	4	8	....	....	....	....	....	....	....	....	....	1	1	3	2	2	3	....	....	....
23	Other diseases of the nervous system and of the organs of special sense	1	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....
24	Diseases of the heart	51	30	21	....	....	....	....	....	....	....	....	....	3	2	5	10	19	9	3	....	....
25	Other diseases of the circulatory system	2	2	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	12	5	7	....	....	....	....	....	....	....	....	....	....	....	2	2	3	4	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	4	3	1	....	3	....	....	....	....	3	....	....	....	....	....	....	1	....	....	....	....
30	Appendicitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	4	1	3	....	....	....	....	....	....	....	....	....	....	....	1	....	....	3	....	....	....
32	Other diseases of the digestive system	6	4	2	....	....	....	....	....	....	....	1	....	....	....	1	2	1	1	....	....	....
33	Nephritis	16	8	8	....	....	....	....	....	....	....	....	1	....	....	1	2	4	7	1	....	....
34	Other diseases of the genitourinary system	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	2	1	1	....	2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
41	Homicide	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
43	Cause of death not specified or ill-defined	12	8	4	....	....	....	....	....	....	....	1	1	3	....	1	1	2	1	2	....	....

Estimated population, 15,601. Total resident deaths, 158. Rate per 1,000 population, 10.1.

TABULATION OF DEATHS IN HOBOKEN CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	607	356	251	8	30	4	3	2	2	41	4	12	28	39	80	100	150	116	36	1	
1	Typhoid and paratyphoid fever																					
2	Typhus fever																					
3	Smallpox																					
4	Measles																					
5	Scarlet fever	1	1							1	1											
6	Whooping cough	1	1				1				1											
7	Diphtheria	1	1															1				
8	Influenza	1		1													1					
9	Plague																					
10	Tuberculosis of the respiratory system	35	22	13	3								2	7	7	7	9	3				
11	Other forms of tuberculosis	2	1	1			1	1			2			1	2	1	2	1				
12	Syphilis	7	6	1												2						
13	Malaria																					
14	Other infectious and parasitic diseases																					
15	Cancer and other malignant tumors	67	38	29											3	7	12	31	10	4		
16	Tumors, nonmalignant, or of which the nature is not specified	2	1	1												2						
17	Chronic rheumatism and gout																					
18	Diabetes mellitus	16	5	11												3	4	5	4			
19	Alcoholism (acute or chronic)	4	4														3	1				
20	Other general diseases and chronic poisonings	9	6	3								1				2	1	2	3			
21	Progressive locomotor ataxia and general paralysis of the insane	1	1													1						
22	Cerebral hemorrhage, cerebral embolism and thrombosis	29	15	14												1	6	9	10	3		
23	Other diseases of the nervous system and of the organs of special sense	6	5	1		1					1			1	3		1					
24	Diseases of the heart	210	111	99	1								2	6	5	25	34	63	55	20		
25	Other diseases of the circulatory system	15	8	7	2											1	2	7	3	2		
26	Bronchitis	2	1	1													1		1			
27	Pneumonias	50	27	23	1	6	1	2	2	1	12	1	2	1	4	4	1	11	11	2	1	
28	Other diseases of the respiratory system (tuberculosis excepted)	3	3											1	1		1					
29	Diarrhoea and enteritis	6	3	3		5					5								1			
30	Appendicitis	6	2	4									2	1	1	1		1				
31	Diseases of the liver and biliary passages	16	12	4											2	4	3	4	3			
32	Other diseases of the digestive system	15	13	2			1				1		1	1	2	4	3		3			
33	Nephritis	25	11	14									1		1	7	6	5	3	2		
34	Other diseases of the genitourinary system	3	3														1		2			
35	Puerperal septicemia	1		1												1						
36	Other diseases of pregnancy, childbirth and the puerperal state	3		3											2	1						
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	2	1	1									1						1			
38	Congenital debility and malformations, premature birth and other diseases of early infancy	16	10	6		16					16											
39	Senility	2	1	1														1	1			
40	Suicide	12	11	1										3		4	3		2			
41	Homicide	2	2												1				1			
42	Violent and accidental deaths (suicide and homicide excepted)	35	29	6	1	2					2	2	1	6	4	4	6	5	3	2		
43	Cause of death not specified or ill-defined	1	1													1						

Estimated population, 59,261. Total resident deaths, 607. Rate per 1,000 population, 10.2.

TABULATION OF DEATHS IN JERSEY CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	3431	1821	1610	219	179	21	27	13	6	246	38	81	151	201	437	648	780	600	220	29	....
1	Typhoid and paratyphoid fever	5	1	4	2	....	....	....	....	....	....	1	2	1	....	....	....	1	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	5	3	2	....	....	1	2	....	....	3	2	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	4	2	2	2	2	2	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	7	5	2	....	2	....	1	2	....	5	1	....	....	1	....	....	....	....	....	....	....
8	Influenza	15	6	9	1	2	....	1	....	....	3	....	....	2	1	2	3	2	....	2	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	173	113	60	33	....	....	....	....	....	....	....	10	36	31	53	15	23	5	....	....	....
11	Other forms of tuberculosis	18	9	9	3	....	1	2	....	....	3	....	1	1	3	6	2	1	1	....	....	....
12	Syphilis	23	14	9	6	3	....	....	....	....	3	....	....	....	....	6	5	8	1	....	....	....
13	Malaria	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	21	12	9	5	1	....	....	....	1	2	1	3	7	1	5	....	2	....	....	....	....
15	Cancer and other malignant tumors	435	201	234	20	....	1	1	1	....	3	1	3	4	14	60	122	127	78	23	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	23	9	16	1	....	....	....	....	....	....	1	1	1	6	9	4	2	1	....	....	....
17	Chronic rheumatism and gout	3	1	2	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....	....
18	Diabetes mellitus	101	25	76	4	....	....	....	....	....	....	....	....	....	2	6	23	37	27	6	....	....
19	Alcoholism (acute or chronic)	14	13	1	1	....	....	....	....	....	....	....	....	1	5	5	2	1	....	....	....	....
20	Other general diseases and chronic poisonings	45	15	30	1	1	....	1	1	....	3	3	3	5	4	6	8	9	4	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	233	99	134	13	....	....	....	....	....	....	....	2	....	2	16	62	72	55	20	4	....
23	Other diseases of the nervous system and of the organs of special sense	32	23	9	1	2	....	1	....	....	3	3	5	3	4	7	2	2	3	....	....	....
24	Diseases of the heart	1181	633	548	56	....	....	1	....	....	1	4	20	21	48	113	238	318	290	100	19	....
25	Other diseases of the circulatory system	63	31	32	2	....	....	....	....	....	....	1	....	2	3	2	5	16	16	15	3	....
26	Bronchitis	9	6	3	1	....	....	....	....	....	....	....	....	....	....	2	2	2	1	2	....	....
27	Pneumonias	220	123	97	29	37	12	8	4	2	63	3	6	12	20	24	27	30	25	9	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	15	9	6	2	1	....	....	....	....	1	1	1	1	....	2	5	2	2	....	....	....
29	Diarrhoea and enteritis	23	14	9	2	15	2	1	1	....	19	....	....	1	....	1	2	....	....	....	....	....
30	Appendicitis	41	21	20	1	....	....	2	1	2	5	2	5	6	7	7	6	1	2	....	....	....
31	Diseases of the liver and biliary passages	76	43	33	1	....	....	....	....	....	....	....	2	1	9	17	21	14	8	1	....	....
32	Other diseases of the digestive system	75	47	28	2	2	....	2	1	....	5	2	1	1	2	11	27	10	9	....	1	....
33	Nephritis	150	68	82	9	....	....	2	....	....	2	....	1	5	7	23	21	44	32	14	1	....
34	Other diseases of the genitourinary system	38	25	13	1	....	....	....	....	....	....	....	....	1	5	6	3	10	11	2	....	....
35	Puerperal septicemia	5	....	5	....	....	....	....	....	....	....	....	....	5	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	6	....	6	....	....	....	....	....	....	....	....	....	2	2	2	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	9	6	3	1	1	....	....	....	....	1	1	1	....	1	3	1	....	1	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	110	65	45	8	107	....	2	....	....	109	1	....	....	....	....	....	....	....	....	....	....
39	Senility	3	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....
40	Suicide	34	28	6	....	....	....	....	....	....	....	....	1	1	6	7	13	5	1	....	....	....
41	Homicide	6	4	2	1	1	....	....	....	....	1	....	....	2	1	2	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	204	144	60	9	2	2	....	2	1	7	10	13	27	16	32	26	32	25	10	....	....
43	Cause of death not specified or ill-defined	1	....	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....

Estimated population, 324,800. Total resident deaths, 3,431. Rate per 1,000 population, 10.5.

TABULATION OF DEATHS IN KEARNY TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	373	200	173	4	12	2	....	1	....	15	3	7	18	16	46	66	100	73	27	2	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	1	1	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	2	....	2	....	....	....	....	1	....	1	....	....	....	....	....	1	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	10	7	3	....	....	....	....	....	....	....	....	....	4	1	2	3	....	....	....	....	....
11	Other forms of tuberculosis	1	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
12	Syphilis	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	2	....	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
15	Cancer and other malignant tumors	62	32	30	....	....	....	....	....	....	....	....	....	....	2	12	15	20	12	1	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	2	1	1	1	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	12	2	10	1	....	....	....	....	....	....	....	1	....	....	....	2	5	4	....	....	....
19	Alcoholism (acute or chronic)	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	25	8	17	....	....	....	....	....	....	....	....	....	....	....	4	4	9	5	3	....	....
23	Other diseases of the nervous system and of the organs of special sense	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....
24	Diseases of the heart	127	77	50	1	....	....	....	....	....	....	....	1	1	4	4	9	22	38	34	14	....
25	Other diseases of the circulatory system	3	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1
26	Bronchitis	4	1	3	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	1	....	....
27	Pneumonias	17	11	6	1	3	1	....	....	....	4	....	....	2	1	1	....	6	3	....	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	3	1	2	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	4	2	2	....	....	....	....	....	....	....	....	1	1	....	1	....	1	....	....	....	....
31	Diseases of the liver and biliary passages	8	4	4	....	....	....	....	....	....	....	....	....	....	3	1	2	3	....	....	....	....
32	Other diseases of the digestive system	13	8	5	....	1	....	....	....	....	1	1	1	....	....	2	3	3	....	....	....	....
33	Nephritis	35	14	21	....	....	....	....	....	....	....	....	1	....	1	5	6	10	8	3	1	....
34	Other diseases of the genitourinary system	5	1	4	....	....	....	....	....	....	....	....	....	1	....	2	....	....	1	1	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	8	6	2	....	8	....	....	....	....	8	....	....	....	....	....	....	....	....	1	....	....
39	Senility	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	6	6	....	....	....	....	....	....	....	....	....	....	....	....	1	2	1	....	2	1	....
41	Homicide	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	14	10	4	....	....	....	....	....	....	....	1	2	4	1	....	3	....	1	2	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 46,800. Total resident deaths, 373. Rate per 1,000 population, 7.9.

TABULATION OF DEATHS IN UNION CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	599	324	275	1	21	3	1	1	2	31	5	7	16	28	70	85	152	139	59	7	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	15	10	5	....	....	....	....	....	....	....	....	....	1	6	2	2	2	2	....	....	....
11	Other forms of tuberculosis	2	....	2	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....
12	Syphilis	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	71	35	36	....	....	....	....	....	....	....	....	....	....	3	16	16	20	11	5	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	7	1	6	....	....	....	....	1	....	1	....	....	1	1	3	1	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	17	2	15	....	....	....	....	....	....	....	....	....	....	....	1	4	7	4	1	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	7	2	5	....	....	....	....	....	....	....	1	1	1	....	1	....	2	1	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	3	3	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	55	23	32	....	....	....	....	....	....	....	....	....	....	....	2	5	10	16	12	1	....
23	Other diseases of the nervous system and of the organs of special sense	9	7	2	....	....	....	....	....	1	1	....	1	2	1	1	1	2	....	....	....	....
24	Diseases of the heart	218	124	94	....	....	....	....	....	....	....	....	1	3	5	22	25	61	70	28	3	....
25	Other diseases of the circulatory system	8	5	3	....	1	....	....	....	....	1	....	....	....	....	....	....	1	2	2	2	....
26	Bronchitis	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
27	Pneumonias	25	15	10	....	3	3	1	....	....	7	....	....	....	2	1	5	7	3	....	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	5	2	3	....	....	....	....	....	....	....	1	....	....	....	....	1	2	1	....	....	....
29	Diarrhoea and enteritis	5	4	1	....	4	....	....	....	....	4	....	....	....	....	1	....	....	....	....	....	....
30	Appendicitis	7	5	2	....	....	....	....	....	....	....	....	1	1	1	2	1	1	....	....	....	....
31	Diseases of the liver and biliary passages	17	9	8	....	....	....	....	....	....	....	....	....	....	1	....	5	4	6	1	....	....
32	Other diseases of the digestive system	15	8	7	....	2	....	....	....	....	2	....	....	1	....	1	3	7	....	....	1	....
33	Nephritis	41	23	18	1	....	....	....	....	....	....	....	....	2	4	5	6	7	11	6	....	....
34	Other diseases of the genitourinary system	6	2	4	....	....	....	....	....	....	....	....	....	....	1	....	2	....	3	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	14	6	8	....	14	....	....	....	....	14	....	....	....	....	....	....	....	....	....	....	....
39	Senility	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....
40	Suicide	12	11	1	....	....	....	....	....	....	....	....	....	1	....	4	1	3	3	....	....	....
41	Homicide	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	29	21	8	....	....	....	....	....	....	....	1	1	2	3	2	1	5	2	4	5	3	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 58,659. Total resident deaths, 599. Rate per 1,000 population, 10.2.

