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Annual Report

of the...

Department of

Health

of...

The City of New York

for the...

Years 1910-1911

RECAP



REPORT
OF THE
BOARD OF HEALTH
OF THE
DEPARTMENT OF HEALTH
OF
THE CITY OF NEW YORK



FOR THE
YEARS 1910 AND 1911.

NEW YORK CITY
1912

THE J. W. PRATT CO.,
52-58 Duane Street,
NEW YORK CITY.

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BOARD OF HEALTH.

Commissioner of Health and President of the Board,

ERNST J. LEDERLE, PH. D.

Health Officer of the Port,

ALVAH H. DOTY, M D.

Police Commissioner,

WILLIAM F. BAKER To October 20, 1910.

JAMES C. CROUSEY October 20, 1910, to May 23, 1911.

RHINELANDER WALDO Since May 23, 1911.

General Medical Officer of the Department,

HERMANN M. BIGGS, M. D.

Secretary,

EUGENE W. SCHEFFER.

Secretary to the Commissioner,

CURTIS E. LAKEMAN.

EXECUTIVE OFFICERS.

Sanitary Bureau.

WALTER BENSEL, M. D.,
Sanitary Superintendent.

ALONZO BLAUVELT, M. D.,
Assistant Sanitary Superintendent, Manhattan.

TRAVERSE R. MAXFIELD, M. D.,
Assistant Sanitary Superintendent, Brooklyn.

MARION B. McMILLAN, M. D.,
Assistant Sanitary Superintendent, The Bronx.

JOHN H. BARRY, M. D.,
Assistant Sanitary Superintendent, Queens.

JOHN T. SPRAGUE, M. D.,
Assistant Sanitary Superintendent, Richmond.

JOHN S. BILLINGS, JR., M. D.,
Chief of the Division of Communicable Diseases.

RUSSELL RAYNOR,
Chief Sanitary Inspector.

S. JOSEPHINE BAKER, M. D.,
Director of Child Hygiene.

Bureau of Records.

WILLIAM H. GUILFOY, M. D.,
Registrar of Records.

CHARLES J. BURKE, M. D.,
Assistant Registrar of Records, Manhattan.

SYLVESTER J. BYRNE, M. D.,
Assistant Registrar of Records, Brooklyn.

ARTHUR J. O'LEARY, M. D.,
Assistant Registrar of Records, The Bronx.

ROBERT CAMPBELL, M. D.,
Assistant Registrar of Records, Queens.

J. WALTER WOOD, M. D.,
Assistant Registrar of Records, Richmond.

ROBERT J. WILSON, M. D.,
Superintendent of Hospitals.

WILLIAM H. PARK, M. D.,
Director of Laboratories.

JAMES McC. MILLER,
Chief Clerk.

HONORARY AND CONSULTING OFFICERS.

Medical Advisory Board.

JOSEPH D. BRYANT, M. D.	WILLIAM M. POLK, M. D.
FRANCIS P. KINNICUTT, M. D.	T. MITCHELL PRUDDEN, M. D.
A. ALEXANDER SMITH, M. D.	ABRAHAM JACOBI, M. D.
L. EMMET HOLT, M. D.	JOHN WINTERS BRANNAN, M. D.
GLENWORTH R. BUTLER, M. D.	JOHN A. McCORKLE, M. D.
WALTER B. JAMES, M. D.	

Consultants.

CLARENCE F. CHANDLER, PH. D.	<i>Consulting Sanitarian.</i>
CLARENCE C. RICE, M. D.	<i>Consulting Laryngologist.</i>
GEORGE HENRY FOX, M. D.	<i>Consulting Dermatologist.</i>
ROGER S. TRACY	<i>Consulting Statistician.</i>
DANIEL DRAPER, PH. D.	<i>Consulting Meteorologist.</i>
STEVENSON TOWLE	<i>Consulting Engineer.</i>
ARTHUR B. DUEL, M. D.	<i>Consulting Otologist.</i>
SIMON FLEXNER, M. D.	<i>Consulting Pathologist.</i>

MEDICAL BOARD OF THE WILLARD PARKER AND
RIVERSIDE HOSPITALS.

JOHN WINTERS BRANNAN, M. D., *President.*

HENRY W. BERG, M. D., *Secretary.*

Ex-Officio Members.

The Commissioner of Health.

The General Medical Officer.

The Sanitary Superintendent.

The Chairman of the Board of Governors of the Hospital for Diphtheria
and Scarlet Fever.

Consulting Physicians to the Willard Parker and Riverside Hospitals.

JOHN WINTERS BRANNAN, M. D.

WILLIAM P. NORTHRUP, M. D.

ALBERT T. SWAN, M. D.

Consulting Pathologist,

SIMON FLEXNER, M. D.

Consulting Otologist,

ARTHUR B. DUEL, M. D.

Attending Physicians to the Willard Parker Hospital.

HENRY W. BERG, M. D.

MATTHIAS NICOLL, JR., M. D.

JOSEPH E. WINTERS, M. D.

ALFRED F. HESS, M. D.

LOUIS FISCHER, M. D.

JOHN H. HUDDLESTON, M. D.

HENRY D. CHAPIN, M. D.

RUFUS P. COLE, M. D.

ROYAL S. HAYNES, M. D.

Attending Gynecologist,

WILLIAM E. STUDDIFORD, M. D.

Attending Otologist,

PHILIP D. KERRISON, M. D.

Attending Surgeon,

THOMAS ALLISON SMITH, M. D.

Laryngologist and Intubator,

HENRY L. LYNNAH, M. D.

Bacteriologist,

WILLIAM H. PARK, M. D.

Attending Physicians to the Riverside Hospital.

S. ADOLPHUS KNOPF, M. D.

JOHN H. HUDDLESTON, M. D.

WILLIAM JOSEPH PULLEY, M. D.

BERTRAM H. WATERS, M. D.

ASSISTANT ATTENDING PHYSICIANS TO THE WILLARD
PARKER HOSPITAL.

FREDERICK H. BARTLETT, M. D.	OSCAR M. SCHLOSS, M. D.
B. RAYMOND HOOBLER, M. D.	JEROME S. LEOPOLD, M. D.
ELI LONG, M. D.	JESSE GODFREY M. BULLOWA, M.D.
PHILIP VAN INGEN, M. D.	HENRY S. SATTERLEE, M. D.
JAMES F. NAGEL, M. D.	ARTHUR W. BINGHAM, M. D.
ROYAL S. HAYNES, M. D.	FRANK S. FIELDER, M. D.
(Resigned. Appointed Attending Phy- sician June 20, 1911.)	GEORGE B. WALLACE, M. D.
GODFREY R. PISEK, M. D.	WILLIAM SHANNON, M. D.
	STANLEY BRADY, M. D.

Assistant Attending Laryngologist, Riverside Hospital,

ARTHUR J. HUEY, M. D.

DEPARTMENT OF HEALTH,
CITY OF NEW YORK,
CENTRE AND WALKER STREETS.

NEW YORK, August 30, 1912.

To His Honor

The Mayor of the City of New York.

SIR: On behalf of the Board of Health I have the honor to transmit herewith, as required by Section 1168 of the Charter of the City of New York, a report of all the operations of the Department of Health of the City of New York during the years 1910 and 1911. Certain changes have been made in the form of this report as compared with those of previous years in order to effect condensed statement of the work accomplished, economy in printing, and uniformity with other departmental reports.

Very respectfully,

ERNST J. LEDERLE, PH. D.,
Commissioner of Health.

GENERAL ADMINISTRATION.

The expansion in the scope and activities of the Department of Health which has been a notable feature of the general development of the municipal administration since the formation of the Greater City of New York has continued during the past two years. At the beginning of 1902 the number of employees in the department was approximately 1,000, and the total appropriation for that year was \$1,294,371.11. At the end of 1910 there were 2,466 employees, and at the end of 1911 2,427 employees. The total financial resources of the department were \$3,122,894.18 in 1910 and \$3,874,524.50 in 1911.

REDUCTION OF THE DEATH RATE.

The period under review has seen the establishment of two successive low records in the death rate of New York City, namely, 15.98 per thousand of the population for the year 1910 and 15.18 for the year 1911. A remarkable and continuous decrease in the death rate of the city has accompanied the development of our system of public sanitation. In 1866, the year in which the department was organized, the death rate of New York City was 36.31 per thousand. For the first ten years thereafter it averaged 26.61 per thousand. The figure fell continuously during succeeding decennia, reaching the rate of 18.84 for the ten-year period from 1899 to 1908, and falling to 16.00 for the year 1909. Comparing the death rate of 1910 with that of the first decennium under the organization of the Department of Health, we find a decrease of about 40 per cent., or a decrease of over 50 per cent. if the first and last years of this period are compared.

THE HEALTH OF THE CITY.

In order fairly to compare the health of New York City at the present time with conditions which obtained fifty years ago we are compelled to use the mortality figures of the constituent boroughs where vital statistics have been most carefully kept, namely, those portions of the present city comprised in the Boroughs of Manhattan and The Bronx (the former City of New York) and the Borough of Brooklyn (former City of Brooklyn). If the death rate for this area is tabulated for each year since 1868 it will be seen that there has been a steady fall from 27.90 in 1868 to 16.10 in 1910. If the data be examined more closely, it will be seen that this decrease was limited to deaths from certain diseases and in certain age groups. An enormous reduction in mortality has taken place in all age groups below forty-five, while there has not only been a decline but an actual increase in the mortality at all ages over forty-five.

If for the same period and the same area we tabulate the death rates from principal causes, it is found that there has been a decided reduction in the mortality from smallpox, typhoid fever, diphtheria and pulmonary tuberculosis, while there has been but little change in the mortality from measles, scarlet fever, bronchitis, and a well-marked increase of mortality from pneumonia, cancer, Bright's disease and heart disease.

SUCCESS OF SANITARY ADMINISTRATION.

Without exception, therefore, the diseases in which a reduction of mortality has been effected belong to the class of infectious diseases, while of those diseases in which

GENERAL ADMINISTRATION.

there has been an increase in the mortality only one, pneumonia, belongs to that group, and as to this, a large part of the increase is only apparent, due to a change in the designation of deaths formerly ascribed to bronchitis.

These facts are doubly significant. In the first place they show in an unmistakable manner the success of public sanitary administration which has heretofore directed its efforts almost entirely against infectious diseases. They also point with equal clearness toward the field in which public hygiene must expect its greatest triumphs in the future, namely, the reduction of mortality from the diseases of middle and old age.

Generally speaking, a study of the vital statistics of New York or any community can hardly fail to indicate the enormous advances achieved by sanitary science in the past fifty years. Since the full benefits of the methods and practice of sanitary science are available to any intelligent and well-organized community which will make the necessary expenditures, it may be truly said that within certain limits *public health is purchasable*.

ORGANIZATION.

During 1910 certain changes in the organization of the Department were deemed advisable. The Sanitary Bureau was previously organized in several divisions, each of which, under a centralized plan of control, exercised authority throughout the entire city. While it was believed that this form of organization made for efficiency, it was found on careful consideration to be of doubtful legality in view of Charter provisions assigning an assistant sanitary superintendent to each borough to have charge there of the routine work of the Department. Accordingly the organization of the Sanitary Bureau was modified and the assistant sanitary superintendents have resumed functions more strictly in accordance with the Charter, and now supervise each in his respective borough the contagious disease and general inspection work of the Department. The position and functions of the assistant sanitary superintendents, the assistant registrars of records and the assistant chief clerks in the several boroughs have been more carefully defined so that these officers have full charge of the work and of the employees in their respective bureaus in strict accordance with the letter and spirit of the Charter.

The contagious disease hospitals, consisting of three large groups of institutions in the Boroughs of Manhattan, Brooklyn and The Bronx, constitute a distinct and coherent branch of the service of the Department, facing both the problems of general hospital administration and the peculiar requirements for the proper segregation and treatment of contagious diseases. In recent years the hospital plant has grown materially. It was therefore deemed advisable to give to the Division of Hospitals in effect the rank of a bureau of the Department and the Superintendent of Hospitals now reports directly to the Board of Health through the Commissioner, the work of the hospitals being also subject to the constant advisory oversight of the General Medical Officer.

In like manner the work of the Bacteriological Laboratories having grown of late years into a highly specialized division charged with research into the nature of infectious diseases, the perfection of methods of treatment and the manufacture of antitoxin, sera and vaccines for the cure of these diseases, this division also was assigned the standing of an independent bureau under the supervision of a Director of Laboratories reporting directly to the Commissioner.

EXTENSION OF CIVIL SERVICE PRINCIPLES.

The policy of appointing departmental employees in strict numerical order from the Civil Service lists was not at first applied specifically to the Department of Health; nevertheless, out of several hundred appointments made during the year 1910, less

GENERAL ADMINISTRATION.

than half a dozen cases occurred in which the first person on the list who was willing to accept the position was not appointed. In nearly all of the cases in which an exception was made, the reason was that some employee already in the service might either be retained or promoted.

On November 1, 1910, the Board of Health requested the Civil Service Commission to place in the competitive class fifteen positions previously in the non-competitive class. The approval of this request by the Municipal Civil Service Commission affected 236 individuals attached principally to the hospital service, including 44 drivers, 37 hospital clerks, 94 laborers, 21 firemen, 11 stationary engineers and other similar positions. The non-competitive class now includes practically only those hospital employees who are compelled to come into direct contact with the patients, which positions the Department must always be able to fill at a moment's notice.

Much attention has been directed toward the development of plans for the orderly advancement of employees in the service on the basis of efficiency only. Early in 1910 a committee was formed consisting of the chief executive officers of the several bureaus to advise the Commissioner on matters relating to salaries, promotions and discipline. This committee passes on all applications for increases of salary and on the selection of employees for advancement within civil service grades. In this and other ways, effort has been made to eliminate favoritism and improper influence in making promotions within the Department.

USE OF SUMMONSES.

In November, 1910, the practice of applying for a warrant for the arrest of persons who had violated the Sanitary Code was discontinued, and the Magistrate was requested instead to issue a summons for the defendant to appear. This change was made applicable to those cases in which the defendant had a store, or other place of business, or could be satisfactorily identified, and where there was no reason to suspect that he would not respond to the summons. Persons holding identification cards issued by the Police Department, pursuant to Chapter 659 of the Laws of 1910, were also to be proceeded against by summons instead of by arrest.

OFFAL CONTRACT.

An important economy was effected in the reletting of the contract for the removal of offal and night-soil. On February 11, 1910, this contract was awarded for a period of five years to the lowest bidder, the Products Manufacturing Company, at an annual rate of \$50,000 a year, representing a saving to the city of \$19,880 annually over the former contract rate of \$69,880.

PUBLICATIONS.

On January 1, 1911, the Department began the publication of the Monthly Bulletin and has since revised the form of its Weekly Report. Standard forms of publication of papers by officers of the Department and of reprints of similar papers from medical journals are being devised.

INFORMATION BUREAU.

In 1911 an office was established near the main entrance of the Department building for the more convenient and expeditious handling of the great number of citizens who call at the Department to make complaints, to file applications for permits and to seek information regarding various branches of the work.

GENERAL ADMINISTRATION.

FILING OFFICE.

Commencing in 1911 an improved plan of filing correspondence in one central office in the headquarters building was put in force. This plan has been gradually extended and is intended eventually to include the correspondence, reports and other papers of practically all divisions and offices.

OFFICE OF THE SECRETARY.

The greater part of the routine work of general administration, comprising correspondence, keeping and filing records of Board action, and the issue of permits, notices and orders, together with the many details in connection with accounts and supplies in the Office of the Chief Clerk, comes under the jurisdiction of the Secretary of the Board of Health, whose office constitutes in effect a Bureau of General Administration. The following pages contain a summary statement of the work performed in the office of the Secretary, including the work done under the immediate direction of the Chief Clerk and the Law Clerk, and tables showing the financial resources of the Department:

Searches Made and Transcripts Issued of the Records of Births, Marriages and Deaths.

1910.

	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.	New York City.
Applications for Searches.	29,145	16,964	3,949	1,828	610	52,041
Transcripts signed } Births.	4,600	3,005	257	216	124	8,211
and authenti- } Marriages.	2,967	2,054	75	101	38	5,235
cated. } Deaths.	20,987	13,747	4,170	2,083	571	41,558
Not Found Certificates issued.	4,338	2,688	93	52	24	7,195
Communications received and answered.	5,113	2,021	125	713	168	8,140
Fees received.	\$15,044 60	\$8,525 70	\$1,656 70	\$956 40	\$298 40	\$26,481 80

1911.

	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.	New York City.
Application for Searches.	30,224	19,800	4,041	1,949	672	56,776
Transcripts signed } Births.	4,749	3,040	341	176	95	8,401
and authenti- } Marriages.	3,176	1,805	73	63	51	5,168
cated. } Deaths.	22,526	14,279	4,200	2,576	617	44,198
Not Found Certificates issued.	4,073	2,421	163	107	42	7,406
Communications received and answered.	4,207	2,035	303	568	150	7,263
Fees received.	\$15,381 95	\$8,580 80	\$1,757 90	\$1,098 00	\$320 60	\$27,139 25

ACTION TAKEN BY THE BOARD OF HEALTH ON REPORTS, COMMUNICATIONS, PERMITS, NOTICES AND ORDERS.

	1910.	1911.
Special reports and communications submitted to the Board of Health for action.	760	949
Premises declared a public nuisance.	128	317
Premises ordered vacated.	203	314
Lodging-house permits granted.	140	96
Cow permits granted.	101	73
Miscellaneous permits granted.	9,395	9,848
Permits denied.	3,703	2,735
Permits revoked.	7,486	5,676
Board orders extended or modified.	151	45
Extension or modification of Board orders denied.	503	172
Delayed and imperfect certificates of births, marriages and deaths approved and ordered filed.	3,114	73
Corrected certificates of births, marriages and deaths approved and ordered filed.	888	1,050

GENERAL ADMINISTRATION.

CONTRACTS.

In 1910 93 contracts for supplies were made at a total cost of \$439,701.94; 20 contracts for building construction, building materials, and architect's services were made at a cost of \$122,124.29. During the year many items which had previously been purchased on open market orders were included under contract purchase, namely, horse-shoeing, guinea pigs and rabbits, green groceries and fruits, textiles, furniture, wagons, etc.

In 1911 127 contracts for supplies were made at a total cost of \$493,013.39; 18 contracts for building construction and building materials were made at a cost of \$340,624.40.

NEW BUILDINGS.

The following schedule shows the new buildings and permanent improvements to existing plant for which contracts were let during the two years under review in this report:

Description and Location.	1910.	Cost.
Foundation for two pavilions at Riverside Hospital.....		\$15,955 00
Lighting fixtures for Brooklyn Office Building.....		2,690 00
Erection of two pavilions at Riverside Hospital.....		76,700 00
Steam heating for antitoxin stable at Otisville, N. Y.....		2,038 00
Installation dynamo and electric plant at Otisville, N. Y.....		5,949 00
Total.....		<u>\$103,332 00</u>

Description and Location.	1911.	Cost.
Erection of a measles pavilion at Willard Parker Hospitals.....		\$222,950 00
Extension to boiler house at Riverside Hospital.....		35,164 00
Installation of boilers and pipe tunnel at Riverside Hospital.....		43,000 00
Lighting fixtures for two pavilions at Riverside Hospital.....		3,275 00
Partitions for two pavilions at Riverside Hospital.....		1,820 00
Painting two pavilions at Riverside Hospital.....		645 00
Installation of fire-alarms and equipments—all hospitals.....		7,904 94
Installation of heating systems at Otisville.....		2,246 00
Total.....		<u>\$317,004 94</u>

STATEMENT SHOWING SALE AND DISTRIBUTION OF LABORATORY PRODUCTS.

	1910.	1911.
Stock and ledger accounts at beginning of year.....	\$35,753 99	\$26,909 57
Value of antitoxin received from laboratory	271,860 13	212,412 08
	<u>\$307,614 12</u>	<u>\$239,321 65</u>
Less antitoxin to replace old stock.....	11,723 50	12,678 65
	<u>\$295,890 62</u>	<u>\$226,643 00</u>
Free distribution.....	\$228,187 35	\$172,677 15
Cash	40,245 51	22,544 84
Discounts to agents.....	2,256 65	1,673 19
On sale with agents and ledger accounts..	23,734 16	28,053 02
Stock on hand.....	1,466 95	1,694 80
	<u>\$295,890 62</u>	<u>\$226,643 00</u>

GENERAL ADMINISTRATION.

PREVENTIVE HYDROPHOBIA TREATMENTS.

Amount owing at beginning of year.....	\$8,840 00	\$11,434 00
Treatments reported during year.....	16,182 00	13,205 00
	\$25,022 00	\$24,639 00
Cash receipts during year.....	10,981 00	13,165 00
Amount owing at end of year.....	\$14,041 00	\$11,474 00

VIRUS.

Stock and ledger accounts at beginning of year.....	\$2,220 09	\$2,610 44
Value of vaccine virus from laboratory..	34,672 30	33,776 45
	\$36,892 39	\$36,386 89
Less virus to replace old stock.....	6,283 75	4,234 35
	\$30,608 64	\$32,152 54
Free distribution.....	\$12,898 20	\$12,804 90
Cash	11,243 73	10,299 76
Discount to agents.....	4,581 27	4,010 21
On sale with agents and ledger accounts..	1,645 79	4,618 52
Stock on hand.....	239 65	419 15
	\$30,608 64	\$32,152 54

CORPORATE STOCK ISSUED FOR PERMANENT IMPROVEMENTS.

1910.

Code C.D.H.	18—June 3—Erection of measles pavilion, foot of East 16th street.....	\$200,000 00
“	C.D.H. 7R—June 3—Construction of buildings and improvements of grounds by Departmental labor.....	40,000 00
	Total, 1910.....	\$240,000 00

1911.

Code C.D.H.	3A—Construction of new boiler house and tunnel system at Riverside Hospital.....	\$90,000 00
“	C.D.H. 3B—Construction of dormitory for female help at Riverside Hospital.....	90,000 00
“	C.D.H. 3C—Construction of extension to nurses' home at Riverside Hospital.....	65,000 00
“	C.D.H. 3D—Construction of two concrete pavilions for tuberculosis patients at Riverside Hospital.....	110,000 00
“	C.D.H. 3E—Construction of a concrete pavilion for venereal diseases at Riverside Hospital.....	55,000 00
“	C.D.H. 3F—Construction and improvement of roads on North Brother Island—Riverside Hospital.....	5,000 00
“	C.D.H. 3G—Lighting fixtures, furniture and equipment for two new concrete pavilions at Riverside Hospital.....	15,000 00
“	C.D.H. 5A—Kingston Avenue Hospital—Construction of kitchen building	75,000 00
“	C.D.H. 5B—Kingston Avenue Hospital—Construction of sewer lines, etc.....	25,000 00
“	C.D.H. 7B—Sanatorium at Otisville, N. Y.—Additional water supply and water lines.....	50,000 00
“	C.D.H. 7R—Sanatorium at Otisville, N. Y.—Construction of buildings and improvement of grounds by Department labor	75,000 00

GENERAL ADMINISTRATION.

Code C.D.H. 18—Erection of measles pavilion, foot of East 16th street, Borough of Manhattan.....	\$60,000 00
“ C.D.H. 19A—Construction of an underground tunnel at Willard Parker and Reception Hospitals.....	35,000 00
“ C.D.H. 24—Construction of a hospital for contagious diseases, Borough of The Bronx.....	125,000 00
“ C.D.H. 25—Construction of a hospital for contagious diseases, Borough of Queens.....	125,000 00
Total, 1911.....	\$1,000,000 00

Statement Showing the Total Financial Resources of the Department During the Period from 1902 to 1911.

Year.	Appropriation.	Bond Issue.	Sales of Laboratory Products.	Care and Maintenance of Immigrants.	Total.
1902...	\$984,391 48	\$242,662 50	\$32,048 13	\$35,272 00	\$1,294,374 11
1903...	1,034,391 48	230,600 00	21,432 91	33,726 00	1,320,150 39
1904...	1,109,391 48	429,458 00	28,353 61	24,256 00	1,591,459 09
1905...	1,259,391 48	422,397 88	32,368 32	47,546 00	1,761,703 68
1906...	1,344,396 66	576,257 50	25,638 08	86,580 00	2,032,872 24
1907...	1,847,819 66	409,446 08	34,964 04	96,562 00	2,388,791 78
1908...	2,279,849 50	191,500 00	37,581 03	60,570 00	2,569,500 53
1909...	2,484,859 25	554,275 00	43,491 16	56,090 00	3,138,715 41
1910...	2,747,723 00	316,436 25	62,470 24	146 00	3,126,775 49
1911...	2,823,499 50	1,036,025 00	46,009 60	7,548 00	3,913,082 10

GENERAL ADMINISTRATION.

Department of Health. Comparative Table of Appropriations and Expenditures, 1910 and 1911.

Title.	Appropriation.			Expenditures, 1910.			Expenditures, 1911.		
	1910.	1911.		Salaries.	Supplies.	Total.	Salaries.	Supplies.	Total.
General Administration:									
Office of the Commissioner.....	\$20,100 00	\$18,736 00	\$17,453 98	\$1,082 97	\$18,536 95	\$18,030 00	702 16	18,732 16	
" " Secretary.....	34,060 00	38,500 50	13,034 39	21,920 03	34,963 42	14,804 17	23,573 00	38,377 17	
" " General Medical Officer.....	12,580 00	7,650 00	10,154 92	858 76	11,013 68	7,400 00	249 67	7,649 67	
" " Sanitary Superintendent.....	65,198 27	72,726 00	46,481 97	17,096 66	63,578 63	56,659 94	15,506 73	72,166 67	
Administration and Inspection:									
Bureau of Records.....	64,710 00	66,710 00	62,498 22	2,151 83	64,650 05	62,075 53	2,695 76	64,771 29	
Division of Chief Clerk.....	150,769 98	156,683 28	93,701 95	39,507 70	133,209 65	111,023 47	40,178 20	151,201 67	
" " Child Hygiene.....	330,145 00	345,040 00	338,712 55	4,540 85	343,253 40	336,013 33	4,836 66	340,849 99	
" " Infants' Milk Stations.....	354,579 12	326,910 72	237,596 43	114,044 61	351,641 04	20,575 20	7,592 52	28,167 72	
" " Contagious Diseases.....	365,083 00	349,543 00	314,207 98	*36,441 18	350,649 16	226,687 88	94,314 90	321,002 78	
" " Communicable Diseases.....						299,661 04	*44,803 71	344,464 75	
" " General Sanitary Inspection.....	146,310 00	133,925 00	136,263 14	8,328 60	144,591 74	121,737 42	7,363 51	129,100 93	
" " Food Inspection.....	45,755 00	48,190 00	43,354 68	1,059 50	44,414 18	42,541 39	1,311 04	43,852 43	
" " Milk Inspection, City and County.....	124,750 00	122,185 00	86,365 45	36,970 89	123,336 34	86,267 79	33,783 21	120,051 00	
" " Sanitary Police.....	103,800 00	103,750 00	101,287 49	.....	101,287 49	103,142 52	.....	103,142 52
Laboratories:									
Research and Vaccine.....	102,079 22	143,084 90	66,669 92	32,188 67	98,858 59	93,701 44	46,692 88	140,484 32	
Chemical.....	14,910 00	14,960 00	12,383 69	1,091 56	14,375 25	11,937 50	2,073 56	14,011 47	
Drug.....	34,375 00	37,700 00	8,066 76	*1,001 67	9,068 43	7,799 20	*1,669 35	9,468 55	
Hospitals:									
Willard Parker and Reception.....	208,015 46	211,290 13	121,031 39	*93,349 33	214,380 72	119,141 75	*88,768 66	207,910 41	
Hospital Clinics for Contagious Eye Diseases.....	35,230 00	31,735 28	28,077 35	*5,790 89	33,868 24	26,461 33	*5,168 06	31,629 39	
Riverside.....	243,118 98	246,870 71	106,294 52	*135,169 10	241,463 71	109,027 50	*117,006 60	226,934 19	
Kingston Avenue.....	201,988 53	188,131 58	107,062 86	*94,028 85	201,091 71	106,595 33	*77,282 87	183,878 20	
Tuberculosis Sanatorium, Otisville.....	183,450 10	221,357 80	68,071 92	**138,661 65	206,733 57	76,848 48	**145,184 87	222,933 35	
Totals.....	\$2,862,089 22	\$2,910,490 90	\$2,019,571 56	\$786,794 39	\$2,806,365 95	\$2,059,122 62	\$760,758 01	\$2,819,880 63	

** Transferred from Drug Laboratory.
** Home-grown, \$19,027.36.

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LEGAL WORK.

Certain features of the legal work performed, as usual, by the Corporation Counsel in behalf of the Department of Health are of such interest as to deserve special mention.

Civil Actions.

The important civil actions against physicians and midwives for failure to report births, which actions were instituted in 1910 in larger numbers than for many years, are summarized in the section of this report relating to the Bureau of Records.

In 1910 four actions were instituted against physicians for issuing false birth certificates in violation of Section 162 of the Sanitary Code. Two of the physicians were forced to pay the full penalty of \$50, one paid a penalty of \$25 and one a penalty of \$17.

During 1911 18 such cases were prosecuted, and of this number 13 defendants paid fines ranging from the minimum penalty of \$10 to the maximum of \$50.

In 1910 two complaints were received implicating two undertakers and two cemetery keepers in violation of Section 167 of the Sanitary Code in that the said persons buried or caused to be buried the dead bodies of human beings without first receiving a permit therefor from the Department of Health. Investigation having shown that the defendants were actuated by no criminal motive, a civil prosecution was instituted and the defendants were forced to pay a fine for their neglect and failure to comply with the code.

In 1910 several actions in conversion were instituted to compel the payment of moneys due the Department of Health for laboratory products disposed of by various individuals who had failed to reimburse the Department. These actions were successful and the defendants were compelled to pay the full amount of their indebtedness.

As may be seen from the accompanying table, the total amount of penalties collected during the year 1911 was far in excess of that of any year since consolidation.

Notices and Orders Referred to the Assistant Corporation Counsel for Civil Action.

	CITY OF NEW YORK.	
	1910.	1911.
Notices and Orders Received—		
Pending at beginning of year.....	1,191	1,101
Received and counsel's notices sent.....	16,592	13,583
Total	17,783	14,684
Disposition—		
Complied with before suit.....	16,657	13,583
Suit begun.....	25	29
Pending (without suit) at end of year and awaiting instruction by Department of Health.....	1,101	1,072
Total violations.....	17,783	14,684

Civil Actions Brought by the Assistant Corporation Counsel.

	CITY OF NEW YORK.	
	1910.	1911.
Actions Begun—		
Civil actions pending at beginning of year.....	27	29
Civil actions begun to recover penalties on violations.....	24	29
Other civil actions begun.....	61	291
Judgments vacated.....	14	15
Total suits.....	126	364

GENERAL ADMINISTRATION.

Civil Actions Brought by the Assistant Corporation Counsel—Continued.

	1910.	1911.
Disposition—		
Discontinued, compliance secured.....	88	305
Judgments recovered.....	7	11
Appealed	2	3
Pending at end of year.....	29	45
Total suits.....	126	364
Amount of costs, penalties and judgments collected in civil actions and paid to Secretary of Board.....	\$502 41	\$3,257 00
Amount of claims collected before and after suit for anti-toxin and virus and paid to Secretary of Board.....	\$152 51	

Criminal Actions.

The nefarious practice of selling spirituous liquors containing wood alcohol was the subject of an investigation by the Department of Health in 1910 and resulted in the conviction of five persons in the Court of Special Sessions, Borough of Manhattan, for violation of Section 68, subdivision (h) of the Sanitary Code. These cases are more fully described elsewhere in this report.

In these cases, and in the ordinary prosecutions which have for their purpose the stamping out of adulterations of foods, drugs, medicines, etc., and preventing and abating other serious nuisances which affect the health and welfare of the community, the courts have co-operated with the Department and have imposed the maximum penalty in many instances. The results obtained during the last two years have been very gratifying. It will be seen from the accompanying table that in 1911 three hundred and twenty-three (323) defendants were fined, and the total amount of fines imposed was \$13,170, representing an average fine of over \$40. Comparing this item with that of the year 1910, we find that 482 defendants were fined in 1910 and the total fines amounted to \$9,895, an average of a little over \$20. The courts are now dealing with this class of cases with more severity than heretofore. The excess of fines in 1911 over those of 1910 was \$3,275.

Both in the Court of Special Sessions and in the Magistrate's Courts the figures showing the number of defendants discharged include actions instituted to compel compliance with notices and orders, which actions were subsequently discontinued upon request of the Department, the notices or orders having been found complied with before trial. In 1911, for instance, out of 1,667 discharged in the Magistrates' Courts, 1,110 actions were discontinued by the Department of Health because the requirements had been fully complied with.

Criminal Actions in Magistrates' Courts.

CITY OF NEW YORK.		
	1910.	1911.
Cases—		
Pending at beginning of year in Magistrates' Courts.....	57	79
New cases in Magistrates' Courts.....	6,962	8,661
Total cases.....	7,019	8,740
Disposition—		
Held for Special Sessions.....	859	735
Held for General Sessions.....	27	.....
Discharged	1,629	1,667
Sentence suspended.....	389	595
Jail sentence.....	.....	27
Fined	4,036	5,622
Held for Grand Jury.....	.....	5
Pending at end of year.....	79	89
Total cases.....	7,019	8,740
Amount of fines.....	\$6,823 00	\$15,793 00

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Criminal Actions in Court of Special Sessions.

CITY OF NEW YORK.

	1910.	1911.
Cases—		
Pending at beginning of year.....	141	81
Transferred from Magistrates' Courts.....	859	735
Total cases.....	1,000	816
Disposition—		
Discharged	133	112
Fined	482	323
Sentence suspended.....	270	180
Jail sentence.....	1	9
Referred to Grand Jury.....	7	6
Pending at end of year.....	107	186
Total cases.....	1,000	816
Amount of fines.....	\$9,895 00	\$13,170 00

Decisions.