TABULATION OF DEATHS IN WEST NEW YORK TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	331	184	147	3	18		1	3		22	3	12	11	31	41	57	58	73	21	2	
1	Typhoid and paratyphoid fever	1	1														1					
2	Typhus fever																					
3	Smallpox																					
4	Measles																					
5	Scarlet fever																					
6	Whooping cough																					
7	Diphtheria	1	1					1			1											
8	Influenza	4	2	2										1	2						1	
9	Plague																					
10	Tuberculosis of the respiratory system	16	12	4									1	4	3	2	1	1	4			
11	Other forms of tuberculosis	1		1									1									
12	Syphilis	2	2													1		1				
13	Malaria																					
14	Other infectious and parasitic diseases	3	2	1		1					1		1						1			
15	Cancer and other malignant tumors	42	21	21											5	3	13	5	13	3		
16	Tumors, nonmalignant, or of which the nature is not specified																					
17	Chronic rheumatism and gout																					
18	Diabetes mellitus	11	3	8													3	5	3			
19	Alcoholism (acute or chronic)	1	1													1						
20	Other general diseases and chronic poisonings	11	3	8									1	1	1	3	3		2			
21	Progressive locomotor ataxia and general paralysis of the insane																					
22	Cerebral hemorrhage, cerebral embolism and thrombosis	26	15	11													4	8	11	3		
23	Other diseases of the nervous system and of the organs of special sense	2	2												1				1			
24	Diseases of the heart	96	59	37	1								3	1	8	16	18	20	25	4	1	
25	Other diseases of the circulatory system	6	4	2	1												1	1	3	1		
26	Bronchitis	1	1			1					1											
27	Pneumonia	28	11	17	1	6			1		7	2	1	1	1	5	2	3	2	4		
28	Other diseases of the respiratory system (tuberculosis excepted)	3	1	2									1					2				
29	Diarrhoea and enteritis	4	2	2		3					3				1							
30	Appendicitis	2		2									1				1					
31	Diseases of the liver and biliary passages	8	3	5											1	1	2	3		1		
32	Other diseases of the digestive system	9	6	3					1		1				1	3	2		2			
33	Nephritis	14	5	9												1	2	3	4	4		
34	Other diseases of the genitourinary system	9	5	4											2	1	1	3	2	1		
35	Puerperal septicemia	1		1											1							
36	Other diseases of pregnancy, childbirth and the puerperal state																					
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	2	2												1				1			
38	Congenital debility and malformations, premature birth and other diseases of early infancy	6	4	2		6					6											
39	Senility	1	1																1			
40	Suicide	5	3	2											2	1	2					
41	Homicide																					
42	Violent and accidental deaths (suicide and homicide excepted)	15	12	3		1			1		2	1	2	3	1	3		2	1			
43	Cause of death not specified or ill-defined																					

Estimated population, 40,200. Total resident deaths, 331. Rate per 1,000 population, 8.2.

TABULATION OF DEATHS IN HUNTERDON COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	487	260	227	8	27	3	....	1	1	32	3	1	12	25	31	54	87	135	91	10	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	2	1	1	....	2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	14	8	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
11	Other forms of tuberculosis	2	....	2	....	....	....	....	....	....	....	....	....	2	5	2	2	2	1	....	....	....
12	Syphilis	3	3	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	2	....	....	....	....
14	Other infectious and parasitic diseases	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	69	32	37	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	2	1	1	....	....	....	....	....	....	....	....	....	1	3	3	8	18	25	10	1	....
17	Chronic rheumatism and gout	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....
18	Diabetes mellitus	16	7	9	....	....	1	....	....	....	1	....	....	....	....	1	2	5	6	1	....	....
19	Alcoholism (acute or chronic)	3	3	....	....	....	....	....	....	....	....	....	....	....	1	....	2	....	....	....	....	....
20	Other general diseases and chronic poisonings	7	5	2	....	....	1	....	....	....	1	....	....	....	2	2	....	1	....	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	3	3	....	1	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	44	20	24	....	....	....	....	....	....	....	....	....	....	....	1	3	12	16	9	3	....
23	Other diseases of the nervous system and of the organs of special sense	3	3	....	....	....	....	....	....	....	....	....	....	....	1	....	....	2	....	....	....	....
24	Diseases of the heart	137	71	66	1	....	....	....	....	....	....	1	1	....	3	6	19	25	46	31	5	....
25	Other diseases of the circulatory system	10	10	0	1	....	....	....	....	....	....	....	....	....	....	1	1	....	4	8	2	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	33	17	16	1	6	1	....	....	....	7	....	....	....	....	1	2	5	6	10	2	....
28	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	2	1	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....
30	Appendicitis	3	2	1	....	....	....	....	....	1	1	....	....	1	....	....	1	....	....	....	....	....
31	Diseases of the liver and biliary passages	5	3	2	....	....	....	....	....	....	....	....	....	1	....	....	....	2	2	....	....	....
32	Other diseases of the digestive system	15	10	5	....	1	....	....	1	....	2	1	....	1	2	3	2	....	4	....	....	....
33	Nephritis	33	19	14	....	....	....	....	....	....	....	....	....	....	....	2	6	7	11	5	2	....
34	Other diseases of the genitourinary system	5	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	2	1	....	....
35	Puerperal septicemia	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	17	7	10	3	17	....	....	....	....	17	....	....	....	....	....	....	....	....	....	....	....
39	Senility	7	1	6	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	7	....	....
40	Suicide	16	14	2	....	....	....	....	....	....	....	....	....	1	1	4	4	1	4	1	....	....
41	Homicide	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	24	12	12	....	....	....	....	....	....	....	....	....	3	6	2	1	1	6	5	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 35,500. Total resident deaths, 487. Rate per 1,000 population, 13.7.

TABULATION OF DEATHS IN MERCER COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	1984	1076	914	183	113	16	7	6	3	145	17	44	78	93	171	310	479	436	189	22	....
1	Typhoid and paratyphoid fever	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	1	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	2	1	1	....	....	....	....	2	....	2	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	2	....	2	....	....	1	....	....	1	2	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
9	Plague	12	9	3	1	....	....	....	....	....	....	2	1	1	1	....	1	4	1	1	....	....
10	Tuberculosis of the respiratory system	76	46	30	14	....	....	....	....	....	....	....	6	15	9	10	16	11	8	1	....	....
11	Other forms of tuberculosis	7	4	3	2	1	1	....	....	....	2	1	2	1	....	....	....	....	1	....	....	....
12	Syphilis	17	13	4	10	1	....	....	....	....	1	....	....	1	4	2	4	5	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	5	4	1	....	2	....	....	....	....	2	....	....	....	....	1	1	1	....	....	....	....
15	Cancer and other malignant tumors	254	126	128	12	....	....	....	....	....	....	....	1	4	12	30	48	83	53	13	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	8	4	4	1	....	....	....	....	....	....	....	....	1	....	2	1	3	....	1	....	....
17	Chronic rheumatism and gout	3	....	3	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....
18	Diabetes mellitus	55	21	34	1	....	....	....	....	....	....	....	....	1	1	1	10	27	13	2	....	....
19	Alcoholism (acute or chronic)	4	3	1	....	....	....	....	....	....	....	....	....	....	1	2	1	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	31	15	16	3	5	1	....	....	....	6	....	1	3	2	3	2	7	4	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	6	4	2	....	....	....	....	....	....	....	....	....	....	1	1	1	2	....	1	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	146	61	85	10	....	....	....	....	....	....	....	....	1	4	6	26	33	51	20	5	....
23	Other diseases of the nervous system and of the organs of special sense	20	13	7	2	....	....	....	....	....	....	1	2	2	3	2	4	3	3	....	....	....
24	Diseases of the heart	626	349	277	41	....	....	....	....	....	....	....	9	11	15	46	102	166	182	80	9	....
25	Other diseases of the circulatory system	50	38	12	6	1	....	....	....	....	1	....	....	....	....	2	5	9	18	13	2	....
26	Bronchitis	6	2	4	....	....	....	....	....	....	....	....	....	....	....	....	2	1	3	....	....	....	....
27	Pneumonias	135	79	56	22	30	9	5	1	1	46	5	1	4	8	9	18	28	11	4	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	16	8	8	3	....	....	....	....	....	....	1	....	2	1	2	2	3	4	1	....	....
29	Diarrhoea and enteritis	12	8	4	2	8	1	....	1	....	10	....	1	....	....	....	....	1	....	....	....	....
30	Appendicitis	16	7	9	4	....	....	....	....	....	....	1	1	4	....	2	3	5	....	....	....	....
31	Diseases of the liver and biliary passages	30	16	14	....	....	....	....	....	....	....	....	....	....	1	6	8	9	6	....	....	....
32	Other diseases of the digestive system	46	26	20	5	3	1	....	....	....	4	1	....	2	1	7	12	12	4	3	....	....
33	Nephritis	152	66	86	13	....	....	....	....	....	....	1	3	2	3	12	17	42	45	26	1	....
34	Other diseases of the genitourinary system	29	21	8	2	1	....	....	....	....	1	....	1	2	3	2	2	7	9	2	....	....
35	Puerperal septicemia	6	....	6	1	....	....	....	....	....	....	....	....	4	2	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	8	....	8	1	....	....	....	....	....	....	....	....	2	5	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	6	3	3	....	....	....	....	....	....	....	....	1	....	1	....	....	1	2	1	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	61	30	31	12	61	....	....	....	....	61	....	....	....	....	....	....	....	....	....	....	....
39	Senility	2	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....
40	Suicide	22	15	7	1	....	....	....	....	....	....	....	....	3	6	1	7	1	3	1	....	....
41	Homicide	4	2	2	2	....	....	....	....	....	....	1	2	....	....	1	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	105	72	33	11	....	1	2	2	1	6	4	10	9	9	12	14	14	14	11	2	....
43	Cause of death not specified or ill-defined	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....

Estimated population, 199,000. Total resident deaths, 1,984. Rate per 1,000 population, 9.9.

TABULATION OF DEATHS IN TRENTON CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	1298	701	597	126	74	9	2	4	2	91	9	31	48	50	117	215	339	277	102	13	....
1	Typhoid and paratyphoid fever	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	1	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	1	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	....	1	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
8	Influenza	8	5	3	1	....	....	....	....	....	....	1	1	1	1	....	1	2	1	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	60	36	24	11	....	....	....	....	....	....	....	6	12	5	8	13	9	6	1	....	....
11	Other forms of tuberculosis	5	3	2	2	....	....	....	....	....	....	1	2	1	....	....	....	....	1	....	....	....
12	Syphilis	13	11	2	7	1	....	....	....	....	1	....	....	....	3	2	3	4	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	5	4	1	....	2	....	....	....	....	2	....	....	....	....	1	1	1	....	....	....	....
15	Cancer and other malignant tumors	154	75	79	8	....	....	....	....	....	....	....	1	2	6	24	35	52	27	7	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	6	3	3	1	....	....	....	....	....	....	....	....	1	....	2	1	2	....	....	....	....
17	Chronic rheumatism and gout	3	....	3	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....
18	Diabetes mellitus	40	16	24	....	....	....	....	....	....	....	....	....	1	1	1	7	19	11	....	....	....
19	Alcoholism (acute or chronic)	3	2	1	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....
20	Other general diseases and chronic poisonings	20	7	13	2	2	1	....	....	....	3	....	1	1	1	2	2	7	3	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	4	2	2	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	1	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	84	34	50	6	....	....	....	....	....	....	....	....	1	1	5	14	22	30	9	2	....
23	Other diseases of the nervous system and of the organs of special sense	12	8	4	1	....	....	....	....	....	....	....	1	1	3	....	2	3	2	....	....	....
24	Diseases of the heart	421	230	191	28	....	....	....	....	....	....	....	7	5	9	34	73	117	123	47	6	....
25	Other diseases of the circulatory system	28	21	7	6	1	....	....	....	....	1	....	....	....	....	....	3	5	9	8	2	....
26	Bronchitis	3	1	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....
27	Pneumonia	86	52	34	12	20	4	2	1	....	27	3	1	2	6	5	12	19	7	3	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	9	5	4	2	....	....	....	....	....	....	1	....	1	....	1	1	3	2	....	....	....
29	Diarrhoea and enteritis	8	6	2	2	5	1	....	1	....	7	....	1	....	....	....	....	....	....	....	....	....
30	Appendicitis	12	3	9	4	....	....	....	....	....	....	1	....	3	....	2	3	3	....	....	....	....
31	Diseases of the liver and biliary passages	23	15	8	....	....	....	....	....	....	....	....	....	....	....	4	7	7	5	....	....	....
32	Other diseases of the digestive system	28	18	10	2	3	1	....	....	....	4	1	....	....	1	3	6	9	2	2	....	....
33	Nephritis	103	46	57	7	....	....	....	....	....	....	....	2	2	3	8	11	34	28	14	1	....
34	Other diseases of the genitourinary system	20	14	6	2	....	....	....	....	....	....	....	....	2	2	2	2	6	5	1	....	....	....
35	Puerperal septicemia	4	....	4	....	....	....	....	....	....	....	....	....	3	1	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	3	....	3	1	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	3	2	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	2	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	40	22	18	11	40	....	....	....	....	40	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
40	Suicide	17	11	6	1	....	....	....	....	....	....	....	....	1	6	1	5	....	3	1	....	....
41	Homicide	4	2	2	2	....	....	....	....	....	....	....	1	2	....	1	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	62	43	19	6	....	1	....	1	1	3	1	7	4	4	8	7	12	8	7	1	....
43	Cause of death not specified or ill-defined	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....

Estimated population, 125,100. Total resident deaths, 1,298. Rate per 1,000 population, 10.3.

TABULATION OF DEATHS IN MIDDLESEX COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 yrs.	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	2026	1127	899	72	125	4	9	6	8	152	25	51	95	112	214	384	457	343	170	17	....
1	Typhoid and paratyphoid fever	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	....
2	Typhus fever	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
3	Smallpox	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
4	Measles	2	.....	2	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
5	Scarlet fever	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	....
6	Whooping cough	1	1	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
7	Diphtheria	2	1	1	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
8	Influenza	7	3	4	.....	1	.....	1	.....	.....	2	.....	.....	.....	1	.....	.....	1	.....	3	.....	....
9	Plague	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
10	Tuberculosis of the respiratory system	73	41	32	5	.....	.....	.....	.....	.....	.....	.....	4	15	12	11	19	6	4	2	.....	....
11	Other forms of tuberculosis	8	4	4	1	.....	.....	.....	.....	.....	.....	1	2	2	1	1	1	.....	.....	.....	.....	....
12	Syphilis	19	17	2	11	.....	.....	.....	.....	.....	.....	.....	.....	2	2	5	3	5	2	.....	.....	....
13	Malaria	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
14	Other infectious and parasitic diseases	18	9	9	1	2	.....	.....	2	.....	4	1	2	2	3	1	2	3	.....	.....	.....	....
15	Cancer and other malignant tumors	286	165	121	4	.....	.....	.....	.....	.....	.....	.....	1	3	14	34	77	89	47	19	2	....
16	Tumors, nonmalignant, or of which the nature is not specified	11	3	8	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	1	4	.....	4	.....	.....	.....	....
17	Chronic rheumatism and gout	4	.....	4	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	1	.....	.....	....
18	Diabetes mellitus	68	22	46	1	.....	.....	.....	.....	.....	.....	1	1	1	.....	12	14	24	13	2	.....	....
19	Alcoholism (acute or chronic)	3	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	....
20	Other general diseases and chronic poisonings	33	18	15	.....	2	.....	.....	.....	.....	2	2	4	3	1	8	4	7	2	.....	.....	....
21	Progressive locomotor ataxia and general paralysis of the insane	9	7	2	1	.....	.....	.....	.....	.....	.....	.....	.....	1	1	2	2	1	2	.....	.....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	172	77	95	4	.....	.....	.....	.....	.....	.....	.....	.....	1	3	13	24	55	53	19	4	....
23	Other diseases of the nervous system and of the organs of special sense	30	20	10	1	3	....	2	1	....	6	4	2	2	3	2	3	3	5	.....	.....	.....
24	Diseases of the heart	579	324	255	15	.....	.....	.....	1	1	2	2	7	12	17	48	118	155	140	73	5	....
25	Other diseases of the circulatory system	38	17	21	2	.....	.....	.....	.....	.....	.....	.....	.....	2	1	4	8	4	10	8	1	....
26	Bronchitis	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2	.....	2	.....	.....
27	Pneumonias	92	54	38	10	19	2	3	....	2	26	.....	7	6	3	5	16	8	12	7	2	....
28	Other diseases of the respiratory system (tuberculosis excepted)	14	8	6	1	.....	.....	.....	.....	.....	.....	.....	1	.....	3	4	1	3	1	1	.....	.....
29	Diarrhoea and enteritis	11	5	6	1	7	.....	.....	.....	.....	7	.....	1	1	1	1	.....	.....	.....	.....	.....	.....
30	Appendicitis	11	8	3	1	.....	1	.....	.....	.....	1	1	.....	2	2	.....	3	1	1	.....	.....	.....
31	Diseases of the liver and biliary passages	36	16	20	1	.....	.....	.....	.....	.....	.....	1	1	.....	2	8	9	7	6	2	.....	.....
32	Other diseases of the digestive system	36	29	7	.....	1	.....	.....	.....	.....	1	3	1	2	5	8	5	6	2	3	.....	.....
33	Nephritis	133	66	67	4	.....	.....	.....	.....	1	1	.....	1	3	5	11	31	35	26	20	.....	.....
34	Other diseases of the genitourinary system	26	15	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	2	0	2	5	5	3	.....	.....
35	Puerperal septicemia	5	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	2	.....	.....	.....	.....	.....	.....	.....
36	Other diseases of pregnancy, childbirth and the puerperal state	8	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	3	.....	.....	.....	.....	.....	.....	.....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	3	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	90	46	44	1	88	1	....	1	.....	90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
39	Senility	6	4	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	5	.....	.....
40	Suicide	33	29	4	1	.....	.....	.....	.....	.....	.....	.....	.....	4	4	8	10	6	1	.....	.....	.....
41	Homicide	11	6	5	2	.....	.....	.....	.....	.....	.....	.....	1	4	4	1	.....	1	.....	.....	.....	.....
42	Violent and accidental deaths (suicide and homicide excepted)	139	103	36	3	1	....	3	1	2	7	7	13	14	15	16	25	23	9	7	3	....
43	Cause of death not specified or ill-defined	2	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....

Estimated population, 234,000. Total resident deaths, 2,026. Rate per 1,000 population, 8.6.

TABULATION OF DEATHS IN NEW BRUNSWICK CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	392	212	180	20	21	....	....	2	1	24	6	8	21	21	40	66	92	75	35	4	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	14	6	8	4	....	....	....	....	....	....	....	1	4	3	2	4	....	....	....	....	....
11	Other forms of tuberculosis	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
12	Syphilis	8	8	....	4	....	....	....	....	....	....	....	....	1	1	1	3	1	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	5	1	4	....	....	....	....	....	1	1	....	1	1	1	....	....	1	....	....	....	....
15	Cancer and other malignant tumors	53	33	20	....	....	....	....	....	....	....	....	....	1	....	8	10	22	5	6	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
18	Diabetes mellitus	14	7	7	....	....	....	....	....	....	....	1	1	....	....	3	1	4	3	1	....	....
19	Alcoholism (acute or chronic)	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
20	Other general diseases and chronic poisonings	8	2	6	....	....	....	....	....	....	....	....	....	1	....	3	3	1	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	3	2	1	....	....	....	....	....	....	....	....	....	1	....	....	1	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	34	14	20	2	....	....	....	....	....	....	....	....	....	2	3	3	6	18	2	....	....
23	Other diseases of the nervous system and of the organs of special sense	6	1	5	....	1	....	....	....	....	1	1	....	1	1	....	....	1	1	....	....	....
24	Diseases of the heart	125	68	57	9	....	....	....	1	....	1	1	1	3	3	13	26	34	28	15	....	....
25	Other diseases of the circulatory system	3	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....
26	Bronchitis	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....
27	Pneumonias	20	8	12	4	2	....	....	....	1	3	....	....	....	2	....	4	4	4	2	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
29	Diarrhoea and enteritis	2	1	1	....	2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	2	1	1	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	10	6	4	....	....	....	....	....	....	....	....	1	....	1	2	1	2	2	1	....	....
32	Other diseases of the digestive system	7	5	2	....	....	....	....	....	....	....	....	....	....	....	....	....	4	1	2	....	....
33	Nephritis	21	13	8	2	....	....	....	....	....	....	....	....	....	....	2	2	4	8	5	....	....
34	Other diseases of the genitourinary system	9	3	6	....	....	....	....	....	....	....	....	....	2	2	2	....	3	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	16	11	5	1	16	....	....	....	....	16	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	8	7	1	....	....	....	....	....	....	....	....	....	1	1	....	4	1	1	....	....	....
41	Homicide	3	1	2	1	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	11	9	2	1	....	....	....	....	....	....	1	3	....	3	....	2	....	1	....	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 35,300. Total resident deaths, 392. Rate per 1,000 population, 11.1.

TABULATION OF DEATHS IN PERTH AMBOY CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	381	222	159	8	26	1	....	2	....	29	3	9	18	27	50	78	104	43	20	....	....
1	Typhoid and paratyphoid fever	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	2	1	1	....	1	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	14	8	6	....	....	....	....	....	....	....	....	1	1	2	2	4	1	1	2	....	....
11	Other forms of tuberculosis	2	1	1	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....
12	Syphilis	2	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	3	1	2	....	1	....	....	....	....	1	1	....	....	....	1	....	....	....	....	....	....
15	Cancer and other malignant tumors	53	31	22	1	....	....	....	....	....	....	....	....	1	5	10	13	18	3	3	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	3	2	1	....	....	....	....	....	....	....	....	1	....	....	2	....	....	....	....	....	....
17	Chronic rheumatism and gout	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
18	Diabetes mellitus	17	4	13	....	....	....	....	....	....	....	....	....	....	1	....	4	4	7	1	....	....
19	Alcoholism (acute or chronic)	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
20	Other general diseases and chronic poisonings	3	2	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	2	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	27	16	11	....	....	....	....	....	....	....	....	....	....	....	....	7	12	7	1	....	....
23	Other diseases of the nervous system and of the organs of special sense	4	3	1	....	....	....	....	1	....	1	....	....	....	....	....	2	....	1	....	....	....
24	Diseases of the heart	106	62	44	1	....	....	....	....	....	....	1	....	3	4	13	24	34	17	10	....	....
25	Other diseases of the circulatory system	9	4	5	1	....	....	....	....	....	....	....	....	2	....	1	4	2	....	....	....	....
26	Bronchitis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
27	Pneumonias	16	13	3	1	3	1	....	....	....	4	....	1	1	2	2	2	1	2	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
30	Appendicitis	4	3	1	....	....	....	....	....	....	....	....	....	....	1	....	2	....	1	....	....	....
31	Diseases of the liver and biliary passages	6	4	2	....	....	....	....	....	....	....	....	....	....	....	2	3	1	....	....	....	....
32	Other diseases of the digestive system	10	9	1	....	1	....	....	....	....	1	....	1	2	2	1	....	2	1	....	....	....
33	Nephritis	26	12	14	1	....	....	....	....	....	....	....	....	1	1	3	7	9	4	1	....	....
34	Other diseases of the genitourinary system	7	4	3	....	....	....	....	....	....	....	....	....	1	....	1	....	2	3	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	18	11	7	....	18	....	....	....	....	18	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....
40	Suicide	6	6	....	....	....	....	....	....	....	....	....	....	....	1	3	....	2	....	....	....	....
41	Homicide	5	2	3	....	....	....	....	....	....	....	....	1	2	2	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	26	16	10	....	1	....	....	1	....	2	....	1	2	1	4	5	8	2	1	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 44,300. Total resident deaths, 381. Rate per 1,000 population, 8.6.