In the matter of the application of William H. Allen to examine certain records on file in the Department of Health in the City of New York, the Appellate Division of the Supreme Court rendered a unanimous decision in favor of the Department of Health. An extract from the opinion follows:

"This is an appeal from an order of the Special Term granting the application of William H. Allen, a taxpayer, to examine certain records of the Department of Health of the City of New York. The papers sought to be examined are described in six paragraphs, and are apparently those which will show the means and methods adopted by the Department of Health in endeavoring to discover the existence of cases of typhoid fever, the sources of infection and the spread of the infection, as well as the records of all typhoid cases which have come to the knowledge of the Department since May 1st, in a year not stated, but presumably in the year 1911. It is evident that the bulk of the records sought to be examined must be very considerable. The applicant gives no reason of explanation why he desires to inspect these records, or what special interest he has, if any, in making the inspection or what use he expects or intends to make of the information to be obtained therefrom. He stands squarely upon his presumed right as a taxpayer under the statute to be presently quoted, and insists that as such taxpayer he is absolutely entitled to make the desired inspection for any reason or for no reason, and whether or not he has any interest beyond mere curiosity. * * *

"* * * Publicity statutes similar to the one relied upon by the correspondent are common in this country, and they are usually couched in broad terms, but it is generally held that even under such statutes the individual seeking an inspection must show that the information is sought for some legitimate and specific purpose, and that the gratification of mere curiosity, or some speculative purpose will not suffice. What will be deemed a sufficient reason for the examination of any specified records must depend in each case upon its own peculiar circumstances. The Department of Health, whose records relator seeks to examine, differs in many respects from other municipal departments. In consequence of the nature of its duties it becomes the repository of the records concerning the most intimate affairs of the individuals resident within the limits of the municipality, and among these records are doubtless to be found many matters of no real public interest, but which might, if disclosed to whomsoever sought to examine them, be used for sinister or unworthy motives. This was apparent to the learned Justice who made the order appealed from, for in his decision of the motion (although not in the order) he directed that the results of the respondent's examina-

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tion should not be made public without further order of the court. The Legislature also evidently appreciated the evils which might result from indiscriminate publicity of the records of the Department of Health, and left it to the wise discretion of that Department to determine what safeguards and regulations should protect the privacy of its records. * * *

* * * The Department of Health has undertaken to make the regulations provided for in Section 1175, but the relator makes no effort to bring himself within their terms, or to show that as to him they are unreasonably restrictive. Upon the papers as they stand, therefore, which, as has been said, offer no reason why the respondent seeks an inspection, and show no interest in him, legitimate or otherwise, we are of the opinion that he was not entitled to the order appealed from. * * *

In the matter of the application of Emanuele Speciale for a writ of mandamus directed to Ernst J. Lederle as Commissioner of Health of the City of New York, a decision was rendered on November 21, 1910, in favor of the Department. An application to record the birth of a child of the applicant was not accompanied by a certificate of birth signed by the midwife or other medical attendant present at the birth as required by Section 1241 of the New York Charter. It was alleged that the midwife was dead or could not be found. The decision upheld the Department's contention that the requirements of the statute safeguarded public interests and should be observed strictly. In his opinion Mr. Justice Bischoff held that "the Commissioner has no legal authority to enter the record of a birth in such a case as this except upon an application which shall be accompanied by a certificate of a physician or midwife." Holding that for the courts to direct the acceptance of other proof would be to exceed the limit within which judicial interpretation of statutes may proceed, the opinion pointed out that although the facts may present a case of omission "the omission is not of a character which may be supplied by interpretation as distinguished from an attempt to legislate judicially."

In the matter of the Department of Health against Thomas J. Dunn, an appeal was made by the Department from a judgment of a Municipal Court of the City of New York, Borough of The Bronx, Second District, rendered in favor of the defendant. The Appellate Term of the Supreme Court reversed the judgment of the Municipal Court and handed down a decision clearly settling the law that where a child dies within ten days after birth, even though the death certificate may contain most of the essential facts, both a birth certificate and a death certificate must be filed with the Department of Health. The higher court also pointed out that while under the law the Commissioner of Health may excuse the omission, the Municipal Court has no such power nor can it modify or revoke the penalty.

In the matter of the People of the State of New York ex rel. New York, New Haven and Hartford Railroad Company against William R. Willcox, et al., Commissioner of the Public Service Commission, a decision was rendered by the Court of Appeals which determines the relative jurisdictions of the Department of Health and the Public Service Commission in connection with the abatement of nuisances. The decision held that the Public Service Commission of the First District is without power to order a railroad company to abate a local nuisance at its terminal freight yard in the City of New York affecting the public health, but the city has exclusive jurisdiction in matters of local nuisances, and its powers and duties in that respect have not been conferred upon the Public Service Commission, nor has the Commission concurrent jurisdiction with the city.

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LODGING HOUSES.

The supervision of lodging houses is a duty which is especially enjoined upon the Department of Health by the Charter of the City of New York. There are many premises which in reality are lodging houses, but which do not come under the technical provision of Section 21 of the Sanitary Code, which requires lodging houses of a certain character to obtain permits from the Department of Health. During the latter part of 1910 a thorough inspection was begun of all lodging houses in which "persons were lodged for hire for one night or for less than one week." For some years past the question of the proper regulation and sanitary control of lodging houses has been the subject of much discussion and several years ago a set of rules and regulations was tentatively submitted to the Board of Health and after considerable discussion was laid upon the table. No final action was taken until February 7, 1911, when rules and regulations, based upon those just mentioned and also upon existing rules, were adopted, and copies were sent to the owners and managers of all lodging houses in the Borough of Manhattan. These copies were followed in a short time by notices issued against each of the premises and calling attention to a lack of compliance with the new rules. In operation some of the new rules were found to be exceedingly drastic and in many instances it was impossible to comply with them in the existing lodging houses. The Lodging House Keepers' Association employed counsel and laid the matter before the Board of Health, and on the 11th of July, 1911, the Board of Health modified the rules and regulations, granting some of the appeals of the lodging house keepers and denying others. New notices in accordance with the amended rules and regulations were then issued, and during the remainder of the year practically all the lodging house keepers endeavored to comply with these rules and regulations, and at the present time practically all of the lodging houses in the Borough of Manhattan are being conducted in conformity thereto.

Lodging House Inspection.

	1909.		1910.		1911.	
	Permits.	Inspections.	Permits.	Inspections.	Permits.	Inspections.
New York.....	146	1,362	140	800	123	1,505
Manhattan.....	117	1,020	114	636	96	1,204
Brooklyn.....	28	332	25	141	26	260
The Bronx.....	1	10	1	23	1	41
Queens.....	....	....	....	....	....	....
Richmond.....	....	....	....	....	....	....

SLAUGHTER HOUSES.

During 1910 the method of inspection of slaughter houses was essentially the same as during 1909, and on or about the first of March, 1911, as has been customary, special inspections, in addition to the daily routine inspections, were made of all slaughter houses in the Borough of Manhattan, with the object of having them in good sanitary condition before summer, when nuisances are most likely to be created by these premises. In the Boroughs of The Bronx, Queens and Richmond there are no cattle slaughter houses. The slaughter houses in Brooklyn are smaller than those in Manhattan and are situated in three widely separated districts. It must be borne in mind that the by-products and waste products from the slaughtered animals are

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handled by various plants connected with the slaughter houses and that those plants must also be examined and controlled, and furthermore, that when a complaint against a slaughter house is made by persons living at a great distance from it, the complaint does not really refer to the slaughter house itself, but to the disposal plants in connection therewith.

The occasional nuisances arising from slaughter houses are for the most part due to carelessness or to the ineffective operation of the modern machinery and methods which have been introduced to prevent the escape of odors from such plants. These lapses can only be corrected by extraordinary vigilance on the part of the management. The Department of Health is doing its utmost to arouse a proper sense of responsibility in the minds of those engaged in this business, and to present to them the seriousness of these offenses from all points of view, and hopes in this way to insure the best conditions possible in the future. It should be possible to prevent these nuisances without the necessity of the Department making a regular and costly detail for this purpose from its small force of sanitary inspectors. In some cases it has been necessary to declare certain slaughter houses public nuisances in order to force them to operate in a proper manner. It has been the policy of the Department to bring actions when these nuisances persist.

In June, 1911, a continuous detail of inspectors was inaugurated in both slaughter house districts, with instructions to trace any offensive odors which might be attributed to the slaughter houses or disposal plants, and to notify the responsible person of the existence of these odors. The inspectors were also to ascertain the defects causing the odors and to see that such defects were immediately remedied. This detail was continued until the latter part of November. The squad consisted of six inspectors and formed a very considerable proportion of the entire force of inspectors available for duty in the Borough of Manhattan and, in consequence, the total number of inspections made in Manhattan during 1911 was much lower than for any year of a number of years previous. During the time that this detail was in existence no serious nuisances arose from the slaughter houses and no complaints against them founded upon fact were received by the Department.

FAT RENDERING.

On the 21st of March, 1911, Section 95 of the Sanitary Code relating to this industry was amended in a number of particulars, the most important amendment requiring that the site on which the fat-rendering plant was to be erected must be approved by the Board of Health before a plant could be constructed. In 1910 all the permits to render fat were rescinded, and the operators of the various plants were directed to make application for the renewal of their permits subject to the approval of the site, plans and specifications of their establishments. The object of this action was to have all such permits on a yearly basis.

POULTRY SLAUGHTER HOUSES.

Much attention has been paid to the supervision of poultry slaughter houses which, unless kept scrupulously clean, become serious nuisances. Frequent, and in some instances daily, inspections of these establishments were made in the Borough of Manhattan, with the result that very few complaints were received during the year 1911.

HOMELESS ANIMALS.

For a number of years there has existed in the City of New York an association, the province of which has been to collect homeless animals, more especially cats and

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dogs, and to find homes for them. This association has sometimes been most unfortunate in the places it has selected as collecting stations, and the result has been that this Department has received many complaints of the noise and odors emanating therefrom. In every instance in which one of these homes was established it became necessary, sooner or later, for the Board of Health to declare the premises a public nuisance and to order the removal of the animals. On March 21, 1911, Section 81a of the Sanitary Code was adopted, providing that no shelter or home for homeless animals should be established until after the proposed site had been approved by the Board of Health, and that no institution of this character should be conducted without a permit from this Department. Since the adoption of this section the home in Manhattan has been maintained in an isolated district without becoming a nuisance or provoking complaints.

MOSQUITO PREVENTION.

During the spring and early summer of 1910, a large amount of work was done by district inspectors, especially in The Bronx and in Brooklyn, in the endeavor to exterminate mosquitoes. Vacant lots were cleaned, graded and drained in order to destroy the smaller breeding places and to reduce the nuisance caused by mosquitoes to a minimum. This was in addition to the work accomplished by the sanitary engineer in the draining of marsh lands and salt meadows. This and the work performed in 1911 is summarized in the accompanying table:

*Table Showing Progress of Mosquito Prevention and Extermination Work.
April 1, 1908, to December 31, 1911.*

Location.	Total Acreage.	Acres Drained.	Acres Undrained.	Lineal Feet of Ditches Dug.	Orders Issued.	Orders Complied With.
Borough of The Bronx (salt marsh and inland pools).....	2,868	2,020	848	697,837	421	416
Borough of Queens:						
Little Neck (salt marsh).....	125	125	0	15,562	12	12
Bayside and Douglaston (salt marsh)	200	200	0	75,300	48	48
Flushing (salt marsh).....	2,200	2,170	30	781,390	195	194
Kissena Park (inland).....	50	0	50	0	0	0
Powell's Cove (salt marsh).....	40.50	40.50	0	Filled	3	3
Woodside or Train's Meadow (inland).....	200	200	0	55,218	15	15
Maspeth or Newtown Creek (salt marsh).....	134	134	0	28,706	10	10
Fort Totten (salt marsh).....	8	8	0	2,684	2	2
Jamaica (from Borough line to City line) (salt marsh).....	3,198.77	2,538.23	660.54	509,889	231	152
Middle Village (inland).....	40	{ Work in progress	{ Work in progress	{ Work in progress	}	3
Dutchkills and Ravenswood (inland).....	40	{ Work in progress	{ Work in progress	{ Work in progress		
Bayside (inland).....	80	40	40	5,000			10	6
Borough of Brooklyn (salt marsh).....	4,000	32	3,968	29,979	15	5
Bath Beach (inland).....	0	0	0	0	1	0
Sheepshead Bay (inland).....	0	0	0	0	1	0
Far Rockaway.....	1,968	0	1,968	0	0	0
Summary—Totals.....	15,152.27	7,597.73	7,564.54	2,201,565	969	863

SCREENING OF ROOF TANKS.

On May 9, 1911, Section 62a of the Sanitary Code was adopted. This section requires that every roof water tank shall be covered with a tightly fitting cover or with a fine mesh screen to prevent access of mosquitoes. Upon the adoption of this section all roof tanks were immediately inspected and the necessary notices issued. At about the same time an inspection was made of all places within the Borough of Manhattan where water might collect and stagnate, and orders and notices were issued requiring that such water be either removed or its surface covered with oil. During

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the spring and early summer of 1911 a number of complaints were received in regard to the condition of the ponds and lakes in Central Park. The Commissioner of Parks also wrote to the Department of Health requesting an examination of the ponds, especially the pond situated on 100th street near Eighth avenue. He was advised by the Commissioner of Health to employ oil at once, and a Sanitary Engineer of the Department of Health was delegated to aid him.

PREPARATION AND HANDLING OF FOODSTUFFS.

During the last few weeks of the year 1910 and in January and February, 1911, in conjunction with the Division of Food Inspection, inspections were made of places within the Boroughs of Manhattan and The Bronx in which foodstuffs were prepared, stored or offered for sale. This examination included restaurants, slaughter houses, wholesale preserving and pickle factories, bakeries and markets. In all instances in which unsanitary conditions were detected the necessary notices or orders were issued. In the case of bakeries, which are under the jurisdiction of the State Department of Labor, that department was notified when unsanitary conditions were discovered. The bakeries were again inspected in July and November, 1911, but during the November inspections, as conditions remained unchanged, the Department of Health assumed jurisdiction, declared all bakeries conducted under unsanitary conditions public nuisances, and ordered a number vacated as follows:

	Manhattan		Brooklyn		Bronx		Queens		Richmond		New York	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Bakeries ordered vacated (Sec. 1299, Charter).....	...	58	...	30	...	11	...	1	...	...	...	100
Bakeries declared public nuisances (Sec. 1176, Charter).....	...	85	4	129	...	7	...	14	...	...	4	235
Total.....	335

An inspection was also made of all cellars in the Borough of Manhattan in which ice was stored or sold, and notices and orders were issued remedying all nuisances or conditions detrimental to health which were found to exist.

OYSTERS.

Early in the summer of 1910 an attempt was made to systematize and tabulate the information in the possession of the Department relating to oysters. Three inspectors were assigned to investigate the conditions associated with the collection of oysters, their preparation for the market and their sale in the City of New York. A systematic investigation of the various sources of supply was undertaken and especial attention was paid to the character of the so-called "drinks" in which oysters are freshened or "fattened" before being shipped to the city. A map of various localities, showing all possible sources of contamination, was prepared; chemical and bacteriological examinations of the waters were made and the customers of the various producers were listed. In short, an effort was made to place the supervision of the oyster industry upon a practical basis.

SMOKE NUISANCE.

Upon investigation of complaints it was found that a dense discharge of smoke was in most instances due to careless or improper methods employed in burning waste

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material and, in the vast majority of these cases, a simple warning sufficed to prevent a recurrence of the nuisance. In other cases, notices were issued and their provisions enforced in the usual manner. In addition to the investigation of complaints received from citizens, original investigations were instituted by the Department, with the result that notices were issued throughout the city as is shown in the following table:

Investigations in Relation to Smoke Nuisances During the Years 1910 and 1911.

	1910.	1911.
Total investigations.....	1,939	2,102
Number returned for notices or orders.....	899	948
Duplicates	100	147
No cause for action.....	899	907
Referred to other Departments.....	41	100
Inspectors	1,883	2,040
Sanitary police.....	56	62

SMOKING AUTOMOBILES.

Early in the year 1910 numerous complaints were received regarding the amount of smoke discharged by automobiles, and as a result Section 181 of the Sanitary Code was amended on June 28, 1910, to prohibit the discharge of dense smoke from motor vehicles. At first the drivers of automobiles emitting smoke merely received a warning, but later they were required to return to their garages and make such repairs or alterations as might be necessary, in the presence of a patrolman. In the latter part of September instructions were issued to the Health Squad to enforce this section by making arrests or by issuing summonses.

Criminal Actions Brought on Account of Smoking Automobiles.

	June 28, 1910, to Dec. 31, 1910.	1911.
Arrests and summonses.....	788	2,957
Fined	674	2,847
Sentence suspended.....	57	37
Discharged	53	69
Pending	4	4
Amount of fines.....	\$1,808	\$9,325

SUMMER CAMPS.

As a result of the activities of the Department in former years, the problem of tent life was not a serious one. All the large so-called "tent cities" have been properly equipped with water supply, privy accommodations and means for the disposal of refuse. During 1910 an inspector was especially detailed to supervise the camp life and bathing establishments on the Rockaway peninsula and another to supervise those in the Borough of Brooklyn. Very few complaints, however, were received by the Department. In The Bronx in 1911 much time was devoted to the camps during the summer months; special attention was paid to the privy accommodations and to the removal of refuse, the object being to do away, so far as possible, with breeding places for flies, and thus to diminish the danger of the introduction of intestinal diseases into these camps. During 1911 the immense increase in the camping on Staten Island made it necessary for the Department of Health to enact very rigid measures. Campers were required to submit plans and specifications of their camps, and to provide sanitary closets and proper receptacles for garbage, the latter being subsequently destroyed. The tents were inspected and were kept under supervision during the whole period of the summer months. No permits were issued for the maintenance of camps until the same were in proper condition and an adequate amount of potable water had been properly distributed throughout the camp. The old custom of open

GENERAL SANITARY INSPECTION.

privy vaults in inaccessible places was done away with, each camp being required to provide proper privy accommodations.

BATHING ESTABLISHMENTS.

Bathing establishments may be roughly divided into two classes, namely, tide-water baths, which are in use during but a few months of the year, and the so-called public baths which are scattered throughout the city. During the summer months the inspectors who supervised the "camp cities" in the Boroughs of Brooklyn and Queens were required to make frequent inspections of the bathing establishments operated in connection with the "camp cities" or upon the beaches immediately adjoining. The provisions of the Sanitary Code relating to life-saving appliances were rigorously enforced, and before a permit to maintain a bathing establishment was granted it was in every instance required that the proper apparatus for the sterilization of bathing suits and towels should be installed.

DISPOSAL OF REFUSE.

The wagons engaged in the removal of refuse are all operated under permits issued by the Department of Health. These permits, whenever issued, expire with the calendar year and are subject to revocation at any time for a violation of their provisions. The police patrolmen of the Health Squad are required to exercise constant supervision over these wagons. In 1910 and 1911 permits were granted as follows:

	Manhattan		Brooklyn		Bronx		Queens		Richmond		New York	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Ashes.....	592	619	96	110	3	5	...	7	1	1	692	742
Fat and bones.....	220	195	24	65	14	16	59	64	6	7	323	347
Rotten eggs.....	11	14	...	...	...	...	...	...	...	...	11	14
Garbage.....	104	99	...	2	...	2	5	15	2	...	111	118
Grease.....	51	52	2	3	...	...	2	2	...	...	55	57
Manure.....	756	683	122	237	107	114	272	371	263	333	1,520	1,738
Offal and oyster shells.....	4	9	...	...	...	...	...	...	...	...	4	9
Scavenger.....	...	...	409	465	450	440	2,661	2,491	824	713	4,314	4,109
Sweepings.....	85	62	...	...	...	...	...	...	96	89	181	151
Swill.....	46	45	...	...	19	18	3	3	1	4	69	70

BARREN ISLAND.

In the spring and early summer of 1910 the Department was obliged to take action in regard to offensive odors arising from the disposal plants on Barren Island. In addition to a sanitary inspector detailed to Barren Island, another inspector was located on the Rockaway peninsula. This inspector was instructed to keep an accurate daily memorandum of the weather conditions and of the hours of the day when offensive odors traceable to Barren Island could be detected. This additional supervision was continued until the first of November, and whenever offensive odors were detected the matter was brought to the attention of the operators of the plants.

PUBLIC WATER SUPPLIES.

In March, 1910, a complete sanitary survey was made of all the streams in the Borough of Queens from which water is obtained to supply the Borough of Brooklyn. In every instance in which unsanitary conditions were discovered a notice or order was issued by the Department of Health or the matter was referred to the authorities

GENERAL SANITARY INSPECTION.

or department having jurisdiction. These notices and orders were all complied with within a reasonable length of time.

PUBLIC DRINKING CUPS.

On March 21, 1911, the Board adopted Section 189 of the Sanitary Code, to take effect October 1, 1911, forbidding the use of a common drinking cup in any public place or in any public institution, hotel, theatre, factory, public hall or public school, or in any railroad station or ferry-house in the City of New York, and also forbidding the furnishing of such common drinking cup in any such place.

SPITTING AND SMOKING.

During 1910 the Health Squad paid special attention to the enforcement of Section 178 of the Sanitary Code, which prohibits spitting in public conveyances, ferry-boats and public places, and of Section 187, which prohibits smoking in the subway. The subway officials have always given active co-operation in this campaign by causing appropriate signs to be posted forbidding the offense. From time to time special details of police have been assigned to the work of apprehending offenders, and the publicity which resulted from prosecuting these cases in court has had considerable deterrent effect.

NOISE FROM MOTOR BOATS.

On July 12, 1910, the Board of Health adopted a new section of the Sanitary Code requiring that all boats or other water craft plying on any of the waters adjacent to the city and equipped with gasoline engines shall be so constructed that the exhaust from such engine is made to discharge into a muffler or other device which will prevent loud or explosive noises. No person having the management and control of any such boat or operating the engine thereon shall permit the exhaust from such engine to discharge into the open air, otherwise than through such muffler or device.

REGULATIONS FOR STORING AND TRANSPORTING MANURE.

Recent scientific studies have given increasing evidence of the transmission of typhoid fever and other diseases through the agency of flies. During 1910 Section 97 of the Sanitary Code, which prescribes in detail the manner in which manure and stable refuse accumulating within the city limits shall be collected and disposed of, was further amended so as to require that such material, pending its final disposition, be adequately screened or otherwise protected or covered so that flies cannot have access thereto. This ordinance was adopted to prevent the breeding of flies, which takes place rapidly in stored manure.

LEACHING CESSPOOLS.

Section 37 of the Sanitary Code as formerly in force required that the sides and bottoms of all vaults and cesspools must be impermeable and secure against any saturation of the walls and ground above. Experience showed, however, that in certain sections of the city, notably in the Borough of Brooklyn and in the sandy regions near Coney Island, it was physically impossible to build and maintain watertight cesspools. On April 13, 1910, this section was amended so as to provide that leaching cesspools might be constructed and used when the local conditions rendered this necessary, under special permits issued by the Board of Health. The issuance of such a permit takes place only after an examination of the surrounding premises has shown that no nuisance or danger to health will result and when it is further shown that a watertight cesspool cannot be built.

GENERAL SANITARY INSPECTION.

Division of General Sanitary Inspection—Number and Nature of Items Investigated and Action Taken During the Year 1910.**

CITY OF NEW YORK.

Nature of Complaints.	Number of Items Investigated.	Returned for Orders or Notices.	Duplicates.	No Action.	Referred to Other Departments.	Investigations by Inspectors.	Investigations by Sanitary Police.
Alleys in { cleaning Areas } need { draining or Shafts } paving Yards	37,541	10,557	670	23,577	2,737	28,983	8,558
Animals kept without permit.	13,895	5,519	310	7,404	662	10,904	2,931
Apartments need cleaning or ventilating.	31,567	7,165	472	21,633	2,297	25,345	6,222
Barber shops do not comply with rules and regulations.	1,448	1,326	12	103	7	1,443	5
Ceilings or walls need cleaning, whitewashing or repairing.	38,792	10,139	550	25,412	2,691	30,639	8,153
Cellars need cleaning, cementing or draining.	24,836	5,942	420	16,184	2,290	20,615	4,221
Cellars inhabited contrary to law, or apartments overcrowded.	6,284	658	75	4,825	726	6,042	242
Cesspools need cleaning or repairing.	3,527	1,784	112	1,452	179	3,502	25
Chimneys need cleaning or repairing.	7,892	1,009	135	5,862	896	7,701	191
Defective drainage.	17,212	4,191	384	10,860	1,777	16,385	827
Excavations or vacant lots need cleaning, draining, repairing or fencing.	3,956	1,663	213	1,851	229	1,960	1,900
Floors need cleaning or repairing.	41,719	12,902	612	25,506	2,699	32,233	9,486
Gas mains or pipes need repairing.	8,669	459	114	7,279	817	8,583	80
Garbage or ash receptacles need to be provided, removed or cleaned.	21,610	5,351	330	14,343	1,886	16,005	5,545
Halls or stairways need cleaning or repairing.	26,026	5,181	417	18,347	2,081	20,147	5,579
Ice boxes need cleaning or draining.	6,121	2,560	56	3,298	207	4,520	1,601
Lighting needed in dark halls or rooms.	7,535	663	105	5,770	1,057	7,208	327
Manure dumps.	997	427	38	497	35	968	29
Offensive trades.	6,171	1,809	141	3,934	287	4,218	1,953
Plumbing needs cleaning, repairing, trapping or removal of obstructions.	29,972	8,943	556	17,946	2,527	27,579	2,393
Pipes need cleaning, disinfecting or repairing.	2,741	1,653	72	907	109	2,673	68
Public conveyances.	90	8	4	83	4	85	54
Roofs or roof drains need cleaning or repairing.	20,049	4,638	332	13,238	1,841	18,320	1,729
Smoke nuisance.	1,939	890	100	899	41	1,883	56
Stables should be cleaned, repaired, drained or removed.	2,759	1,579	143	936	101	2,664	155
Water closets need cleaning, repairing, or to be provided.	23,143	6,809	391	13,771	2,172	20,976	2,107
Water tanks or cisterns need cleaning or repairing.	4,065	1,406	90	2,980	489	4,402	563
Total.	391,465	105,180	6,844	248,897	30,544	326,303	65,162

** This table refers to complaints finally disposed of during the year and does not include items pending at the end of the year.

GENERAL SANITARY INSPECTION.

Division of General Sanitary Inspection—Number and Nature of Items Investigated on Citizens' and Inspectors' Complaints and Action Taken During the Year 1911.**

CITY OF NEW YORK.

Nature of Complaints.	*Number of Items Investigated.	Valid and Returned for Notices.	Duplicates.	†No Cause for Action.	Referred to Other Departments.	Inspectors.	Sanitary Police.
Alleys in { cleaning Areas { draining need { paving of Yards	33,817	8,395	680	21,852	2,890	26,021	7,796
Animals kept without permit	13,277	4,930	245	7,947	1,955	11,030	2,247
Apartment houses need cleaning or ventilating	27,690	4,859	464	19,240	2,567	22,373	4,687
Barber shops do not comply with rules and regulations	981	888	10	21,883	6	26,870	5
Ceilings or walls need cleaning, whitewashing or repairing	33,175	8,688	557	21,548	2,982	26,844	6,331
Cellars need cleaning, cementing or draining	29,863	4,670	359	13,353	2,451	17,599	3,205
Cellars inhabited contrary to law, or apartments overcrowded	5,345	783	75	3,617	571	5,014	331
Cesspools need cleaning or repairing	3,306	1,950	139	1,358	168	3,188	148
Chimneys need cleaning or repairing	8,849	867	214	6,310	1,318	8,749	109
Defective drainage	16,083	4,469	464	9,514	1,930	15,415	668
Excavations or vacant lots need cleaning, draining, repairing or fencing	3,675	1,499	189	1,746	241	4,227	1,408
Floors need cleaning or repairing	35,027	10,224	612	21,850	2,941	28,585	7,042
Gas mains or pipes need repairing	7,534	617	140	5,630	1,135	7,451	83
Garbage or ash receptacles need to be provided, removed or cleaned	19,259	3,699	298	13,484	1,868	14,825	4,434
Halls or stairways need cleaning or repairing	21,167	3,671	357	14,980	2,150	17,670	3,491
Ice boxes need cleaning or draining	5,006	2,678	45	2,594	289	3,659	1,367
Lighting needed in dark halls or rooms	6,400	543	96	4,631	1,130	6,177	223
Meanwhile dumps	806	348	16	404	38	700	46
Offensive trades	5,229	1,651	210	3,170	192	3,614	1,615
Plumbing needs cleaning, repairing, trapping or removal of obstructions	25,488	7,963	567	14,388	2,570	24,333	1,135
Purifiers need cleaning, disinfecting or repairing	174	1,501	48	867	124	2,520	80
Public conveyances	174	116	2	47	9	153	21
Roofs or roof drains need cleaning or repairing	16,902	3,440	330	11,181	1,951	15,662	1,210
Smoke nuisances	2,102	948	147	907	100	2,049	62
Stables should be cleaned, repaired, drained or removed	2,903	1,679	93	1,004	127	2,750	147
Water closets need cleaning, repairing, or to be provided	19,551	5,245	409	11,508	2,289	18,728	823
Water tanks or cisterns need cleaning or repairing	5,821	1,779	119	3,359	564	5,743	78
Total	343,000	85,374	6,912	216,753	33,961	294,088	48,912

* By both citizens and inspectors.

† Either no cause for complaint or cause of complaint removed without issuance of notice.

** This table refers to complaints finally disposed of during the year and does not include items pending at the end of the year.

GENERAL SANITARY INSPECTION.

Sanitary Inspection—Complaints, Notices and Orders.

NEW YORK.	1910.			1911.**		
	General Sanitary Inspection.	Milk.	Total.	General Sanitary Inspection.	Milk.	Total.
Complaints:						
Complaints pending at beginning of year.....	301	2	303	171	....	171
Citizens' complaints received during year.....	34,045	587	34,632	36,192	77	36,269
Citizens' complaints received from other divisions.....	4,557	90	4,647	3,055	44	3,099
Inspectors' complaints filed during year.....	18,208	711	18,919	16,049	151	16,200
Total.....	57,111	1,390	58,501	55,467	272	55,739
*No cause for action.....						
Duplicates.....	18,407	471	18,878	18,480	70	18,550
Complaints referred to other divisions.....	1,550	1	1,551	1,754	....	1,754
Complaints found valid and referred to other departments.....	62	9	71	446	2	448
Complaints found valid and returned for notice or order.....	5,077	....	5,077	6,039	....	6,039
Complaints pending at end of year.....	31,844	909	32,753	28,327	200	28,527
	171	....	171	421	....	421
Notices:						
Notices and orders pending at beginning of year.....	1,450	15	1,465	1,533	38	1,571
Notices and orders issued during year.....	32,457	891	33,348	29,338	198	29,536
Total.....	33,907	906	34,813	30,871	236	31,107
Notices and orders complied with before legal action.....						
Notices and orders complied with after legal action.....	31,410	859	32,269	28,012	221	28,233
Notices and orders rescinded.....	672	5	677	1,132	15	1,147
Pending at end of year.....	296	....	296	601	....	601
	1,529	42	1,571	1,126	....	1,126
Total.....	33,907	906	34,813	30,871	236	31,107
Number of civil actions.....	8	....	8	1	....	1
Number of criminal actions.....	704	....	704	1,237	....	1,237

* Either no cause for complaint, or cause for complaint removed without issuance of notice.

† Legal action; arrest, summons, or civil action begun.

** For the first two quarters of 1911 only; for the last two quarters see the Division of Food Inspection report.

GENERAL SANITARY INSPECTION.

Dead Animals, Offal and Night Soil Ordered Removed—1910 and 1911.

	New York.		Manhattan.		Brooklyn.		The Bronx.		Queens.		Richmond.	
	1910.	1911.	1910.	1911.	1910.	1911.	1910.	1911.	1910.	1911.	1910.	1911.
Carcasses Removed:												
Large Animals:												
Horses.....	20,552	19,921	10,340	9,534	6,224	6,158	1,776	1,691	1,656	1,895	556	543
Mules.....	7	8	2	2	.....	3	1	.....	.....	1	3	2
Donkeys.....	6	8	5	1	.....	5	1	1	.....	.....	1	1
Cattle.....	40	31	28	22	8	15	2	2	2	3	.....	2
Ponies.....	12	27	11	6	.....	15	.....	1	.....	.....	.....	2
Cattle.....	209	359	74	200	19	31	10	19	86	75	20	34
Other large animals.....	10	12	.....	9	9	2	.....	.....	1	1	.....	.....
Total large animals.....	20,836	20,366	10,460	9,874	6,261	6,216	1,790	1,714	1,745	1,978	580	584
Small Animals:												
Calves.....	788	981	773	963	7	9	.....	1	6	2	2	6
Sheep.....	177	236	175	236	.....	.....	.....	.....	2	.....	.....	.....
Goats.....	109	134	16	20	54	78	.....	.....	32	28	7	8
Pigs.....	89	.....	84	.....	2	.....	.....	.....	.....	.....	3	.....
Pigs.....	1	124	.....	112	.....	5	.....	.....	.....	.....	.....	.....
Cats and dogs from streets.....	136,160	124,788	99,172	89,700	17,295	14,858	11,536	11,898	1,867	1,898	1	4
Cats and dogs from A. S. P. C. A. Shelter.....	305,390	350,242	221,414	249,657	82,181	98,693	.....	.....	.....	.....	6,434	6,434
Other small animals.....	2	7	2	.....	.....	6	.....	.....	.....	.....	1,795	1,892
Total small animals.....	442,716	476,512	321,636	349,688	99,539	113,649	11,536	11,899	1,907	1,931	8,068	8,345
Total all animals.....	463,552	496,878	332,096	359,562	105,800	119,865	13,326	13,613	3,652	3,909	8,678	8,929
Quantity of Meat, Offal, etc., Removed:												
Pounds of meat.....	42,350	11,025	36,750	11,025	5,600	.....	.....	.....	.....	.....	.....	.....
Pounds of poultry.....	98,100	128,115	98,100	128,115	.....	.....	.....	.....	.....	.....	.....	.....
Pounds of rabbits.....	.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pounds of fish.....	2,243,413	662,350	1,585,680	327,750	657,733	629,600	.....	.....	.....	.....	.....	15
Pounds of offal.....	3,285,607	3,685,600	2,127,340	2,429,200	1,158,267	1,256,400	.....	.....	.....	.....	.....	.....
Total pounds.....	5,669,470	4,487,105	3,847,870	2,601,090	1,821,600	1,886,000	.....	.....	.....	.....	.....	15
Quantity of Night Soil Removed:												
Cubic yards of night soil removed..	1,946	1,802	.....	.....	794	630	.....	.....	1,152	1,172	.....	.....

GENERAL SANITARY INSPECTION.

Sanitary Inspection—Notices and Orders Disposed of.

	Number of Notices and Orders Disposed of.		Disposed of Within 30 Days				Disposed of Within 60 Days				Not Disposed of Within 60 Days			
			1910.		1911.		1910.		1911.		1910.		1911.	
	1910.	1911.	No.	Per Cent.	No.	Per Cent.	No.	Per Cent.	No.	Per Cent.	No.	Per Cent.	No.	Per Cent.
New York.....	32,946	29,380	25,015	75.92	23,078	78.55	5,604	7.00	4,271	14.53	2,327	7.06	2,031	6.91
Manhattan.....	15,950	13,942	14,359	90.03	12,465	89.40	1,272	7.97	1,134	8.13	319	2.00	343	2.46
Brooklyn.....	8,662	8,152	5,980	69.04	5,755	70.60	1,897	21.90	1,692	20.76	785	9.06	705	8.64
The Bronx.....	4,075	2,666	2,397	58.82	1,860	69.76	1,190	29.20	501	18.79	488	11.97	305	11.44
Queens.....	3,367	3,914	1,798	53.40	2,599	66.40	992	29.46	770	19.67	577	17.13	545	13.93
Richmond.....	892	706	481	53.92	399	56.51	253	28.37	174	24.65	158	17.71	133	18.84

GENERAL SANITARY INSPECTION.