TABULATION OF DEATHS IN MONMOUTH COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	2081	1093	988	251	88	10	5	2	3	108	13	38	67	94	162	283	455	523	294	44	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	....	1	1	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	10	5	5	2	....	....	....	....	....	....	....	....	2	1	1	4	1	1	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	72	41	31	26	....	....	....	....	....	....	2	6	10	17	9	14	7	6	1	....	....
11	Other forms of tuberculosis	6	5	1	1	....	1	....	....	....	1	....	1	....	2	....	....	....	2	....	....	....
12	Syphilis	34	27	7	16	1	....	....	....	....	1	....	....	2	2	1	11	13	3	1	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infections and parasitic diseases	8	4	4	1	1	....	....	....	....	1	....	1	1	....	2	3	....	....	....	....	....
15	Cancer and other malignant tumors	228	103	125	19	....	....	1	....	....	1	....	....	4	9	21	40	64	70	16	3	....
16	Tumors, nonmalignant, or of which the nature is not specified	14	7	7	3	....	....	....	....	....	....	....	....	2	1	3	5	2	1	....	....	....
17	Chronic rheumatism and gout	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
18	Diabetes mellitus	52	16	36	5	....	....	....	....	....	....	....	....	....	....	....	9	22	17	4	....	....
19	Alcoholism (acute or chronic)	2	2	1	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....
20	Other general diseases and chronic poisonings	33	15	18	3	3	....	1	....	....	4	2	7	2	2	6	5	1	4	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	5	5	....	....	....	....	....	....	....	....	....	....	....	1	....	4	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	186	75	111	21	....	....	....	....	....	....	1	....	1	4	8	22	47	69	26	8	....
23	Other diseases of the nervous system and of the organs of special sense	16	9	7	2	1	1	....	....	....	2	....	1	3	2	4	....	3	....	1	....	....
24	Diseases of the heart	737	385	352	77	....	....	....	....	....	....	1	....	6	9	47	107	170	229	143	16	....
25	Other diseases of the circulatory system	55	27	28	2	1	....	....	....	....	1	....	....	1	1	1	1	10	14	23	4	....
26	Bronchitis	7	5	2	1	....	....	....	....	....	....	....	....	....	....	....	1	....	2	1	2	....
27	Pneumonias	83	44	39	15	13	2	2	1	....	18	1	3	2	2	10	8	13	15	9	2	....
28	Other diseases of the respiratory system (tuberculosis excepted)	15	11	4	2	1	2	....	....	....	3	....	1	....	2	1	1	1	1	4	1	....
29	Diarrhoea and enteritis	9	4	5	2	4	....	1	....	....	5	1	....	....	....	....	....	3	....	....	....	....
30	Appendicitis	13	7	6	4	....	....	....	....	1	1	....	2	3	2	2	1	1	....	1	....	....
31	Diseases of the liver and biliary passages	28	14	14	3	1	....	....	....	....	1	....	....	2	1	3	4	10	3	8	11	5	....
32	Other diseases of the digestive system	49	29	20	6	2	1	....	....	....	3	1	1	3	4	10	3	8	11	5	....	....
33	Nephritis	140	77	63	10	....	....	....	....	....	....	2	1	1	1	6	15	38	44	27	5	....
34	Other diseases of the genitourinary system	26	19	7	2	....	....	....	....	....	....	....	....	1	1	1	3	5	6	6	4	....
35	Puerperal septicemia	2	....	2	1	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	5	....	5	1	....	....	....	....	....	....	....	....	2	2	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	5	3	2	1	....	....	....	....	....	....	....	....	....	2	....	1	1	....	1	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	58	34	24	8	55	2	....	....	1	58	....	....	....	....	....	....	....	2	3	11	3
39	Senility	19	8	11	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	32	24	8	3	....	....	....	....	....	....	....	2	4	8	8	4	4	2	....	....	....
41	Homicide	9	2	7	3	....	....	....	....	....	....	....	1	2	5	....	....	....	1	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	120	85	35	9	5	1	....	....	1	7	2	10	12	13	14	16	15	14	15	2	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 165,600. Total resident deaths, 2,081. Rate per 1,000 population, 12.5.

TABULATION OF DEATHS IN ASBURY PARK CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	203	111	92	73	12	1	2	....	....	15	2	5	11	11	13	32	41	47	24	2	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	11	6	5	6	....	....	....	....	....	....	....	2	2	1	1	....	1	1	....	....	....
11	Other forms of tuberculosis	3	3	....	1	....	....	....	....	....	....	....	....	1	1	....	2	1	....	1	....	....
12	Syphilis	6	4	2	4	....	....	....	....	....	....	....	....	....	....	1	....	....	2	2	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	18	10	8	3	....	....	....	....	....	....	....	....	1	....	....	4	7	6	....	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	3	1	2	3	....	....	....	....	....	....	....	....	1	....	....	2	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	3	2	....	....	....
18	Diabetes mellitus	8	3	5	3	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	4	2	2	1	....	....	1	....	....	1	....	2	....	....	....	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	11	5	6	5	....	....	....	....	....	....	....	....	1	2	....	....	3	4	1	....	....
23	Other diseases of the nervous system and of the organs of special sense	2	1	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....
24	Diseases of the heart	81	45	36	24	....	....	....	....	....	....	....	....	....	1	7	14	20	22	17	....	....
25	Other diseases of the circulatory system	6	3	3	2	....	....	....	....	....	....	....	....	....	....	....	1	1	2	2	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonius	8	4	4	4	2	1	1	....	....	4	....	....	....	....	1	....	....	2	....	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	2	1	1	1	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
29	Diarrhoea and enteritis	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
30	Appendicitis	4	4	....	3	....	....	....	....	....	....	....	....	2	....	1	1	....	....	....	....	....
31	Diseases of the liver and biliary passages	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
32	Other diseases of the digestive system	2	2	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
33	Nephritis	8	5	3	1	....	....	....	....	....	....	1	....	....	....	....	1	1	3	1	1	....
34	Other diseases of the genitourinary system	3	....	3	1	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	10	5	5	4	10	....	....	....	....	10	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	2	2	....	1	....	....	....	....	....	....	....	....	....	1	1	....	....	1	....	....	....
41	Homicide	2	....	2	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	6	3	3	2	....	....	....	....	....	....	....	1	....	....	1	....	....	3	1	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 16,100. Total resident deaths, 203. Rate per 1,000 population, 12.6.

TABULATION OF DEATHS IN LONG BRANCH CITY FOR 1938. ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	212	105	107	22	5	....	....	....	1	6	....	4	8	13	17	26	51	49	34	4	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	9	5	4	1	....	....	....	....	....	....	....	1	1	3	2	1	1	1	....	....	....
11	Other forms of tuberculosis	1	....	1	....	....	....	....	....	....	....	....	....	1	1	1	....	1	1	....	....	....
12	Syphilis	4	4	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
15	Cancer and other malignant tumors	24	8	16	1	....	....	....	....	....	....	....	....	1	3	3	4	5	6	2	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	2	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	5	2	....	....	....
18	Diabetes mellitus	8	....	8	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	4	1	3	....	....	....	....	....	....	....	....	1	1	1	1	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	19	9	10	4	....	....	....	....	....	....	....	....	....	....	2	1	7	6	3	....	....
23	Other diseases of the nervous system and of the organs of special sense	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
24	Diseases of the heart	79	40	39	10	....	....	....	....	....	....	....	....	....	1	....	2	11	22	20	15	2	....
25	Other diseases of the circulatory system	5	5	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	1	2	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	3	3	....	1	....	....	....	....	....	....	....	1	....	1	....	....	....	....	1	....	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....	....
32	Other diseases of the digestive system	6	4	2	2	....	....	....	....	....	....	....	....	1	1	1	1	1	1	....	....	....	....
33	Nephritis	17	9	8	....	....	....	....	....	....	....	....	....	....	....	1	....	....	4	5	6	1	....
34	Other diseases of the genitourinary system	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	6	1	5	....	5	....	....	....	1	6	....	....	....	....	....	....	....	....	1	3	....	....
39	Senility	4	3	1	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....
40	Suicide	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	7	5	2	1	....	....	....	....	....	....	....	1	2	....	1	1	1	....	1	....	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 20,500. Total resident deaths, 212. Rate per 1,000 population, 10.3.

TABULATION OF DEATHS IN RED BANK BOROUGH FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	168	85	83	29	4	....	....	....	....	4	....	3	4	9	17	31	88	30	22	4	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
8	Influenza	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	8	3	5	6	....	....	....	....	....	....	....	2	2	....	1	....	1	1	1	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....
12	Syphilis	3	2	1	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	23	10	13	2	....	....	....	....	....	....	....	....	....	3	3	3	4	4	3	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	4	1	3	1	....	....	....	....	....	....	....	....	....	....	....	1	....	2	....	....	....
19	Alcoholism (acute or chronic)	2	1	1	....	1	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....
20	Other general diseases and chronic poisonings	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	14	7	7	4	....	....	....	....	....	....	....	....	....	....	....	2	4	6	2	....	....
23	Other diseases of the nervous system and of the organs of special sense	2	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....
24	Diseases of the heart	60	33	27	7	....	....	....	....	....	....	....	....	....	....	....	5	13	16	15	9	2
25	Other diseases of the circulatory system	4	....	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	2	....
26	Bronchitis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	9	4	5	1	1	....	....	....	....	1	....	....	....	....	1	1	1	1	2	2	....
28	Other diseases of the respiratory system (tuberculosis excepted)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	1	....	....
31	Diseases of the liver and biliary passages	2	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
32	Other diseases of the digestive system	2	1	1	....	....	....	....	....	....	....	....	....	....	....	1	1	....	7	2	....	....
33	Nephritis	10	2	8	3	....	....	....	....	....	....	....	....	....	....	1	....	2	1	....	....	....
34	Other diseases of the genitourinary system	4	3	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	2	2	....	....	2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
40	Suicide	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	14	9	5	1	....	....	....	....	....	....	....	1	....	1	3	3	1	1	3	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 12,700. Total resident deaths, 168. Rate per 1,000 population, 13.2.

TABULATION OF DEATHS IN MORRIS COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	1354	730	624	47	65	5	3	....	2	75	7	20	30	50	120	207	281	341	182	35	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	5	3	2	....	....	....	....	....	....	....	....	1	....	1	....	1	....	2	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	32	22	10	2	....	....	....	....	....	....	....	1	5	1	6	11	4	4	....	....	....
11	Other forms of tuberculosis	2	1	1	....	....	1	....	....	....	1	....	....	....	1	....	....	1	....	....	....	....
12	Syphilis	11	9	2	2	....	....	....	....	....	....	....	....	....	1	3	4	2	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	1	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	171	85	86	3	....	....	....	....	....	....	....	2	....	6	21	28	47	48	17	2	....
16	Tumors, nonmalignant, or of which the nature is not specified	6	4	2	....	....	....	....	....	....	....	....	....	....	....	2	2	....	2	....	....	....
17	Chronic rheumatism and gout	2	1	1	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....
18	Diabetes mellitus	37	9	28	....	....	....	....	....	....	....	....	....	....	....	1	4	18	13	1	....	....
19	Alcoholism (acute or chronic)	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....
20	Other general diseases and chronic poisonings	25	9	16	1	5	....	....	....	2	7	1	3	1	2	3	3	1	3	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	3	3	....	3	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	122	57	65	10	....	....	....	....	....	....	....	....	2	3	5	32	27	31	18	4	....
23	Other diseases of the nervous system and of the organs of special sense	21	15	6	....	1	....	....	....	....	1	....	3	....	1	1	3	3	7	2	....	....
24	Diseases of the heart	407	223	184	9	....	....	....	....	....	....	....	6	3	3	34	49	97	127	75	13	....
25	Other diseases of the circulatory system	26	16	10	1	....	....	....	....	....	....	....	....	....	....	1	1	1	7	15	1	....	....
26	Bronchitis	5	1	4	....	....	....	....	....	....	....	....	....	....	3	....	....	1	1	....	....	....	....
27	Pneumonias	67	42	25	4	10	3	1	....	....	14	2	1	2	4	3	7	10	13	9	2	....
28	Other diseases of the respiratory system (tuberculosis excepted)	13	9	4	....	....	1	....	....	....	1	....	1	....	....	....	7	2	....	1	1	....
29	Diarrhoea and enteritis	2	....	2	....	1	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....
30	Appendicitis	12	10	2	....	....	....	....	....	....	....	1	1	2	....	1	3	3	....	1	....	....
31	Diseases of the liver and biliary passages	24	9	15	....	....	....	....	....	....	....	....	....	....	....	2	6	6	7	3	....	....
32	Other diseases of the digestive system	35	21	14	2	....	....	....	....	....	....	....	1	3	4	2	10	3	9	2	1	....
33	Nephritis	137	64	73	2	....	....	....	....	....	....	....	....	....	4	6	12	30	47	33	5	....
34	Other diseases of the genitourinary system	29	14	15	3	....	....	....	....	....	....	....	....	1	2	7	2	12	5	....	....	....
35	Puerperal septicemia	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	5	....	5	....	....	....	....	....	....	....	....	....	1	3	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	43	20	23	2	43	....	....	....	....	43	....	....	....	....	....	....	....	....	....	....	....
39	Senility	6	4	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	4	....
40	Suicide	22	15	7	1	....	....	....	....	....	....	....	....	3	1	8	6	1	3	....	....	....
41	Homicide	2	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	76	59	17	2	4	....	1	....	....	5	3	6	5	7	12	13	11	8	4	2	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 122,500. Total resident deaths, 1,354. Rate per 1,000 population, 11.0.

TABULATION OF DEATHS IN DOVER TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	124	73	51	....	6	....	1	....	....	7	1	1	2	5	14	19	24	32	16	3	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	5	5	....	....	....	....	....	....	....	....	....	....	....	....	2	2	1	....	....	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	10	4	6	....	....	....	....	....	....	....	....	....	....	....	2	4	3	1	....	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	3	1	2	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	1	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	4	3	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	2	....	....	....
23	Other diseases of the nervous system and of the organs of special sense	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
24	Diseases of the heart	33	17	16	....	....	....	....	....	....	....	....	....	....	2	4	3	6	12	5	1	....
25	Other diseases of the circulatory system	4	2	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	2	....	....
26	Bronchitis	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
27	Pneumonias	12	8	4	....	1	....	1	....	....	2	....	....	....	....	....	2	2	4	1	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	2	2	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....
31	Diseases of the liver and biliary passages	3	1	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	....
32	Other diseases of the digestive system	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....
33	Nephritis	21	11	10	....	....	....	....	....	....	....	....	....	....	....	2	....	3	7	7	....	....
34	Other diseases of the genitourinary system	3	2	1	....	....	....	....	....	....	....	....	....	....	....	1	....	2	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	4	2	2	....	4	....	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
40	Suicide	3	3	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....
41	Homicide	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	7	7	....	....	....	....	....	....	....	....	....	....	....	2	2	1	....	2	....	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 10,100. Total resident deaths, 124. Rate per 1,000 population, 12.2.

TABULATION OF DEATHS IN MORRISTOWN TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	227	117	110	28	6	1	....	....	....	7	....	1	5	11	23	33	46	63	33	5	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	10	6	4	....	....	....	....	....	....	....	....	....	2	1	2	3	....	2	....	....	....
11	Other forms of tuberculosis	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
12	Syphilis	4	2	2	1	....	....	....	....	....	....	....	....	....	1	1	1	1	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	26	11	15	2	....	....	....	....	....	....	....	1	....	1	1	2	8	8	5	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
17	Chronic rheumatism and gout	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
18	Diabetes mellitus	12	2	10	....	....	....	....	....	....	....	....	....	....	....	....	....	7	5	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	3	2	1	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	2	2	....	2	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	23	13	10	7	....	....	....	....	....	....	....	....	....	....	....	7	3	9	3	1	....
23	Other diseases of the nervous system and of the organs of special sense	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
24	Diseases of the heart	72	36	36	4	....	....	....	....	....	....	....	....	....	....	10	6	15	24	15	2	....
25	Other diseases of the circulatory system	7	5	2	1	....	....	....	....	....	....	....	....	....	....	1	....	....	3	3	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonia	7	4	3	3	....	....	....	....	....	....	....	....	....	1	....	1	....	4	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	....	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	1	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
30	Appendicitis	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....
31	Diseases of the liver and biliary passages	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....
32	Other diseases of the digestive system	7	5	2	2	....	....	....	....	....	....	....	....	1	....	....	3	1	1	1	....	....
33	Nephritis	16	7	9	2	....	....	....	....	....	....	....	....	....	1	1	4	4	3	3	....	....
34	Other diseases of the genitourinary system	9	4	5	3	....	....	....	....	....	....	....	....	....	1	3	....	4	1	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	6	4	2	1	6	....	....	....	....	6	....	....	....	....	....	....	....	....	....	....	....
39	Senility	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....
40	Suicide	3	1	2	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	8	8	....	....	....	....	....	....	....	....	....	....	1	2	2	1	1	1	....	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 16,400. Total resident deaths, 227. Rate per 1,000 population, 13.8.

TABULATION OF DEATHS IN OCEAN COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	535	289	246	17	20	1	....	1	....	31	1	6	16	26	39	82	118	125	75	16	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	6	3	3	....	....	....	....	....	....	....	....	....	....	....	1	1	2	1	1	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	16	11	5	2	....	....	....	....	....	....	....	....	3	3	3	3	3	1	....	....	....
11	Other forms of tuberculosis	3	1	2	....	....	....	....	....	....	....	....	....	1	....	....	2	....	....	....	....	....
12	Syphilis	4	4	....	....	1	....	....	....	....	1	....	....	....	....	....	1	....	2	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	5	3	2	....	....	....	....	....	....	....	....	1	1	....	....	2	....	1	....	....	....
15	Cancer and other malignant tumors	89	42	47	3	....	....	....	....	....	....	....	....	3	2	8	17	28	18	12	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	2	....	2	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	18	6	12	....	....	....	....	....	....	....	....	....	....	....	2	7	3	5	1	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	2	2	....	1	1	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	39	22	17	....	....	....	....	....	....	....	....	....	....	....	1	3	7	15	12	1	....
23	Other diseases of the nervous system and of the organs of special sense	2	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....
24	Diseases of the heart	163	92	71	6	1	....	....	....	....	1	....	....	....	4	7	22	44	46	31	8	....
25	Other diseases of the circulatory system	12	5	7	....	....	....	....	....	....	....	....	....	....	....	....	1	....	3	7	1	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	42	20	22	2	5	....	....	1	....	6	....	1	....	4	5	3	9	11	1	2	....
28	Other diseases of the respiratory system (tuberculosis excepted)	2	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....
29	Diarrhoea and enteritis	4	2	2	....	1	....	....	....	....	1	....	....	....	....	1	1	1	....	....	....	....
30	Appendicitis	5	3	2	....	....	....	....	....	....	....	....	1	....	1	....	1	1	1	....	....	....
31	Diseases of the liver and biliary passages	6	5	1	....	....	....	....	....	....	....	....	....	....	1	1	2	1	1	....	....	....
32	Other diseases of the digestive system	16	7	9	1	1	....	....	....	....	1	1	....	....	1	2	4	5	2	....	....	....
33	Nephritis	27	14	13	....	....	....	....	....	....	....	....	....	....	1	....	4	3	12	5	2	....
34	Other diseases of the genitourinary system	7	5	2	1	....	....	....	....	....	....	....	....	....	1	1	....	2	2	1	....	....
35	Puerperal septicemia	1	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	19	10	9	....	19	....	....	....	....	19	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
40	Suicide	12	10	2	....	....	....	....	....	....	....	....	....	3	1	2	4	1	....	1	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	28	17	11	1	....	1	....	....	....	1	....	2	5	3	3	3	6	2	2	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 37,800. Total resident deaths, 535. Rate per 1,000 population, 14.1.

TABULATION OF DEATHS IN PASSAIC COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	2974	1625	1349	114	139	18	9	12	2	180	25	56	103	160	315	511	697	629	265	33	....
1	Typhoid and paratyphoid fever	2	2	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
5	Scarlet fever	2	1	1	....	1	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	2	....	2	....	....	....	1	....	....	1	1	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	16	6	10	....	....	1	....	....	....	1	1	1	1	....	3	2	2	3	2	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	120	74	52	14	1	....	....	....	....	1	1	6	19	24	25	25	19	6	....	....	....
11	Other forms of tuberculosis	7	1	6	1	....	....	....	1	....	1	2	....	....	2	....	....	2	....	....	....	....
12	Syphilis	28	21	7	4	1	....	....	....	....	1	....	....	....	4	9	6	5	3	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	11	7	4	1	1	....	1	....	1	3	....	2	....	....	1	4	1	....	....	....	....
15	Cancer and other malignant tumors	405	186	219	6	....	....	....	....	....	....	....	2	6	24	44	104	125	78	22	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	23	13	12	2	....	1	....	....	....	1	2	....	2	3	6	7	3	1	....	....	....
17	Chronic rheumatism and gout	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
18	Diabetes mellitus	104	36	68	2	....	....	....	....	....	....	....	....	1	....	6	29	32	30	5	1	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	51	23	28	....	1	1	1	....	....	3	1	2	6	5	11	9	8	5	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	8	5	3	....	....	....	....	....	....	....	....	....	2	2	1	3	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	249	132	117	7	....	....	....	....	....	....	....	....	1	8	20	36	66	76	40	2	....
23	Other diseases of the nervous system and of the organs of special sense	24	14	10	2	1	....	....	1	....	2	4	3	3	4	2	3	1	2	....	....	....
24	Diseases of the heart	881	475	406	28	1	....	....	1	....	2	....	12	14	22	75	143	235	257	104	17	....
25	Other diseases of the circulatory system	59	31	28	1	....	....	....	....	....	....	....	....	1	2	3	7	8	10	19	3	....
26	Bronchitis	10	7	3	....	1	....	....	....	....	1	....	....	1	....	....	1	1	3	3	....	....
27	Pneumonia	167	93	74	15	24	7	4	2	....	37	3	2	9	8	15	10	36	31	15	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	16	11	5	....	....	....	....	....	....	....	....	1	....	....	....	5	6	4	....	....	....
29	Diarrhoea and enteritis	11	5	6	....	4	....	....	....	....	4	....	1	....	3	....	....	3	....	....	....	....
30	Appendicitis	25	16	9	....	....	1	....	2	....	3	2	4	2	....	7	3	4	....	....	....	....
31	Diseases of the liver and biliary passages	62	38	24	1	....	....	....	....	....	....	....	....	....	1	5	12	19	13	10	2	....
32	Other diseases of the digestive system	80	49	31	3	4	3	....	....	....	7	1	2	4	4	15	17	14	13	3	....	....
33	Nephritis	182	100	82	9	....	....	....	....	....	....	....	2	4	7	16	23	48	47	32	3	....
34	Other diseases of the genitourinary system	55	40	15	1	....	....	....	....	....	....	....	....	4	3	2	11	15	17	3	....	....
35	Puerperal septicemia	3	....	3	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	5	....	5	....	....	....	....	....	....	....	....	....	1	3	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	5	2	3	1	1	....	....	....	....	1	....	....	1	....	....	....	1	2	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	98	58	40	6	97	....	....	1	....	98	....	....	....	....	....	....	....	....	....	....	....
39	Senility	13	9	4	....	....	....	....	....	....	....	....	....	....	....	....	....	1	5	2	5	....
40	Suicide	58	44	14	....	....	....	....	....	....	....	....	3	8	7	9	17	9	4	1	....	....
41	Homicide	13	8	5	3	1	....	1	....	....	2	....	....	2	5	1	2	1	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	103	114	51	7	....	2	1	4	1	8	7	13	8	14	27	25	36	15	11	1	....
43	Cause of death not specified or ill-defined	4	3	1	....	1	....	....	....	....	1	....	....	....	....	1	....	2	....	....	....	....

Estimated population, 320,900. Total resident deaths, 2,974. Rate per 1,000 population, 9.2.

TABULATION OF DEATHS IN CLIFTON CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	362	196	166	4	25	2	3	2	....	32	4	6	11	22	46	71	70	64	28	2	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	1	....	....
8	Influenza	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	1	2	2	5	2	2	1	....	....	....
10	Tuberculosis of the respiratory system	15	9	6	2	....	....	....	....	....	....	1	....	....	1	2	1	....	1	....	....	....
11	Other forms of tuberculosis	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....
12	Syphilis	5	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....
14	Other infectious and parasitic diseases	2	....	2	....	....	....	....	....	....	....	....	....	....	....	2	8	18	14	5	6	....
15	Cancer and other malignant tumors	53	24	29	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	4	3	4	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....
18	Diabetes mellitus	11	2	9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	2	....	....	....	....	....
20	Other general diseases and chronic poisonings	6	3	3	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	29	16	13	....	....	....	....	....	....	....	....	....	....	....	....	3	6	10	6	3	1

23	Other diseases of the nervous system and of the organs of special sense	3	1	2	....	1	....	....	....	....	1	1	....	....	....	....	....	....	1	....	....	....
24	Diseases of the heart	93	48	47	....	....	....	....	....	....	....	....	1	3	9	10	17	25	22	7	1	....
25	Other diseases of the circulatory system	4	2	2	....	....	....	....	....	....	....	....	....	....	2	....	....	2	....	....	....	....	....
26	Bronchitis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
27	Pneumonias	21	12	9	1	4	1	3	....	....	8	....	1	2	....	3	....	1	4	2	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
29	Diarrhoea and enteritis	3	1	2	....	2	....	....	....	....	2	....	....	....	1	....	....	....	....	....	....	....
30	Appendicitis	7	6	1	....	....	1	....	1	....	2	....	1	....	....	2	....	2	....	....	....	....
31	Diseases of the liver and biliary passages	13	9	4	....	....	....	....	....	....	....	....	....	....	1	2	3	3	3	1	....	....
32	Other diseases of the digestive system	11	7	4	....	2	....	....	....	....	2	....	....	1	....	2	3	2	1	....	....	....
33	Nephritis	27	15	12	1	....	....	....	....	....	....	....	....	....	....	....	4	7	10	6	....	....
34	Other diseases of the genitourinary system	4	3	1	....	....	....	....	....	....	....	....	....	....	1	....	1	....	2	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	16	9	7	....	16	....	....	....	....	16	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	7	6	1	....	....	....	....	....	....	....	....	....	1	....	1	3	2	....	....	....	....
41	Homicide	2	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	17	11	6	....	....	....	....	....	1	1	1	2	....	1	1	7	2	....	2	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 55,800. Total resident deaths, 362. Rate per 1,000 population, 6.4.