Summary of Public Nuisance and Vacation of Premises Orders Issued by the Board of Health During the Year 1910.

	New York		Manhattan		Brooklyn		The Bronx		Queens		Richmond	
	Public Nuisance	Vacation	Public Nuisance	Vacation	Public Nuisance	Vacation	Public Nuisance	Vacation	Public Nuisance	Vacation	Public Nuisance	Vacation
Number of orders issued.....	158	164	34	34	82	63	18	29	24	37	...	1
Number complied with.....	132	133	31	32	66	40	14	27	21	34	...	1
Number not complied with.....	26	31	3	2	16	23	4	2	3	3	...	...
Of those not complied with on Dec. 31, 1910:	9	11	2	1	5	9	1	1	1	1	...	1
Work in progress.....	17	20	1	1	11	14	3	2	...	3	...	...
Of those work not in progress on Dec. 31, 1910:	7	14	...	...	6	10	...	2	1	2	...	...
Vacant.....	4	5	...	1	2	3	...	1	1	1	...	...
Order partly complied with.....	6	1	1	...	3	1	2	...	...	...	...	...
Nothing done.....												

Summary of Public Nuisance and Vacation of Premises Orders Issued by the Board of Health During the Year 1911.

	New York		Manhattan		Brooklyn		The Bronx		Queens		Richmond	
	Public Nuisance	Vacation	Public Nuisance	Vacation	Public Nuisance	Vacation	Public Nuisance	Vacation	Public Nuisance	Vacation	Public Nuisance	Vacation
Orders issued.....	345	287	108	149	196	103	13	19	27	14	1	2
Complied with.....	203	190	55	102	121	64	6	10	20	12	1	2
Not complied with.....	142	97	53	47	75	39	7	9	7	2	...	...
Of those not complied with on Dec. 31, 1911:	121	80	50	41	58	29	6	8	7	2	...	...
Work in progress.....	21	17	3	6	17	10	1	1	...	...	...	...
Of those work not in progress on Dec. 31, 1911:	3	5	...	2	3	3	...	...	...	...	...	...
Vacant.....	1	2	...	1	2	...	...	...	...	...	...	...
Order partly complied with.....	16	11	3	3	12	7	1	1	...	...	...	...
Nothing done.....												

FOOD AND MILK INSPECTION.

Early in 1911 the work of food inspection and that of milk inspection were organized for practical purposes as a single division under the general charge of a Chief of Division, reporting directly to the Sanitary Superintendent. Numerous changes and improvements in the details of organization and in the methods of work have been effected, and this branch of the service has been raised to a higher plane of efficiency.

CONTROL OF FOODS.

The force of food inspectors has not been increased, although the work required keeps pace with the growth of the city. The inspectors have been assigned as in former years to districts, inspecting foodstuffs as offered for sale in the stores throughout the city. Special inspectors have also been assigned to the various wholesale markets and slaughter houses, and so far as possible inspections have been made of the packing, canning and preserving houses where foodstuffs are prepared in bulk for the market. More arrests were made in 1911 than in any year heretofore. Out of 1,616 arrests 1,339 convictions were secured, resulting in 11 jail sentences and \$7,959.50 in fines.

NEW EMPHASIS ON PROSECUTION.

Realizing that the Department could never adequately inspect the 21,698 retail establishments and 5,384 wholesale establishments where food is prepared and sold in the City of New York with the extremely small force of 30 inspectors, the Commissioner determined early in 1910 to throw greater emphasis on prosecutions in order that the work of the inspectors might bring the greatest possible results. The former practice was to place great reliance on condemnation of food unfit for consumption which the inspectors found in stores and restaurants. This procedure was not very effective, since the offender suffered only the loss of the material condemned, and was soon ready to take chances again. When the inspectors began actively to make arrests and bring the offenders before the Court of Special Sessions each proprietor of a food establishment was given a forcible incentive to become his own inspector and prevent violations of the food laws in the conduct of his business. The courts have rendered invaluable assistance to the Department by their conscientious consideration of these cases, and it is believed that great improvement in the control of the general food supply of the city has resulted.

EXPOSURE OF FOODS.

On April 27, 1910, Section 56 of the Sanitary Code was amended to strengthen the prohibition of the sale of confectionery, fruits and other foodstuffs in any street or public place unless they be kept so covered as to be protected from dust. Under the former section of the code this prohibition applied to "breadstuffs, cakes, pastry, dried and preserved fruits, candies or confectionery." The revised ordinance prohibits in addition the sale of sliced fresh fruits and other perishable food products except those that are peeled, pared or cooked before consumption. With many thousands of small dealers and push-carts throughout the city the Department found it difficult with the small sanitary company of police to enforce this section and asked for the co-operation of the Police Department. During 1911 1,007 arrests were made and \$1,504 collected in fines.

FOOD AND MILK INSPECTION.

REGULATION OF THE SALE OF EGGS.

The business of selling eggs, not only in the natural state but also when canned, frozen or dried, is one which in late years has required increasing supervision by the public authorities. Eggs in a certain stage of decomposition, though unfit for food, still have a certain value for manufacturing purposes, particularly in connection with the tanning of leather. There are many gradations between the perfectly fresh egg and the egg which is no longer fit for human food. In connection with the several processes of breaking out eggs to be sold in liquid or dried form, there is opportunity for the use by unscrupulous dealers of eggs that could not be sold for human consumption in the shell. While bacteriological studies have shown that from a strictly scientific standpoint there is perhaps no very great danger to the public health from this source, it is nevertheless true that the sale for food purposes of eggs which are fit only for the manufacture of tanner's yolk constitutes an imposition upon the public and upon the public sense of decency, which calls for stringent action by the public authorities. On May 18, 1910, the Board of Health adopted a new section of the Sanitary Code (Section 48a) providing that "No person shall break out eggs for sale or conduct the business of breaking out eggs to be canned, frozen, dried or used in any other manner in the City of New York, and no eggs broken from the shell, whether canned, frozen, dried or treated in any other manner, shall be received, held, kept, sold, offered for sale or delivered in the City of New York without a permit from the Board of Health." Further provisions are that (a) "No person shall receive, hold, keep, sell or offer for sale or deliver, as or for food, or to be used in food, in the City of New York, any canned, frozen or dried eggs, or eggs broken from the shell, which are adulterated or to which has been added any poisonous ingredient or any ingredient which may render such eggs injurious to health, or to which has been added any antiseptic, preservative or foreign substance not evident and not known to the purchaser or consumer, or which shall contain filthy, decomposed or putrid animal matter." (b) "No person shall receive, hold, keep, sell or offer for sale or deliver in the City of New York any eggs known as 'spots,' except in cases which shall be plainly and indelibly labeled at both ends with the printed words 'Spot Eggs' with block letters at least two inches high and one and one-half inches wide, with no intervening marks or lettering between the words or letters composing the words. A record of such eggs and the disposition thereof shall be kept as required by the rules and regulations of the said Board of Health. The term 'Spots' and 'Spot Eggs' when used herein means all unsound eggs, including those affected by moulds, partly decomposed, broken yolked, blood-ringed or veined, partially hatched, sour, or eggs the shells of which are so broken or cracked that the contents are leaking therefrom."

Prosecutions of Egg Dealers.

	1910.	1911.
Cases brought.....	5	64
Acquitted	1	5
Sentence suspended.....	1	4
Sentenced to prison.....	..	4
Fined	3	51
Amount of fines.....	\$225 00	\$3,599 00

BAKERIES.

Special attention has been paid to all places in the city where foodstuffs are sold, particularly bakeries, with special reference to unsanitary conditions. During the early part of June, 1910, an inspection was made of the bakeshops in the various Boroughs. The raw material and the prepared foodstuffs were examined, and where unsanitary conditions were found reports were submitted to the Division of General Sanitary

FOOD AND MILK INSPECTION.

Inspection. The inspectors of that Division investigated these cases and in a vast majority of instances it was discovered that the conditions complained of were violations of the provisions of the labor law, the enforcement of which is vested in the State Department of Labor. Proper references were made in each instance to that department. In instances where violations of the Sanitary Code were found the requisite notices or orders were issued. In the latter part of 1911, in spite of the fact that 2,355 inspections had been made, conditions were again found to be such as to call for drastic action by the Board of Health, and many "public nuisance" and "vacation" orders were issued.

CANNED GOODS.

The Department took action in 1911 to put an end to a practice which had grown up among wholesale grocers of returning "swelled" can goods to the manufacturer after these cans had been condemned by the inspectors. On investigation it became apparent that a valuation of no mean proportion was placed on such goods by the manufacturers, they being willing to pay freight on the returned cans in order to look them over and doubtless utilize an appreciable portion of the material. The Department insisted that this practice be stopped and swelled can goods are now actually condemned and destroyed. This action occasioned vigorous protest from the wholesale grocers and canners, and several hearings were held, but the decision of the Department was not changed. In 1911 1,259,305 pounds of canned goods were condemned and destroyed.

DRUGS.

On August 16, 1910, Section 69 of the Sanitary Code, which prohibits the manufacture or sale of adulterated or misbranded drugs, was amended to provide that a drug shall be deemed misbranded, in addition to previous definitions, "if the package or label bear any statement, design or device regarding the ingredients or regarding their action on diseased conditions, which statement, design or device shall be false or misleading in any particular."

On August 26, 1910, Section 182 of the Sanitary Code, which prohibits the sale at retail of cocaine or salt of cocaine except upon a physician's prescription, was amended to include under the same prohibition the sale of morphine or the salts of morphine. A further amendment was made on February 7, 1911, to specify in fuller detail the narcotic drugs which it was intended to prohibit from sale under this section.

WOOD ALCOHOL.

During 1910 the practice of selling spirituous liquors containing wood alcohol was the subject of an investigation and action by the Department, which resulted in the conviction of five persons in the Court of Special Sessions for violation of Section 68 (subdivision) of the Sanitary Code. The matter was first brought to the attention of the Department by the physicians of the New York Eye and Ear Infirmary, at which institution, at various times, persons becoming blind had applied for treatment. The sudden development of the blindness and the number of persons so afflicted caused the officials of the institution to investigate as to the probable cause. It was found that the blindness was confined to persons addicted to the use of spirituous liquors who were in the habit of partaking of liquors commonly known as "White Whiskey," "Weisse Schnapps" and "Cherry Liquor."

The inspectors detailed by the Department to investigate the complaints of the Eye and Ear Infirmary purchased quantities of the liquor in question and forwarded them to the Chemical Laboratory for analysis. The chemists making the analysis found "wood alcohol" present in quantities sufficient to be deleterious or detrimental to health.

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The persons engaged in selling the liquors in question were arraigned in the Magistrates' Court charged with violating Section 68 (subdivision [h]) of the Sanitary Code, and were held under bail for trial in the Court of Special Sessions. Upon the trial of the defendants severe penalties were imposed amounting to \$150 each in three cases and \$100 each in the remaining two cases.

SLAUGHTER HOUSES.

During 1910 and 1911 the attention of the Department was confined to those slaughter houses that were not provided with Federal supervision.

Improved methods of inspection were instituted. Instead of a lay inspector looking over all the carcasses and condemning such as he found unfit for food, this inspector is now required after inspecting all carcasses and parts of carcasses to hold those parts which in his opinion are in any way questionable for final examination by a qualified veterinarian, who makes the actual condemnation if necessary. The justice of this system to all concerned is apparent.

Stock yards, as well as certain slaughter houses, are under supervision, the inspectors and veterinarians being present on shipping days. In 1911 534,923 pounds of meat were condemned in stock yards and abattoirs.

BOB VEAL.

By a special agreement with the Federal Bureau of Animal Industry and the State Department of Agriculture the "bob veal" industry has been kept under rigid supervision. Where the meat is found within city limits this Department acts, but where interstate shipments have been made the cases are turned over to the Federal authorities, the inspectors of this Department co-operating by serving as witnesses. Similar action was taken with cases falling under the jurisdiction of the State Department of Agriculture. In one case brought in Auburn, N. Y., the offender was sentenced to a year in prison and a fine of \$500. Another offender in New York City was sentenced to six months in prison and a fine of \$250.

SULPHITES IN MEAT.

To prevent the use of sulphite of soda or other sulphites for preserving purposes in chopped meat and other foods, a large number of samples of various foodstuffs were taken and submitted to the Chemical Laboratory for analysis. In cases where the food was found to be adulterated the matter was presented to the criminal courts.

COLD STORAGE AND WHOLESALE PLANTS.

Extensive inspections and condemnations of foodstuffs in cold-storage plants have been made during 1911, and particular attention has been paid to wholesale houses of food supply. With the small number of inspectors available, the Department has been obliged, as in previous years, to confine itself to the supervision of the great food distributing centers. For this reason regular inspections are also made of goods arriving on trains and at terminals, and of cargoes on incoming steamers. The auction rooms, where large quantities of goods received in this manner are disposed of, have also been carefully inspected, with the result that great quantities of food have been condemned.

FOOD AND MILK INSPECTION.

Inspection and Condemnation of Meat.

	Year 1910.			Year 1911.		
	Inspections.	Condemnations.	Pounds Condemned.	Inspections.	Condemnations.	Pounds Condemned.
New York.						
Butcher shops.....	70,941	317	20,429	22,694	486	27,517
Stores.....	25,429	114	19,906	9,177	185	28,495
Packing houses.....	4,520	58	55,710	992	6	865
Ice houses.....	16,617	165	48,704	7,843	172	31,345
Stands.....	51,310	108	2,549	15,285	654	83,327
Vessels.....	598	8	206,465	726	4	901
Markets.....	2,935	1,008	167,320	1,185	174	25,076
Railroad depots.....	1,012	40	18,445	456	51	30,660
Stock yards.....	3,916	234	168,283	766	701	198,399
Slaughter houses.....	12,534	3,494	1,140,992	5,349	8,036	339,699
Commission houses.....	7,581	110	30,655	16,312	1,603	139,156
Fat houses.....	804	.....	.....	666	.....	.....
Licensed vendors.....	33,984	41	1,314	4,892	20	3,193
Cow sale stables.....	I	.....	.....	40	.....	.....
Total.....	231,282	5,697	1,880,772	86,383	12,092	908,633

FOOD AND MILK INSPECTION.

Inspection and Condemnation of Fruit, Fish and Other Foods.

New York.	Year 1909.			Year 1910.			Year 1911.		
	Inspections.	Condemnations.	Pounds Condemned.	Inspections.	Condemnations.	Pounds Condemned.	Inspections.	Condemnations.	Pounds Condemned.
Commission houses.....	64,779	1,888	1,166,793	90,518	3,301	3,547,629	45,778	1,606	3,545,840
Retail stores.....	60,686	1,052	269,129	60,595	704	516,110	44,986	2,595	362,682
Licensed vendors.....	104,257	1,380	219,753	127,437	1,022	208,051	37,977	512	36,029
Vessels and wharves.....	12,261	1,208	17,847,255	10,654	1,191	13,310,227	8,674	941	8,354,063
Railroad depots.....	456	211	384,215	1,157	357	615,308	1,199	156	333,396
Stands.....	88,357	3,090	136,913	180,367	2,380	203,995	104,162	1,931	151,298
Markets.....	1,823	463	703,390	8,097	987	1,899,248	4,443	299	141,402
Ice houses.....	430	37	161,857	783	29	115,205	1,339	35	100,351
Pushcarts.....	137,018	8,936	186,707	160,794	8,934	263,609	144,321	10,825	95,947
Total.....	470,067	18,265	21,076,012	640,402	18,905	20,679,382	392,879	18,900	13,121,008

FOOD AND MILK INSPECTION.

Pounds of Meat Condemned and Destroyed.

CITY OF NEW YORK.

	1910							
	Beef.	Veal.	Sheep.	Hogs.	Assorted Meats.	Poultry.	Game.	Total.
Butcher shops.....	2,798	2,815	736	1,065	8,762	4,211	42	20,429
Stores.....	569	115	160	2,997	14,084	1,749	232	19,906
Packing houses.....	50,150	100	200	4,135	1,125	.....	.....	55,710
Ice houses.....	27,063	546	485	4,306	13,065	1,449	1,790	48,704
Stands.....	820	550	.....	25	451	703	.....	2,549
Vessels.....	186,225	.....	18,480	.....	1,550	200	10	206,465
Markets.....	10,621	16,187	605	631	10,676	126,800	1,800	167,320
Railroad depots.....	.....	3,267	.....	25	350	14,693	110	18,445
Stock yards.....	59,600	61,333	15,650	22,350	250	9,100	.....	168,283
Slaughter houses.....	348,033	153,377	10,608	155,807	454,243	18,924	.....	1,140,992
Commission houses.....	50	7,153	125	.....	6,535	16,605	187	30,655
Fat houses.....	.....	.....	.....	.....	.....	.....	.....	.....
Licensed venders.....	.....	.....	.....	50	300	364	600	1,314
Cow sale stables.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	685,929	245,443	47,049	191,391	511,391	194,798	4,771	1,880,772

	1911							
	Beef.	Veal.	Sheep.	Hogs.	Assorted Meats.	Poultry.	Game.	Total.
Butcher shops.....	5,358	1,091	257	3,122	9,376	7,884	429	27,517
Stores.....	1,566	145	523	3,586	20,645	2,030	.....	28,495
Packing houses.....	.....	.....	.....	400	465	.....	.....	865
Ice houses.....	8,403	1,480	985	6,109	10,523	3,745	100	31,345
Stands.....	7,092	5,380	830	1,452	1,672	66,054	847	83,327
Vessels.....	.....	.....	.....	255	.....	646	.....	901
Markets.....	750	3,664	120	130	548	19,864	.....	25,076
Railroad depots.....	18,815	4,197	4,950	300	130	2,268	.....	30,660
Stock yards.....	106,579	51,898	11,330	21,851	6,716	25	7	198,39
Slaughter houses.....	149,217	49,067	375	9,963	127,090	3,217	770	339,699
Commission houses.....	3,583	14,065	1,289	5,109	16,022	85,247	13,841	139,156
Fat houses.....	.....	.....	.....	.....	.....	.....	.....	.....
Licensed venders.....	.....	.....	.....	.....	.....	3,193	.....	3,193
Cow sale stables.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	301,363	130,987	20,659	52,277	193,187	194,173	15,987	908,633

FOOD AND MILK INSPECTION.

Pounds of Fruit, Fish and Other Foods Condemned and Destroyed.

CITY OF NEW YORK.

	1910								Total.
	Fruit.	Vegetables.	Canned Goods.	Confectionery.	Groceries.	Eggs.	Fish.	Miscellaneous.	
Commission house. . .	1,052,494	1,930,773	125,820	45,760	19,844	69,179	284,725	19,034	3,547,629
Retail stores.	73,312	124,724	16,691	39,572	249,071	4,561	6,247	1,932	516,110
Licensed vendors. . . .	61,715	44,071	2,000	.. . .	.. . .	50	100,215	.. . .	208,051
Vessels and wharves. . .	10,472,122	2,652,027	31,491	.. . .	43,560	1,730	74,875	34,422	13,310,227
Railroad depots.	33,630	580,550	243	.. . .	.. . .	250	520	115	615,308
Stands.	32,466	136,156	750	148	25	350	34,100	.. . .	203,995
Markets.	193,265	1,704,565	373	.. . .	.. . .	.. . .	1,045	.. . .	1,899,248
Ice houses.	3,120	550	.. . .	53,800	.. . .	8,940	42,375	6,420	115,205
Pushcarts.	215,251	26,731	38	477	15	15	20,972	110	263,609
Total.	12,137,375	7,200,147	177,406	139,757	312,515	85,075	565,074	62,033	20,679,382

	1911								Total.
	Fruit.	Vegetables.	Canned Goods.	Confectionery.	Groceries.	Eggs.	Fish.	Miscellaneous.	
Commission house. . .	696,517	1,513,459	958,526	64,696	144,211	29,278	91,736	47,417	3,545,840
Retail stores.	23,597	36,069	193,450	21,171	34,934	5,100	18,448	29,853	362,682
Licensed vendors. . . .	18,763	11,293	6	52	.. . .	1,990	3,920	.. . .	36,029
Vessels and wharves. . .	7,530,381	687,091	50,332	500	49,560	2,021	17,633	16,545	8,354,063
Railroad depots.	65,660	264,005	3,046	15	.. . .	.. . .	670	.. . .	333,306
Stands.	29,196	20,943	22	873	23,645	107	76,412	100	151,298
Markets.	5,139	9,083	1	.. . .	.. . .	.. . .	126,954	225	141,402
Ice houses.	25	.. . .	53,664	.. . .	665	33,689	12,300	8	100,351
Pushcarts.	65,955	25,257	318	449	200	540	2,474	754	95,947
Total.	8,435,233	2,567,200	1,259,365	87,756	253,215	72,785	350,547	94,907	13,121,008

FOOD AND MILK INSPECTION.

MILK INSPECTION.

The plans of the Department for the improvement in the sanitary control of the city's milk supply, which have been under development since January 1, 1910, are the most radical and important since the establishment of milk inspection in New York in the early 80's, and no subject has received more effective consideration during the period covered by this report.

PASTEURIZATION.

During the past three years the course of events has furnished striking proof of the need of pasteurization of all except special grades of milk. By means of a well-organized system of inspection, based on the issue of permits to ship and sell milk in New York City, the Department is in a position to trace the history and source of all milk brought into the city, and is thereby enabled to undertake satisfactory detective work in determining the causes of given outbreaks of infectious disease due to contaminated milk. Studies carried out in this manner have proved beyond reasonable doubt that since August, 1909, at least two extensive outbreaks of typhoid fever in the city were caused by the infection of particular milk supplies from chronic bacillus carriers. In the case of one outbreak traced to Camden, N. Y., the infection came from a dairyman who had had typhoid fever in Wisconsin in 1863. The subsequent history of his family showed that the disease had attacked nearly every member of his household, including farm laborers who had worked with him from time to time. Bacteriological examinations in 1909, forty-six years after he had had the disease, resulted in the development of almost pure cultures of typhoid fever bacilli.

DANGER FROM "TYPHOID CARRIERS."

The necessity of extraordinary precautions, particularly in the case of largycites, to guard the milk supply against such danger is self-evident. Typhoid bacillus carriers are not the rare phenomena they were formerly supposed to be, and the presence of even one of these unfortunate persons in the great army of workers engaged in producing and handling the milk supply of a large city is a source of danger which is the more threatening and insidious because it is so impossible to detect by ordinary means. To insure the safety of milk from such infection would require repeated bacteriological examinations of every individual connected with the production, transportation and marketing of the milk. There are, perhaps, three hundred thousand persons who stand in this relation to the milk supply of New York City, and a recent estimate of the relative frequency of bacillus carriers gives reason for the belief that there are at least one hundred such individuals among this number. No matter how many inspectors of dairies, creameries and stores the Department might employ, no matter how perfectly organized the system of permits and information as to the source of milk, these forces alone cannot protect the health of the city.

On March 23, 1910, the General Medical Officer presented to the Board a report dealing with the newly understood source of danger to the milk supply and strongly advising the adoption of measures to secure the extension of pasteurization. On consideration of this report the Board of Health thereupon adopted the following resolution:

Resolved, That it is the sense of this Board that milk used for drinking purposes should be either properly pasteurized or boiled unless it is what is technically known as certified, guaranteed or inspected milk.

In order to bring this advice home to the people of the city, the Department

FOOD AND MILK INSPECTION.

caused to be posted in all places in the city where milk is sold a printed notice reading as follows:

FOR INFANT FEEDING USE CERTIFIED OR GUARANTEED MILK OR BOTTLED PASTEURIZED MILK.

IF YOU USE OTHER BOTTLED MILK, OR ANY MILK FROM CANS, IT SHOULD BE EITHER BROUGHT TO A BOIL OR PASTEURIZED AT HOME BEFORE FEEDING IT TO THE BABY.

With this emphatic announcement of its policy the Department took up the work of formulating a plan for the enforcement of pasteurization of all except special grades of milk, to be put into effect as soon as practicable.

CLASSIFICATION OF MILK.

As developed, this plan also included the cognate object of grading the milk sold in New York. It was believed that an ordinance requiring all dealers to begin pasteurization at once would be unenforcible, in view of physical problems involving many difficulties, the installation of new equipment the adjustment of trade conditions and the change of long accustomed routine. Moreover, it was thought that the problem could be better solved by establishing a classification of the milk which should provide for the sale of both raw and pasteurized grades, but under such high requirements for raw milk as to bring about the gradual but inevitable adoption of pasteurization by the majority of dealers. Such a grading system, moreover, would constitute in itself an important advance by classifying milk according to its intended use and would thus make possible greater economy and efficiency in the work of its inspection and control, as well as giving the consumer, through the requirement of appropriate labeling of bottles and cans, a far more accurate idea of what he was purchasing.

On January 31, 1911, the Board of Health decided that the time had come for a definite announcement that after January 1, 1912, the pasteurization of all except special grades of milk would be required.

At the same time the Department announced the general outline of its plan for grading the milk supply. The intention was to warn the public and dealers that beginning in 1912 the Department proposed to adopt extraordinary measures to improve the sanitary quality of the city's milk. Nearly a year was then devoted to working out the details of the proposed grading plan, during which time the dealers had full knowledge of the general purpose of the Board. During the fall of 1911 conferences with representative milk dealers and producers and associations and individuals interested in the milk question were held, and every detail of the proposed new rules and regulations was carefully gone over. On December 30, 1911, the Board approved and announced the following system of grading, this action to be followed shortly by the necessary changes in the Sanitary Code and a general revision of the rules and regulations relating to the sale of milk.

GRADING PLAN.

Grade A. For Infants and Children. This grade includes (1) certified milk or guaranteed milk; (2) inspected milk, which is raw milk produced from tuberculin-tested cows at farms obtaining at least 75 points on the official score card of the Department of Health; this milk must contain an average of more than 60,000 bacteria per c.c. when delivered to the consumer; (3) selected milk pasteurized; milk of this grade must be produced at farms which score at least 60 points and must not contain more than an average of 50,000 bacteria per c.c. when delivered; no milk averaging more than 200,000 bacteria per c.c. shall be pasteurized for sale under this designation.

FOOD AND MILK INSPECTION.

Grade B. For Adults. This grade includes a selected raw milk, which must be produced at farms scoring at least 68 points and from cows which have been physically examined by a regularly qualified veterinarian at least once each year. All other milk to be sold under Grade B must be pasteurized under the regulations of the Department.

Grade C. For Cooking and Manufacturing Purposes Only. This includes raw milk not conforming to the requirements of Grade A or Grade B. Milk of Grade C may not be sold at retail from stores, but must be sold to restaurants, hotels and manufacturing plants only.

The sale of condensed or concentrated milk is also allowed under special permit.

TYPHOID FEVER PREVENTION.

In view of the seriousness of the danger of milk infections from "typhoid carriers," the Department has endeavored to improve its methods of detecting infection of the milk supply. By means of the system of permits the Department is in a position to discover very quickly where a suspected lot of milk came from. More than this, by means of a system of accounting the Department is constantly keeping track of the number of cases of typhoid occurring among the customers of each milk company selling milk in the city. As soon as any one concern appears to have an undue number of cases of typhoid fever among its customers a very searching investigation is at once begun. Accurate information is collected to determine whether the source of the infection was in the city or in the country. If in the country several of the regular inspectors are at once ordered by telegraph to investigate the suspected creameries, and if a likely source of infection is discovered the milk from that point is at once shut out or ordered to be pasteurized. Owing to the long time elapsing between the time of infection and the date of onset and the additional time required to establish the diagnosis, it is impossible by this method to entirely prevent milk infections. This has been repeatedly illustrated in this city in the past, in which, despite the very prompt work on the part of the Department, large outbreaks of milk-borne infections have occurred.

On January 1, 1911, an additional set of records was started in connection with milk inspection. Reports of examinations of milk taken either for chemical or bacteriological examination are now reported and classified so that it is possible by the inspection of a series of filing cards to ascertain at once the quality of the milk supply of any particular dealer throughout the entire city for any given period of time; or so that it is possible to ascertain within the same length of time the same information in reference to any particular locality within the city.

DAIRY INSPECTION.

The work of dairy inspection during the first half of the year showed that the result of such inspection during the preceding years was the reconstruction of old stables and other buildings essential to the dairying industry and the building of new stables where such were found necessary. It was therefore considered that the time had arrived for calling the attention of milk producers to the far greater importance which attaches to the methods employed in the production and handling of milk than to the provision of expensive equipment. It was furthermore considered important to bring home these facts to the dairymen at first hand rather than to follow up the inspection merely by a routine form letter.

NEW SCORE CARD.

With these two objects in view a new dairy score card was devised and put in use, on which the items pertaining to equipment and construction were separate and distinct from those applying to the method of production. The latter items were now

FOOD AND MILK INSPECTION.

accorded a total score of sixty points as against forty points for construction, thereby calling attention to the great importance of cleanly methods. This score card was so prepared for use as to enable the inspector to make a carbon copy of his original report, to be left with the dairyman whose premises were reported upon, thus giving opportunity for a complete understanding of each item adversely criticized and for the inspector to advise the dairyman whenever his advice was requested.

INCREASED BACTERIOLOGICAL EXAMINATIONS.

After this duplicate score card had been in use for a few months it was decided to further emphasize the greater importance of cleanly methods by making bacteriological examinations of the samples of milk as actually delivered by each individual dairyman, in order that indications of improper methods as shown by high bacterial counts might be investigated at the dairy and the cause ascertained. With this end in view, four of the country inspectors were given a course of instructions in taking samples for bacteriological examination and were then detailed to take such samples at the creameries in regular rotation. It was not found difficult to establish a certain bacterial standard for the milk so examined, and the names of all dairymen whose milk had been found to contain a higher bacterial content than set by this standard were immediately sent to the district inspectors in order that a thorough investigation might be made, the cause of the high counts ascertained and advice given toward the correction of faulty methods.

It was found that the work of this Bacteriological Squad had an added value, in that the assignment required the presence at the creamery of the inspector taking samples during the entire procedure involved in a day's work. He was required to be on hand when the creamery opened early in the morning, in order that the milk from each dairyman might be separately sampled as delivered. After all of the milk had been received and prepared for shipment samples were taken of the cans or bottles that had been so prepared, and in a majority of instances samples of bottle or can rinsings were taken, with a view of ascertaining the degree of cleanliness that obtained after these containers had been washed. Owing to this fact a great many minor laxities in the operation of the creameries were noted that would probably have escaped attention during a routine creamery inspection, and a number of these laxities were discovered to be of prime importance as contributing causes to the occasional excessive bacterial counts reported in samples of milk taken within the city.

As the members of the bacteriological squad worked only in creameries, taking a different creamery each day, it can readily be seen that a greater number of creameries were inspected than had been previously the rule, and these inspections were also of far greater value, as they showed in detail the actual handling of milk during its receipt, refrigeration and preparation for shipment.

OTHER IMPROVEMENTS IN COUNTRY MILK INSPECTION.

A veterinarian has been added to the country milk force. His duties consist in examining dairy herds in which diseased cows have been reported. Four of the inspectors are physicians and investigate all cases of infectious diseases occurring on dairy farms and among milk handlers. In the city very strict lines have been drawn around the sale of "loose" milk, and where stores have been found to be in an unsanitary condition permits to sell milk have been revoked.

During the latter part of 1911 the inspectors were directed to examine all creameries shipping milk to New York City, making thorough reports as to the present conditions of creameries in their respective districts. The object of this campaign is to bring all creameries up to the standard score and cause particular defects to be remedied before the summer of 1912.

FOOD AND MILK INSPECTION.

CITY MILK INSPECTION.

In June, 1911, the sanitary, bacteriological and chemical functions of city milk inspection were more carefully distinguished and special squads of inspectors assigned to each of these branches. The "sanitary" squad was directed to clean up the stores within city limits. As a result many permits for the sale of milk were revoked. A system has been adopted during 1911 of following up high bacterial counts of samples taken in the city, and the milk is traced back to the country to locate the point of contamination. In general, the Department has emphasized at every turn its determination to keep down the bacteriological count of milk sold in the city, as well as to eliminate adulterated milk. The principal cause of high counts appears to be the improper cleaning and sterilization of containers. It is found that the milk when delivered by the farmer to the creamery is usually low in bacterial content and that the heaviest increase takes place after arrival at the creamery, in transit and during the handling in the city.

During the year bacteriological examination was made of 14,058 samples of raw milk and showed that 55.32 per cent. of these samples contained less than 250,000 bacteria per c.c. This is a much better showing than in any previous year. 6,378 samples of pasteurized milk were also taken and a bacteriological examination showed that 75.22 per cent. of these samples contained less than 50,000 bacteria per c.c.

Percentage of Samples of Milk Taken During 1911 According to Bacterial Content.

Number of Bacteria.	Raw.	Pasteurized.
Under 10,000.....	14.95%	43.99%
10,000 to 50,000.....	15.52%	31.23%
50,000 to 100,000.....	10.69%	10.91%
100,000 to 250,000.....	14.15%	7.88%
250,000 to 500,000.....	11.59%	2.36%
500,000 to 1,000,000.....	10.87%	1.53%
1,000,000 to 5,000,000.....	16.71%	1.01%
5,000,000 to 10,000,000.....	3.21%	0.17%
Over 10,000,000.....	1.70%	0.07%
Spoiled	0.55%	0.79%

PASTEURIZING PLANTS.

There are nineteen such plants within the City of New York and two more at nearby points. In these twenty-one plants about 250,000 quarts of milk are pasteurized daily, representing from 10 to 15 per cent. of the total daily milk supply of New York City. It is probable that 50,000 additional quarts of milk are also held or pasteurized within the creameries or shipping points outside the city.

Systematic inspections and reports are made of the city plants. A form of report has been put into use which gives a complete record of the process and methods employed. In addition, samples are frequently taken before, during and after pasteurization, to check the efficiency of the process. The Sanitary Code requires that pasteurization must be carried on under permits issued by the Department of Health. In each of the city plants all the apparatus in use is inspected, tested and approved by inspectors and the Chief Executive Officer of the Department before such permits are granted. The thorough cleansing of milk containers is insisted upon and checked by bacteriological test. Automatic temperature recording devices must be installed on the heating machines and the records kept on file for examination by the inspectors. Holding tanks are tested with colored water to determine the exact length of time the liquid is held in each machine. In many cases it has been found that the actual time is considerably less than the theoretical time, and in all such cases the dealers have been required to raise the temperature of pasteurization to a point which will insure

FOOD AND MILK INSPECTION.

conformity with the schedule of temperatures and duration of exposure prescribed by the rules of the Department. The rapid cooling of pasteurized milk to a low temperature is required, and it is also necessary that all of the apparatus be thoroughly cleaned and sterilized after use. When the results of inspections show that the apparatus is not doing effective work the dealers are notified, and if on reinspections results are still unsatisfactory the sale of the milk is ordered discontinued. The tests made during the past year, however, have shown that the processes employed are generally satisfactory.