TABULATION OF DEATHS IN PASSAIC CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	534	317	217	24	22	1	1	3	....	27	7	14	33	27	65	106	115	99	40	1	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	4	1	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	1	....	....
10	Tuberculosis of the respiratory system	37	19	18	4	1	....	....	....	....	1	1	1	9	8	5	7	3	2	....	....	....
11	Other forms of tuberculosis	2	....	2	1	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....
12	Syphilis	5	4	1	....	....	....	....	....	....	....	....	....	....	1	2	1	1	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	2	1	1	....	1	....	1	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	57	31	26	1	....	....	....	....	....	....	....	....	2	3	5	20	15	8	4	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	6	6	....	....	....	....	....	....	....	....	....	....	1	....	3	2	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	18	9	9	....	....	....	....	....	....	....	....	....	....	....	....	7	7	2	2	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	9	4	5	....	....	....	....	....	....	....	....	....	2	1	3	2	1	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	2	2	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	39	21	18	....	....	....	....	....	....	....	....	....	1	1	4	6	11	8	8	....	....	....
23	Other diseases of the nervous system and of the organs of special sense	9	4	2	1	....	....	....	....	....	....	....	1	2	1	....	1	....	1	....	....	....	....
24	Diseases of the heart	157	88	69	7	....	....	....	....	....	....	....	3	3	5	13	25	42	51	14	1	....	....
25	Other diseases of the circulatory system	6	3	3	1	....	....	....	....	....	....	....	....	....	....	1	3	1	....	1	....	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonius	31	17	14	2	3	1	....	....	....	4	....	1	2	2	3	7	6	5	1	....	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	4	2	2	....	....	....	....	....	....	....	....	....	....	....	....	1	2	1	....	....	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	9	5	4	....	....	....	....	1	....	1	....	1	1	....	3	1	2	....	....	....	....	....
31	Diseases of the liver and biliary passages	12	6	6	....	....	....	....	....	....	....	....	....	1	....	3	4	1	2	1	....	....	....
32	Other diseases of the digestive system	14	9	5	1	1	....	....	....	....	1	....	....	2	....	1	3	1	4	2	....	....	....
33	Nephritis	32	20	12	1	....	....	....	....	....	....	....	1	2	....	5	1	12	6	5	....	....	....
34	Other diseases of the genitourinary system	12	9	3	....	....	....	....	....	....	....	....	....	3	....	....	....	2	6	1	....	....	....
35	Puerperal septicemia	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	17	11	6	1	16	....	....	1	....	17	....	....	....	....	....	....	....	....	....	....	....	....
39	Senility	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....
40	Suicide	14	12	2	....	....	....	....	....	....	....	....	2	1	....	2	9	....	....	....	....	....	....
41	Homicide	2	2	....	1	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	34	29	5	3	....	....	....	1	....	1	5	4	1	3	10	4	5	1	....	....	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 62,959. Total resident deaths, 534. Rate per 1,000 population, 8.4.

TABULATION OF DEATHS IN PATERSON CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	1598	843	755	77	58	8	4	4	2	76	9	26	46	97	158	256	400	360	149	21	....
1	Typhoid and paratyphoid fever	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
6	Whooping cough	2	1	1	....	1	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	1	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	5	2	3	....	....	1	....	....	....	1	....	....	1	....	1	....	....	....	2	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	63	40	23	8	....	....	....	....	....	....	....	4	5	14	14	14	12	2	....	....	....
11	Other forms of tuberculosis	4	1	3	....	....	....	....	1	....	1	....	....	....	2	....	....	1	....	....	....	....
12	Syphilis	15	9	6	4	1	....	....	....	....	1	....	....	....	2	4	4	2	2	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	6	5	1	....	....	....	....	....	1	1	....	2	....	....	....	2	1	....	....	....	....
15	Cancer and other malignant tumors	228	101	127	5	....	....	....	....	....	....	....	1	4	17	25	52	70	49	10	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	10	3	7	2	....	1	....	....	....	1	1	....	....	3	1	1	2	1	....	....	....
17	Chronic rheumatism and gout	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
18	Diabetes mellitus	51	20	34	2	....	....	....	....	....	....	....	....	1	....	2	13	18	17	2	1	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	28	12	16	....	1	....	1	....	....	2	1	2	2	3	4	5	7	2	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	3	1	2	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	142	77	65	6	....	....	....	....	....	....	....	....	....	7	10	19	32	49	24	1	....
23	Other diseases of the nervous system and of the organs of special sense	10	6	4	1	....	....	....	....	1	1	2	1	....	3	2	1	....	....	....	....	....
24	Diseases of the heart	495	257	238	20	1	....	....	....	....	1	....	7	5	5	43	86	130	140	93	9	....
25	Other diseases of the circulatory system	42	22	20	....	....	....	....	....	....	....	....	....	1	....	1	3	5	13	17	2	....
26	Bronchitis	6	4	2	....	....	1	....	....	....	1	....	....	1	....	1	1	1	1	....	....	....
27	Pneumonias	87	52	35	7	10	2	1	1	....	14	1	....	5	5	6	2	24	19	10	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	6	4	2	....	....	....	....	....	....	....	....	....	....	....	....	3	1	2	....	....	....	....
29	Diarrhoea and enteritis	7	4	3	....	1	....	....	....	....	1	....	1	....	2	....	....	3	....	....	....	....
30	Appendicitis	8	4	4	....	....	....	....	....	....	....	2	1	1	....	2	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	28	10	12	1	....	....	....	....	....	....	....	....	....	1	4	7	6	4	....	....	....
32	Other diseases of the digestive system	40	24	16	2	1	2	....	....	....	3	1	....	1	4	9	7	8	7	....	....	....
33	Nephritis	92	50	42	7	....	....	....	....	....	....	....	1	2	6	5	14	27	23	13	1	....
34	Other diseases of the genitourinary system	29	21	8	1	....	....	....	....	....	....	....	....	....	2	2	7	9	7	2	....	....	....
35	Puerperal septicemia	2	....	2	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	3	....	3	....	....	....	....	....	....	....	....	....	1	2	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	4	2	2	1	....	....	....	....	....	....	....	....	1	....	....	....	1	2	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	41	21	20	4	41	....	....	....	....	41	....	....	....	....	....	....	....	1	2	1	5
39	Senility	9	5	4	....	....	....	....	....	....	....	....	....	6	4	4	4	5	4	1	....	....
40	Suicide	29	20	9	....	....	....	....	....	....	....	....	1	....	2	3	....	....	....	....	....	....
41	Homicide	8	4	4	2	1	....	1	....	....	2	....	....	....	....	....	1	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	83	51	32	4	....	....	....	....	1	1	2	1	5	5	8	12	7	26	11	5	1
43	Cause of death not specified or ill-defined	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	....	....	....	....

Estimated population, 139,700. Total resident deaths, 1,598. Rate per 1,000 population, 11.4.

TABULATION OF DEATHS IN SALEM COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	464	261	203	75	29	4	4	....	3	40	5	11	24	20	40	60	88	94	65	11	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	7	3	4	2	....	....	....	....	....	....	1	1	....	....	....	1	....	3	1	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	15	10	5	7	....	....	1	....	....	1	....	....	4	4	1	2	1	2	....	....	....
11	Other forms of tuberculosis	2	1	1	1	....	1	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....
12	Syphilis	7	7	....	3	....	....	....	....	....	....	....	....	....	1	1	1	2	....	2	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	2	2	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....
15	Cancer and other malignant tumors	42	17	25	3	....	....	....	....	....	....	1	....	3	7	10	7	8	6	....	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	4	1	3	1	....	....	....	....	....	....	....	....	1	....	1	1	1	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	16	4	12	2	....	....	....	....	....	....	....	....	....	2	1	3	5	3	1	1	....
19	Alcoholism (acute or chronic)	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
20	Other general diseases and chronic poisonings	3	2	1	....	1	....	....	....	....	1	1	....	....	....	....	1	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	2	2	....	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	39	16	23	9	....	....	....	....	....	....	....	....	1	....	2	3	10	17	5	1	....
23	Other diseases of the nervous system and of the organs of special sense	2	1	1	1	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....
24	Diseases of the heart	126	77	52	17	....	....	1	....	....	1	....	1	1	2	9	23	34	29	24	5	....
25	Other diseases of the circulatory system	14	5	9	1	....	....	....	....	....	....	....	....	....	....	....	....	1	7	4	2	....
26	Bronchitis	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
27	Pneumonia	28	15	13	7	6	1	....	....	2	9	....	2	3	....	2	3	1	5	2	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	2	2	....	....	....	1	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....
29	Diarrhoea and enteritis	2	2	....	....	1	....	1	....	....	2	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....
31	Diseases of the liver and biliary passages	9	4	5	1	....	....	....	....	....	....	....	....	1	....	....	2	3	2	1	....	....
32	Other diseases of the digestive system	10	7	3	....	....	....	....	....	....	....	....	....	2	1	4	3	....	....	....	....	....
33	Nephritis	35	24	11	7	....	....	....	....	....	....	....	1	1	....	3	1	8	9	12	....	....
34	Other diseases of the genitourinary system	10	7	3	1	....	....	....	....	....	....	1	....	....	....	1	1	1	4	2	....	....
35	Puerperal septicemia	3	....	3	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	19	12	7	2	19	....	....	....	....	19	....	....	....	....	....	....	....	1	2	1	....
39	Senility	4	....	4	....	....	....	....	....	....	....	....	1	2	1	1	2	1	....	....	....	....
40	Suicide	8	6	2	2	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
41	Homicide	1	....	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	42	30	12	5	1	1	....	....	1	3	1	4	6	5	3	6	8	3	3	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 37,000. Total resident deaths, 464. Rate per 1,000 population, 12.5.

TABULATION OF DEATHS IN SOMERSET COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 yrs.	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	684	368	316	27	41	4	6	4	3	58	6	10	22	36	57	96	154	143	90	12	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	4	1	3	....	2	....	2	....	....	4	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	4	3	1	....	4	....	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	3	....	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	23	13	10	4	....	....	....	....	....	....	1	1	10	3	....	6	2	....	....	....	....
11	Other forms of tuberculosis	2	1	1	....	....	....	1	....	....	1	....	....	....	....	....	....	1	....	....	....	....
12	Syphilis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	2	....	2	....	....	....	1	....	....	1	1	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	106	49	57	2	....	....	....	....	....	....	....	....	....	5	10	22	32	26	11	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	4	1	3	1	....	....	....	....	....	....	....	1	....	....	....	1	1	1	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	14	5	9	1	....	....	....	....	....	....	....	....	....	....	....	1	7	4	2	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	8	1	7	....	1	....	....	....	....	1	1	....	1	1	1	....	2	1	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	50	27	23	1	....	....	....	....	....	....	....	....	1	1	4	8	14	12	8	2	....
23	Other diseases of the nervous system and of the organs of special sense	7	5	2	....	1	....	....	....	....	1	1	....	....	1	1	....	3	....	....	....	....
24	Diseases of the heart	212	123	89	10	....	....	....	....	....	....	1	3	2	7	17	31	44	62	40	5	....
25	Other diseases of the circulatory system	19	10	9	....	....	1	....	....	....	1	....	....	....	....	1	3	4	6	3	1	....
26	Bronchitis	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....
27	Pneumonias	41	16	25	2	8	1	....	1	2	12	....	2	....	3	4	3	6	5	4	2	....
28	Other diseases of the respiratory system (tuberculosis excepted)	6	4	2	....	....	1	....	....	1	2	1	....	....	....	1	....	....	1	1	....	....
29	Diarrhoea and enteritis	3	3	....	....	3	....	....	....	....	3	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	8	4	4	....	....	....	....	....	....	....	....	....	....	....	2	....	5	1	....	....	....
31	Diseases of the liver and biliary passages	9	6	3	....	....	....	....	....	....	....	....	....	....	....	1	2	3	1	2	....	....
32	Other diseases of the digestive system	17	12	5	1	....	....	....	1	....	1	....	....	....	1	1	5	7	1	1	....	....
33	Nephritis	36	19	17	1	....	....	....	....	....	....	....	1	....	....	6	5	7	8	8	1	....
34	Other diseases of the genitourinary system	15	7	8	1	....	....	....	....	....	....	....	1	....	2	2	2	4	2	2	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	3	....	3	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	21	12	9	....	20	....	....	1	....	21	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
40	Suicide	15	12	3	....	....	....	....	....	....	....	....	....	2	2	....	5	5	1	....	....	....
41	Homicide	1	....	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	46	32	14	2	2	1	2	1	....	6	....	1	5	8	5	2	5	7	6	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 72,000. Total resident deaths, 684. Rate per 1,000 population, 9.4.

TABULATION OF DEATHS IN SUSSEX COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	378	214	164	2	21	1	1	1	....	27	5	11	8	10	27	60	62	102	59	7	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
8	Influenza	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	1	3	2	1	2	....	1	....	....	....
10	Tuberculosis of the respiratory system	10	6	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
11	Other forms of tuberculosis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
12	Syphilis	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....
14	Other infectious and parasitic diseases	2	....	2	....	....	....	....	....	....	....	....	....	....	....	1	11	5	13	2	1	....
15	Cancer and other malignant tumors	33	11	22	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	2	....	....	....
17	Chronic rheumatism and gout	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
18	Diabetes mellitus	5	2	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....	....
19	Alcoholism (acute or chronic)	1	1	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	1	....	....
20	Other general diseases and chronic poisonings	6	5	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	47	26	21	....	....	....	....	....	....	....	....	....	....	....	2	8	6	21	9	1	....
23	Other diseases of the nervous system and of the organs of special sense	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
24	Diseases of the heart	111	62	49	....	....	....	....	....	....	....	....	....	....	1	2	4	17	23	34	28	2	....
25	Other diseases of the circulatory system	11	6	5	....	....	....	....	....	....	....	....	....	....	....	....	....	1	3	3	4	....	....
26	Bronchitis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonia	27	19	8	....	5	....	1	....	....	6	....	....	....	2	2	3	7	5	1	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	3	3	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....
29	Diarrhoea and enteritis	2	1	1	....	....	1	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....
30	Appendicitis	2	1	1	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	4	2	2	....	....	....	....	....	....	....	....	....	1	....	....	....	3	....	1	....	....	....
32	Other diseases of the digestive system	11	5	6	....	....	....	....	....	....	....	....	1	....	....	1	....	2	2	....	2	....	....
33	Nephritis	30	14	16	....	....	....	....	....	....	....	....	....	1	....	1	5	2	6	8	6	1	....
34	Other diseases of the genitourinary system	4	3	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	2	....	....	....
35	Puerperal septicemia	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	16	9	7	....	16	....	....	....	....	16	....	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
40	Suicide	9	8	1	....	....	....	....	....	....	....	....	....	....	1	2	2	1	3	....	....	....	....
41	Homicide	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	30	22	8	1	1	....	....	1	....	2	2	6	1	2	4	3	3	4	2	1	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 29,100. Total resident deaths, 378. Rate per 1,000 population, 12.9.

TABULATION OF DEATHS IN UNION COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	3114	1643	1471	261	176	21	11	6	12	226	29	67	124	182	383	545	621	613	280	44	
1	Typhoid and paratyphoid fever																					
2	Typhus fever																					
3	Smallpox	2	1	1		1					1	1										
4	Measles																					
5	Scarlet fever	6	2	4		3	1	2			6											
6	Whooping cough																					
7	Diphtheria	13	5	8	3	1			1		2	2			1	1		3	2	2		
8	Influenza																					
9	Plague																					
10	Tuberculosis of the respiratory system	127	81	46	19	1	1			1	2		6	29	23	27	22	14	4			
11	Other forms of tuberculosis	27	20	7	13	1					1			2	2	1	1	1				
12	Syphilis														2	8	10	4	1		1	
13	Malaria																					
14	Other infectious and parasitic diseases	17	9	8	6	2				3	5	3	2	1	3		2	1				
15	Cancer and other malignant tumors	417	190	227	25									4	16	61	104	118	91	20	3	
16	Tumors, nonmalignant, or of which the nature is not specified	31	14	17	2					1	1	2	1	2	1	1	12	7	3		2	
		2	1	1																1		
17	Chronic rheumatism and gout	73	28	45	7								2	1	2	3	15	30	19	1		
18	Diabetes mellitus	6	6												2	2	2					
19	Alcoholism (acute or chronic)	67	35	32	5	2	1		1	2	6	6	5	6	9	16	6	5	3	5		
20	Other general diseases and chronic poisonings												1				1	3				
21	Progressive locomotor ataxia and general paralysis of the insane	5	4	1	1																	
22	Cerebral hemorrhage, cerebral embolism and thrombosis	267	130	137	15				1	1	2			2	1	23	46	62	86	38	5	
23	Other diseases of the nervous system and of the organs of special sense	46	19	27	3	2	2		1		5	2	4	6	8	4	6	4	5	2		
24	Diseases of the heart	922	491	431	62							3	9	10	30	92	176	215	246	120	15	
25	Other diseases of the circulatory system	66	33	33	2									2		6	9	8	18	19	4	
26	Bronchitis	7	4	3	1							1	1					2	2	1		
27	Pneumonias	200	117	83	22	26	7	3			36	2	8	6	24	23	23	25	36	16	1	
28	Other diseases of the respiratory system (tuberculosis excepted)	22	13	9	2	3	1				4		1	2		5	8		1		1	
29	Diarrhoea and enteritis	10	13	6	4	11	1				12	1	1	1	2		2					
30	Appendicitis	33	21	12	2		1	1			2	1	5	8	2	9	2	3	1			
31	Diseases of the liver and biliary passages	58	26	32	2									1	6	9	12	20	8	2		
32	Other diseases of the digestive system	68	43	25	2	4	2			1	7	1	2	2	6	11	17	9	7	5	1	
33	Nephritis	186	81	105	22		1				1		2	6	4	23	29	48	47	20	6	
34	Other diseases of the genitourinary system	44	24	20	6								1	1	2	5	4	12	13	5	1	
35	Puerperal septicemia	3		3										2	1							
36	Other diseases of pregnancy, childbirth and the puerperal state	8		8	1									4	3	1						
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	7	2	5		1					1		1		1	1	1		1	1		
38	Congenital debility and malformations, premature birth and other diseases of early infancy	115	70	45	12	112	2	1			115											
39	Senility	4	2	2														1		1	2	
40	Suicide	41	26	15	2								2	3	5	14	10	5	2			
41	Homicide	1		1												1						
42	Violent and accidental deaths (suicide and homicide excepted)	185	127	58	10	3	1	2		4	10	5	12	23	19	22	28	24	19	19	4	
43	Cause of death not specified or ill-defined	7	3	4	1	1					1			1	1	1	2	1				

Estimated population, 351,000. Total resident deaths, 3,114. Rate per 1,000 population, 8.8.

TABULATION OF DEATHS IN ELIZABETH CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	1156	622	534	77	87	5	2	2	3	99	11	34	46	74	142	208	226	212	92	12	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	1	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	2	....	2	....	2	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	6	3	3	....	1	....	....	1	....	2	1	....	....	1	....	....	1	1	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	60	41	19	10	....	1	....	....	....	1	....	4	14	8	10	14	8	1	....	....	....
11	Other forms of tuberculosis	4	....	4	....	1	....	....	....	....	1	....	....	....	1	....	1	1	....	....	....	....
12	Syphilis	12	9	3	4	1	....	....	....	....	1	....	....	....	2	....	7	2	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	8	6	2	3	1	....	....	....	1	2	1	2	....	2	....	1	....	....	....	....	....
15	Cancer and other malignant tumors	141	75	66	5	....	....	....	....	....	....	....	....	4	2	18	37	36	38	6	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	15	7	8	1	....	....	....	....	1	1	1	2	....	1	6	4	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	21	9	12	1	....	....	....	....	....	....	....	1	1	1	....	4	9	5	....	....	....
19	Alcoholism (acute or chronic)	3	3	....	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....
20	Other general diseases and chronic poisonings	25	10	15	1	....	....	....	....	....	....	1	2	4	3	8	2	1	2	2	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	113	54	59	6	....	....	1	....	....	1	....	....	1	1	10	19	28	37	15	1	....
23	Other diseases of the nervous system and of the organs of special sense	13	6	7	....	1	....	....	....	....	1	1	1	....	3	2	3	....	2	....	....	....
24	Diseases of the heart	335	175	160	21	....	....	....	....	....	....	1	7	4	15	42	63	79	75	44	5	....
25	Other diseases of the circulatory system	33	14	19	....	....	....	....	....	....	....	....	....	1	....	3	7	3	9	8	2	....
26	Bronchitis	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
27	Pneumonias	91	52	39	7	15	3	1	....	....	19	1	3	....	18	11	8	15	16	5	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	5	2	3	....	....	....	....	....	....	....	....	....	1	....	....	3	....	....	....	1	....
29	Diarrhoea and enteritis	7	5	2	....	4	1	....	....	....	5	....	1	....	....	....	1	....	....	....	....	....
30	Appendicitis	14	8	6	....	....	....	....	1	....	1	1	4	3	1	2	....	1	1	....	....	....
31	Diseases of the liver and biliary passages	25	9	16	2	....	....	....	....	....	....	....	....	....	6	4	6	9	....	....	....	....
32	Other diseases of the digestive system	28	20	8	2	1	....	....	....	....	1	....	1	....	3	7	6	4	3	3	....	....
33	Nephritis	49	23	26	3	....	....	....	....	....	....	....	1	4	2	6	11	9	13	1	2	....
34	Other diseases of the genitourinary system	11	3	8	2	....	....	....	....	....	....	....	1	1	1	....	....	5	2	1	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	2	....	2	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	2	....	2	....	1	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	56	35	21	2	56	....	....	....	....	56	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
40	Suicide	7	6	1	1	....	....	....	....	....	....	....	....	....	....	....	1	4	2	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	60	42	18	5	2	....	....	....	1	3	2	3	6	6	8	6	12	7	6	1	....
43	Cause of death not specified or ill-defined	3	1	2	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....

Estimated population, 122,800. Total resident deaths, 1,156. Rate per 1,000 population, 9.4.

TABULATION OF DEATHS IN LINDEN CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	148	81	67	8	9		2	1	3	15	2	3	7	12	29	26	33	14	6	1	
1	Typhoid and paratyphoid fever																					
2	Typhus fever																					
3	Smallpox																					
4	Measles																					
5	Scarlet fever								1		1											
6	Whooping cough	1	1																			
7	Diphtheria																					
8	Influenza																					
9	Plague																					
10	Tuberculosis of the respiratory system	10	6	4				1			1				3	1	4	1	1			
11	Other forms of tuberculosis	1	1		1												1	1				
12	Syphilis	2	1	1	1																	
13	Malaria																					
14	Other infectious and parasitic diseases															4	6	11	2		1	
15	Cancer and other malignant tumors	24	11	13														1				
16	Tumors, nonmalignant, or of which the nature is not specified	2	1	1					1		1						1					
17	Chronic rheumatism and gout	1	1												1	1						
18	Diabetes mellitus																					
19	Alcoholism (acute or chronic)	5	3	2	1					2	2	1			1	1						
20	Other general diseases and chronic poisonings																					
21	Progressive locomotor ataxia and general paralysis of the insane																					
22	Cerebral hemorrhage, cerebral embolism and thrombosis	5	2	3													1	2	1	1		
23	Other diseases of the nervous system and of the organs of special sense	1		1	1									1								
24	Diseases of the heart	43	26	17									1		4	8	9	11	10			
25	Other diseases of the circulatory system	2		2												1		1				
26	Bronchitis																					
27	Pneumonia	7	4	3	2								1			2	2	1		1		
28	Other diseases of the respiratory system (tuberculosis excepted)	2	1	1											1		1					
29	Diarrhoea and enteritis	2	1	1		2					2											
30	Appendicitis	1	1																			
31	Diseases of the liver and biliary passages	5	1	4														2	1	2		
32	Other diseases of the digestive system	6	3	3								1			1	2	1	1		2		
33	Nephritis	6	3	3											1	1	2			2		
34	Other diseases of the genitourinary system	2	1	1												2						
35	Puerperal septicemia																					
36	Other diseases of pregnancy, childbirth and the puerperal state																					
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion																					
38	Congenital debility and malformations, premature birth and other diseases of early infancy	7	3	4	1	7					7											
39	Senility																					
40	Suicide	3	2	1	1								1		1	1						
41	Homicide																					
42	Violent and accidental deaths (suicide and homicide excepted)	10	8	2						1	1			2	3	1	1	2				
43	Cause of death not specified or ill-defined																					

Estimated population, 26,800. Total resident deaths, 148. Rate per 1,000 population, 5.5.

TABULATION OF DEATHS IN PLAINFIELD CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	404	209	195	46	21	3	2	....	....	26	1	9	21	17	39	71	80	86	48	6	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	1	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	2	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	14	7	7	3	1	....	....	....	....	1	....	2	4	3	2	1	....	1	....	....	....
11	Other forms of tuberculosis	2	....	2	1	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....
12	Syphilis	4	4	....	3	....	....	....	....	....	....	....	....	....	....	2	1	1	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
15	Cancer and other malignant tumors	56	25	31	3	....	....	....	....	....	....	....	....	....	3	6	15	10	12	1	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	3	1	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	1	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	11	5	6	1	....	....	....	....	....	....	....	....	....	....	....	5	5	1	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	7	5	2	1	....	....	....	....	....	....	....	....	1	1	2	1	2	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	36	19	17	6	....	....	....	....	....	....	....	....	....	....	2	6	6	15	7	....	....
23	Other diseases of the nervous system and of the organs of special sense	7	2	5	....	1	....	....	....	....	1	....	1	1	....	1	....	1	1	1	....	....
24	Diseases of the heart	124	67	57	14	....	....	....	....	....	....	....	....	4	3	8	22	23	38	22	4	....
25	Other diseases of the circulatory system	3	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	14	3	11	1	1	....	1	....	....	2	....	1	1	....	1	1	3	4	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	6	4	2	1	2	....	....	....	....	2	....	....	....	....	3	1	....	....	....	....	....
29	Diarrhoea and enteritis	3	1	2	....	1	....	....	....	....	1	....	....	....	2	....	....	....	....	....	....	....
30	Appendicitis	4	3	1	....	....	....	1	....	....	1	....	....	....	....	2	1	....	....	....	....	....
31	Diseases of the liver and biliary passages	10	7	3	....	....	....	....	....	....	....	....	....	1	....	1	2	5	1	....	....	....
32	Other diseases of the digestive system	6	4	2	....	....	....	....	....	....	....	....	....	....	....	1	1	2	2	....	....	....
33	Nephritis	30	14	16	3	....	....	....	....	....	....	....	....	1	1	1	6	6	9	5	1	....
34	Other diseases of the genitourinary system	5	4	1	1	....	....	....	....	....	....	....	1	....	....	....	1	2	....	1	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	2	....	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	14	7	7	3	13	1	....	....	....	14	....	....	....	....	....	....	....	....	....	....	....
39	Senility	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
40	Suicide	4	1	3	....	....	....	....	....	....	....	....	1	1	....	1	....	1	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	33	21	12	4	1	1	....	....	....	2	1	3	6	4	4	5	3	2	3	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 37,400. Total resident deaths, 404. Rate per 1,000 population, 10.8.