REDUCTION OF THE MILK STANDARD.

From the point of view of the consumers of milk in New York City it is much to be regretted that legislation was enacted in 1910 reducing the standard of total milk solids from 12 to 11.50 per cent.* This bill was drawn in the interests of owners of Holstein cows, a breed which gives milk of a somewhat lower percentage of milk solids than that of other cows. While it is argued that the laws of the State should not attempt to maintain a higher standard than that of the natural product, it would hardly seem that this argument is convincing, for such a law as that recently passed is a reduction of the standard in favor of dairymen who raise this particular breed of cow. Such a reduction of the standard is an actual stimulus of adulteration, since it makes it legally possible for unscrupulous dealers to impair the food value of milk normally good by the addition of water or by a lower grade of milk until it is brought down to a point just within the legal standard. How inevitable such a result was the records of the Department already show. Certain dealers whose milk under the old law was just within the required standard of 12 per cent. are now dispensing milk which, on repeated analysis, has been shown to be just within the lowered standard of 11.50 per cent.

FOOD AND MILK INSPECTION.

Milk Inspection.

CITY OF NEW YORK.

	1910.		1911.	
	Stores.	Wagons.	Stores.	Wagons.
Field:				
Permits issued during	5,928	5,370	5,316	3,815
Permits revoked during	8,921	22	3,826	81
For discontinuance of selling	7,312	17	3,553	76
For violation of law	1,609	5	273	5
Inspection:				
Regular inspections	109,519	16,040	88,409	14,796
Inspections at receiving stations	978	922	109	1,356
Total	110,497	16,962	88,518	16,152
*Specimens examined	86,953	33,775	100,559	77,626
Samples taken	10,653	7,666	18,902	8,012
Conditions found:				
Inspections finding milk above 50 degrees	337	78	438	239
†Inspections finding adulteration	937	204	285	52
‡Warning given	504	125	58	7
‡Prosecuted	433	79	227	45
Rooms connected contrary to sanitary code	2,666	.....	5,061	.....
Ice box badly drained	305	.....	303	.....
Ice box unclean	666	.....	855	.....
Store unclean	1,320	.....	1,985	.....
Utensils unclean	1,454	4	1,485	39
Milk not properly cooled	41	.....	1,917	344
Infectious disease	16	.....	22	.....
Persons found selling without permit	3,209	165	2,455	257
Action taken—Destruction of Milk:				
Lots of milk destroyed for being over 50 degrees	337	78	449	169
Quarts so destroyed	4,577	3,342	6,441	7,616
Lots of milk destroyed for being sour	328	21	293	17
Quarts so destroyed	6,765	459	3,449	289
Lots of milk destroyed for being otherwise adulterated	28	2	63	7
Quarts so destroyed	550	22	810	85
Total quarts destroyed	11,892	3,823	10,700	7,990

* Several specimens may be examined at a single inspection.

† Samples taken and analyzed.

‡ The technical definition of adulteration is found in section 53 of the Sanitary Code, the chief items being "containing less than 12 per centum of milk solids" and "containing less than 3 per centum of fats." In enforcement a distinction is made between samples whose milk solids are found between 12 per cent. and 11.4 per cent.; the former are made occasions for warning only, the latter for prosecution.

CONTAGIOUS DISEASES.

During January and February of 1910 over 19,000 cases of contagious diseases were reported. This large number of cases, added to those already under surveillance, made it impossible for the 43 district inspectors to revisit their cases with sufficient frequency to maintain proper isolation. In many instances they were unable to terminate cases promptly or to order fumigation at the proper time, and very frequently it was impossible for them to make a revisit after fumigation had been performed or to issue school certificates. As a result complaints were numerous and the work of the division was not up to the proper standard. During the latter part of February 15 temporary district medical inspectors were appointed for five months, but even with this additional force cases could not be visited with sufficient frequency, many were not properly isolated and a large number were not promptly terminated. Over 13,000 cases were reported during March, and in order to relieve the situation a number of inspectors from the Division of Child Hygiene were detailed for several hours each day to the Division of Contagious Diseases.

SMALLPOX AND VACCINATION.

During the year 1910 16 cases of smallpox were discovered. Eight of these contracted the disease outside the city, in seven no definite history could be obtained and one was a secondary case. While vaccinations have been performed in the vicinity of every house from which a case of smallpox has been removed, no regular district or house-to-house vaccinations have been performed during the last six years, owing to lack of appropriation for this purpose.

During 1911 15 cases of smallpox occurred. Of these five occurred in the Borough of Manhattan, four in Brooklyn, one in The Bronx and five in Queens. In the four boroughs in which smallpox appeared the district medical inspectors, in addition to their regular district work, vaccinated 35,551 persons.

There have been very few cases of smallpox in New York City since 1903. It is also a fact that this Department has vaccinated comparatively very few persons during the past six years, and as a result there are in this city at the present time many persons who are not immune to the disease.

RABIES.

Commencing September 1, 1910, dogs removed for observation in Manhattan and The Bronx were sent to the "Shelter" of the American Society for the Prevention of Cruelty to Animals at the foot of East 102d street, instead of being taken as formerly to Willard Parker Hospital. During the last four months of the year 129 dogs were removed from Manhattan and 20 from The Bronx.

During the year 1911 the nine veterinarians examined 4,509 dogs (717 more than in 1910) and 212 were found to have rabies.

DESTRUCTION OF DOGS.

Section 132 of the Sanitary Code, as enforced previous to June 28, 1910, provided for the removal for observation of dogs which had bitten any person, and for their destruction, if found rabid. On June 28th this section was amended to include dogs found to be vicious to such an extent as to be unsafe to be at large.

CONTAGIOUS DISEASES.

During 1911 about 2,500 of the 3,600 persons bitten were children. Ten of the persons bitten died of rabies and six of these were bitten by ownerless dogs. In the Borough of Brooklyn 1,036 dogs were examined, 543 more than in 1910, and of these 59 were found to be suffering from rabies.

A city ordinance should be passed requiring the removal and destruction of every dog not in leash that is found on the public streets. Such an ordinance, if enforced, would cause a marked diminution in the number of persons bitten and in the number of cases of rabies.

CHOLERA.

During 1911 steamers arriving from Italy brought cholera to the port of New York. The first case arrived June 13th and the last August 25th. According to reports of the Health Officer of the Port 35 cases were either stopped at quarantine during the summer or occurred among suspects detained there or among recent immigrants in New York State. For the first time since 1892 there were cases in the city proper. The first case occurred in Brooklyn, 1069 Myrtle avenue, on June 30th. Bacteriological examination on July 3d showed the presence of the cholera bacilli. The patient was a woman, thirty-three years of age, who had left Naples on June 7th and arrived at New York June 17th without having been ill during the voyage. She was held for ten days at quarantine as a suspect and was discharged from quarantine June 27th. As soon as the case was discovered on June 30th the woman was again removed to quarantine, where she died July 5th.

The second case, a man thirty-seven years old, was an orderly in attendance upon the cholera suspects at quarantine. He lived on Staten Island, 14 Fingerboard road, and was taken ill at his residence. He was removed to St. Vincent's Hospital, Staten Island, July 13th, for observation, and the next day developed symptoms resembling cholera. He was then transferred to the hospital on Swinburne Island, July 14th. Bacteriological examination revealed the presence of comma bacilli. The case terminated fatally July 15th. The house in which the patient lived was thoroughly disinfected and the ward in which he had been ill at St. Vincent's Hospital was quarantined and kept under observation for ten days. A police officer was stationed at the patient's residence for ten days after his removal in order to prevent anyone from entering the house during this period.

The third case was a man twenty-eight years of age, who was admitted to Bellevue Hospital July 20th with a diagnosis of typhoid fever. During the same day the symptoms became suspiciously like those of cholera, and the case was reported to the Department of Health for diagnosis. On July 22d a bacteriological examination disclosed the presence of cholera bacilli. The patient was removed to quarantine July 22d, where he recovered. The history of this case is very obscure. The man said that he had been a fireman on a collier which left Liverpool March 15th for the Azores. He then shipped to Buenos Ayres, remaining at this port two weeks, thence to Para, where he remained four days, and then to Boston, where he arrived July 1st, the ship passing quarantine with a healthy crew. On the next day he came to New York by one of the Sound steamers. Thorough precautions were taken by the Department to forestall any possibility of the transmission of the disease from this case. The Sailors' Lodging House on the East Side, in which the man had stayed for a time, was disinfected, and every effort was made to trace his movements since his arrival in New York. This inquiry disclosed the fact that the patient had worked for a short time on a night steamer running between New York and Albany. This vessel was accordingly taken by order of the Department to the dock at Willard Parker Hospital and thoroughly disinfected, while bacteriological examinations were made at the Research Laboratory of specimens from 51 members of the crew. These tests all proved negative and the steamer was released at the earliest possible moment.

CONTAGIOUS DISEASES.

In October, 1911, it was deemed advisable, in view of the large number of foreign workmen employed in the construction of the Catskill Aqueduct in the sections within the Croton watershed, to take special measures to guard against any possible infection of the city water supply. After conferences with the Commissioner of Water Supply, Gas and Electricity, the Corporation Counsel and the Board of Water Supply, a special committee was formed from representatives of these departments to make and to supervise a large number of inspections on the Croton watershed. Arrangements were made to give this committee full power to take summary action to abate any nuisance that threatened pollution. For a number of weeks careful examinations were made of all immigrants arriving from supposedly infected areas and remaining in the City of New York, in order that the first symptoms of cholera might be detected.

CONTAGIOUS EYE DISEASES.

During the year 1910 the treatment of contagious eye diseases was carried on in Manhattan at the hospital on Pleasant avenue and at the dispensary at Gouverneur Slip. In Brooklyn the cases were treated at the hospital on Throop avenue and when operative treatment was indicated they were referred to the hospital in Manhattan. In reviewing the work of 1910, and comparing it with that of previous years, two points are conspicuous: first, the diminution in the number of cases of trachoma referred to the hospitals by the school inspectors, and secondly, the comparative infrequency of the severe and complicated cases which were so common in the earlier history of this work.

During 1911, the ophthalmological work of the Department was conducted in the same manner as during 1910, the cases of trachoma showing a somewhat further diminution.

CONTAGIOUS DISEASES.

*Contagious Eye Diseases—Treatment and Disposition of Cases Year Ending
December 31, 1910.*

	Trachoma.		Other Contagious Eye Diseases.	Total.
	By Operation.	Non- Operative Only.		
TRACHOMA HOSPITAL, MANHATTAN.				
Cases Treated:				
Under treatment January 1, 1910.....	921	2,788	708	4,417
New cases treated in 1910.....	979	2,013	911	3,903
Total treated in 1910.....	1,900	4,801	1,619	8,320
Disposition:				
Discharged apparently cured.....	151	139	121	411
Discontinuing before cured.....	940	2,662	797	4,399
Under treatment December 31, 1910....	809	2,000	701	3,510
Total.....	1,900	4,801	1,619	8,320
Percentage of those treated discharged appar- ently cured.....	7.94	2.89	7.47	.....
TRACHOMA HOSPITAL, BROOKLYN.				
Cases Treated:				
Under treatment January 1, 1910.....	74	590	328	992
New cases treated in 1910.....	87	1,003	1,416	2,506
Total treated in 1910.....	161	1,593	1,744	3,498
Disposition:				
Discharged apparently cured.....	31	128	243	402
Discontinuing before cured.....	48	651	633	1,332
Under treatment December 31, 1910....	82	814	868	1,764
Total.....	161	1,593	1,744	3,498
Percentage of those treated discharged appar- ently cured.....	19.25	8.03	13.93	.....
TRACHOMA CLINIC, GOUVERNEUR SLIP				
Cases Treated:				
Under treatment January 1, 1910.....	599	3,257	2,903	6,759
New cases treated in 1910.....	442	1,689	3,005	5,136
Total treated in 1910.....	1,041	4,946	5,908	11,895
Disposition:				
Discharged apparently cured.....	97	167	223	487
Discontinuing before cured.....	396	2,149	2,333	4,878
Under treatment December 31, 1910....	548	2,630	3,352	6,530
Total.....	1,041	4,946	5,908	11,895
Percentage of those treated discharged appar- ently cured.....	9.31	3.37	3.77	.....

CONTAGIOUS DISEASES.

TRACHOMA HOSPITAL, MANHATTAN.

New Cases Admitted During Year 1911.

Number found to be—	
1. Contagious:	
(a) Trachoma.....	1,977
(b) Other than trachoma.....	942
2. Non-contagious.....	295
Total number of cases examined.....	3,214

Number of Cases Under Treatment During Year 1911.

	Trachoma.		Other Than Trachoma, Non-Operative.
	Operative.	Non-Operative.	
Number of cases under treatment January 1, 1911....	809	2,000	701
Number of new cases treated during year 1911.....	560	1,417	1,237
Total number of cases treated during year 1911..	1,369	3,417	1,938

Treatments of Cases During Year 1911.

	Trachoma.	Other Than Trachoma.	Total.
Operative.....	560	.....	560
Post-operative.....	4,530	.....	4,530
Non-operative.....	23,891	3,773	27,664
Total treatments.....	28,981	3,773	32,754

	Trachoma.		Other Than Trachoma, Non-Operative.	Total.
	Operative.	Non-Operative.		
Number of cases discharged apparently cured.....	117	80	392	589
Number of cases discontinuing before cured.....	563	1,774	763	3,100
Number of cases under treatment December 31, 1911	689	1,563	783	3,035
Per cent. of cases discharged apparently cured.....	8.54	2.34	20.22	.....
Per cent. of cases discontinuing before cured.....	41.12	51.91	39.37	.....
Per cent. of cases under treatment December 31, 1911	50.34	45.75	40.41	.....
Largest number of patients treated in one day.....	.....	.....	.....	233
Average number of patients treated in one day.....	.....	.....	.....	113
Total number of visits made by patients.....	.....	.....	.....	35,113

CONTAGIOUS DISEASES.

TRACHOMA HOSPITAL, BROOKLYN.

New Cases Admitted During Year 1911.

Number found to be—		
1. Contagious:		
(a) Trachoma.....		326
(b) Other than trachoma.....		1,292
2. Non-contagious.....		489
Total number of cases examined.....		2,107

Number of Cases Under Treatment During Year 1911.

	Trachoma.		Other Than Trachoma, Non-Operative.
	Operative.	Non-Operative.	
Number of cases under treatment January 1, 1911....	82	814	868
Number of new cases treated during year 1911.....	22	304	1,781
Total number of cases treated during year 1911..	104	1,118	2,649

Treatments of Cases During Year 1911.

	Trachoma.	Other Than Trachoma.	Total.
Operative.....	22	.....	22
Post-operative.....	1,971	.....	1,971
Non-operative.....	12,156	14,272	26,428
Total treatments.....	14,149	14,272	28,421

	Trachoma.		Other Than Trachoma, Non-Operative.	Total.
	Operative.	Non-Operative.		
Number of cases discharged apparently cured.....	3	52	641	696
Number of cases discontinuing before cured.....	63	631	868	1,562
Number of cases under treatment December 31, 1911	38	435	1,140	1,613
Per cent. of cases discharged apparently cured.....	2.88	4.65	24.19	.....
Per cent. of cases discontinuing before cured.....	60.57	56.44	37.76	.....
Per cent. of cases under treatment December 31, 1911	36.55	38.91	43.06	.....
Largest number of patients treated in one day.....	.....	.....	.....	222
Average number of patients treated in one day.....	.....	.....	.....	98
Total number of visits made by patients.....	.....	.....	.....	30,528

CONTAGIOUS DISEASES.

TRACHOMA DISPENSARY, 10 GOUVERNEUR SLIP.

New Cases Admitted During Year 1911.

Number found to be—		
1. Contagious:		
(a) Trachoma.....		588
(b) Other than trachoma.....		3,192
2. Non-contagious.....		924
Total number of cases examined.....		4,704

Number of Cases Under Treatment During Year 1911.

	Trachoma.		Other Than Trachoma, Non-Operative.
	Operative.	Non-Operative.	
Number of cases under treatment January 1, 1911...	548	2,630	3,352
Number of new cases treated during year 1911.....	185	403	4,116
Total number of cases treated during year 1911...	733	3,033	7,468

Treatments of Cases During Year 1911.

	Trachoma.	Other Than Trachoma.	Total.
Operative.....	185	.....	185
Post-operative.....	17,544	.....	17,544
Non-operative.....	30,751	36,187	66,938
Total treatments.....	48,480	36,187	84,667

	Trachoma.		Other Than Trachoma, Non-Operative.	Total.
	Operative.	Non-Operative.		
Number of cases discharged apparently cured.....	142	269	1,605	2,016
Number of cases discontinuing before cured.....	294	1,093	2,004	3,391
Number of cases under treatment December 31, 1911	297	1,671	3,859	5,827
Per cent. of cases discharged apparently cured.....	19.37	8.86	21.49	.....
Per cent. of cases discontinuing before cured.....	40.10	36.03	26.83	.....
Per cent. of cases under treatment December 31, 1911	40.53	55.11	51.68	.....
Largest number of patients treated in one day.....	.....	.....	.....	761
Average number of patients treated in one day.....	.....	.....	.....	297
Total number of visits made by patients.....	.....	.....	.....	89,371

CONTAGIOUS DISEASES.

TRACHOMA.

In analyzing these tables it is at once apparent that a great diminution in the number of cases of trachoma and in the number of operations, as compared to previous years, has taken place. Both of these circumstances have similar causes. In the first place, since the discovery of the so-called "trachoma bodies" by Halberstaedter and Prowazek in 1908, and the subsequent investigations of their nature and importance, which have been undertaken by bacteriologists in all parts of the world, clinicians have been more than ever divided in their opinion as to what cases should and what cases should not be classified under the generic term of trachoma. The diagnostic value of these bodies is by no means universally admitted, but it is certainly true that they are found invariably in certain types of conjunctival disease. Whether or not the name trachoma should be restricted to these types alone is a subject which is still under discussion. For these reasons it has seemed wise for the Department to restrict somewhat its diagnosis of trachoma, and this, it must be admitted, is one reason for the reduction in the number of cases reported. There can, however, be no doubt that the persistent campaign which during the past eight years has been conducted against trachoma and its allied conditions has resulted in a marked decrease in the actual number of cases of follicular, papillary and cicatricial affections of the conjunctiva in the children of the New York public schools.

OPHTHALMIA NEONATORUM.

Cases of ophthalmia neonatorum occurring in the practice of midwives were visited and the parents were advised in regard to treatment. This work was a continuation of that of previous years, and as a result of the supervision thus exercised severe and neglected cases of this disease have become decidedly rare in this city, and on account of the almost universal use of Crede's preventive method by midwives, first brought to their notice several years ago by this division, ophthalmia neonatorum has become a very inconsiderable factor in the causation of blindness in this city.

GLANDERS.

During the year 1911 the nine veterinarians detailed to this division discovered 1,138 cases of glandered horses, 214 more than in 1910. As the public wooden watering troughs for horses in this city are in many instances a source of infection from this disease, the Department during 1911 ordered their removal. During 1911 three persons died from glanders in the Borough of Manhattan.

FUMIGATION AND DISINFECTION.

During the year 1911 the 44 disinfectors performed 51,507 fumigations. In the Boroughs of Manhattan, The Bronx and Brooklyn paraformaldehyde and permanganate of potash have been substituted for the formaline mixture and lime which had previously been employed and which had proved too cumbersome. During 1911 60,365 lots of goods were removed to the disinfecting plants in the five boroughs. Of these 2,904 were destroyed, 58,551 were disinfected and 57,625 were returned.

Contagious Diseases—District Medical Inspection—1910.
CITY OF NEW YORK.

CONTAGIOUS DISEASES.

	Diphtheria.	Scarlet Fever.	Measles.	Chicken-pox.	Whooping Cough.	Small-pox.	Parotiditis.	German Measles.	Non-contagious.	Glanders (Human).	Totals.
Cases reported during year ending Dec. 31, 1910.....	19,547	19,771	36,595	5,782	2,101	17	1,667	1,617	.....	.....	87,097
Cases found to be "no case".....	1,884	257	200	57	10	1	2	26	.....	.....	2,437
Duplicates.....	524	484	756	105	71	.....	20	4	.....	.....	1,964
Cases never found.....	199	106	265	86	2	.....	.....	16	.....	.....	674
Corrected totals of cases reported.....	16,940	18,924	35,374	5,534	2,018	16	1,645	1,571	.....	.....	82,022
Cases quarantined at home.....	13,840	15,493	33,754	5,320	1,888	.....	1,594	1,392	.....	.....	73,191
Cases treated in contagious disease hospitals.....	2,693	3,214	1,007	21	4	16	1	3	.....	.....	6,959
Cases isolated in other hospitals or institutions.....	407	307	613	193	126	.....	50	176	.....	.....	1,872
Diagnosticians—(15)											
Cases.....	2,136	5,828	2,385	633	186	15	19	620	6,622	.....	18,444
Visits to cases.....	2,210	6,070	2,460	679	221	16	19	657	6,937	.....	19,269
Medical Inspectors—(49)											
Cases.....	17,870	18,091	33,652	4,932	98	7	17	1,355	5,669	.....	81,691
Visits to cases.....	56,256	76,120	83,208	10,131	136	13	18	2,615	17,985	.....	246,482
District Nurses—(2)											
Cases.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Visits to cases.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Inspections—											
Institutions—											
Day nurseries.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cases removed to hospital.....	1,510	3,008	876	18	2	14	1	3	.....	.....	5,432
Cases forced to hospital.....	44	127	20	.....	.....	.....	.....	.....	.....	.....	191
Cases walked into hospital.....	1,214	172	111	3	2	2	.....	.....	.....	.....	1,504

Contagious Diseases—District Medical Inspection—1911.
CITY OF NEW YORK.

CONTAGIOUS DISEASES.

	Diphtheria.	Scarlet Fever.	Measles.	Chicken-pox.	Whooping Cough.	Small-pox.	Parotiditis.	German Measles.	Non-contagious.	Cholera.	Totals.
Cases reported during year 1911.....	16,081	16,619	26,557	7,020	3,286	16	3,070	1,105	.....	3	73,757
Cases found to be "no case".....	1,890	239	132	50	10	1	4	4	.....	.....	2,330
Duplicates.....	574	511	702	113	66	.....	46	7	.....	.....	2,019
Cases never found.....	132	76	183	99	.....	.....	.....	4	.....	.....	494
Corrected totals of cases reported.....	13,485	15,793	25,540	6,758	3,210	15	3,020	1,090	.....	3	68,914
Cases quarantined at home.....	10,896	12,665	23,742	6,460	3,117	.....	2,989	1,034	.....	.....	60,093
Cases treated in contagious disease hospitals.....	2,390	2,980	1,167	13	7	15	.....	6	.....	2	6,580
Cases isolated in other hospitals or institutions.....	199	148	631	285	86	.....	31	50	.....	1	1,431
Diagnosticians—(14)											
Cases.....	1,854	5,247	2,262	559	141	15	28	448	3,254	3	13,811
Visits to cases.....	1,956	5,502	2,533	599	156	23	29	470	3,739	4	15,011
Medical Inspectors—(45)											
Cases.....	14,958	15,297	24,932	6,472	233	8	54	975	7,936	.....	70,865
Visits to cases.....	42,498	63,948	61,474	13,342	434	18	121	1,897	9,391	.....	193,123
District Nurses—(2)											
Cases.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Visits to cases.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Inspections—											
Institutions.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Day nurseries.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cases removed to hospital.....	1,168	2,699	974	10	1	15	.....	1	.....	1	4,869
Cases forced to hospital.....	67	134	13	.....	.....	.....	.....	.....	.....	.....	214
Cases walked into hospital.....	1,155	147	180	3	6	.....	.....	.....	.....	.....	1,496

CONTAGIOUS DISEASES.

Prevalence of Contagious Diseases—Case Rate by Years, Boroughs and Diseases Reported.

	Number of Cases Reported.					Number per 1,000 of Population.						
	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.
Diphtheria and Croup—												
Year 1907.....	15,276	7,285	5,398	1,478	821	294	3.5	3.2	3.7	4.7	3.7	3.9
Year 1908.....	16,431	8,263	5,451	1,648	785	284	3.7	3.6	3.6	5.0	3.3	3.7
Year 1909.....	15,097	7,933	4,735	1,335	704	330	3.3	3.3	3.0	3.8	3.1	4.2
Year 1910.....	16,940	8,990	5,023	1,696	992	239	3.5	3.8	3.0	3.8	3.4	2.7
Year 1911.....	13,485	6,511	4,492	1,496	777	209	2.7	2.7	2.6	3.0	2.5	2.3
Scarlet Fever—												
Year 1907.....	15,788	8,184	5,436	1,205	655	308	3.6	3.6	3.7	3.9	2.9	4.1
Year 1908.....	24,426	12,059	8,123	2,529	1,268	417	5.5	5.2	5.4	7.7	5.5	5.4
Year 1909.....	12,475	5,909	4,275	1,161	856	274	2.7	2.5	2.7	3.3	3.4	3.5
Year 1910.....	18,924	8,722	6,474	2,264	985	479	3.9	3.7	3.9	5.1	3.4	5.5
Year 1911.....	15,793	6,799	6,136	1,663	876	319	3.1	2.8	3.5	3.4	2.8	3.5
Measles—												
Year 1907.....	16,622	10,039	4,509	1,401	424	249	3.8	4.4	3.1	4.5	1.9	3.3
Year 1908.....	38,276	18,264	12,807	4,612	1,897	666	8.6	7.9	8.4	14.1	8.1	9.1
Year 1909.....	31,954	14,766	9,881	3,714	2,118	1,475	7.0	6.2	6.4	10.6	8.6	18.9
Year 1910.....	35,374	14,396	12,630	4,988	2,580	780	7.3	6.1	7.6	11.3	8.9	9.0
Year 1911.....	25,540	13,449	7,728	2,879	1,013	471	5.1	5.6	4.5	5.9	3.2	5.2
Cholera—												
Year 1907.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year 1908.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year 1909.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year 1910.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Year 1911.....	3	I	I	.....	.....	I	.006	.004	.005	.....	.....	.01
Small-pox—												
Year 1907.....	58	10	46	I	I	.....	.01	.005	.03	.003	.005	.....
Year 1908.....	17	6	6	2	3	.....	.004	.003	.004	.006	.01	.....
Year 1909.....	9	5	3	.....	.....	I	.002	.002	.002	.002	.....	.01
Year 1910.....	16	13	2	I	.....	.....	.003	.006	.001	.002	.....	.....
Year 1911.....	15	5	4	I	5	.....	.003	.002	.002	.002	.....	.....

CONTAGIOUS DISEASES.

Prevalence of Contagious Diseases—Case Rate by Years, Boroughs and Diseases Reported—Continued.

	Number of Cases Reported.					Number per 1,000 of Population.						
	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.	New York.	Manhattan.	Brooklyn.	Bronx.	Queens.	Richmond.
Chicken-pox—												
Year 1907.....	4,308	2,050	1,452	526	107	173	1.0	.9	1.0	1.7	.4	2.3
Year 1908.....	5,928	2,718	2,045	710	297	558	1.3	1.2	1.3	2.1	1.2	2.0
Year 1909.....	6,705	3,244	2,504	993	376	387	1.4	1.3	1.4	1.7	1.4	4.0
Year 1910.....	5,534	2,595	1,886	503	248	302	1.1	1.1	1.1	1.1	.8	3.4
Year 1911.....	6,758	3,327	2,305	570	279	217	1.3	1.3	1.3	1.1	.8	2.4
Parotiditis—												
Year 1907.....	982	719	177	39	5	42	.2	.3	.1	.1	.02	.5
Year 1908.....	2,131	1,372	489	140	10	114	.4	.5	.3	.4	.07	1.5
Year 1909.....	2,438	1,133	1,037	192	66	10	.5	.4	.6	.5	.2	.1
Year 1910.....	1,645	1,080	413	71	40	35	.3	.4	.2	.1	.1	.4
Year 1911.....	3,020	1,850	818	225	31	90	.5	.7	.4	.4	.1	1.0
German Measles—												
Year 1907.....	1,477	785	435	104	26	127	.3	.3	.3	.3	.1	1.6
Year 1908.....	823	544	152	53	43	31	.1	.2	.1	.1	.1	.4
Year 1909.....	582	270	174	28	86	24	.1	.1	.2	.08	.3	.3
Year 1910.....	1,571	871	471	141	69	19	.3	.3	.2	.3	.2	.2
Year 1911.....	1,090	758	123	162	20	27	.2	.3	.07	.3	.06	.3
Total all Diseases for—												
Year 1907.....	56,431	29,827	18,307	4,842	2,099	1,356	13.1	13.3	12.6	15.7	9.5	18.0
Year 1908.....	89,214	43,693	29,487	9,827	4,375	1,832	20.1	19.0	19.7	31.0	18.8	24.1
Year 1909.....	72,073	34,212	23,474	7,381	4,435	2,571	15.7	14.5	15.2	31.2	18.1	32.9
Year 1910.....	82,022	37,384	27,743	9,834	5,008	2,053	17.0	15.9	16.8	22.4	17.3	23.7
Year 1911.....	68,914	34,246	22,606	7,236	3,125	1,701	13.8	14.3	13.2	14.9	10.0	18.9

CONTAGIOUS DISEASES.

Vaccination, Disinfection and Animal Inspection.

CITY OF NEW YORK.

	1907	1908	1909	1910	1911
<i>Vaccinations.*</i>					
Vaccinations in schools.....	20,133	.....	.....	.....	.....
Vaccinations by Summer Corps.....	2,010	.....	.....	.....	.....
Vaccinations in districts.....	33,142	31,679	17,939	13,421	46,148
Vaccinations at offices.....	16,982	30,266	33,191	39,699	40,886
Vaccinations at Blackwell's Island.....	5,598	20,475	14,091	11,403	10,167
Vaccinations at hospitals.....	4,620	13,004	15,191	17,133	16,001
Vaccinations at Municipal Lodging Houses.....	.....	.....	.....	.....	9,691
Total vaccinations.....	.....	95,424	80,412	81,656	122,893
Total vaccination certificates issued.....	.....	42,973	18,384	23,226	21,331
<i>Disinfection of Premises.</i>					
Number of Disinfectors on duty.....	.....	45	37	47	42
Houses visited—					
Disinfection performed.....	.....	63,219	45,910	60,406	51,570
Disinfection postponed.....	.....	3,483	2,049	2,637	2,571
Rooms disinfected.....	.....	106,147	74,693	95,992	81,475
Disinfections performed—					
Diphtheria.....	.....	13,075	12,279	13,740	11,290
Scarlet fever.....	.....	19,174	9,430	15,531	13,077
Measles.....	.....	25,304	17,882	23,778	16,892
Small-pox.....	.....	16	7	16	22
Tuberculosis.....	.....	3,415	4,269	5,801	8,717
Cerebro-spinal meningitis.....	.....	276	210	128	140
Glanders (horses).....	.....	984	856	1,189	1,180
Miscellaneous.....	.....	975	977	107	186
Typhoid fever.....	.....	.....	.....	116	57
Total.....	.....	63,219	45,910	60,406	51,570
By attending physician.....	.....	710	835	2,107	628
<i>Goods Disinfected or Destroyed.</i>					
**Lots of goods received:					
By order from Divisions of Contagious and Communicable Diseases.....	.....	.....	.....	37,462	32,935
From hospitals.....	.....	.....	.....	23,994	27,148
Miscellaneous.....	.....	.....	.....	467	282
Total.....	.....	.....	.....	61,923	60,365
Lots of goods disinfected.....	.....	66,962	55,728	60,382	58,556
Lots of goods destroyed.....	.....	2,726	1,838	2,583	3,004
Lots of goods returned.....	.....	.....	.....	59,515	57,624
Number of articles disinfected.....	.....	.....	.....	386,220	271,640
Number of articles destroyed.....	.....	.....	.....	42,859	42,020
Number of articles returned.....	.....	.....	.....	365,173	248,252
<i>Animal Inspection.</i>					
Number of Veterinarians on duty.....	.....	9	10	10	9
Horses—					
Examinations of horses.....	.....	37,555	33,598	41,254	34,790
Blood specimens taken.....	.....	1,429	836	1,768	616
Horses tested with mallein.....	.....	1,284	616	672	431
Glandered horses condemned and destroyed.....	.....	1,198	941	924	1,138
Post-mortem examinations of horses.....	.....	72	23	95	66
Inspections of stables.....	.....	7,296	5,686	6,928	6,375
Disinfection of stables ordered.....	.....	1,118	904	963	1,090
Dogs—					
Examination of dogs.....	.....	4,622	5,168	3,792	4,509
Animals referred to Research Laboratory for diagnosis of rabies.....	.....	250	200	163	330
Cases of rabies.....	.....	104	57	75	212
Cows—					
Examinations of cows.....	.....	2,652	10,262	11,547***	4,179
Cows tested with tuberculin.....	.....	58	6	6	1
Cows condemned.....	.....	4	9	1	.....
Miscellaneous—					
Examinations of other animals.....	.....	66	1,896	564	153
Post-mortem on other animals.....	.....	103	43	2	3

* For vaccinations performed in school, see Division of Child Hygiene.

** A "lot of goods" consists of all articles removed for disinfection or destruction at the close of a case.

*** 802 cows were examined outside City limits for County Milk Inspection.

COMMUNICABLE DISEASES.

On January 1, 1910, the annual appropriation of this division was increased by \$231,905.29, making possible a very great extension of the work of the Department in relation to tuberculosis. Prior to this date the system of registration and sanitary supervision of tuberculosis was, perhaps, the best that could be devised under the conditions then existing, but it had its weak points. These were an insufficient number of nurses, an insufficient clerical force, insufficient clinic facilities, insufficient hospital facilities, insufficient laboratory facilities for the collection and examination of sputum and an inability to enforce disinfection. With the increased appropriation many of these defects were remedied. During 1910 the staff of tuberculosis nurses was increased from 23 to 159, and the clerical staff of the borough offices from 28 to 50. A corps of cleaners and scrubwomen to clean and disinfect the premises occupied by cases of pulmonary tuberculosis was also organized. During the same year eight new tuberculosis clinics were established: two in Manhattan, one in The Bronx, three in Brooklyn, one in Queens and one in Richmond. During 1909 the staff of the tuberculosis clinics consisted of one attending physician and 20 assistant attending physicians. In 1910 the staff was increased to 45 attending physicians at \$600 per annum and 10 assistant attending physicians with an annual salary of \$300 each, and the force of hospital clerks was increased from five to eleven. During 1910 a Tuberculosis Hospital Admission Bureau was established at 426 First avenue, Manhattan, and two tuberculosis boat camps on the ferry-boats *Middletown* and *Susquehanna*. The force of laboratory workers, which in 1909 had consisted of 17 laboratory assistants, was increased by the appointment of one assistant director and 14 additional laboratory assistants. Three new collection routes were established in Manhattan and two in Brooklyn during 1910, making five in the former borough and seven in the latter.

HOSPITAL ADMISSION BUREAU.

The work of the Admission Bureau increased so rapidly that in 1911 additional quarters became necessary, and the adjoining building at 424 First avenue was leased by the Department. The admission of patients to tuberculosis hospitals and sanatoria has been greatly facilitated and expedited. All applicants for the Otisville and Ray Brook sanatoria, the Preventorium and Department of Health Day Camps are now admitted through this bureau, and parties leaving for Otisville and the Preventorium start from the bureau, and children discharged from the Preventorium are followed up by a special nurse from the bureau at intervals of six months. The building at 426 First avenue was renovated throughout by the working staff of the Division of Communicable Diseases, new plumbing was installed and new furniture purchased.

REGISTRATION OF TUBERCULOSIS.

New registration cards of varying colors, but of uniform size (8"x5"), were devised, white record cards for all official reports, blue house cards for recording all cases in a given house and pink history cards for registering the results of the first visits of the nurses. Three sets of files are maintained, a current file for all active cases, a discontinued file for dead and recovered cases and a house file in which a card for each house replaces the old house maps, while results of the nurses' later visits are copied from their daily reports and placed upon the record cards.

COMMUNICABLE DISEASES.

SANITARY SUPERVISION OF TUBERCULOSIS.

During 1910 the sanitary supervision of pulmonary tuberculosis was maintained by means of district tuberculosis nurses and tuberculosis inspectors. Each borough was divided into as many districts as there were tuberculosis clinics, and one or more nurses were assigned to each district. Where two or more nurses were assigned to a district the district was divided, a division or subdistrict being given to each, and one nurse was detailed as captain of the clinic district. At a stated hour each day the captain visited the tuberculosis clinics and obtained the names of all new cases and all discharged cases, later giving this information by telephone to the local borough office and receiving therefrom all data relating to cases of tuberculosis in her clinic district that had been reported to the Department of Health during the preceding twenty-four hours. Every district nurse keeps a diary of her new assignments and future visits and a complete card index of all cases of tuberculosis in her district. Reports of cases under the care of private physicians are given to the nurse for information only. The cases reported by tuberculosis clinics in Manhattan not under the supervision of the Department of Health are not visited except upon request. Clinical cases reported by the Department of Health clinics in Manhattan and by all clinics in other boroughs are visited. Another class of cases coming under the nurses' supervision are those reported by one tuberculosis clinic as living in or having moved to the district of another. The nurse also receives notification of cases that have been admitted to the hospitals, cases leaving the city or entering sanatoria, cases not found at the address given, and the so-called "at home" cases. The card index of the nurse is kept constantly up to date through information received daily from the district captains, and every change in the card file is reported by the daily report to the borough office, to which office is forwarded each Saturday a copy, with the totals in each of the six groups of cases just described.

During 1911 a return was made to the system of close sanitary supervision in vogue prior to 1910. Instead of visiting, as a matter of routine, every case once a month, special attention was again paid to those cases requiring rigid supervision, and these were visited by district nurses every few days until the faulty conditions had been corrected. All other cases were simply kept under observation, and bi-monthly information was obtained in regard to cases under the care of private physicians. The families of patients in hospitals were visited regularly, and all children suffering from active pulmonary tuberculosis and excluded from public schools were cared for at sanatoria, day camps and fresh-air schools. During 1910 the district nurses in Brooklyn organized a relief association of their own for their cases.

In three boroughs physicians, skilled in the diagnosis of pulmonary tuberculosis from having served in the tuberculosis clinics, are detailed as tuberculosis inspectors. The following classes of cases come under their supervision: (1) suspected cases of tuberculosis; (2) investigation of complaints; (3) exclusion from or admission to school of children; (4) visits to clinic patients; (5) recommendations for forcible removal; (5) recovered cases. Prior to January 1, 1910, terminal inspections, for the purpose of ordering disinfection, were made by the medical inspectors. After that date this work was performed by nurses. This resulted in a general increase in the amount of work done, but because of the change of duties only general comparisons can be made.

TUBERCULOSIS DISINFECTION.

In an accompanying table a comparison of the number of tuberculosis removals with the number of tuberculosis disinfections performed by or reported to the Board of Health during 1910 is given. By a "tuberculosis removal" is meant any instance in which disinfection would seem to be indicated at a given address. In more than 65 per cent. of the cases the premises were voluntarily renovated by the owners, and

COMMUNICABLE DISEASES.

this demonstrates how thoroughly the public has been educated as to the necessity of such renovation and disinfection. During 1911 disinfection at "previous address" of consumptives was inaugurated.

TUBERCULOSIS CLINICS AND DAY CAMPS.

During 1911 the following new accomplishments under this heading were effected: New tuberculosis clinics were opened at 55 Sumner avenue and 108 South Third street, Brooklyn, and at 307 West 33d street, Manhattan. In Manhattan the attendance at the Italian tuberculosis clinic increased so rapidly that it was found necessary to lease a larger building at 320 East 116th street. The tuberculosis clinic of the Good Samaritan Dispensary is now conducted by the Department of Health. The establishment of a system of co-operative confirmatory examinations by the physicians of the clinics has rendered their diagnosis more accurate. The work of the clinic is now done by the district nurses, thus bringing them in closer touch with their patients. Late in the year, owing to failure to obtain an increased appropriation for 1912 for clinic physicians, it became necessary to close the morning classes at several of the clinics. The work of these morning classes had previously been performed by volunteers. A system of current statistical tabulation of cases was introduced in all clinics. The work of the Women's Auxiliaries to the tuberculosis clinics was greatly extended and new auxiliaries were formed at the Italian and East Side clinics in Manhattan, a special nurse being detailed in each district to assist the auxiliary. During 1911 the Department of Health assumed all expenses of the two day camps, and the Erie Railroad substituted the ferry-boat *Rutherford* for the *Susquehanna*, first removing the engine and boiler and entirely remodeling the interior of the boat. The expense was borne by the Tuberculosis Committee of the Brooklyn Bureau of Charities.

PULMONARY TUBERCULOSIS AND TUBERCULOUS MENINGITIS.

In 1910 an astonishing fall took place in the number of deaths from pulmonary tuberculosis and tuberculous meningitis in children under thirteen years of age, as shown in the accompanying table. The trend of this class of deaths has been downward for a number of years, but in 1909 the number suddenly rose, and during 1910 again fell to a point below the figures of 1908.

TYPHOID FEVER, CEREBRO-SPINAL MENINGITIS AND ACUTE POLIOMYELITIS.

The principal accomplishments in 1911 were the extension and improvement of the system of supervision and investigation of typhoid fever and the sanitary supervision of acute poliomyelitis, or infantile paralysis.

On November 1, 1910, acute poliomyelitis was declared to be a communicable disease and was made reportable by the Board of Health, and this division was charged with enforcing the regulations regarding its quarantine, the exclusion from school of children exposed to it, and the disinfection of premises on the termination of cases. The infectious character of this disease had long been suspected, but it was not until 1909-1910 that conclusive evidence was obtained showing that infantile paralysis was due to an infectious agent or virus.

OTHER WORK ON COMMUNICABLE DISEASES.

The physical examination of women convicted of vagrancy by the Night Courts was begun May 18, 1911, and was terminated June 17, 1911, in accordance with a decision of the Court of Appeals, which declared unconstitutional Clause 79 of the Inferior Courts Act of 1910. The bi-monthly publication of "Communicable News," issued for the information of employees, was begun January 18, 1911. In December,

COMMUNICABLE DISEASES.

1911, the printing establishment of the division was removed to larger and better quarters at 424 First avenue in the new building of the Tuberculosis Hospital Admission Bureau. The exclusion of tuberculous children from school has been systematized and only those showing tubercle bacilli in their sputum are now excluded. A census was taken of the number of children under five years of age and those between five and fifteen years suffering from tuberculosis, and the results published. Assistance was given to the Association of Tuberculosis Clinics and the Committee for the Prevention of Tuberculosis of the Charity Organization Society. Enlarged pin maps of the districts of the Manhattan tuberculosis clinics were prepared and distributed, together with the necessary colored pins, and large frame charts stating the requirements for admission to tuberculosis sanatoria were prepared and issued. An edition in Italian of 25,000 circulars warning against so-called "consumption cures" was printed for the Italian Tuberculosis Committee of the Charity Organization Society, which committee was also supplied with literature in Italian relating to tuberculosis. Tuberculosis literature in Yiddish was also furnished in large quantity to the Tuberculosis Committee of the Brooklyn Bureau of Charities. Stereopticon tuberculosis exhibitions were given in the public parks during the summer. These were supplemented by lectures for which arrangements were very kindly made by the Committee for the Prevention of Tuberculosis of the Charity Organization Society. The lantern slides used in these exhibitions have been revised, brought up to date, added to and catalogued. All the tuberculosis circulars distributed by the district nurses and clinics have been rewritten and issued in a uniform size. A system of branch offices has been established and a new system of registration of tuberculosis has been installed in each borough. By locating the tuberculosis records at branch offices in the tuberculosis clinic districts, and by using the nurses' reports as records, a great deal of duplication of work, such as the copying of reports, has been abolished, the work of the nurses can now be accurately assigned and controlled and the records are more accurate in every way. A number of new blanks and forms necessary in connection with the new procedure have been prepared, new ledger desks have been installed in branch offices for all tuberculosis registration files and a complete report describing and illustrating the new system is in course of preparation.

VENEREAL DISEASES.

After some years of preliminary consideration definite action toward the public sanitary control of venereal diseases was first taken by the Board of Health on April 5, 1911, when a resolution was adopted expressing the conviction that the development of a comprehensive plan for such control was necessary for the protection of the public health and, as the first and most important step, an appropriation was requested for the construction of a hospital for the care of patients suffering from these diseases. The city authorities acted favorably on this request, and later in the year an appropriation of \$55,000 was made available to the Department of Health for this purpose. It is hoped to have this hospital in operation early in 1913.

COMMUNICABLE DISEASES.

Summary of Work.

	Tuberculosis.			Diphtheria.			Typhoid Fever.			Cerebro-spinal Meningitis.			Others.		
	1909	1910	1911	1909	1910	1911	1909	1910	1911	1909	1910	1911	1909	1910	1911
Cases visited.....	18,377	72,435	.....	6,028	6,879	6,167	3,442	3,582	3,450	346	242	266	55	4	642
Visit to cases by Inspectors.....	23,583	6,196	4,324	16,825	17,433	14,278	7,310	6,155	8,071	802	685	579	55	4	.....
Visit to cases by nurses.....	26,109	241,181	226,859	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Disinfections of premises.....	4,365	6,058	8,796	.....	.....	.....	85	75	29	196	116	129	.....	.....	.....
Lots of goods disinfected.....	5,362	5,923	7,021	.....	.....	.....	607	517	349	145	101	104	.....	.....	.....
Removals to hospitals.....	452	27	68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

COMMUNICABLE DISEASES.

Tuberculosis—General Figures.

Year.	* New Cases Reported, Phthisis.	Duplicates.	Deaths, Phthisis, Cases not Previously Reported.	Total New Cases, Phthisis.	New Cases, Phthisis, per 1,000 of Population.	Total Deaths, Phthisis.	Deaths, Other Tuberculosis.	Total Tuberculosis Deaths.	Deaths, Phthisis, per 1,000 of Population.	Deaths, All Tuberculosis, per 1,000 of Population.
New York—										
1905.....	19,117	11,642	1,714	20,831	5.17	8,535	1,123	9,658	2.12	2.40
1906.....	18,106	10,741	1,979	20,985	4.84	8,955	1,239	10,194	2.16	2.45
1907.....	17,775	13,005	1,950	19,725	4.60	9,008	1,264	10,272	2.10	2.39
1908.....	21,365	13,457	1,960	23,325	5.27	8,870	1,277	10,147	2.01	2.29
1909.....	23,570	16,223	2,097	25,667	5.62	8,643	1,267	9,910	1.89	2.17
1910.....	29,256	33,023	2,809	32,065	6.67	8,692	1,382	10,074	1.81	2.10
1911.....	22,396	41,820	2,117	24,513	4.92	8,790	1,460	10,250	1.76	2.06
Manhattan—										
1905.....	13,214	9,106	867	14,081	6.65	4,237	597	4,834	2.00	2.28
1906.....	11,471	7,537	1,222	12,693	5.83	4,450	710	5,160	2.05	2.37
1907.....	11,252	10,055	1,160	12,412	5.56	4,570	684	5,254	2.05	2.35
1908.....	13,357	10,721	1,377	14,734	6.42	4,423	741	5,164	1.93	2.25
1909.....	15,399	11,960	1,478	16,877	7.17	4,205	738	4,943	1.78	2.10
1910.....	19,432	24,203	1,948	21,380	9.13	3,975	814	4,789	1.70	2.05
1911.....	14,153	27,859	1,348	15,501	6.49	4,221	859	5,080	1.77	2.13
The Bronx—										
1905.....	837	358	118	955	3.50	1,441	73	1,514	5.28	5.54
1906.....	1,045	664	153	1,198	4.13	1,450	86	1,536	5.00	5.29
1907.....	1,153	691	174	1,327	4.31	1,460	97	1,557	4.74	5.05
1908.....	1,393	809	93	1,486	4.54	1,508	95	1,603	4.61	4.90
1909.....	1,437	2,437	164	1,601	4.60	1,623	88	1,711	4.66	4.92
1910.....	1,899	3,019	188	2,087	4.75	1,178	115	1,896	4.05	4.31
1911.....	1,688	5,992	171	1,859	3.85	1,573	107	1,680	3.26	3.48
Brooklyn—										
1905.....	4,283	2,026	614	4,897	3.59	2,420	389	2,809	1.78	2.06
1906.....	4,847	2,202	477	5,324	3.79	2,557	389	2,946	1.82	2.10
1907.....	4,680	1,943	477	5,157	3.56	2,515	412	2,927	1.74	2.02
1908.....	5,824	1,553	409	6,233	4.17	2,484	382	2,866	1.66	1.92
1909.....	6,057	1,358	350	6,407	4.16	2,347	381	2,728	1.52	1.77
1910.....	7,068	5,481	524	7,592	4.61	2,430	384	2,814	1.48	1.71
1911.....	5,568	7,706	498	6,066	3.54	2,464	419	2,883	1.44	1.69
Queens—										
1905.....	430	19	74	504	2.53	278	43	321	1.40	1.61
1906.....	504	206	99	603	2.88	308	41	349	1.47	1.66
1907.....	530	195	115	645	2.93	307	49	356	1.39	1.61
1908.....	561	353	37	598	2.57	283	38	321	1.22	1.38
1909.....	549	468	76	625	2.56	309	43	352	1.26	1.44
1910.....	682	315	118	800	2.78	358	48	406	1.24	1.41
1911.....	773	212	78	851	2.75	361	53	414	1.16	1.33
Richmond—										
1905.....	353	133	41	394	5.47	159	21	180	2.20	2.50
1906.....	239	132	28	267	3.60	190	13	203	2.56	2.74
1907.....	166	121	24	184	2.45	156	22	178	2.08	2.37
1908.....	230	21	44	274	3.60	172	21	193	2.26	2.54
1909.....	128	....	29	157	2.04	159	17	176	2.04	2.26
1910.....	175	5	31	206	2.40	148	21	169	1.71	1.95
1911.....	214	51	22	236	2.65	171	22	193	1.91	2.15

* Excluding duplicates.

COMMUNICABLE DISEASES.

Tuberculosis.

CITY OF NEW YORK.

	1909.	1910.	1911.
<i>Register—Living Cases.</i>			
Cases enrolled at beginning of year.....	29,736	36,652	27,477
Under care of private physicians.....	6,093	5,843	2,838
* Under care of dispensaries or clinics.....	2,189	5,476	5,762
At home and under supervision of department.....	8,748	11,863	6,056
In institutions in city.....	3,401	3,980	3,648
In institutions outside city.....	534	802	2,445
† Not found at address given.....	8,771	8,688	6,728
New (living) cases reported.....	23,570	29,256	22,396
By physicians.....	3,806	4,915	3,736
By sputum.....	4,309	3,853	3,845
By institutions.....	15,365	20,884	14,815
Old cases resumed.....	703	1,543	5,248
Total living cases enrolled.....	54,009	67,451	55,121
Cases removed from register during year.....	17,357	39,974	22,486
Deaths.....	7,722	9,246	7,244
Removals from city.....	1,688	4,659	2,735
† Not found; held for 2 years.....	7,421	24,222	7,454
Recovered.....	526	1,847	5,053
Cases enrolled at end of year.....	36,652	27,477	32,635
Under care of private physicians.....	5,843	2,838	3,591
Under care of dispensaries or clinics.....	5,476	5,762	2,671
At home and under supervision of department.....	11,863	6,056	10,207
In institutions in city.....	3,980	3,648	3,300
In institutions outside city.....	802	2,445	2,001
† Not found at address given.....	8,688	6,728	10,865
Total.....	36,652	27,477	32,635
<i>District Inspection.</i>			
Inspectors:			
Premises visited on account of:			
**Deaths.....	6,296	.....	.....
††Cases removing to hospitals.....	8,816	.....	.....
††Cases removing from city.....	793	.....	.....
††Cases changing address.....	800	.....	.....
Cases "at home" visited on complaint.....	868	748	339
Suspected cases.....	804	1,451	1,503
Total cases inspected.....	18,377	.....	.....
Visits to cases inspected.....	23,583	6,196	4,324
Total visits by Inspectors.....	23,583	6,196	4,324
Nurses:			
Total months all "at home" cases under observation by district nurses.....	1,074	.....	.....
Visits to cases "at home" under observation.....	2,596	.....	.....
Average visits per month per case "at home" under observation.....	2.4	.....	.....
Visits to investigate or trace cases.....	9,401	.....	.....
Total visits by District Nurses.....	26,109	241,181	226,859
Disposition of Cases:			
Forcible removal to hospital.....	25	27	68
References of cases to hospitals.....	427	1,263	747
References of cases to charitable organizations.....	179	1,411	977
Renovations compelled by inspectors' complaints.....	2,011	2,397	2,522
Renovations made voluntarily.....	3,715	12,411	9,572
Disinfections of premises ordered.....	4,365	6,058	8,796
Disinfections of goods ordered.....	5,362	5,923	7,021

* Other than the Department clinics.

† Held in current register 2 years; after that time, removed to files.

** From any one of several files, or not previously reported.

†† From any one of several files.

COMMUNICABLE DISEASES

Tuberculosis Clinics.

CITY OF NEW YORK.

	1908.	1909.	1910.	1911.
Diagnosis:				
Under observation for diagnosis January 1.....	681	857	762	800
New patients examined during year.....	7,888	10,068	17,274	16,562
Readmitted for diagnosis.....	559	915	1,272	2,934
Total.....	9,128	11,840	19,308	20,296
Found not tuberculous and discharged.....	422	1,337	3,013	6,114
Suspected cases transferred to other clinics....	.....	.....	1,343	1,344
Found tuberculous.....	4,468	5,444	9,140	6,099
Discontinuing, not coming for diagnosis.....	3,381	4,297	5,012	6,099
Under observation for diagnosis December 31..	857	762	800	640
Total.....	9,128	11,840	19,308	20,296
Cases Under Treatment:				
Under treatment January 1.....	2,027	2,257	2,240	2,981
New cases coming under treatment.....	7,888	10,068	17,274	16,562
Old cases readmitted.....	1,984	3,534	5,114	9,027
Total.....	11,899	15,859	24,628	28,570
Found not tuberculous and discharged.....	422	1,337	3,013	6,111
Deaths.....	302	134	138	138
Transferred to other clinics.....	1,465	2,953	5,268	3,104
Entered hospitals.....	598	336	455	510
Entered sanatoria.....	354	305	198	281
Discontinued, not found.....	689	672	508	520
Discontinued, not coming for treatment.....	5,812	7,882	12,067	14,898
Under treatment December 31.....	2,257	2,240	2,981	3,008
Total.....	11,899	15,859	24,628	28,570
Total treatments of Patients.....	44,598	53,631	77,564	92,593
Average visit per months per patient.....	3.48	2.38	4.5	.....
Prescriptions filled for clinic patients.....	69,037	70,983	85,044	117,949
Referred for hospital treatment.....	701	674	862	.....
Referred for charitable aid.....	326	225	465	.....

COMMUNICABLE DISEASES.

Diphtheria—General Figures.

Year.	Cases Reported.	Cases per 1,000 of Population.	Deaths.	Deaths per 1,000 of Population.	Cases Fatality Per Cent.	Per Cent. of Cases Reported Injected at Home by Department of Health.
New York:						
1904.....	18,158	4.65	2,084	.53	11.4	....
1905.....	13,686	3.40	1,544	.38	11.2	14.9
1906.....	14,757	3.55	1,898	.46	12.8	16.1
1907.....	15,276	3.56	1,740	.41	11.3	33.7
1908.....	16,431	3.71	1,758	.40	10.7	34.3
1909.....	15,097	3.30	1,714	.37	11.4	39.9
1910.....	16,940	3.52	1,715	.36	10.1	40.6
1911.....	13,485	2.71	1,281	.26	9.5	45.7
Manhattan:						
1904.....	11,016	5.34	1,123	.54	10.1	17.6
1905.....	7,553	3.56	6.60	.31	8.7	22.9
1906.....	7,444	3.42	731	.34	9.8	21.3
1907.....	7,285	3.26	841	.38	11.5	47.6
1908.....	8,263	3.60	939	.41	11.3	45.7
1909.....	7,933	3.37	963	.41	12.1	53.5
1910.....	8,090	3.83	898	.38	10.0	52.1
1911.....	6,511	2.73	657	.28	10.1	62.1
Brooklyn:						
1904.....	5,026	3.80	706	.53	14.0	*
1905.....	4,307	3.16	594	.44	13.7	4.2
1906.....	5,211	3.71	793	.56	15.2	8.1
1907.....	5,398	3.72	603	.42	11.1	17.5
1908.....	5,451	3.65	549	.41	10.0	20.0
1909.....	4,735	3.08	556	.36	11.7	22.1
1910.....	5,023	3.05	558	.34	11.1	23.2
1911.....	4,492	2.63	395	.23	8.8	27.8
The Bronx:						
1904.....	1,167	4.56	149	.58	12.7	33.3
1905.....	992	3.63	200	.73	20.1	18.3
1906.....	1,251	4.31	252	.87	20.1	21.3
1907.....	1,478	4.79	174	.56	11.7	37.9
1908.....	1,648	5.04	158	.48	9.6	35.0
1909.....	1,335	3.84	102	.29	7.7	38.1
1910.....	1,696	3.86	136	.31	8.0	43.5
1911.....	1,496	3.10	144	.30	9.6	44.0
Queens:						
1904.....	517	2.73	71	.38	13.7	....
1905.....	577	2.90	72	.36	12.4	9.6
1906.....	627	3.00	94	.45	14.9	12.7
1907.....	821	3.73	96	.43	11.6	20.3
1908.....	785	3.38	91	.39	11.6	16.7
1909.....	764	3.13	73	.30	9.6	16.5
1910.....	992	3.44	104	.36	10.5	19.8
1911.....	777	2.51	63	.20	8.1	21.0
Richmond:						
1904.....	432	6.08	35	.49	8.1	....
1905.....	257	3.57	18	.25	7.0	3.0
1906.....	224	3.02	28	.38	12.5	4.0
1907.....	294	3.92	26	.41	10.5	10.9
1908.....	284	3.73	21	.34	10.2	22.5
1909.....	330	4.29	20	.26	6.1	31.5
1910.....	239	2.80	19	.22	7.9	41.0
1911.....	209	2.34	22	.25	10.6	25.0

* No record.

COMMUNICABLE DISEASES.

Diphtheria: Injection, Intubation and Immunization.

	1910.					1911.						
	New York.	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.	New York.	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.
Injection of Antitoxin:												
Cases of diphtheria reported.....	16,940	8,900	5,023	1,696	992	239	13,485	6,511	4,492	1,496	777	209
Cases injected by Department Inspectors.....	6,879	4,683	1,104	738	106	98	6,167	4,046	1,249	657	163	52
Percentage injected by Department Inspectors.....	40.6	52.1	23.2	43.5	19.8	41.0	45.7	62.1	27.8	44.0	21.0	25.0
†Cases injected by private physicians.....	2,279	1,687	748	288	142	14	1,839	684	764	210	144	37
Percentage injected by private physicians.....	13.5	12.1	14.9	17.0	14.3	5.9	13.6	10.5	17.0	14.0	18.5	17.7
By Department Inspectors:												
**Cases injected, considered as diphtheria.....	3,665	2,347	695	437	149	37	3,228	1,744	964	362	126	32
Deaths.....	173	103	31	23	15	1	182	94	48	23	10	7
Case fatality, per cent.....	4.7	4.3	4.5	5.3	10.1	2.7	5.6	5.4	5.0	6.4	7.9	21.0
‡Deaths, moribund deducted.....	123	81	13	17	11	1	122	71	29	13	7	2
†Case fatality, per cent, moribund deducted.....	3.4	3.5	1.9	3.9	7.6	2.7	3.9	4.1	3.0	3.5	5.5	7.4
†By Private Physicians:												
Cases injected, considered as diphtheria.....	1,557	759	495	178	113	12	1,388	515	558	155	125	35
Deaths.....	132	59	62	6	5	...	87	30	40	6	6	7
Case fatality, per cent.....	8.4	7.8	12.5	3.4	4.4	...	6.3	5.8	7.2	2.6	4.8	20.0
‡Deaths, moribund deducted.....	84	39	39	3	3	...	50	21	19	2	5	3
†Case fatality, per cent, moribund deducted.....	5.4	5.3	8.3	1.7	2.7	...	3.7	4.2	3.5	1.3	4.0	9.7
Intubation of Laryngeal Cases:												
By Department Inspectors:												
Total laryngeal cases.....	1,101	730	221	91	54	5	1,237	884	258	59	18	18
Deaths.....	140	80	34	11	15	...	73	27	32	6	4	4
Fatality, per cent.....	12.7	11.0	15.4	12.1	27.8	...	5.9	3.1	12.4	10.2	22.2	22.2
Cases intubated.....	281	105	132	20	24	...	283	137	103	20	7	4
Deaths.....	61	23	28	5	5	...	51	13	26	5	3	4
Fatality, per cent.....	21.7	21.9	21.2	25.0	20.8	...	18.0	9.5	25.2	17.2	42.9	57.1
Cases not intubated.....	820	625	89	71	30	5	954	747	155	30	11	11
Deaths.....	79	57	6	6	10	...	22	11	6	1	1	...
Fatality, per cent.....	9.6	9.1	6.7	8.5	33.3	...	2.3	1.9	3.9	3.3	9.1	...
Immunization:												
By Department Inspectors:												
Number immunized.....	14,600	7,450	2,654	3,756	426	314	9,056	4,338	2,311	1,775	499	133
Number contracting disease between 2 and 30 days.....	18	7	5	4	2	...	22	8	2	2	10	...
Visits by Department Inspectors:												
Total visits to diphtheria cases.....	17,433	10,905	3,738	1,807	683	300	14,278	8,120	3,838	1,656	559	105
Average visits per case.....	2.5	2.3	3.2	2.4	3.5	3.1	2.3	2.0	3.1	2.5	3.4	2.0
Total injections.....	9,972	4,959	3,879	786	225	123	6,454	4,180	1,353	685	177	59

† With antitoxin furnished free by the Department of Health.
 ‡ Cases dying within 24 hours after injection.
 ** Excluding cases not showing diphtheria bacilli and those entering department hospitals.

COMMUNICABLE DISEASES.

Typhoid and Cerebro-spinal Meningitis; General Figures—Cases Reported, Case Rate, and Death Rate.

NEW YORK CITY.	Cases Reported.	Cases per 1,000 of Population.	Deaths.	Deaths per 1,000 of Population.
Typhoid:				
Year of 1904.....	3,412	.87	661	.17
Year of 1905.....	4,326	1.07	649	.16
Year of 1906.....	3,467	.84	639	.15
Year of 1907.....	4,426	1.03	740	.17
Year of 1908.....	3,058	.69	536	.12
Year of 1909.....	3,499	.77	564	.12
Year of 1910.....	3,582	.75	558	.11
Year of 1911.....	3,450	.69	545	.11
Cerebro-spinal Meningitis:				
Year of 1905.....	2,755	.68	2,025	.50
Year of 1906.....	1,032	.24	812	.19
Year of 1907.....	828	.19	642	.15
Year of 1908.....	380	.08	316	.07
Year of 1909.....	346	.07	326	.07
Year of 1910.....	242	.05	191	.039
Year of 1911.....	266	.05	224	.04

Typhoid Fever and Cebro-Spinal Meningitis—General Figures and Inspection.

NEW YORK CITY.	Typhoid Fever.		Cerebro-Spinal Meningitis.	
	1910.	1911.	1910.	1911.
Cases reported.....	3,582	3,450	242	266
Cases per 1,000 of population.....	.75	.69	.05	.05
*Deaths.....	558	545	191	224
Cases fatality, per cent.....	15.6	15.8	78.9	84.2
Deaths per 1,000 of population.....	.11	.11	.039	.04
Cases visited.....	3,582	3,450	242	266
Visits to cases.....	6,155	8,071	685	579
Disinfections of premises ordered.....	75	29	116	129
Disinfections of goods ordered.....	517	349	101	104

* The deaths from cerebro-spinal meningitis in this table do not correspond with the deaths listed by the Bureau of Records; the latter includes deaths from other forms of meningitis.

Diagnosis Laboratory—Specimens Submitted for Examination.

	Number of Specimens Submitted for Diagnosis by					
	Department of Health.			Private Physicians.		
	1909.	1910.	1911.	1909.	1910.	1911.
Diphtheria.....	43,113	45,459	41,518	24,570	28,727	27,350
Tuberculosis.....	16,343	19,593	19,638	19,688	19,251	20,410
Typhoid.....	2,454	2,091	78	8,460	9,913	13,417
Widal reaction.....	2,388	2,042	77	6,427	7,604	10,472
Diazo reaction.....	66	49	1	2,033	2,309	2,945
Malaria.....	136	118	3	1,666	1,868	2,373
Cerebro-spinal meningitis.....	7	4	1	24	16	56
Glanders.....	75	1,168	544	3	54	190
Pus (ganococcus).....	47	304	226	2	21	327
Urine.....	.....	.....	1	.....	.....	3
Total.....	62,175	68,737	62,009	54,413	59,850	64,126
Percentage.....	53.3	53.5	49.1	46.7	46.5	51.9

COMMUNICABLE DISEASES.

Diagnosis Laboratory—Specimens Examined and Results of Examinations.

New York City.	1909.	1910.	1911.
Diphtheria:			
Bacteriological examinations for diagnosis.....	36,155	39,802	37,613
Showing Klebs-Loeffler bacilli.....	11,369	12,474	9,894
Not showing Klebs-Loeffler bacilli.....	24,750	27,328	27,716
Indecisive.....	36	.....	3
Later cultures.....	30,136	33,265	29,471
Other cultures.....	1,392	1,119	1,784
Total cultures.....	67,683	74,186	68,868
Tuberculosis Sputum:			
Specimens examined.....	36,031	38,844	40,048
Showing tubercle bacilli.....	8,125	9,052	9,659
Showing no tubercle bacilli.....	27,906	29,792	30,389
Typhoid:			
Widal reaction:			
Specimens of blood examined.....	8,815	9,646	10,549
Showing reaction.....	2,519	2,394	2,076
Showing no reaction.....	5,754	6,649	8,039
Indecisive.....	542	603	434
Diazo reaction:			
Specimens examined.....	2,099	2,358	2,946
Showing diazo reaction.....	680	670	604
Showing no diazo reaction.....	1,400	1,674	2,335
Showing doubtful reaction.....	19	14	7
Malaria:			
Specimens examined.....	1,802	1,986	2,376
Showing malaria plas.....	158	183	211
Showing no malaria plas.....	1,644	1,803	2,165
Cerebro-spinal Meningitis:			
Specimens examined.....	31	20	57
Positive.....	.....	2	6
Negative.....	31	18	51
Glanders:			
Specimens examined.....	78	1,222	734
Specimens examined very suspicious.....	7	149	194
Specimens examined suspicious.....	37	272	194
Specimens examined negative.....	34	801	346
Pus. (gonococcus):			
Specimens examined.....	49	325	553
Specimens examined showing gonococci.....	11	94	132
Specimens examined showing no gonococci.....	35	229	417
Specimens examined indecisive.....	3	2	4
Miscellaneous:			
*Average number of culture stations.....	338	464	499
Visits to collect specimens.....	37,154	64,444	70,831
Culture tubes prepared.....	116,275	128,010	125,280
Swabs made.....	131,500	137,150	180,620
Laboratory preparations made.....	116,588	128,587	126,135
Widal outfits prepared.....	13,323	14,150	13,820
Diazo outfits prepared.....	3,488	14,082	6,438
Malaria outfits prepared.....	6,044	14,662	9,066
C. S. M. outfits prepared.....	350	2,012	743
Sputum jars prepared.....	63,148	69,279	60,455

* Average of those in operation on the first of each month.

CHILD HYGIENE.

SUPERVISION OF MIDWIVES.

From April 15 to September 15, 1910, every birth reported by a midwife was made the subject of a visit by a nurse of the division. This system formed the basis of the plan for the work in the reduction in infant mortality, for it was felt that women attended in their confinements by midwives were those who more definitely needed instruction in the care of their babies. The early visiting of these cases was also of benefit in inducing mothers to nurse their babies, and afforded an opportunity to observe any lack of care on the part of the midwife, resulting in harm to the mother or child. Thirty-two thousand two hundred and one (32,201) mothers who had been attended by midwives were visited during the period mentioned. Twenty-three (23) cases of ophthalmia neonatorum were thus discovered and were made the subject of special investigation. As the midwives have heretofore been held mainly responsible for the existence of this disease, the foregoing figures are most encouraging as showing a gratifying decrease in the number of cases observed in their practice. During 1910 an improved container for the 1 per cent. solution of nitrate of silver distributed free to midwives was devised. This container consisted of a small bee's-wax tube, holding about six drops of the solution. A circular of directions is distributed with the containers, and the use of nitrate of silver by midwives in the eyes of all new-born babies is required by the rules of the Department.