TABULATION OF DEATHS IN RAHWAY CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 yea	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	169	87	82	14	7	2	2	....	....	11	....	2	1	6	12	37	30	49	19	2	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	3	2	1	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	....	....
11	Other forms of tuberculosis	1	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	28	10	18	2	....	....	....	....	....	....	....	....	....	....	1	8	6	11	2	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	1	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	3	....	3	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	2	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	5	1	4	....	....	....	....	....	....	....	....	1	....	2	1	1	....	....	....	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	10	5	11	1	....	....	....	....	....	....	....	....	....	....	....	2	3	6	4	1	....
23	Other diseases of the nervous system and of the organs of special sense	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
24	Diseases of the heart	62	33	29	7	....	....	....	....	....	....	....	....	....	....	1	5	12	16	19	8	1	....
25	Other diseases of the circulatory system	4	3	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	2	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	9	6	3	1	2	1	1	....	....	4	....	....	....	2	....	....	....	2	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	3	2	1	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....	....	....
32	Other diseases of the digestive system	6	4	2	....	....	....	....	....	....	....	....	1	....	....	....	4	....	....	1	....	....
33	Nephritis	8	7	1	1	....	1	....	....	....	1	....	....	....	....	1	1	2	3	....	....	....
34	Other diseases of the genitourinary system	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	5	3	2	1	4	....	1	....	....	5	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	4	3	1	....	....	....	....	....	....	....	....	....	....	....	1	3	....	....	....	....	....
41	Homicide	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	8	5	3	1	....	....	....	....	....	....	....	....	....	....	....	3	2	2	1	....	....
43	Cause of death not specified or ill-defined	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....

Estimated population, 18,200. Total resident deaths, 169. Rate per 1,000 population, 9.2.

TABULATION OF DEATHS IN SUMMIT CITY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	152	82	70	13	4	2	....	1	1	8	2	....	1	6	21	20	36	36	20	2	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10	Tuberculosis of the respiratory system	7	6	1	1	....	....	....	....	....	....	....	....	....	1	2	2	2	....	....	....	....
11	Other forms of tuberculosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	18	7	11	2	....	....	....	....	....	....	....	....	....	1	2	3	6	4	2	....	....
16	Tumors, nonmalignant, or of which the nature is not specified	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
17	Chronic rheumatism and gout	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
18	Diabetes mellitus	5	1	4	1	....	....	....	....	....	....	....	....	....	....	....	1	3	1	....	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	3	2	1	....	1	....	....	....	....	1	....	....	....	....	1	....	....	....	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	10	5	5	....	....	....	....	1	....	1	....	....	....	....	....	2	4	3	....	....	....
23	Other diseases of the nervous system and of the organs of special sense	5	1	4	....	....	1	....	....	....	1	....	....	....	....	....	2	....	1	1	....	....
24	Diseases of the heart	43	24	19	3	....	....	....	....	....	....	....	....	1	1	4	5	8	14	9	1	....
25	Other diseases of the circulatory system	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	....	....
26	Bronchitis	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
27	Pneumonias	11	8	3	2	1	1	....	....	....	2	....	....	....	1	2	1	2	2	....	1	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
29	Diarrhoea and enteritis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
30	Appendicitis	5	3	2	1	....	....	....	....	....	....	....	....	....	....	4	....	1	....	....	....	....
31	Diseases of the liver and biliary passages	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
32	Other diseases of the digestive system	2	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....
33	Nephritis	13	5	8	2	....	....	....	....	....	....	....	....	....	....	1	1	7	3	1	....	....
34	Other diseases of the genitourinary system	5	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	2	1	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	1	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	11	5	6	1	....	....	....	....	1	1	1	....	....	1	2	2	....	2	2	....	....
43	Cause of death not specified or ill-defined	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

Estimated population, 16,500. Total resident deaths, 152. Rate per 1,000 population, 9.2.

TABULATION OF DEATHS IN WESTFIELD TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS																
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	198	104	94	22	4	1	2	....	1	8	4	5	5	9	21	40	43	39	21	3	....
1	Typhoid and paratyphoid fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
2	Typhus fever	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
3	Smallpox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
4	Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
5	Scarlet fever	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
6	Whooping cough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
7	Diphtheria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8	Influenza	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
9	Plague	2	1	1	2	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....
10	Tuberculosis of the respiratory system	3	2	1	....	....	....	....	....	....	....	....	....	1	1	....	....	1	....	....	....	....
11	Other forms of tuberculosis	1	....	1	1	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....
12	Syphilis	1	1	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
13	Malaria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14	Other infectious and parasitic diseases	1	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
15	Cancer and other malignant tumors	31	11	20	4	....	....	....	....	....	....	....	....	....	1	8	6	7	7	1	1	....
16	Tumors, nonmalignant, or of which the nature is not specified	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....
17	Chronic rheumatism and gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
18	Diabetes mellitus	5	2	3	....	....	....	....	....	....	....	....	....	....	....	....	1	1	2	1	....	....
19	Alcoholism (acute or chronic)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
20	Other general diseases and chronic poisonings	4	2	2	....	....	....	....	....	....	....	1	....	....	....	....	....	1	1	1	....	....
21	Progressive locomotor ataxia and general paralysis of the insane	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
22	Cerebral hemorrhage, cerebral embolism and thrombosis	15	6	9	....	....	....	....	....	....	....	....	....	....	....	1	5	5	3	1	....	....
23	Other diseases of the nervous system and of the organs of special sense	5	3	2	....	....	....	....	....	....	....	....	1	1	1	....	1	1	....	....	....	....
24	Diseases of the heart	73	45	28	3	....	....	....	....	....	....	....	....	....	2	6	17	16	16	14	2	....
25	Other diseases of the circulatory system	1	....	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
26	Bronchitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
27	Pneumonias	7	3	4	1	....	....	....	....	....	....	....	1	1	1	....	3	....	....	1	....	....
28	Other diseases of the respiratory system (tuberculosis excepted)	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
29	Diarrhoea and enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
30	Appendicitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
31	Diseases of the liver and biliary passages	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
32	Other diseases of the digestive system	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
33	Nephritis	14	4	10	5	....	....	....	....	....	....	....	....	....	....	1	2	7	4	....	....	....
34	Other diseases of the genitourinary system	5	2	3	....	....	....	....	....	....	....	....	....	....	....	....	1	1	3	....	....	....
35	Puerperal septicemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
36	Other diseases of pregnancy, childbirth and the puerperal state	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
38	Congenital debility and malformations, premature birth and other diseases of early infancy	4	3	1	1	3	1	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....
39	Senility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
40	Suicide	4	2	2	....	....	....	....	....	....	....	....	....	....	2	1	1	....	....	....	....	....
41	Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
42	Violent and accidental deaths (suicide and homicide excepted)	14	10	4	2	....	....	2	....	....	2	1	3	2	1	1	1	1	2	....	....	....
43	Cause of death not specified or ill-defined	2	1	1	1	1	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....

Estimated population, 18,700. Total resident deaths, 198. Rate per 1,000 population, 10.5.

TABULATION OF DEATHS IN WARREN COUNTY FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS: Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	615	322	293	9	27	1	1	1	1	31	4	12	16	22	41	91	153	151	83	11	
1	Typhoid and paratyphoid fever																					
2	Typhus fever																					
3	Smallpox																					
4	Measles																					
5	Scarlet fever																					
6	Whooping cough																					
7	Diphtheria																					
8	Influenza	3	2	1													1		1	1		
9	Plague																					
10	Tuberculosis of the respiratory system	13	6	7	1								1	3	3	1	1	3	1			
11	Other forms of tuberculosis	1		1	1									1								
12	Syphilis	5	3	2		1					1				1	1	1	1				
13	Malaria																					
14	Other infectious and parasitic diseases	5	2	3									1	1			1	1	1			
15	Cancer and other malignant tumors	64	37	27											4	6	11	25	13	3	2	
16	Tumors, nonmalignant, or of which the nature is not specified	1		1											1							1
17	Chronic rheumatism and gout	1		1																		
18	Diabetes mellitus	16	2	14	1												3	8	4	1		
19	Alcoholism (acute or chronic)	1		1														1				
20	Other general diseases and chronic poisonings	13	3	10		1					1		1	4	1	2	2	1		1		
21	Progressive locomotor ataxia and general paralysis of the insane	4	2	2													3		1			
22	Cerebral hemorrhage, cerebral embolism and thrombosis	66	29	37	1											1	5	23	22	14	1	
23	Other diseases of the nervous system and of the organs of special sense	3	1	2												1		1	1			
24	Diseases of the heart	205	115	90	2								1	1	2	14	33	48	59	44	3	
25	Other diseases of the circulatory system	12	5	7												1		2	6	3	1	
26	Bronchitis	1		1															1			
27	Pneumonias	42	23	19		6	1				7		2	2	2	1	9	7	7	5		
28	Other diseases of the respiratory system (tuberculosis excepted)	10	7	3	1	1			1		2	1		1	1			3	2			
29	Diarrhoea and enteritis	4	2	2		2					2										1	
30	Appendicitis	3	3													1		1				
31	Diseases of the liver and biliary passages	20	9	11		1					1	1			1	3	4	3	6	1		
32	Other diseases of the digestive system	8	5	3												1	1	2	3	1		
33	Nephritis	48	25	23											2	1	8	15	16	5	1	
34	Other diseases of the genitourinary system	7	5	2												1		4	2			
35	Puerperal septicemia																					
36	Other diseases of pregnancy, childbirth and the puerperal state	1		1											1							
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion	1		1								1										
38	Congenital debility and malformations, premature birth and other diseases of early infancy	14	6	8		14					14											
39	Senility	1		1															1			
40	Suicide	9	5	4											1	5	1	2				
41	Homicide																					
42	Violent and accidental deaths (suicide and homicide excepted)	33	25	8	2	1		1		1	3		6	3	1	3	6	1	6	3	1	
43	Cause of death not specified or ill-defined																					

Estimated population, 51,200. Total resident deaths, 615. Rate per 1,000 population, 12.0.

TABULATION OF DEATHS IN PHILLIPSBURG TOWN FOR 1938, ACCORDING TO THE ABRIDGED INTERNATIONAL LIST OF CAUSES OF DEATH

Abridged International List Number	CAUSE OF DEATH	Total	Male	Female	Color, if other than white	AGE PERIODS															
						Under 1 year	1 year	2 years	3 years	4 years	Under 5 years	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 and over	Unknown
	ALL CAUSES	216	110	106		10			1	1	12	1	3	6	10	11	34	66	51	20	2	
1	Typhoid and paratyphoid fever																					
2	Typhus fever																					
3	Smallpox																					
4	Measles																					
5	Scarlet fever																					
6	Whooping cough																					
7	Diphtheria																					
8	Influenza																					
9	Plague	2	1	1													1		1			
10	Tuberculosis of the respiratory system	4	3	1										1	1			2				
11	Other forms of tuberculosis																					
12	Syphilis	2	2														1	1				
13	Malaria																					
14	Other infectious and parasitic diseases	2	1	1										1				1				
15	Cancer and other malignant tumors	26	14	12											3	2	4	11	4	1	1	
16	Tumors, nonmalignant, or of which the nature is not specified	1		1											1							
17	Chronic rheumatism and gout																					
18	Diabetes mellitus	6	1	5													1	2	3			
19	Alcoholism (acute or chronic)	1		1														1				
20	Other general diseases and chronic poisonings	8	3	5		1					1		1	4			1	1				
21	Progressive locomotor ataxia and general paralysis of the insane																					
22	Cerebral hemorrhage, cerebral embolism and thrombosis	17	7	10													1	5	7	4		
23	Other diseases of the nervous system and of the organs of special sense	2	1	1													1	1				
24	Diseases of the heart	75	42	33									1		2	7	12	21	19	12	1	
25	Other diseases of the circulatory system	1		1														1				
26	Bronchitis																					
27	Pneumonias	18	10	8		2					2				1		5	4	4	2		
28	Other diseases of the respiratory system (tuberculosis excepted)	2	2						1		1							1				
29	Diarrhœa and enteritis	2	1	1		1					1											
30	Appendicitis																	1				
31	Diseases of the liver and biliary passages	6	3	3		1					1	1					1	1	1	1		
32	Other diseases of the digestive system	2	2														1		1			
33	Nephritis	18	7	11											1	1	1	6	9			
34	Other diseases of the genitourinary system	4	3	1														4				
35	Puerperal septicemia																					
36	Other diseases of pregnancy, childbirth and the puerperal state																					
37	Diseases of the skin and cellular tissue, and of the bones and organs of locomotion																					
38	Congenital debility and malformations, premature birth and other diseases of early infancy	5	1	4		5					5											
39	Senility																					
40	Suicide	3	2	1												1	1	1				
41	Homicide																					
42	Violent and accidental deaths (suicide and homicide excepted)																					
43	Cause of death not specified or ill-defined	9	4	5						1	1		1		1		3	1	2			

Estimated population, 20,300. Total resident deaths, 216. Rate per 1,000 population, 10.6.

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