Every case of puerperal septicæmia occurring during 1910 was investigated. Midwives reported 49,616, or 40 per cent. of all births reported during the year, while of the total deaths from puerperal septicæmia (236) 69, or 29 per cent., were of women attended during confinement by midwives, while 138, or 59 per cent., were attended solely by physicians. In 29, or 12 per cent. of the cases, no reliable information could be obtained. All midwives practicing are now required by law to have licenses from the Department, and special investigations and inspections are made in each case before a license is granted. Thereafter reinspections are made at the midwives' homes to determine the character of their equipment and surroundings, a special force of medical inspectors being detailed for this purpose.

Nursery, Midwifery and Institutional Work.

	1909	1910	1911
Midwives—			
Inspections.....	981	1,515	1,488
Reinspections.....	2,883	3,272	10,037
Foundlings—			
Inspections.....	3,586	4,653	4,010
Reinspections.....	12,899	17,527	29,291
Institutions—			
Inspections.....	10	19	4
Reinspections.....	678	806	887
Day Nurseries—			
Inspections.....	19	37	23
Reinspections.....	710	818	970

CHILD HYGIENE.

During the year 1911 efforts were restricted to the supervision of midwives themselves, for it was found impossible to visit the babies whose births they reported, on account of the fact that the increased efforts of the nurses in the reduction of infant mortality prevented their employment for these visits. During the year 1911 1,488 primary inspections of the homes of the midwives were made and 10,037 reinspections.

EDUCATION OF MOTHERS IN THE CARE OF BABIES—1910.

District Visiting.

In addition to visiting babies whose births had been reported by midwives, the nurse during 1910 canvassed certain selected districts and instructed the mothers of all babies under one year of age regarding proper infant hygiene and feeding. The knowledge that any effort to lower permanently the infant death rate must be preventive in character was acted upon by concentrating the nurses' efforts upon the well baby, with the definite purpose of keeping the baby well rather than attempting to cure sickness after it had occurred. In all cases visited the nurses personally instructed the mothers in the proper way to care for the babies. Posters and pamphlets of instruction were distributed, methods of milk modification, the care of milk and utensils, bathing and dressing babies, and sanitary and hygienic requirements were explained and demonstrated. From April 15th to July 1st the nurses on school duty devoted part of their time to this work. From July 1st to September 15th the entire time of the nursing staff was concentrated upon its effort to "keep the baby well."

CLINICS.

Believing that a large number of mothers who could not be visited at their homes could be reached and instructed in groups, the division greatly elaborated its plan for so-called educational centers. These centers, established in infants' milk stations conducted by philanthropic agencies, in school playgrounds, recreation piers and offices of charity organizations, consisted of established places, known to and advertised in the neighborhood, where lectures on the care of babies were delivered and clinics for sick babies were held once or twice during the summer months. Eighty-six (86) of these centers were established in 1910. An inspector and nurse were on duty in each center, and in addition to the short, simple and personal talk given by the inspector, the nurse demonstrated each detail of baby care. Four thousand eight hundred and fifty-four (4,854) mothers were reached in this way. Conferences and lectures were continued and elaborated during 1911.

LITTLE MOTHERS' LEAGUES.

Realizing that the co-operation of all girls over twelve years of age, many of whom were often the sole caretakers of babies in their families, was an adjunct of immense value, the division made a special effort to increase the number of Little Mothers' Leagues and to broaden their purpose and usefulness. In the early part of June, 1910, the medical inspectors lectured in each public school upon the subject of infant mortality and the method by which it might be reduced. After the lecture the girls were asked to volunteer to aid in the summer's campaign. Seventy-one (71) leagues were thus formed with a total membership of nearly 20,000. The Department provided an equipment for each league, consisting of scales for weighing the baby, gas stoves, boilers, dishes, measuring glasses and spoons for demonstrating the methods of milk modification, bottles and nipples for lessons in care and cleanliness, bathtub, bath thermometer, baby clothes, rubber sheeting, towels, boric acid, powder, etc., for teaching infant hygiene. A certificate of membership was given to each mem-

CHILD HYGIENE.

ber of the league and badges were given after six meetings had been attended. Weekly meetings were held throughout the year.

During 1911 239 leagues were formed and 17,050 enrolled.

REDUCTION OF INFANT MORTALITY—1911.

Infants' Milk Stations.

During the year 1911 a special appropriation of \$40,000 enabled the Department to establish fifteen infants' milk stations, nine in the Borough of Brooklyn, five in the Borough of Manhattan and one in the Borough of The Bronx. Sixty-four (64) were, in addition, maintained by the New York Milk Committee, the Brooklyn Children's Aid Society, the New York Diet Kitchen Association, the Nathan Straus Pasteurized Milk Laboratories, the Babies' Dairies, the Morningside Milk Dispensary, the Nurses' Settlement and the Good Samaritan Dispensary. In order that the work might attain the highest degree of efficiency, these various societies formed an "Association of Infants' Milk Stations." Similar systems for the keeping of records were installed in all stations and a central office was established at the Department of Health. The weekly reports of the various stations were received at this office, which was made the headquarters for a campaign of educational publicity through the newspapers. From the opening of the Department's milk stations until January 1, 1912, 7,802 babies were enrolled. At the end of the year there were 3,328 on the register, the remainder having been dropped because of removal from the vicinity of a station, refusal to obey orders, transfer to another station, or for some equally good reason. Prior to the establishment of each station the mother of every new-born infant within a radius of four blocks received a letter from the Department calling her attention to the fact that an infants' milk station was to be opened in the neighborhood and urging her to visit it. Particular stress was laid upon the necessity of mothers obtaining milk for themselves in order that they might better nurse their own babies.

During 1911 80 deaths occurred among the babies attending the Department's milk stations. Forty-six (46) of these deaths were caused by diarrhoea and 34 were due to other causes. From April 15th to October 15th there were 11,644 babies under the control of the Association of Infants' Milk Stations. Among these there were 294 deaths, a death rate of $2\frac{1}{2}$ per cent.

Work of the District Nurses.

On the first of May, 1911, the nurses detailed to duty in the schools were also required to take part in the work directed toward the reduction of infant mortality. Each nurse was assigned to a district in those parts of the city in which statistics had shown that the birth rate and infant death rate were high. On and after July 1st the nurses' full time was given to this work. One hundred and fifty (150) names taken from the records of births reported by midwives were given to each nurse, and these babies continued under her charge for the remainder of the summer. She was required to visit them as often as might be necessary to insure their remaining in good health or to detect any symptoms of approaching illness. Each squad of two or three nurses was met each day by a medical inspector, who discussed with them the condition of the babies under their charge, and if the baby was found to be at all delicate a visit was made by the inspector at once in order to prevent illness if possible. A daily report upon the condition of each baby visited was sent to the Department, where a complete record of each baby was kept. From May 1st to September 15th there were 16,987 babies under the charge of the nurses. Among these 237 deaths occurred, a mortality of 1.4 per cent.

CHILD HYGIENE.

Reduction of Infant Mortality—Instruction of Mothers in the Care of Babies.

	1909	1910	1911
Home Visits—			
Number of babies under supervision in their homes.	57,059	47,741	16,987
Number of visits made to babies by nurses.	107,402	94,565	112,862
Number of sick babies treated by medical inspectors.	836	2,691	3,382
Number of visits to sick babies by medical inspectors.	1,924	7,691	9,210
Total number of visits to babies.	109,326	102,256	122,072
Lectures and Clinics—			
Number of lectures on the care of babies delivered to groups of mothers.	357	2,343	318
Number of clinics for babies held on recreation piers.	587	649	663
Little Mothers Leagues—			
Number of leagues organized.		71	239
Number of members enrolled.		22,510	17,050
Number of meetings held.		514	1,231
Ophthalmia Neonatorum—			
Number of cases reported.	12	26	34
<i>a</i> —Attended at birth by physician.	7	3	26
<i>b</i> —Attended at birth by midwife.	5	23	8
Puerperal Septicaemia—			
Number of deaths investigated.	84	236	223
<i>a</i> —Attended at birth by physician.	60	138	171
<i>b</i> —Attended at birth by midwife.	22	69	40
<i>c</i> —No information obtainable.	2	29	12

Care of Babies and Special Investigations.

	1909	1910	1911
Sick babies treated by inspectors.	836*	4,215	9,641
Revisits to sick babies.	No record	7,691	No record
Cases of sore eyes visited.	69	11	No record
Cases of ophthalmia neonatorum reported by postal and investigated.	12	18	38
Attended at birth by			
<i>a</i> . Midwife.	7	14	8
<i>b</i> . Physician.	5	4	15
<i>c</i> . Institution. . . . .	...	...	11
<i>d</i> . No information. . . . .	...	...	4
Cases of puerperal septicaemia investigated.	84	236	223
Attended at birth by			
Midwife.	22	69	38
Physician.	60	138	171
No attendant.	2	1	...
No information obtainable. . . . .	...	28	12
Physician and midwife. . . . .	...	...	2
Deaths of infants under one year investigated.	5	594	No record
Still-birth investigations.	428	620	490
Children examined for charitable organizations.	32,535	37,822	No record

*Reported as visits to sick babies—not treatments.

CHILD HYGIENE.

*Infants Milk Stations.***

1911

Number of stations.....	37
Cases brought forward.....	.....
New cases received.....	7,802
Total.....	7,802
Cases dropped*.....	4,474
Cases pending (December 31, 1911).....	3,328
Number of quarts of milk dispensed.....	538,245
Number of deaths due to diarrhœa.....	46
Number of deaths due to other causes.....	34
Total deaths.....	80
Number of visits of mothers.....	73,211
Number of instructions given to mothers individually.....	55,789
Number of visits of well babies.....	31,664
Number of visits of sick babies.....	12,522
Total number of visits of babies.....	44,186
Number of examinations of well babies.....	18,841
Number of treatments given to sick babies.....	11,767
Number of home visits to well babies by nurses.....	3,577
Number of home visits to sick babies by nurses.....	2,995
Total home visits by nurses.....	6,572

*Died, refused to attend—moved—transferred to other milk stations.

**First station was opened April 22, 1911.

INFANT MORTALITY STATISTICS—1910 AND 1911.

The results of the Department's activities in these directions were shown in the continued decrease in the rate of infant mortality from 137 per thousand under one year of age during 1909 to 134 per thousand for the same age during 1910. From January 1 until June 18, 1911, there was no decrease in the number of deaths under one year of age from all causes as compared with the same period in 1910. The work performed by the Department, and especially that of the milk stations, was not fully under way until the first of May, and by June 18th its good effects began to be apparent. By that time, notwithstanding a period of excessive heat more prolonged and intense than had been known in New York for many years, there was a most gratifying decrease in the number of deaths among children under one year of age from all causes, and by September 2d the number of deaths under one year of age was less by 1,041 than during the corresponding period during 1910. By the end of the year the total reduction amounted to 1,123, with a rate of 120 per thousand.

SUPERVISION OF FOUNDLINGS.

As during 1910 the death rate of infants in foundling institutions continued to be abnormally high, continuous efforts were made by the division to keep under supervision the private homes in which these babies were boarded and in which they received that individual care which has such a favorable effect in reducing the otherwise high institutional death rate. The Department requires that each woman wishing to

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board a foundling baby in her home must obtain a permit for this purpose. Home surroundings and personal habits are investigated and a permit is issued only when it is evident that the applicant is a proper person to be entrusted with the care of an infant. During 1910 4,653 permits were granted and a total of 22,180 home visits and investigations were made.

During 1911 there were 4,010 primary inspections and 29,282 reinspections.

DAY NURSERIES.

During the year 1910 the number of day nurseries had increased from 72 to 91. Each nursery is operated under a permit issued by the Department and subject to its supervision. In 1910 855 inspections were made of these nurseries and a gratifying improvement in equipment and conduct was made.

In 1911 there were 92 day nurseries which were regularly inspected and reinspected during the year. These nurseries as a class are in excellent condition.

INSTITUTIONS FOR DEPENDENT CHILDREN.

Under the provisions of a State law, monthly inspections are made of each institution in the city which harbors dependent children and receives from the State payment therefor. Particular attention is paid to the factors that have a bearing on the health of the child, and any infraction of sanitary or hygienic laws is brought to the attention of the proper authorities. During the year 1910 825 inspections were made of 66 institutions and during 1911 855 inspections of 65 institutions.

MEDICAL INSPECTION AND EXAMINATION OF SCHOOL CHILDREN.

During 1910, except in the outlying districts of the city, where the distances between the schools are great, and the schools themselves have but a small attendance, each public school in the city was visited each day by a medical inspector and nurse. Five hundred and ten (510) public schools with a registered attendance of 684,129 pupils, and 153 other free schools with a registered attendance of 100,316, have been under supervision. The number of contagious eye and skin diseases shows a decrease from 286,591 in 1909 to 263,828 in 1910. This reduction is exclusive of pediculosis, which is still unduly prevalent and shows no tendency to decrease, notwithstanding the vigorous efforts made to combat it. With this exception the types of this class of cases occurred in a milder form than during the previous year and the necessary exclusions decreased from 5,455 in 1909 to 4,131 in 1910, or 24 per cent.

During 1911 there were 517 public schools, with a registration of 684,207 pupils, under supervision. In addition, 151 other free schools, with a registration of 101,778 pupils, received a more or less complete series of inspections for the purpose of detecting contagious diseases.

Two hundred and sixty-five thousand one hundred and sixty-five (265,165) visits were made to the homes of school children by inspectors and nurses. In many instances it was found that while parents were perfectly willing to have their children treated, they were unable to give the time necessary for attendance at a dispensary for that purpose. In all such cases, at the written request of the parents, a nurse accompanied the child to a dispensary, when it could be definitely decided that the family were too poor to afford private medical care. During the year 3,638 children suffering from diphtheria, scarlet fever, measles, chicken-pox, pertussis, mumps and tuberculosis were excluded from school, and 3,361 were excluded on account of contagious diseases of the eye or skin. In this connection it is interesting to note that the employment of nurses for treatment in the schools of the latter class of cases has resulted in a marked decrease in the number of exclusions necessary. In 1903 57,655 children were excluded on account of contagious diseases of the eye or skin, while in

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1911, it was necessary to exclude 3,361. The cost of inspection for the detection of contagious diseases has amounted to 57 cents per one thousand children inspected. The cost of each physical examination averages \$.097 and the cost of the home visits of the nurses has averaged \$.60 in each case. There has never been a sufficient number of medical inspectors to permit of the physical examination of each child more frequently than once in two and a half years. Each child is examined upon entering school and again immediately before graduation.

Physical examinations have also been made of all boys wishing to take part in athletic contests. These examinations have had for their object the detection of cardiac affections, and permission to participate is refused in all cases in which cardiac lesions are present.

Medical Inspection of School Children.

	1909	1910	1911
Field of inspection—			
Total number of public schools.....	506	510	517
Registration.....	675,624	684,129	684,207
Public schools under inspection.....	504	506	513
Registration.....	674,667	682,292	680,905
Other schools under inspection.....	156	153	151
Registration.....	99,124	100,316	101,778
Total schools under inspection.....	660	659	664
Total registration of schools under inspection...	773,791	782,608	782,683
Medical inspectors on duty.....	131	136	139
Nurses on duty.....	133	136	132
Number of physical examinations.....	231,081	266,426	230,243
Number found needing treatment.....	172,112	196,664	166,368
Number reported treated.....	150,314	133,316	65,150
Cases found and excluded—			
General contagious diseases:			
Found at home.....	2,902	2,986	2,925
Excluded from school.....	5,441	4,173	4,790
Eye and skin diseases:			
Found in school.....	286,591	263,828	248,771
Excluded from school.....	5,455	4,131	3,361
Visits to homes:			
By inspectors.....	182,227	65,244	114,834
By nurses.....	167,939	179,822	150,331
Visits to dispensaries.....	576	932	1,328
School consultations.....	56,476	44,218	45,024

CHILD HYGIENE.

Contagious Diseases Found in Schools and Among School Children by Inspectors and Nurses—1910.
Number and Disposition of Cases.

General Contagious Diseases.											
	Diphtheria.	Scarlet Fever.	Measles.	Small-pox.	Chicken-pox.	Whooping-cough.	Mumps.	Tuberculosis.	Erysipelas.	Total.	
1909											
New York—	1,159	125	381	....	1,517	434	1,587	238	....	5,441	
Cases found in schools and excluded.....	71	207	1,194	....	744	367	316	3	....	2,902	
Cases found at home.....											
1910											
Cases found in schools and excluded.....	738	203	628	....	1,235	244	1,024	101	....	4,173	
Cases found at home.....	71	317	1,280	....	659	415	243	1	....	2,686	
1911											
Cases found in schools and excluded.....	848	198	414	....	1,347	329	1,475	178	1	4,790	
Cases found at home.....	54	258	859	....	841	531	405	7	....	2,925	
Communicable Diseases of Eye and Skin.											
	Tra- choma.	Conjunc- tivitis.	Ring- worm.	Impetigo.	Scabies.	Favus.	Pedic- ulosis.	Molluscum Con- tagiosum.	Miscel- laneous.	Total	
1909											
New York—	45,615	49,897	7,788	12,516	4,006	499	151,585	154	14,621	286,591	
Cases found in schools.....	1,392	1,338	121	250	319	18	2,914	3	....	5,455	
Cases excluded from school.....	310,465	159,012	48,046	63,620	23,697	3,321	783,241	991	82,526	1,474,019	
Number of treatments and instructions.....											
1910											
Cases found in schools.....	20,915	26,855	4,508	9,052	2,251	290	153,797	143	46,017	263,828	
Cases excluded from school.....	498	1,347	199	162	207	27	1,497	3	....	4,431	
Number of treatments and instructions.....	252,153	189,000	38,051	57,957	21,045	2,434	882,907	998	72,053	1,516,514	
1911											
Cases found in schools.....	15,245	25,941	4,083	7,713	1,768	229	152,045	96	41,660	248,771	
Cases excluded from school.....	136	1,137	138	227	1,115	33	1,475	....	....	3,361	
Number of treatments and instructions.....	179,472	166,667	31,610	43,206	13,867	1,321	859,861	458	68,725	1,365,127	

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Cases of Children Needing Treatment, Terminated and Disposition.—1910

	Manhattan.	Bronx.	Brooklyn.	Queens.	Richmond.	New York City
Cases terminated.	82,679	12,984	43,505	6,299	1,702	147,169
Reported treated.	74,946	11,775	39,481	5,594	1,520	133,316
Refused treatment.	578	189	1,522	396	21	2,706
Discharged from school.	7,155	1,020	2,502	309	161	11,147
Conditions Treated.						
Defective vision:						
Glasses.	6,599	790	2,070	356	114	9,929
Medical.	3,919	414	941	150	174	5,598
Defective hearing:						
Treatment.	434	172	243	73	33	955
Defective nasal breathing:						
Operative.	5,546	1,142	1,607	359	60	8,714
Medical.	9,148	1,596	2,816	681	129	14,370
Hypertrophied tonsils:						
Operative.	6,158	1,451	2,371	543	52	10,275
Medical.	9,154	1,846	4,227	1,315	201	16,743
Tuberculous lymph nodes:						
Treatment.	177	20	36	158	24	415
Pulmonary disease:						
Treatment.	216	171	41	13	6	447
Cardiac disease:						
Treatment.	738	297	402	43	36	1,426
Chorea:						
Treatment.	347	124	71	18	24	584
Orthopedic defect:						
Medical.	277	31	104	20	21	453
Physical culture.	380	90	94	23	50	637
Malnutrition:						
Medical.	2,667	401	610	24	87	3,798
Instructions.	1,150	83	355	19	63	1,670
Defective teeth:						
Extraction.	6,816	1,268	2,567	283	44	10,978
Filling.	9,277	1,969	3,151	547	253	15,197
Primary (instructed in mouth hygiene).	52,265	7,573	30,330	3,611	851	94,630
Defective palate:						
Treatment.	41	12	3	2	1	59
Instructions by department physicians and nurses.	33,066	4,282	23,095	2,263	602	63,398
Treated by physician (private):						
Glasses.	727	116	461	122	12	1,438
Operative.	7,037	1,704	4,420	629	122	13,912
Medical.	14,427	3,478	7,788	1,984	627	28,394
Treated in institutions:						
Glasses.	1,384	131	142	41	4	1,702
Operative.	8,915	1,193	1,945	354	60	12,437
Medical.	9,368	371	1,600	291	93	12,123
Home extraction of teeth.	2	.....	.....	.....	.....	2

CHILD HYGIENE.

Trachoma in School Children.

A marked decrease in the number of cases of trachoma found among the children (45,615 in 1909, 20,915 in 1910 and 15,245 in 1911) is due to three factors: First, the increasing vigilance on the part of the immigration authorities, who refused to allow any person suffering from this disease to enter the country; second, improved and more accurate method of diagnosis, and third, the persistent efforts carried on during the past few years by the Department in requiring adequate and persistent treatment for all cases. In common with other types of minor contagious diseases, trachoma occurs in a much milder form each year.

Tuberculosis.

It is the policy of the Department to exclude from school only those cases of pulmonary tuberculosis that show evidence of tubercle bacilli in the sputum. These children are either transferred to the open-air schools maintained for this purpose or are referred to sanatoria or hospitals. While the infection of other children is safeguarded by this plan, the children with a predisposition toward this disease are cared for by reference to the open-air classes conducted in several of the public schools.

Examination for Physical Defects.

School children are examined in order to determine the presence of uncorrected physical defects of a nature and degree such as to retard their proper physical development or to interfere with their school progress. Each child entering school for the first time is examined, and again before graduation, the remainder of the examinations being those of the children in the intermediate grades. Preference is given to special cases referred by the principals or teachers.

Defective Teeth.

Early in 1910 one dental clinic exclusively for school children was opened in the Borough of Manhattan through the efforts of Miss Marjorie Clark, one of the Department's nurses. This clinic was supported entirely by philanthropic citizens. The need of more such clinics is urgent. Children with decayed teeth not only lose much school time as the direct result of toothache, but retardation of school progress is an inevitable result of digestive disturbances and malnutrition caused by foul mouths and insufficient mastication. All children with defective teeth are instructed by the nurses in the hygiene of the mouth and preventive measures are vigorously carried out, but the cost of private dental treatment and the absolute inadequacy of facilities for free dental treatment form almost unsurmountable difficulties in mastering the situation.

Defective Nasal Breathing and Hypertrophied Tonsils.

These defects are closely associated and have almost similar harmful effects upon the general health of the child. Next to defective teeth, they stand as the most predominant of the physical defects of the children examined.

ISSUANCE OF EMPLOYMENT CERTIFICATES.

The enforcement of that part of the labor law relating to the issuance of employment certificates to children between the ages of fourteen and sixteen years devolves upon the Department of Health. Advantage has been taken of the system of medical school inspection by causing each applicant, if a pupil of the public schools, to be examined physically by the medical inspector detailed to the school which the child attends. Children attending schools other than the public schools receive this physical examination at the offices of the Department. Increasingly careful enforcement of the law has resulted in a corresponding increase in the number of children to whom employment certificates have been refused on account of physical incapacity. Through

CHILD HYGIENE.

the co-operation of the public schools efforts have been made to give the provisions of the law the widest possible publicity, and as a result there has been a gratifying decrease in the number of applications refused for reasons which would indicate ignorance of the law.

Employment Certificates—1910.

	New York.	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.
*Total applications for employment certificates during 1910.....	38,573	20,019	12,157	3,425	2,394	578
Granted.....	36,350	18,537	11,672	3,278	2,296	567
Refused.....	1,767	1,164	401	133	63	6
By reason of insufficient education.....	376	95	236	27	16	2
By reason of insufficient tuition.....	525	454	30	31	10	...
By reason of insufficient evidence as to age..	36	29	.....	5	1	1
By reason of physical incapacity.....	509	374	83	48	4	...
By reason of being under age.....	321	212	52	22	32	3
Pending.....	456	318	84	14	35	5
Duplicate certificates issued.....	1,068	612	321	102	26	7
Certificates in force Jan. 1, 1910.	38,688	20,095	11,789	3,542	2,732	530
Certificates granted during year..	36,350	18,537	11,672	3,278	2,296	567
*Totals.....	75,038	38,632	23,461	6,820	5,028	1,097
Certificates expiring during year.	28,528	14,806	8,833	2,592	1,767	530
Certificates in force Dec. 31, 1910.	46,510	23,826	14,628	4,228	3,261	567

* Children applying and found over age are considered as not having applied.

Employment Certificates—1911.

	New York.	Manhattan.	Brooklyn.	The Bronx.	Queens.	Richmond.
*Applications for employment certificates.....	42,410	20,578	14,658	3,761	2,890	523
Granted.....	40,530	19,742	13,807	3,629	2,837	515
Refused.....	1,325	485	671	125	39	5
By reason of insufficient education.....	325	71	203	35	15	1
By reason of insufficient tuition.....	265	128	96	32	9	...
By reason of insufficient evidence as to birth.	27	.....	22	3	1	1
By reason of physical incapacity.....	539	248	246	40	3	2
By reason of being under age.....	169	38	104	15	11	1
Pending.....	551	351	178	7	14	1
Cancelled.....	4	.....	2	.....	.....	2
Duplicate certificates issued.....	1,323	686	495	105	34	3
Certificates in force Jan. 1, 1911.	46,510	23,826	14,628	4,228	3,261	567
Certificates granted during year..	40,530	19,742	13,807	3,629	2,837	515
Certificates expiring during year.	33,559	16,858	10,658	3,015	2,482	546
Certificates in force Jan. 1, 1912.	53,481	26,710	17,777	4,842	3,616	536

* Children applying and found over age are considered as not having applied.

CHILD HYGIENE.

Physical Examinations of Applicants for Employment Certificates.

New York	1909	1910	1911
Examined.....	4,125	24,673	29,820
Needing treatment.....	2,719	15,256	14,312
With defects other than teeth only.....	1,240	6,874	6,302
With defective teeth only.....	1,479	8,382	8,010
Defects found:			
Defective vision.....	479	2,692	3,341
Defective hearing.....	27	127	158
Defective nasal breathing.....	324	1,840	1,488
Hypertrophied tonsils.....	588	3,100	2,542
Tuberculous lymph nodes.....	7	11	23
Pulmonary disease.....	5	23	36
Cardiac disease.....	21	131	230
Chorea.....	17	41	52
Orthopedic defect.....	21	75	109
Malnutrition.....	47	271	252
Defective teeth.....	2,217	12,114	13,225
Defective palate.....	....	3	4

4

HOSPITALS.

During the last two years issues of corporate stock aggregating nearly \$1,600,000 have been authorized for the construction of new contagious disease hospital buildings and the extension and improvement of the present plant and equipment. The most important new buildings authorized include: A pavilion for measles at Willard Parker Hospital; two new tuberculosis pavilions at Riverside; dormitory, isolation and kitchen buildings at Kingston Avenue Hospital; a new dormitory and extension to the nurses' home; a new boiler house at Riverside Hospital; and a number of new buildings at Otisville Sanatorium. One hundred and twenty-five thousand dollars has been authorized in each case for the construction of hospitals on new sites in the Boroughs of Queens and The Bronx, acquired for this purpose some years ago. The appropriations also include provision for a venereal disease hospital on North Brother Island.

The suggestion has been made that the Department abandon the sites for contagious disease hospitals in the Borough of Queens and the Borough of The Bronx which were obtained several years ago, and pending the adjustment of this question the construction of these hospitals has not been commenced. As requested by the Board of Estimate and Apportionment, a search has been made for alternative sites for these hospitals, but without success. The Department is strongly opposed to the alienation of these properties from the purpose for which they were acquired by the city.

Special efforts have been made to ensure the most thorough protection to the patients of the hospitals in the case of fire, and an expert on drills and equipment is now employed by the Department for this work.

The medical boards of the hospitals have undergone an important reorganization. The list of physicians now constituting the several boards is printed at the beginning of this report.

Twenty thousand five hundred and forty-one (20,541) patients were treated in the three hospitals with one thousand five hundred and eighty-three (1,583) beds (Willard Parker Hospital 671 beds, Kingston Avenue Hospital 534 beds and Riverside Hospital 378 beds), representing six hundred and thirty-four thousand nine hundred and forty (634,940) patient days with the expenditure of one million three hundred and seventy-eight thousand five hundred and sixty-eight dollars and ninety-three cents (\$1,378,568.93) for supplies and salaries and wages of six hundred and ninety-seven (697) employees, making the per capita cost two dollars and two cents (\$2.02) per day.

HOSPITALS.

Reception Hospital—1910.

	Patients.				Diseases.				Patients.			
	Remaining Dec. 31, 1909.	Admitted.		Total Patients Treated.	Total Diseases Treated.	Discharged.	Died.	Transferred to		Remaining Dec. 31, 1910.		
		New.	Transferred from					Hospital.	Num- ber.			
			Hospital.								Num- ber.	
Diphtheria.....	5	93	Riverside.....	44	142	61	46	{ Kingston Avenue..... Scarlet Fever..... Willard Parker.....	6 0 18	2		
Scarlet fever.....	2	23	Riverside.....	1	26	7	11	{ Kingston Avenue..... Scarlet Fever.....	6 49	1		
Measles.....	1	498	Riverside.....	1	500	13	34	{ Kingston Avenue..... Reception.....	5 5	3		
Small-pox.....	1	12	Reception.....	1	14	7	2	{ Kingston Avenue..... Reception.....	0 1	1		
Chicken-pox.....		10	.....	..	10	3	..	{ Reception..... Riverside.....	1 70	..
German measles.....		3	Otisville.....	45	70	2	..	{ Reception..... Riverside.....	1 1	..		
Tuberculosis.....		25	.....	..	70	..	..	{ Reception..... Riverside.....	1 1	..
Cerebro-spinal meningitis.....		1	.....	..	1	..	..	{ Reception..... Riverside.....	1 1	..
Diphtheria and scarlet fever.....		7	.....	..	7	4	2	{ Reception..... Riverside.....	1 1	..
Diphtheria and measles.....		1	{ Willard Parker..... Riverside.....	13 65	65	3	19	{ Reception..... Riverside..... Willard Parker.....	41 1 1	1		
Diphtheria and Chicken-pox.....		4	.....	..	4	3	..	{ Reception..... Riverside.....	1 1	..
Diphtheria and whooping cough.....		3	Riverside.....	1	4	3	..	{ Reception..... Riverside.....	1 1	..		
Diphtheria and German measles.....		1	.....	..	1	1	..	{ Reception..... Riverside.....	1 1	..
Scarlet fever and measles.....		1	.....	..	1	1	..	{ Reception..... Riverside.....	1 1	..
Scarlet fever and chicken-pox.....		9	Scarlet Fever.....	45	50	5	1	{ Reception..... Riverside.....	47 5	1		
Scarlet fever and whooping cough.....		3	Riverside.....	1	10	3	..	{ Reception..... Riverside.....	5 1	..		
Measles and whooping cough.....		5	.....	..	4	5	..	{ Reception..... Riverside.....	5 5	..
Measles and chicken-pox.....		1	.....	..	3	..	..	{ Reception..... Riverside.....	2 1	..
Diphtheria, scarlet fever and chicken-pox.....		1	.....	..	1	..	..	{ Reception..... Riverside.....	1 1	..
Total.....	11	755	.....	154	920	117	116	.....	677	10
For observation.....	4	23	Riverside.....	2	29	19	1	{ Reception..... Scarlet Fever..... Kingston Avenue.....	1 5 3	..		
Accompanying.....	3	14	Riverside.....	4	21	11	3	{ Reception..... Scarlet Fever..... Willard Parker.....	5 5 1	1		

Reception Hospital—1911.

HOSPITALS.

	Patients.				Diseases.				Patients.			
	Remaining Dec. 31, 1910.	Admitted.		Total Patients Treated.	Discharged.	Died.	Transferred to		Remaining Dec. 31, 1911.			
		New.	Transferred from				Hospital.	Num- ber.				
			Hospital.									
Diphtheria.....	2	105	Riverside.....	35	142	66	41	Willard Parker.....	20	..		
Scarlet fever.....	1	31	Riverside.....	6	38	15	11	Scarlet Fever.....	9	..		
Measles.....	3	692	Riverside.....	3	698	13	40	Riverside.....	3	..		
Small-pox.....	..	2	.....	..	2	..	..	Kingston Avenue... 1	10	2
Chicken-pox.....	1	5	.....	..	6	5	..	Scarlet Fever.....	6	..
German measles.....	..	4	.....	..	4	4	..	Kingston Avenue... 1	636	..
Tuberculosis.....	..	22	Otisville.....	43	65	..	..	Riverside.....	1	2
Cerebro-spinal meningitis.....	1	1	.....	..	2	1	1	Kingston Avenue... 1	..	..
Diphtheria and scarlet fever.....	..	4	.....	..	4	..	..	Scarlet Fever.....	..	..
Diphtheria and measles.....	1	46	Willard Parker.....	4	51	2	23	Kingston Avenue... 1	..	..
Diphtheria and chicken-pox.....	..	4	Riverside.....	2	6	4	1	Riverside.....	65	..		
Diphtheria and whooping cough.....	..	4	.....	..	6	5	..	Scarlet Fever.....	2	1
Diphtheria and German measles.....	..	1	.....	..	4	3	1	Kingston Avenue... 1	24	1
Scarlet fever and measles.....	1	1	Riverside.....	9	11	1	..	Willard Parker.....	1	..		
Scarlet fever and chicken-pox.....	..	1	Riverside.....	1	2	3	..	.....	..	..
Scarlet fever and whooping cough.....	..	..	Riverside.....	4	4	3	..	Scarlet Fever.....	8	..
Measles and whooping cough.....	..	5	.....	..	2	1	..	Scarlet Fever.....	1	..
Measles and chicken-pox.....	..	7	.....	..	5	1	2	Riverside.....	1	1
Mumps and diphtheria.....	..	1	.....	..	7	3	1	Scarlet Fever.....	2	..
Scarlet fever, chicken-pox and whooping cough.....	..	1	Riverside.....	1	1	1	..	.....	1	..
Whooping cough, scarlet fever and measles.....	..	1	.....	..	2	1	..	Scarlet Fever.....	1	..
Total.....	10	938	.....	108	1,056	127	123	.....	797	9
For observation.....	..	16	Riverside.....	1	17	9	2	Riverside.....	4	..		
Accompanying.....	1	24	Riverside.....	2	27	20	3	Scarlet Fever.....	2	..		
								Riverside.....	4	..		

HOSPITALS.

Willard Parker Hospital—1910.

	Patients.				Diseases.	Patients.					
	Remaining Dec. 31, 1909.	Admitted.		Total Patients Treated.		Discharged.	Died.	Transferred to		Remaining Dec. 31, 1910.	
		New.	Transferred from					Hospital.	Num- ber.		
			{ Reception..... { Riverside.....								23 504
Diphtheria.....	72	1,258	{ Reception..... { Riverside.....	23 504	1,857	1,379	389	{ Reception..... { Scarlet fever.....	14 10	65	
Total.....	72	1,258	.....	527	1,857	1,379	389	.....	24	65

Willard Parker Hospital—1911.

	Patients.				Diseases.	Patients.					
	Remaining Dec. 31, 1910.	Admitted.		Total Patients Treated.		Discharged.	Died.	Transferred to		Remaining Dec. 31, 1911.	
		New.	Transferred from					Hospital.	Num- ber.		
			{ Reception..... { Riverside.....								18 431
Diphtheria.....	65	1,044	{ Reception..... { Riverside.....	18 431	1,558	1,214	268	{ Reception..... { Scarlet Fever.....	4 11	61	
Total.....	65	1,044	.....	449	1,558	1,214	268	.....	15	61

HOSPITALS.

Scarlet Fever Hospital—1910.

	Patients.				Diseases.	Patients.				
	Remaining Dec. 31, 1909.	Admitted.		Total Patients Treated.		Discharged.	Died.	Transferred to		
		New.	Hospital.					Hospital.	Num- ber.	
			Transferred from							Num- ber.
Scarlet fever.....	196	1,299	{ Willard Parker..... 3 Reception..... 28 Riverside..... 716 Willard Parker..... 9 Reception..... 8 Riverside..... 15	2,242	1,833	232	Reception.....	46		
Diphtheria and scarlet fever.....	5	23	{	60	44	15	.....	1	
Total.....	201	1,322	.....	2,302	1,877	247	.....	132

Scarlet Fever Hospital—1911.

	Patients.				Diseases.	Patients.				
	Remaining Dec. 31, 1910.	Admitted.		Total Patients Treated.		Discharged.	Died.	Transferred to		
		New.	Hospital.					Hospital.	Num- ber.	
			Transferred from							Num- ber.
Scarlet fever.....	131	1,137	{ Riverside..... 640 Willard Parker..... 1 Reception..... 24 Riverside..... 7 Reception..... 14 Willard Parker..... 11	1,933	1,519	200	.....	214	
Diphtheria and scarlet fever.....	1	18	{	51	38	11	.....	2	
Total.....	132	1,155	.....	1,984	1,557	211	.....	216

HOSPITALS.

Kingston Avenue Hospital—1910.

	Patients.				Diseases.				Patients.				
	Remaining Dec. 31, 1909.	New.	Admitted.		Total Patients Treated.	Transferred from other Con- tagious Diseases.	Total Diseases Treated.	Transferred to other Con- tagious Diseases.	Discharged.	Died.	Transferred to.		Remaining Dec. 31, 1910.
			Hospital.	Num- ber.							Hospital.	Num- ber.	
Diphtheria.....	24	594	Riverside.....	618	15	633	38	433	140	..	..	22
Scarlet fever.....	100	1,038	Riverside.....	1,139	15	1,154	51	898	111	..	..	94
Measles.....	57	302	{ Reception.....	448	25	1,029	49	738	201	..	..	41
Small-pox.....	..	3	{ Reception.....	5	8	1	0	8	1	..	..	..
Chicken-pox.....	1	8	{ Riverside.....	2	17	1	18	17	..	..	..	..
Whooping cough.....	..	4	.....	4	..	4	..	..	..	..	..	..
Mumps.....	..	1	.....	1	..	1	..	..	..	..	..	..
Typhoid fever.....	..	1	.....	1	..	1	..	..	..	..	..	..
Scabies.....	..	7	.....	7	..	7	..	..	..	..	..	..
Diphtheria and scarlet fever.....	2	43	.....	45	29	74	11	33	28	..	..	2
Diphtheria and measles.....	5	33	{ Reception.....	43	21	112	22	31	55	..	..	4
Diphtheria and chicken-pox.....	..	1	{ Riverside.....	10	2	8	10	7	2	..	..	..
Diphtheria and whooping cough.....	..	3	.....	3	3	6	3	3	..	..	..	..
Scarlet fever and measles.....	11	6	{ Reception.....	48	66	128	9	111	8	..	..	..
Scarlet fever and chicken-pox.....	..	5	.....	5	..	5	3	..	2	..	..	..
Scarlet fever and whooping cough.....	..	2	.....	2	1	3	1	..	..	..	..	..
Measles and whooping cough.....	..	3	{ Reception.....	4	8	22	4	11	6	..	..	..
Measles and chicken-pox.....	..	3	{ Riverside.....	1	8	14	4	11	6	..	..	..
Scarlet fever, measles and diphtheria.....	..	3	Reception.....	5	8	0	17	5	3	..	..	..
Measles, scarlet fever and whooping cough.....	..	..	.....	3	8	11	1	4	2	..	..	..
Measles, diphtheria and whooping cough.....	..	..	.....	1	1	5	4	..	..	..	..	..
Scarlet fever, measles and chicken-pox.....	..	..	.....	..	1	4	5	..	..	..	..	..
.....	..	..	.....	..	..	3	2	1	..	..	..	..
Total.....	200	2,060	{ Reception.....	560	3,033	220	3,253	215	2,308	559	Randall's Island.	4	167
.....	{ Riverside.....	213
For observation.....	..	15	{ Reception.....	6	15	6	9
Accompanying.....	3	35	{ Riverside.....	2	46	2	48	1	47

HOSPITALS.

Kingston Avenue Hospital—1911.

	Patients.				Diseases.				Patients.							
	Remaining Dec. 31, 1910.	Admitted.		Total Patients Treated.	Transferred from other Con- tious Diseases.	Total Diseases Treated.	Transferred to other Con- tious Diseases.	Died.	Transferred to.		Discharged.	Died.	Remaining Dec. 31, 1911.			
		New.	Transferred from.						Hospital.	Num- ber.				Hospital.	Num- ber.	
Diphtheria.....	22	541	..	563	1	564	27	388	98	..	51	..				
Scarlet fever.....	94	1,061	..	1,155	43	1,198	85	955	79	..	79	..				
Measles.....	41	215	8	264	12	276	13	225	26	..	12	..				
Small-pox.....	..	11	2	13	3	16	..	11	3	..	2	..				
Chicken-pox.....	1	16	1	18	1	9	..	4	..	..	5	..		
Whooping cough.....	..	11	..	11	1	12	..	5	4	..	..	..	
German measles.....	..	1	..	1	2	3	..	3	..	..	..	..
Typhoid fever.....	..	..	..	..	1	1	..	1	..	..	..	..
Diphtheria and scarlet fever.....	2	32	..	34	20	63	20	11	19	..	4	..				
Diphtheria and measles.....	4	9	..	13	16	29	10	10	6	..	3	..				
Diphtheria and chicken-pox.....	..	..	..	..	2	2	1	2	..	..	..	..
Diphtheria and whooping cough.....	..	3	..	3	2	5	..	2	3	..	..	..	
Scarlet fever and measles.....	..	2	..	2	52	54	3	41	10	..	..	..	
Scarlet fever and chicken-pox.....	..	6	..	6	18	24	14	7	1	..	..	..	
Scarlet fever and whooping cough.....	2	..	..	4	1	5	2	2	..	..	..	..
Measles and whooping cough.....	1	5	11	17	7	24	3	17	4	..	..	..	
Chicken-pox and whooping cough.....	..	1	..	1	..	1	..	1	..	..	..	..
Measles, diphtheria and chicken-pox.....	..	..	..	..	3	3	..	..	..	..	..	..
Measles, scarlet fever and whooping cough.....	..	..	..	..	3	3	..	..	..	..	..	..
Measles, diphtheria and whooping cough.....	..	1	..	1	..	1	..	..	..	..	..	..
Measles, scarlet fever and diphtheria.....	..	..	..	..	1	1	1	..	..	..	..	..
Total.....	167	1,907	22	2,096	197	2,293	191	1,684	254	3	161	..				
For observation.....	..	13	..	13	..	13	4	8	1	..	..	..	
Accompanying.....	..	23	..	23	..	23	2	21	..	..	..	..

HOSPITALS.

Riverside Hospital—1910.

	Patients.				Diseases.		Patients.				
	Remaining Dec. 31, 1910.	Admitted.		Total Patients Treated.	Diseases Treated.	Discharged.	Died.	Transferred to		Remaining Dec. 31, 1910.	
		New.	Transferred from					Hospital.	Num- ber.		
			Hospital.								Num- ber.
Diphtheria.....	1	618	..	619	619	25	41	Willard Parker.....	548	5	
Scarlet fever.....	..	747	..	747	747	5	25	{ Kingston Avenue....	1	..	
Measles.....	..	211	..	211	211	2	11	{ Willard Parker....	716	..	
Chicken-pox.....	..	2	..	2	2	..	..	{ Kingston Avenue....	196	2
Tuberculosis.....	309	716	{ Otisville.....	1,080	1,080	526	250	{ Kingston Avenue....	2	..	
Diphtheria and scarlet fever.....	..	13	{ Willard Parker....	13	13	..	1	Willard Parker.....	..	304	
Diphtheria and measles.....	..	12	..	12	12	..	1	{ Willard Parker....	12	..	
Diphtheria and chicken-pox.....	..	1	..	1	1	..	..	{ Kingston Avenue....	10	..
Diphtheria and whooping cough.....	..	1	..	1	1	..	..	Kingston Avenue....	1	..
Scarlet fever and measles.....	..	1	..	1	1	..	..	Willard Parker....	1	..
Scarlet fever and chicken-pox.....	..	1	..	1	1	..	..	Kingston Avenue....	1	..
Scarlet fever and whooping cough.....	..	1	..	1	1	..	..	Willard Parker....	..	1
Measles and whooping cough.....	..	1	..	1	1	..	..	Kingston Avenue....	1	..
Total.....	310	2,325	{ Otisville.....	2,600	2,600	558	329	.....	1,491	312
			{ Willard Parker....								
For observation.....	1	2	..	3	3	1	..	Willard Parker.....	2	..	
Accompanying.....	..	8	..	8	8	..	..	{ Willard Parker....	5	..
			..					{ Kingston Avenue....	2	1	

HOSPITALS.

Riverside Hospital—1911.

	Remaining Dec. 31, 1910.		Patients.				Diseases.		Patients.				Remaining Dec. 31, 1911.
	New.	Admitted.	Transferred from		Total Patients Treated.	Total Diseases Treated.	Discharged.	Died.	Transferred to		Number.		
			Hospital.						Hospital.	Number.			
			Hospital.	Number.									
Diphtheria.....	5	558	.....	.....	563	38	54	Willard Parker.....	466	5	
Scarlet fever.....	2	670	.....	.....	670	10	14	Willard Parker.....	646	..	
Measles.....	..	233	Willard Parker.....	640	875	687	123	Willard Parker.....	2	63			
Tuberculosis.....	304	289	{ Otisville.....	38	650	284	161	Otisville.....	2	203			
		10	{ Willard Parker.....	19	10	..	3	Willard Parker.....	7	..			
Diphtheria and scarlet fever.....	..	24	Willard Parker.....	25	49	35	13	Willard Parker.....	..	1			
Diphtheria and measles.....	..	15	.....	..	2	..	..	Willard Parker.....	..	2
Diphtheria and chicken-pox.....	..	15	.....	..	15	..	..	Willard Parker.....	15	..
Scarlet fever and measles.....	1	4	.....	..	1	..	..	Willard Parker.....	1	..
Scarlet fever and chicken-pox.....	..	17	Willard Parker.....	1	4	3	2	Willard Parker.....	13	..			
Scarlet fever and whooping cough.....	..	1	.....	..	18	..	..	Kingston Avenue.....	1	..
Measles and whooping cough.....	..	1	.....	..	1	..	..	Willard Parker.....	1	..
Scarlet fever, chicken-pox and whooping cough.....	..	1	.....	..	1	..	..	.....	..	..
Measles, diphtheria and whooping cough.....	..	1	.....	..	1	..	..	.....	..	..
Total.....	312	1,824	.....	723	2,859	1,057	371	.....	1,159	272	
For observation.....	..	4	Willard Parker.....	4	8	7	..	Willard Parker.....	1	..			
Accompanying.....	1	2	Willard Parker.....	4	7	5	..	Willard Parker.....	2	..			

HOSPITALS.

Table Showing Ambulance Station Work.

	Willard Parker Hospital.		Kingston Avenue Hospital.		Riverside Hospital.	
	1910	1911	1910	1911	1910	1911
Number of Ambulance calls...	3,671	2,947	2,199	1,877	1,660	1,574
" " Wagon trips.....	.....	.....	691	436	58	56
" " Carriage trips.....	459	435	1,039	808	89	463
" " trips for cats and dogs.....	388	492	189	272	446	676
" " dead dogs.....	25	77	39	74	39	102
" " " cats.....	8	19	11	9	3	11
" " "no case" ambulance calls.....	38	0	45	52	52	63
" " "no case" cat and dog calls.....	46	10	35	156	35	147
Number of miles traversed by vehicles.....	16,456	16,357	29,743	15,935	27,597	32,145
Average number of miles per day.....	25	25	81	43	75	88
Average number of miles per call.....	3.5	3.5	7.	7.	8.	8.
Number of miles traversed by goods wagons.....	35,132	99,140	41,347	38,181	16,500	15,503
Average number of miles per goods wagons per day.....	116.3	330	20.5	104.6	18.	17.
Number of visits by veterinarian.....	156	83	97	50	10	10

Distribution of Patients.

	Willard Parker Hospital.		Kingston Avenue Hospital.		Riverside Hospital.	
	1910	1911	1910	1911	1910	1911
All Services						
Total cases treated.....	4,856	4,692	3,094	2,132	2,690	2,859
Diphtheria:						
Total cases treated.....	1,857	1,558	544	462	*	132
" deaths.....	389	268	130	88	....	54
Died within 48 hours.....	99	88	56	42	....	....
Patients intubated.....	348	292	159	149	....	....
Total intubations.....	1,134	792	269	294	....	....
Extubations (instrumental)	569	382	187	155	....	....
Auto-extubations.....	442	321	27	111	....	....
Only one dose antitoxin....	1,328	1,171	280	359	....	....
Patients receiving 10,000 Antitoxin Units.....	1,255	1,182	102	358	....	....
Antitoxin rashes.....	660	451	159	75	....	....
Scarlet Fever:						
Total cases treated.....	2,302	1,984	947	1,155	*	48
Total deaths.....	247	211	118	105	....	14
Died within 48 hours.....	36	38	27	29	....	....
Measles**						
Total cases treated.....	500	878	966	273	....	927
" deaths.....	**	**	227	34	....	127
Tuberculosis and Isolation Service:						
Total cases treated.....	....	....	....	....	2,690	1,752

* Riverside Hospital is only a Reception Hospital in so far as Scarlet Fever and Diphtheria are concerned, all these cases being transferred via boat to East 16th Street. If too sick for transfer, they are kept here. Thus all such cases are practically almost hopelessly sick and of necessity the mortality is correspondingly high.

** Transferred to other hospitals.

HOSPITALS.

Steamboat Work.

	Steamer "Riverside."		Steamer "Franklin Edson."		Launch "Duchess."	
	1910	1911	1910	1911	1910	1911
Number of days boat was in commission.....	210	205	347	363	345	311
" " trips made.....	327	235	5,956	5,271	4,990	6,058
" " passengers carried.	4,908	2,441	101,357	99,676	38,484	44,385
" " pieces of freight carried.....	15,060	14,990	42,041	61,672	....	....
Average number of miles traveled.....	3,604	4,147	6,646	6,490	3,742	4,543
Tons of coal burned.....	685.5	505	836	740	....	....
Average number of trips daily..	1.6	1.6	17	14	14	19
" " miles daily.	17	15	25	18	11	14
" " passengers daily.....	23	11	292	274	112	162
Average number of pieces freight daily.....	72	73	121	169	....	....
Average number of tons of coal burned daily.....	3	2	2.3	2.	....	....
Gallons of gasoline consumed...	....	....	....	....	1,725	1,513
Average number of gallons gasoline consumed daily.....	....	....	....	....	5	5

HOSPITALS.

Expenditures.

	Willard Parker Hospital.				Riverside Hospital.				Kingston Avenue Hospital.			
	Salaries.		Supplies, Etc.		Salaries.		Supplies, Etc.		Salaries.		Supplies, Etc.	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Superintendent of Hospitals.....	3,574.19	3,605.59	120.41	125.48	.....	.....	.....	.....	.....	.....	.....	.....
Superintendence.....	6,000.00	6,087.31	2,633.43	2,399.44	4,980.00	5,235.00	.....	.....	7,436.96	6,593.23	1,680.59	1,587.02
Storehouse.....	2,557.22	2,745.00	143.95	171.20	2,340.03	3,579.20	40.64	158.95	1,700.00	985.80	142.64	108.00
Wards.....	73,405.49	71,274.06	15,169.48	13,413.01	34,752.82	38,579.56	16,036.89	13,929.03	49,131.15	48,683.77	18,971.02	7,555.05
Pharmacy.....	900.00	900.00	2.70	1.06	10.00	.....	12.06	1.18	600.00	210.00	54.70	53.32
Morgue.....	360.00	360.00	621.85	528.13	480.00	480.00	.....	.....	723.87	720.00	41.88	.....
Doctors' and Nurses' Kitchen.....	2,581.00	2,604.00	17,033.20	17,261.06	756.00	705.10	3,943.36	4,201.28	823.00	902.76	3,661.59	3,681.79
Help's Kitchen.....	2,195.00	2,136.00	14,680.09	13,455.71	996.00	934.18	6,660.92	8,518.49	2,220.74	2,122.03	9,443.31	9,296.96
Patient's Kitchen.....	1,878.00	1,912.68	20,244.68	16,805.54	1,492.88	1,274.91	13,347.80	13,288.30	1,087.31	873.66	9,350.59	7,603.81
Housekeeping.....	5,343.49	5,397.09	3,248.00	4,106.78	2,581.45	3,365.85	53,358.06	37,911.20	1,144.71	1,344.89	16,916.02	11,375.17
Laundry.....	240.00	240.00	127.53	.....	3,130.75	3,088.00	2,553.75	2,619.38	3,789.94	4,577.46	6,612.49	3,008.26
Department Stable, E. 134th St.	.....	.....	.....	.....	10,871.76	10,159.34	2,622.85	2,005.76	5,711.88	6,601.23	1,709.18	1,444.94
Stable.....	13,726.45	11,567.74	10,137.94	6,000.54	6,932.71	4,002.95	6,398.97	8,019.00	.....	.....	.....	.....
Repairs and Replacements.....	4,770.00	4,770.00	4,313.56	4,951.27	1,320.00	1,320.00	613.28	781.53	9,545.17	10,201.48	9,209.46	7,438.01
Operation of Machinery and Plant	17,217.00	17,110.62	15,010.55	15,548.76	2,936.00	2,400.00	5,205.00	4,489.71	2,413.50	2,290.00	5,548.43	5,871.55
Steamboats and Launches.....	.....	.....	.....	.....	17,877.54	17,550.03	20,217.74	18,610.30	29,958.59	29,688.50	19,977.82	23,647.63
Laboratory.....	.....	.....	.....	.....	21,769.29	22,265.33	9,308.43	8,254.77	.....	.....	.....	.....
	.....	.....	.....	.....	.....	.....	.....	.....	1,221.21	672.00	18.49	48.40

HOSPITALS.

OTISVILLE SANATORIUM.

The work of the Municipal Tuberculosis Sanatorium at Otisville, Orange County, is under the supervision of the General Medical Officer, a resident physician, and a lay superintendent having immediate charge of the details. For convenience and statistical unity, the report of the work at Otisville is appended to the report of the Division of Hospitals.

The following table shows the growth of the accommodations at Otisville:

Date.	Beds.	Patients.
January 1, 1910.....	320	399
January 1, 1911.....	413	375
December 31, 1911.....	494	451

Construction work and improvements are constantly in progress and during the past two years the following have been completed:

1. Residence for Physician in Charge.
2. Pavilion containing 30 beds for children.
3. Gardener's cottage.
4. One-story frame building for laundry help.
5. Two summer houses to be used as resting places for patients.
6. Electric lighting plant.
7. Five additional shacks.
8. Fireproof tile and cement building for disinfection.
9. Tile and cement building for help at the female unit.

The following additional buildings were also nearly completed at the end of 1911:

1. Poultry plant designed for the accommodation of 2,000 chickens, together with incubators and brooders.
2. Cement and tile storehouse.
3. Dining hall for female patients.
4. Abattoir building for the purpose of slaughtering cattle.

Numerous alterations and improvements have also been made in connection with existing buildings. A two-story building accommodating 32 female patients, which was opened early in the year 1910, contains individual dressing compartments for the patients and a separate sitting room for each sleeping court; there is also a general recreation room in the basement. Additions and improvements have been made to the barns; a frame cottage, formerly occupied by the Physician in Charge, has been remodeled for the use of the medical staff, and the Administration Building has been enlarged, providing increased office space. The stables have been considerably enlarged and ample shed room provided for the protection of wagons.

Additional efforts have been made to improve the water supply on the property. At the Administration Building a storage reservoir has been built which receives the flow from two springs. A second well, 198 feet in depth, has been drilled at the female unit. A storage reservoir on the mountain, with a capacity of 70,000 gallons, has been built to receive the surplus water from the pumping station on the north slope of the mountain. Much additional work in improving roads, paths, grounds and fences has been done.

In October, 1911, the laundry building was the scene of a conflagration which threatened for a time to destroy the entire female unit. Through the efforts of the

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employees and patients, assisted by some of the village people, the fire was extinguished with a loss of only the laundry building itself. Nearly all the machinery was saved and was cleaned and repaired for use. The building is being reconstructed of hollow tile and will be practically fireproof.

During 1909 the market value of garden crops raised and distributed was \$3,054.18. During 1910 this was increased to \$5,388.05. In 1911 the farm products were valued at \$10,080.98, divided as follows:

Hay and forage, and other horse and cattle feed.....	\$5,038 04
Vegetables and fruits.....	5,042 94

In 1910 the dairy produced 166,087½ quarts of milk and in 1911 167,706 quarts, valued at \$11,739.42.

During the year 1910 the laundry handled 322,903 pieces, averaging over 6,200 pieces per week.

The products of the bakery by pieces were as follows:

	1910.		1911.	
Bread	40,863	Bread	52,630	
Rolls	43,053	Rolls	50,388	
Buns	28,463	Buns	13,340	
		Valuation.....	\$6,952 88	

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Care of Tuberculosis at Otisville Sanatorium.

	1910		1911	
	Number.	Per-centage.	Number.	Per-centage.
General Statement:				
Number of patients at beginning of year.....	303	.....	375	.....
Admitted during year.....	748	.....	946	.....
Transferred from Riverside.....	..	.....	2	.....
Total treated during year.....	1,051	.....	1,323	.....
Discharged.....	614	.....	804	.....
Died.....	7	.....	20	.....
Transferred to Riverside.....	55	.....	37	.....
Remaining at end of year.....	375	.....	462	.....
Service Rendered:				
Patients.....	1,051	.....	1,323	.....
Patient days.....	128,280	.....	157,563	.....
Average days per patient.....	122.05	.....	119.09	.....
Largest number at one time.....	401	.....	492	.....
Smallest number at one time.....	303	.....	375	.....
Average patients per day.....	352.35	.....	431.6	.....
Patients Treated and Condition When Discharged:				
Incipient.....	249	100.00	341	100.00
Apparently cured.....	19	7.63	56	16.40
Arrested.....	59	23.69	99	29.03
Improved.....	64	25.70	64	18.70
Progressive.....	7	2.81	4	1.10
Deaths.....	..	.....	..	.....
Transferred to Riverside.....	3	1.22	2	.5
Under treatment at end of year.....	97	38.95	116	34.02
Moderately advanced.....	713	100.00	861	100.00
Apparently cured.....	25	3.51	15	1.70
Arrested.....	142	19.92	213	24.70
Improved.....	218	30.57	256	29.70
Progressive.....	47	6.59	43	4.90
Deaths.....	5	.70	9	1.05
Transferred to Riverside.....	35	4.91	21	2.4
Under treatment at end of year.....	241	33.80	304	35.03
Far advanced.....	89	100.00	121	100.00
Apparently cured.....	..	.....	..	.....
Arrested.....	5	5.62	11	9.09
Improved.....	18	20.22	28	23.10
Progressive.....	10	11.33	15	12.40
Deaths.....	2	2.25	11	9.09
Transferred.....	17	19.01	14	11.5
Under treatment at end of year.....	37	41.57	42	34.07
Duration of Patient's Stay:				
Total patients discharged, died or transferred..	676	100.00	861	100.00
Length of stay under one month.....	86	12.72	91	10.50
Over one month and under three months.....	209	30.92	234	27.10
Over three months and under six months.....	194	28.69	250	29.03
Over six months.....	187	27.67	286	33.20
Places to which Patients are Discharged:				
Total patients discharged.....	614	100.00	804	100.00
Patients discharged to their homes.....	614	100.00	804	100.00
Patients discharged to other sanatoria.....	..	.....	..	.....

* The classification as to stage of disease, etc., is that adopted by the National Association for the Study and Prevention of Tuberculosis.

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Care of Tuberculosis at Riverside Hospital.

	1910		1911	
	Number.	Per-centage.	Number.	Per-centage.
General Statement:				
Number of patients at beginning of year.....	309	.....	304	.....
Admitted during year.....	716	.....	289	.....
Transferred from Otisville.....	55	.....	57*	.....
Total treated during year.....	1,080	.....	650	.....
Discharged.....	526	.....	284	.....
Died.....	250	.....	161	.....
Transferred to Otisville.....	...	.....	2	.....
Remaining at end of year.....	304	.....	203	.....
Service Rendered:				
Patients.....	1,080	.....	650	.....
Patient days.....	118,310	.....	73,424	.....
Average days per patient.....	109.54	.....	112.9	.....
Largest number at one time.....	353	.....	304	.....
Smallest number at one time.....	297	.....	165	.....
Average patients per day.....	324.13	.....	201.1	.....
Patients Treated and Condition When Discharged**				
Incipient.....	...	.....	...	.....
Moderately advanced.....	271	100.00	162	100.00
Apparently cured.....	...	.....	...	.....
Arrested.....	...	.....	...	.....
Improved.....	116	42.80	39	24.08
Progressive.....	75	27.67	31	19.1
Deaths.....	...	.....	...	.....
Transferred.....	...	.....	2	1.2
Under treatment at end of year.....	80	29.52	90	55.5
Far advanced.....	809	100.00	488	100.0
Apparently cured.....	...	.....	...	.....
Arrested.....	...	.....	...	.....
Improved.....	67	8.28	15	3.07
Progressive.....	268	33.12	199	40.7
Deaths.....	250	30.90	161	32.9
Under treatment at end of year.....	224	27.68	113	23.1
Duration of Patient's Stay:				
Total patients discharged.....	526	100.00	284	100.00
Length of stay under one month.....	112	21.29	68	23.94
Over one month and under three months.....	174	33.08	79	27.81
Over three months and under six months.....	127	24.14	67	23.58
Over six months.....	113	21.48	70	24.64
Places to Which Patients are Discharged:				
Total patients discharged.....	526	100.00	284	100.00
Patients discharged to their homes.....	498	94.67	284	100.00
Patients discharged to other sanatoria....	17	3.23	...	.....
Patients discharged to work at Otisville...	11	2.09	...	.....

* Includes nineteen cases transferred from Willard Parker Hospital.

** The classification as to stage of disease, etc., is that adopted by the National Association for the Study and Prevention of Tuberculosis.

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BACTERIOLOGICAL LABORATORIES.

The year 1911 is an important one in the development of the Bacteriological Laboratories, owing to the addition of a division devoted to Specific Therapy and Preventive Medicine. This has allowed the laboratory workers for the first time to observe personally the results of the use of laboratory products on a large scale and so estimate their values. The etiology or treatment of trachoma, meningitis, syphilis and infections due to the pneumococcus, streptococcus and gonococcus have been the chief new subjects taken up for consideration during the past year.

BACTERIOLOGICAL EXAMINATION OF THE MILK SUPPLY.

The Department of Health for the past ten years has made regular bacteriological as well as chemical examinations of the city's milk. The routine methods adopted in 1903 have until recently remained unchanged, the bacteriological tests being limited to the examination of samples obtained in the city. The results of the investigations carried out by the laboratory workers on the contraction of tuberculosis in children from milk and of typhoid fever, scarlet fever and septic sore throats in persons of all ages forced on the Board of Health the necessity of grading milk according to its quality from the standpoint of health. The necessity of pasteurizing a large percentage of the whole supply also became evident. This grading of milk had to take into account chiefly the sanitary methods of handling it from the farm to the consumer. One of the best means of judging this was by means of the bacterial content of the milk at different stages and the amount of dirt in the milk before straining.

In order to cover the different stages samples for analysis were taken not only in the city as in previous years, but also from the wagons as they drove up to the creameries and from the cans as they were put on the trains. The results of these examinations gave information as to cleanliness and care of the milk at the farms and the methods of handling it until its final destination. The first samples were taken at the creameries during the fall of 1910 and this procedure has been continued during the whole of 1911.

The number of inspectors detailed by the Sanitary Superintendent to carry out this plan numbered four for the country territory and three for the city group. These men received suitable laboratory training before undertaking the work. On special occasions this force was augmented by the addition of one or two more men, as the occasion seemed to warrant; as a rule, however, there were only seven men to cover both fields, and as emergencies arose in other branches of the service the group dwindled down to two or three members. Altogether in city and country 61,142 specimens were taken during the past year. The results obtained from the examination of the samples collected during 1911 have been grouped in various ways and they give an interesting and valuable picture of the bacterial content of the city's milk supply and the temperature at which it is kept at its different stages from the farm to the consumer. The report is printed in full in Vol. VI of the "Collected Studies of the Research Laboratory."

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TUBERCULOSIS THROUGH MILK.

Toward the end of 1911 the investigation being carried on in the laboratory of the relation of bovine to human tuberculosis was brought to a close. The number of cases examined was larger than those attempted by any other single investigation. The preliminary findings were printed in Vol. V of the laboratory reports and the final results in Vol. VI. The following summary gives the total number of identifications of human and bovine bacilli in the cases of human tuberculosis examined:

Adults Sixteen Years and over.		Children Five Years to Sixteen Years		Children Under Five Years.	
Human.	Bovine.	Human.	Bovine.	Human.	Bovine.
305	1	46	9	91	25

The tables in the special report in the "Collected Studies" show the percentage of bovine infection in man in the different types of cases examined. A careful study of the amount of tuberculosis in New York City is in progress and this information will be presented in a short time. At present the total amount of bovine infection existing in the city can be only roughly indicated. It has been found that many cases of tuberculosis in infants are not reported correctly. Thus the majority of cases dying during the past two years of meningitis supposedly due to the meningococcus are really tuberculous in character. Fifteen per cent. of the cases of bronchopneumonia and marasmus investigated were also found to be cases of tuberculosis. Taking these facts into consideration, it appears that the total percentage of bovine infection does not amount in New York City to more than 2.5 per cent. of all tuberculosis. This bovine infection is largely limited to children, and the fatal cases are further limited to very young children and infants. The deaths from tuberculosis due to milk are estimated at about 300 yearly in New York City.

DISINFECTION.

The Department of Health through its agents disinfects many thousands of rooms annually. While many of these disinfections, as, for instance, after convalescence in measles, are unnecessary except to allay the fears of the people, others, as after the removal of those ill with scarlet fever, diphtheria or tuberculosis, are of undoubted value, as contagion is apt to be present in clothing, bedding and other goods. As the expense of carrying out disinfection is great, it was determined to go over the methods in use and see if any improvements could be made. It was found that the formaldehyde gas could be obtained from materials lighter in weight, cheaper in price and easier to use than those now employed. Changes were also made in the methods utilized to discover and record the complete or incomplete success of each disinfection. A report describing our present methods and the experiments carried out in proving the value of the new mixture in room disinfection is printed in Volume VI of the "Collected Studies."

	1910.	1911.
Number of disinfection tests made and sent to boroughs.....	50,628	65,808
Number of room disinfections tested.....	23,504	26,700

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TRACHOMA.

An investigation concerning trachoma and allied diseases of the conjunctiva has been carried on during the past two years. It has already given valuable information and will probably lead to important results. It was undertaken for the purpose of determining the cause, prevalence and contagiousness of trachoma in New York school children. During 1910 only two points were studied, first, the worth of the trachoma inclusions of Prowazek in the diagnosis of trachoma, and secondly, the degree of contagiousness of the cases showing inclusions. The trachoma inclusions were not found in any of the cases classified at that time in the school record as pure granular trachoma, but which are now classified as follicular conjunctivitis. In the cases classed as acute trachoma of the papillary type the inclusions were invariably found. The degree of contagiousness of the cases has so far been found to be slight but evident. It was decided that a culture study of many more cases of trachoma and allied conditions, fully a thousand more, would be necessary before the questions under investigation could be solved, and in 1911 a systematic study of cultures was begun. This work has progressed very satisfactorily, but as it is not yet finished the full report will not be given until 1912.

GONOCOCCUS WORK OTHER THAN THAT REPORTED UNDER THE COMPLEMENT BINDING TEST.

An investigation in regard to the presence, character and treatment of vulvovaginitis and urethritis in the contagious disease hospitals of the city was planned in 1910. Up to that time, on account of lack of bacteriologists, no systematic work had been done. Definite regulations for the diagnosis, prevention and treatment of gonorrhœa were formulated, and have been continued throughout 1911 with the most beneficial results. These are published in the "Collected Studies." A summary of cases showing total positive, negative and doubtful during year is given below in the table. A few positive cases developing from those originally diagnosed as doubtful and an occasional one from the negative wards brought the percentage of positive cases within the neighborhood of 10 per cent.

Smear.	Positive.		Negative.		*Doubtful.	
	1910	1911	1910	1911	1910	1911
Vaginal.....	87	168	459	467	800	956
Urethral.....	3	1	...	...	...	...
Eye.....	15	6	58	42	...	20

In 1910 the work on vaginal smears began.

RABIES IN DOGS AND THE TREATMENT OF PERSONS BITTEN.

The figures given below show that the number of rabid dogs received at the laboratory was much greater in 1911 than in 1910 and that the number of persons bitten was correspondingly increased.

* Under "Doubtful" are classed all cases which are not definitely positive or negative. The great majority of these cases as judged by their course and later smears, are not infected by the gonococcus.

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Diagnosis of Rabies in Dogs.

Diagnosis.	By Smear.		By Animal Inoculation.	
	1910	1911	1910	1911
Positive.....	199	384	4*	5*
Negative.....	180	245	..	..
Total dogs.....	379	629	..	..
Total number smears examined.....	2,274	3,774	..	..

Pasteur Treatment.

Cases	1910	1911
Living in city.....	268	486
Living out of city.....	610	597
Treated at laboratory.....	351	389
Treated by mail.....	527	694
Old cases.....	28	26
New cases.....	878	1,083
Total treated.....	906	1,109
Cases developed hydrophobia.....	4	7
Total inoculations.....	19,153	24,878

The results of treatment are shown more clearly in the following statement:

	1910	1911
Number of persons bitten by animals in which the diagnosis of rabies was certain.....	507	605
Number of persons exposed† to saliva of animals in which the diagnosis of rabies was certain.....	87	165
Number of persons bitten by animals in which the diagnosis of rabies was doubtful.....	††198	††291
Total number of cases treated.....	792	1,061
Deaths of patients occurring before the end of the period of observation	2	5
Deaths of patients occurring after the end of the period of observation..	2	2
Total number of deaths.....	4	7
Total mortality in all cases.....	0.5%	0.6%
Mortality occurring after the period of observation.....	0.25%	0.18%

EPIDEMIC CEREBRO-SPINAL MENINGITIS AND OTHER FORMS OF MENINGITIS.

The addition last year of the clinical and laboratory assistants belonging to the newly created Division of Preventive Medicine allowed the laboratories to take up the production and administration of antimeningitis serum. During the fall of 1910 this work was started and six cases of cerebro-spinal meningitis were treated by the

* The negative cases where persons had been bitten were tested upon animals. In 1910, 393 animals were injected. In 1911, 735. These represented one-third the number of cases.

† These cases were not bitten.

†† A number of these patients were undoubtedly bitten by rabid animals but owing to the fact that many orders for treatment are not accompanied by any information bearing on the diagnosis of the animal, they must necessarily be included in this class.

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laboratory workers with the serum produced by the laboratory. During 1911 all cases applying to the laboratory were investigated and treated if the nature of the case permitted it. It soon developed that there were very few cases of epidemic cerebro-spinal meningitis occurring in the city, and the greatest value of the work done was probably not in the treatment of these cases but in the discovery of the real nature of each of the cases, and so giving us a better understanding of the types of infection occurring in the city which simulate cerebro-spinal meningitis.

The clinical work includes the communication with physicians in regard to all cases of meningitis reported, consultation with those who desire it on the case and the performing a lumbar puncture if it seems necessary, administration of serum in all cases where the cerebro-spinal fluid is turbid and the following up and further treatment of all cases that prove to be caused by the meningococcus.

CHOLERA.

During the summer of 1911, due to the presence of cholera on incoming ships, 3270 bacteriological examinations for cholera were made. A small minority were examinations of suspected cases in the city. The remainder were done for the Quarantine Officer of the Port, who requested the aid of the laboratory in the sudden emergency.

INVESTIGATION UPON TRANSMISSION OF IMMUNITY FROM MOTHER TO OFFSPRING.

A large group of infectious diseases is caused by micro-organisms which do not produce toxins (in culture) sufficient in amount or of such nature that curative antitoxins can be produced by animal inoculations. However, more or less immunity may be induced by the use of vaccines prepared from the specific organisms. This procedure is of questionable value in the very young. Since the young are particularly susceptible to certain infections of this type (pneumococcus, etc.) during the first weeks of life other means to bring about their immunization should be considered. This may be brought about through the mother by vaccinations cautiously before birth of young. Extensive animal experimentation has been carried out in the Research Laboratory during the past two years along analogous lines in order to determine if this type of immunity is transmissible from the mother to the offspring.

TESTS FOR SYPHILIS AND LATENT GONORRHEA.

During the latter half of the year 1911 complement binding test (Wasserman) was made available for all who desired it, providing the name and address of the person were furnished. This was done both for the purpose of giving needed information to the physician and to gain statistical knowledge. Later the complement binding test was similarly applied to test the blood of those suspected of having latent gonorrhœa.

The number of tests made up January 1, 1912, are shown in the following table:

Sero-diagnostic tests for syphilis (the routine Wasserman Reaction).....	377
Sero-diagnostic tests for chronic gonococcal infections.....	34

VACCINE VIRUS.

Cold Storage: As a result of a series of experiments, suggested by some published results, extending throughout the year 1910, it was found that vaccine virus stored at a temperature near zero Fahrenheit maintains its potency much longer than when kept at a temperature of an ordinary ice-box (50° to 60° Fahr.) and somewhat longer than when kept at the temperature of melting ice, or even 10 to 20 degrees.

Since January, 1911, all bulk virus has been kept at a temperature of 4° to 8° below zero Fahr. in a cold-storage warehouse.

Only sufficient bulk virus for daily needs is kept at the laboratory, and this is packed in ice.

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Those capillary tubes which are in packages ready for issue are kept in the coldest chamber of the ice-box at the Research Laboratory at a temperature of 32° to 40° Fahr.

Early in the year 1911 the Assistant Director of the Vaccine Laboratory, Dr. F. S. Fielder, devised a new method of obtaining seed for vaccinating calves. This method was largely used during the last eight months of the year, and proved very satisfactory. The method will be continued in use, and if the second year of its employment bears out the promise of the first year it will be made the subject of a special report. Thus far it has appeared to result in a larger average yield of pulp per calf, without failures, and the virus has been almost uniformly long-lived.

As a result of these two improvements it is now possible to use practically all of our virus instead of wasting a considerable part of it, as was formerly the case.

During the year 1911 a slightly larger amount of virus was issued than during 1910. It is hoped still further to reduce the number of calves vaccinated during 1912 without reducing the output of virus and to bring the waste down to a minimum.

During the year 1912 the laboratory building devoted to vaccine virus was thoroughly overhauled, repaired and repainted. A number of improvements were made in the system of records.

The routine work performed in the vaccine laboratory is seen in the following table:

Production of Vaccine Virus.

	1910.	1911.
Grams collected.....	3,020.30	2,345.07
Cubic centimeters of liquid virus prepared.....	12,463	10,123
Spades charged with humanized virus.....	2,258	450

Experimental Testing of Virus.

Primary vaccinations.....	2,772	2,199
Secondary vaccinations.....	15	5
Vaccination certificates issued.....	2,490	1,948
Visits	2,970	3,056

Miscellaneous.

Specimens of virus tested bacteriologically.....	1,145	828
Inspections of virus previously sold.....	979	2,293
Animals vaccinated.....	124	127
Animals collected from.....	123	101
Autopsies on animals.....	124	49
Guinea pigs injected.....	236	189
Other animals experimented upon.....	201	52
Mailing blocks prepared.....	123,296	105,056
Capillary tubes prepared.....	154,735	143,777
Capillary tubes destroyed (unissued, returned).....	25,266	24,510

Vaccine Virus.	Issued.	To Chief Clerk.	To Hos-pitals.	To Miscel-laneous.	In Exchange for Old Virus.	Totals.
Capillary tubes.....	1910	495	0	22	6,183	40,700
	1911	241	12	25	8,296	141,574
Small vials.....	1910	,029	1,751	119	0	4,899
	1911	2,418	1,481	92	0	3,991
Large vials.....	1910	5,720	0	0	0	5,720
	1911	5,942	34	0	0	5,976

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BACTERIAL VACCINES AND TOXINS OTHER THAN THOSE NOTED ELSEWHERE.

The preparation of bacterial vaccines, such as those of streptococcus, pneumococcus, staphylococcus, gonococcus, typhoid, glanders and the tuberculin have been carried on as needed. Polyvalent vaccines of the first four named are kept in stock for general distribution. Anti-sera for streptococcus, pneumococcus and dysentery infections and chronic endocarditis are also regularly produced and are kept in stock. Medical inspectors assigned to the division of the laboratory devoted to specific therapy have answered all calls of physicians for consultations or for administering the sera or vaccines. Many visits have been made not only at the homes of the patients, but also at the principal hospitals. The gonococcus, typhoid and staphylococcus vaccines have been in greatest demand. The diphtheria and tetanus sera have been produced in sufficient amount to supply the needs of the City of New York and any outside demands. The antitoxic sera are refined in the laboratory, so that the antitoxin is largely freed from extraneous substances in the horse serum. The methods used in the refining process have been improved during the past year. It is interesting to note that this process, which originated in this laboratory, has been adopted by all in this country and a portion of those in Europe.

The work of the various divisions of the laboratory not noted elsewhere, with the exception of the chemical, so far as it can be shown by figures is summarized in the following table:

Production of Antitoxic Serums, Vaccines and Toxins Other Than Those Noted Elsewhere.

	1910	1911
Units of diphtheria anti-toxin (serum) produced.....	955,670,000	990,009,500
Units of diphtheria anti-toxin (globulin) distributed.....	469,378,567	252,406,600
Cubic centimeters of diphtheria toxin produced.....	281,600	146,440
Units of tetanus anti-toxin (serum) produced.....	21,335,500	28,415,300
Units of tetanus anti-toxin (globulin) distributed.....	9,166,875	10,666,625
Cubic centimeters of tetanus toxin produced.....	27,940	113,086
Cubic centimeters of mallein produced.....	5,800	4,125
Cubic centimeters of mallein distributed.....	1,137	3,077
Cubic centimeters of tuberculin produced.....	1,300	1,665
Cubic centimeters of tuberculin distributed.....	487	1,506
Cubic centimeters of anti-meningitis serum produced.....	....	106,540
Cubic centimeters of anti-meningitis serum distributed.....	....	65,098
Cubic centimeters of anti-streptococcus serum produced.....	....	44,750
Cubic centimeters of anti-streptococcus serum distributed.....	17,630	40,750
Injections given to horses at Otisville stable.....	762	2,468
Bleedings from horses at Otisville stable.....	414	529

CHEMICAL LABORATORY.

The following is a summary of the work done by the Chemical Laboratory during the past two years:

	1910.	1911.
Specimens analyzed.....	15,561	10,013
Apparatus tested (Babcock flasks, lactometers, thermometers)....	349	321
Reports forwarded.....	15,910	10,334
Milks analyzed.....	10,309	6,000
Adulterated.....	1,776	484
Unadulterated.....	8,533	5,516
Creams analyzed.....	1,590	758
Adulterated.....	167	34
Unadulterated.....	1,423	724
Waters analyzed.....	951	916
Cellar waters.....	15	12
Half days at court.....	460	431
For Police Department.....	182	199
For Health Department.....	278	232

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The first figures in the foregoing table under the heading "Specimens analyzed" include the routine analyses by the Chemical Laboratory of samples submitted by inspectors of the Department covering a wide range of materials, such as beverages, alcoholic and non-alcoholic; carbohydrates, including sugars, honey and fruits packed and preserved with sugar, bread, flour and starchy substances. Flour and its various products, such a bread, crackers, wafers, pie and pudding, examined for adulterations and preservatives, and meat and meat products, fish and fish products, canned soups, eggs, fats and oils, drugs and medicines, condiments, vegetables, spices, tea and coffee, baking-powders, flavoring extracts and other miscellaneous food products. The laboratories also analyzed all supplies bought on contract for use in the Department of Health, including disinfectants, coal and miscellaneous supplies, such as soaps and washing powders, starch, matches, paints, oils and varnish, white lead and metal polish.

MILK EXAMINATIONS.

During the latter half of 1910 the new State law fixing the minimum of total milk solids at 11.5 per cent. instead of 12 per cent. was in effect. This law has had a marked effect upon the number of samples of milk found to be adulterated. The following table comparing the milk and cream analyses of 1910 with 1911 and the first six months of 1910 with the first six months of 1911 shows that since the new law has been in effect the number of samples found to be below the standard has decreased very markedly. Using the same basis of percentage of adulteration, it may be readily calculated that if the law had not been changed and the standard had remained at 12 per cent. the number of samples found to be adulterated in respect of total solids in 1910 would have been 2,071 instead of 1,663, and in 1911 1,205 instead of 409.

Year.	Milks.	Adulteration in		Total Adulteration.
		Solids.	Fats.	
1910.....	10,309	1,663...16.11%	113...1.09%	1,776...17.20%
1911.....	6,000	409... 6.81%	75...1.25%	484... 8.06%
1910				
First six months.....	7,590	1,525...20.09%	83...1.09%	1,608...21.18%
Second six months.....	2,719	138... 5.11%	39...1.43%	177... 6.54%

WORK FOR OTHER DEPARTMENTS.

Owing to the present limitations of facilities and the consequent inability to perform more than the necessary work for the Department of Health, it has been necessary to materially reduce the amount of work formerly done for other city departments. At the present time practically no work is done for any outside department except the Police Department, and then only those analyses are made which are certified by police headquarters as necessary to be made. In 1911 214 samples were examined for the Police Department, distributed principally as follows:

Cocaine	87
Opium and morphine.....	76
Metal poisons	7
Alcohol and whiskey.....	36
Chloroform	2

VITAL STATISTICS.

Shortened and condensed tables of vital statistics for the years 1910 and 1911, exhibiting so far as possible the comparison between these two years, are presented at the end of this report.

ADVISORY COMMITTEE OF STATISTICIANS.

The Bureau of Records during the past years has not shared the notable expansion which has come with increased appropriations to the other divisions of the Department, yet the registration by accurate and modern methods of the vital statistics of the community and the study and interpretation of these data are fundamental requisites of effective public health administration. In order to determine the needs of this branch of the work and to obtain expert advice in formulating plans for its improvement the Department, in July, 1910, sought and obtained the voluntary co-operation of several eminent statisticians in this country: Prof. Walter F. Wilcox, of Cornell University, Consulting Statistician of the New York State Department of Health; Prof. C. E. A. Winslow, of the College of the City of New York, formerly connected with the Massachusetts Institute of Technology; Dr. Cressy L. Wilbur, Chief Statistician of the Federal Department of Commerce and Labor, and Dr. Robert S. Tracy, who retired from the position of Registrar of the Department of Health in 1901. At a meeting of the Board of Health held November 29, 1910, a resolution was adopted requesting the Board of Consulting Statisticians to formulate and present a comprehensive scheme for the development of the work of the Bureau of Vital Statistics, with the view of bringing its records to a point of efficiency and utility equal to the best of those of any European city. The increased appropriation, which was very necessary for the prosecution of the plans this Board recommended, was, however, not granted by the Board of Estimate.

PROSECUTIONS FOR FAILURE TO REPORT BIRTHS.

The Department has made unusual efforts to enforce compliance with Section 1237 of the Charter, which requires the reporting of births by physicians and midwives within ten days of the date of birth. Observance of this law is so essential to the correctness of vital statistics and to the individual welfare of the citizens affected that the Department has not hesitated to bring civil actions against large numbers of physicians and midwives who have become delinquent in this respect. The statute is based upon a public necessity and was passed for the purpose of procuring and preserving the vital statistics of the city and enabling citizens to produce competent proof of their birth at times when such proof may be absolutely essential from a personal or property standpoint. The law concerns both the private and public rights of the child. By the report of birth the child's identity is fixed and the fact of its birth permanently established. Failure to promptly report the birth may result in permanent injury to the child, inasmuch as it affects legitimacy, property rights, education and citizenship. Under the education law it is necessary for a child to secure a copy of the record of birth before it can enter school, and the same law makes it mandatory that the child must attend school between seven and fourteen years of age. The same proof of age is necessary in obtaining employment certificates at the age of fourteen, and may be required in case there is any question regarding the age of a child who

VITAL STATISTICS.

desires to leave school. The record of birth may also be required for a young man to prove his right of franchise, for a man or woman to enter the marriage relation, to inherit property or to prove citizenship in case of a visit to foreign countries. In fact, a record of birth may be required at almost any time through the citizen's life for many and very important reasons.

Physicians and midwives have been repeatedly warned by the Department that the law must be complied with, and their attention has been called to the seriousness to public and private welfare of negligence or omission to file the required reports. Such warnings, however, had not been effective, and early in 1910 the Department began a systematic prosecution of delinquents. From 1905 to the beginning of 1910 only two such cases had been prosecuted. In 1910 45 actions were begun and in 1911 260 actions. The disposition of these actions is shown in the following table:

1910.		
Number of actions instituted		45
“ “ “ settled upon payment of penalty.....		22
“ “ “ withdrawn by the Commissioner of Health.....		3
“ “ “ pending December 31, 1910.....		20
Total amount of fines imposed and collected by the Corporation Counsel.....	\$280	00
1911.		
Number of actions pending at beginning of the year.....		20
“ “ “ instituted during the year.....		260
		280
Dispositions:		
Number of actions settled upon payment of penalty.....		233
“ “ “ withdrawn by Commissioner of Health.....		10
“ “ “ discontinued—defendants not found.....		9
“ “ “ discontinued—no proof.....		2
“ “ “ declared mistrials (reissued).....		3
“ “ “ barred by Statute of Limitations.....		1
“ “ “ discontinued—wrong defendant.....		3
Number of judgments for defendants		4
“ “ “ “ “ reversed on appeal.....		1
“ “ “ “ “ sustained on appeal.....		1
“ “ “ “ plaintiff—transcripts filed.....		2
Pending in court December 31, 1911.....		11
		280
Total amount of fines imposed and collected by Corporation Counsel.....	\$2,905	00

VITAL STATISTICS.

Report of Bureau of Records for Years 1910-1911.

	Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.		City of New York.	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Number of deaths.....	38,660	38,386	6,968	6,938	25,676	24,511	3,971	3,998	1,467	1,590	76,742	75,423
Death rate.....	16.51	16.07	15.85	14.36	15.59	14.33	13.77	12.87	16.94	17.75	15.98	15.13

Borough.	Estimated Population.		Marriages.		Births.		Deaths.		Stillbirths.	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Manhattan.....	2,341,383	2,389,204	28,883	30,105	66,357	66,527	38,660	38,386	3,541	3,438
The Bronx.....	439,507	483,224	2,308	2,536	10,905	12,464	6,968	6,938	549	579
Brooklyn.....	1,647,294	1,770,801	12,881	13,748	42,708	45,699	25,676	24,511	2,221	2,188
Queens.....	288,440	310,523	1,839	1,824	7,119	7,571	3,971	3,998	347	372
Richmond.....	86,580	89,573	506	492	1,991	2,283	1,467	1,590	93	96
City of New York.....	4,803,264	4,983,385	46,417	48,765	129,080	134,544	76,742	75,423	6,751	6,673

Borough.	Rate per 1,000.		Marrriages.		Births.		Deaths.		Stillbirths.		Transit Permits Issued.		Coroner's Cases.		Searches Made.		Transcripts Issued.	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Manhattan.....	12.34	12.63	27.85	16.51	16.07	1.51	1.44	1,197	1,250	5,327	5,494	75,886	88,865	28,664	30,706	10,397	10,533	4,860
The Bronx.....	5.23	5.25	24.81	25.79	15.85	14.36	1.25	1.20	32	35	785	874	10,397	10,533	18,236	18,236	18,236	18,236
Brooklyn.....	7.82	8.04	25.93	26.71	13.59	14.33	1.34	1.28	642	662	3,178	3,172	46,645	52,342	2,907	2,783	2,907	2,783
Queens.....	6.38	5.87	24.68	24.38	13.77	12.87	1.20	1.20	783	804	701	742	5,731	5,731	1,828	1,828	1,828	1,828
Richmond.....	5.84	5.49	23.00	25.49	16.94	17.75	1.07	1.07	13	26	227	249	2,432	2,432	160,751	160,751	54,380	57,500
City of New York.....	9.66	9.79	26.87	27.00	15.98	15.13	1.41	1.34	2,660	2,777	10,218	10,531	140,911	160,751	54,380	57,500	16,011	16,011

Deaths in institutions, tenements, dwellings, hotels and boarding houses, streets, rivers, etc.	Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.		City of New York.	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Deaths in institutions.....	17,097	17,365	2,913	2,949	6,880	6,588	566	659	563	651	28,019	28,212
" " tenements.....	18,616	17,982	2,522	2,515	11,680	10,884	1,031	981	106	119	33,955	32,481
" " dwellings.....	1,562	1,519	1,385	1,324	6,549	6,469	2,175	2,154	712	741	12,383	12,207
" " hotels and boarding houses.....	493	484	22	11	104	116	52	45	24	24	695	680
" " streets, rivers, etc.....	892	1,036	126	139	463	454	147	159	62	55	1,690	1,843

VITAL STATISTICS.

*Corrected Mortality from all Causes.

1910.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	548	521	99	25	1,193
The Bronx.....	1,281	....	132	9	6	1,428
Brooklyn.....	250	33	....	189	3	475
Queens.....	73	7	64	....	....	144
Richmond.....	72	6	21	1	....	100
Plus.....	1,676	594	738	298	34	38,660
Minus.....	1,193	1,428	475	144	100	38,660
Net gain or loss.....	+483	-834	+263	+154	-66	....
Deaths reported.....	38,660	6,968	25,676	3,971	1,467	76,742
Death rate.....	16.51	15.85	15.59	13.77	16.94	15.98
Corrected deaths.....	39,134	6,134	25,939	4,125	1,401	....
" rate.....	16.72	13.95	15.75	14.30	16.18	....

1911.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	624	677	177	46	1,524
The Bronx.....	1,163	....	85	12	3	1,263
Brooklyn.....	127	18	....	204	1	350
Queens.....	100	4	78	....	....	182
Richmond.....	70	9	27	4	....	110
Plus.....	1,460	655	867	397	50	38,386
Minus.....	1,524	1,263	350	182	110	38,386
Net gain or loss.....	-64	-608	+517	+215	-60	....
Deaths reported.....	38,386	6,938	24,511	3,998	1,590	75,423
Death rate.....	16.07	14.36	14.33	12.87	17.75	15.13
Corrected deaths.....	38,322	6,330	25,028	4,213	1,530	....
" rate.....	16.04	13.27	14.59	13.44	17.36	....

* Corrected death rate means that the death rate of each borough is corrected by the exclusion of the deaths of residents of the other boroughs occurring within its limits and the inclusion of the deaths of residents of the borough occurring in other boroughs.

VITAL STATISTICS.

Corrected Mortality of Children Under Five Years of Age.

1910.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	126	84	19	3	232
The Bronx.....	64	....	4	....	1	69
Brooklyn.....	151	20	....	23	....	194
Queens.....	17	1	9	....	....	27
Richmond.....	22	4	10	....	....	36
Plus.....	254	151	107	42	4	558
Minus.....	232	69	194	27	26	558
Net gain or loss.....	+22	+82	-87	+15	-32	....
Deaths reported.....	13,048	1,626	7,974	1,262	385	24,268
Death rate.....	48.69	32.28	41.63	34.95	39.85	43.67
Corrected deaths.....	13,070	1,708	7,860	1,277	353	....
“ rate.....	48.77	33.91	41.04	35.36	36.54	....

1911.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	134	92	22	8	256
The Bronx.....	167	....	2	....	....	169
Brooklyn.....	19	2	....	20	....	41
Queens.....	11	....	5	....	....	16
Richmond.....	17	....	6	1	....	24
Plus.....	214	136	105	43	8	506
Minus.....	256	169	41	16	24	506
Net gain or loss.....	-42	-33	+64	+27	-16	....
Deaths reported.....	12,066	1,703	6,963	1,111	399	22,242
Death rate.....	44.07	30.75	35.00	28.58	39.91	38.60
Corrected deaths.....	12,024	1,670	7,027	1,138	383	....
“ rate.....	43.92	30.16	35.32	29.27	38.31	....

VITAL STATISTICS.

Corrected Measles Mortality.

1910.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	1	2	....	....	3
The Bronx.....	10	....	....	....	....	10
Brooklyn.....	126	15	....	3	....	144
Queens.....	....	....	....	....	....	....
Richmond.....	....	....	....	....	....	....
Plus.....	136	16	2	3	....	157
Minus.....	3	10	144	....	....	157
Net gain or loss.....	+133	+6	-142	+3	....	....
Deaths reported.....	271	56	422	30	6	785
Death rate.....	.12	.13	.26	.10	.07	.16
Corrected deaths.....	404	62	280	33	6	....
“ rate.....	.17	.14	.17	.11	.07	....

1911.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	1	3	....	....	4
The Bronx.....	112	....	1	....	....	113
Brooklyn.....	6	1	....	....	....	7
Queens.....	....	....	....	....	....	....
Richmond.....	2	....	....	1	....	3
Plus.....	120	2	4	1	....	127
Minus.....	4	113	7	....	3	127
Net gain or loss.....	+116	-111	-3	+1	-3	....
Deaths reported.....	321	171	128	10	29	659
Death rate.....	.13	.35	.07	.03	.32	.13
Corrected deaths.....	437	60	125	11	26	....
“ rate.....	.18	.12	.07	.04	.29	....

VITAL STATISTICS.

Corrected Scarlet Fever Mortality.

1910.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	26	1	....	1	28
The Bronx.....	20	....	....	....	....	20
Brooklyn.....	2	....	....	7	....	9
Queens.....	....	....	....	....	....	....
Richmond.....	....	....	....	....	....	....
Plus.....	22	26	1	7	1	57
Minus.....	28	20	9	....	....	57
Net gain or loss.....	-6	+6	-8	+7	+1	....
Deaths reported.....	448	75	385	33	12	953
Death rate.....	.19	.17	.23	.11	.14	.19
Corrected deaths.....	442	81	377	40	13	....
“ rate.....	.19	.19	.23	.14	.15	....

1911.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	16	3	....	2	21
The Bronx.....	14	....	....	....	....	14
Brooklyn.....	....	....	....	8	....	8
Queens.....	....	....	....	....	....	....
Richmond.....	....	....	....	....	....	....
Plus.....	14	16	3	8	2	43
Minus.....	21	14	8	....	....	43
Net gain or loss.....	-7	+2	-5	+8	+2	....
Deaths reported.....	360	55	295	23	8	741
Death rate.....	.15	.11	.17	.07	.09	.15
Corrected deaths.....	353	57	290	31	10	....
“ rate.....	.15	.12	.17	.10	.11	....

VITAL STATISTICS.

Corrected Pulmonary Tuberculosis Mortality.

1910.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	38	67	19	6	130
The Bronx.....	943	....	77	8	3	1,031
Brooklyn.....	11	1	....	15	....	27
Queens.....	2	....	1	....	....	3
Richmond.....	32	1	6	....	....	39
Plus.....	988	40	151	42	9	1,230
Minus.....	130	1,031	27	3	39	1,230
Net gain or loss.....	+858	-991	+124	+39	-30	....
Deaths reported.....	3,975	1,781	2,430	358	148	8,692
Death rate.....	1.70	4.05	1.48	1.24	1.71	1.81
Corrected deaths.....	4,833	790	2,554	397	118	....
“ rate.....	2.06	1.80	1.55	1.38	1.36	....

1911.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	59	149	37	3	248
The Bronx.....	711	....	66	7	2	786
Brooklyn.....	6	....	....	37	....	43
Queens.....	2	....	1	....	....	3
Richmond.....	18	3	7	1	....	29
Plus.....	737	62	223	82	5	1,109
Minus.....	248	786	43	3	29	1,109
Net gain or loss.....	+489	-724	+180	+79	-24	....
Deaths reported.....	4,221	1,573	2,464	361	171	8,790
Death rate.....	1.77	3.26	1.44	1.16	1.91	1.76
Corrected deaths.....	4,710	849	2,644	440	147	....
“ rate.....	1.97	1.76	1.55	1.42	1.64	....

VITAL STATISTICS.

Corrected Diarrhæal Disease Mortality Under Five Years.

1910.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	23	13	5	....	41
The Bronx.....	4	....	....	....	....	4
Brooklyn.....	....	1	....	7	....	8
Queens.....	13	1	5	....	....	19
Richmond.....	10	3	6	....	....	19
Plus.....	27	28	24	12	....	91
Minus.....	41	4	8	19	19	91
Net gain or loss.....	-14	+24	+16	-7	-19	....
Deaths reported.....	3,021	342	2,092	359	104	5,918
Death rate.....	11.26	6.79	10.92	9.94	10.76	10.64
Corrected deaths.....	3,007	366	2,108	352	85	5,918
" rate.....	11.21	7.27	11.00	9.75	8.79	10.64

1911.

Place of Death.	Residents of					Total.
	Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
Manhattan.....	....	28	15	6	3	52
The Bronx.....	1	....	....	....	....	1
Brooklyn.....	4	1	....	9	....	14
Queens.....	5	....	2	....	....	7
Richmond.....	12	1	5	....	....	18
Plus.....	22	30	22	15	3	92
Minus.....	52	1	14	7	18	92
Net gain or loss.....	-30	+29	+8	+8	-15	....
Deaths reported.....	2,231	327	1,730	297	111	4,696
Death rate.....	8.16	5.91	8.70	7.64	11.10	8.15
Corrected deaths.....	2,201	356	1,738	305	96	....
" rate.....	8.05	6.43	8.74	7.84	9.60	....

VITAL STATISTICS.

Deaths of Non-Residents from Certain Causes, by Boroughs, Years 1910 and 1911.

Cause of Death.	Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.		City of New York.	
	1910.	1911.	1910.	1911.	1910.	1911.	1910.	1911.	1910.	1911.	1910.	1911.
	Typhoid fever.....	11	11	2	5	..	1	4	3	17	20
Pulmonary Tuberculosis.....	32	41	43	25	13	25	2	4	9	18	102	131
Other tuberculous diseases.....	15	3	2	3	3	1	..	1	1	..	22	29
Cancer.....	96	104	7	10	6	16	3	6	4	..	112	133
Alcoholism.....	7	8	..	..	1	2	1	1	1	..	9	12
Heart diseases.....	50	65	4	6	17	18	3	6	6	..	80	101
Acute respiratory diseases.....	39	63	1	3	11	11	3	3	6	..	60	80
Diarrhoeal diseases.....	15	19	..	..	3	3	..	1	..	1	18	25
Appendicitis.....	8	15	1	1	8	3	..	1	..	..	17	20
Cirrhosis of liver.....	12	5	..	..	2	2	2	2	2	..	19	9
Diseases of women.....	11	10	..	1	3	5	..	..	..	..	14	16
Congenital debility.....	14	11	..	..	..	2	..	1	..	1	14	15
Accidents.....	94	65	14	14	18	30	2	6	6	10	127	125
Suicides.....	17	27	7	7	1	4	..	2	1	..	21	33
Other causes.....	154	211	14	14	32	41	14	16	6	15	218	297
Total.....	619	721	85	102	133	185	29	58	48	56	914	1,122
Under 5 years.....	49	99	4	4	11	7	1	7	1	5	66	122
5 to 25 years.....	84	91	15	19	24	29	3	5	0	7	135	151
25 to 45 years.....	214	214	36	43	47	72	11	19	23	10	327	367
45 to 65 years.....	102	204	19	20	30	41	11	22	9	16	367	303
65 years and over.....	84	115	11	10	15	36	3	5	6	9	119	179
Deaths in institutions.....	448	526	75	82	91	103	20	43	37	40	671	794
Deaths in houses.....	120	133	4	9	25	60	8	9	4	5	167	216
Deaths in other places.....	45	62	6	11	17	22	1	6	7	11	76	111

VITAL STATISTICS.

Deaths of Males by Age, and Cause of Death, City of

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5
I. General Diseases.									
1. Typhoid fever.....	558	364	1	2	3	2	..	8	13
2. Typhus fever.....	..	..	..	..	..	..	..	..	..
3. Relapsing fever.....	..	..	..	..	..	..	..	..	..
4. Malarial fever.....	27	13	1	..	1	..	..	2	..
5. Small pox.....	5	2	1	..	..	..	..	1	..
6. Measles.....	785	435	114	194	64	27	0	408	20
7. Scarlet fever.....	953	501	27	64	94	67	43	295	134
8. Whooping cough.....	294	130	74	32	14	4	3	127	2
9. Diphtheria and croup.....	1,715	922	108	262	166	122	85	743	132
10. Influenza.....	366	155	9	8	4	1	..	22	5
11. Miliary fever.....	..	..	..	..	..	..	..	..	..
12. Asiatic cholera.....	..	..	..	..	..	..	..	..	..
13. Cholera nostras.....	..	..	..	..	..	..	..	..	..
14. Dysentery.....	128	53	8	6	2	..	..	16	..
15. Plague.....	..	..	..	..	..	..	..	..	..
16. Yellow fever.....	..	..	..	..	..	..	..	..	..
17. Leprosy.....	..	..	..	..	..	..	..	..	..
18. Erysipelas.....	329	159	57	6	1	..	..	64	..
19. Other epidemic diseases.....	10	6	4	1	..	..	1	6	..
20. Pyæmia, septicæmia.....	108	67	14	..	..	1	2	17	1
21. Glanders.....	4	4	..	..	..	..	..	..	..
22. Malignant pustule.....	1	..	..	..	..	..	..	..	..
23. Hydrophobia.....	7	6	..	..	..	..	1	1	2
24. Tetanus, trismus.....	41	29	3	..	..	..	1	4	5
25. Mycosis.....	2	2	..	..	..	..	..	..	..
26. Pellagra.....	1	..	..	..	..	..	..	..	..
27. Beri Beri.....	..	..	..	..	..	..	..	..	..
28. Tuberculosis of lungs.....	8,692	5,599	25	27	12	2	9	75	16
29. Acute miliary tuberculosis.....	143	77	6	4	6	2	1	19	5
30. Tuberculous meningitis.....	801	435	87	99	66	37	20	309	47
31. Abdominal tuberculosis.....	173	80	17	5	4	2	2	32	4
32. Pott's disease.....	85	49	2	..	..	5	1	8	7
33. White swelling.....	32	19	..	..	1	..	..	1	5
34. Tuberculosis of other organs.....	97	61	5	2	1	2	1	11	2
35. General tuberculosis.....	51	32	8	3	..	..	..	11	3
36. Rachitis.....	59	27	20	4	2	..	..	26	..
37. Syphilis.....	389	225	106	10	4	..	..	120	4
38a. Soft chancre.....	9	3	..	..	..	..	..	..	..
38b. Gonococcal infection.....	19	4	1	..	..	..	..	1	..
39. Cancers, etc., of the mouth.....	140	119	..	..	..	..	..	..	1
40. Cancer of stomach, liver.....	1,433	713	1	..	2	..	..	3	..
41. Cancer of intestines, rectum.....	602	285	1	..	..	..	..	1	..
42. Cancer of female genital organs.....	553	..	..	..	..	..	..	..	..
43. Cancer of the breast.....	357	9	1	..	..	..	..	1	..
44. Cancer of the skin.....	65	40	..	..	..	..	..	..	..
45. Cancer of other organs and unspecified.....	560	358	..	2	7	2	1	12	1
46. Other tumors (except of female genital organs)	69	34	3	..	..	..	1	4	1
47. Acute articular rheumatism.....	467	226	1	1	2	3	3	10	24
48. Chronic rheumatism and gout.....	160	64	3	..	..	..	..	..	3
49. Scurvy.....	8	3	1	..	..	..	..	1	..
50. Diabetes.....	768	320	..	..	1	1	..	2	2
51. Exophthalmic goitre.....	48	4	..	..	..	..	..	..	..
52. Addison's disease.....	18	7	..	..	..	..	..	..	..
53. Leukæmia.....	80	51	1	2	2	1	1	7	4
54. Anæmia, chlorosis.....	133	62	1	3	1	..	..	5	2
55. Other general diseases.....	68	41	17	4	1	..	..	22	2
56. Alcoholism, acute and chronic.....	621	495	..	..	..	..	..	..	..
57. Lead poisoning.....	18	18	..	..	..	..	..	..	..
58. Other chronic poisonings of occupation.....	..	..	..	..	..	..	..	..	..
59. Other chronic poisonings.....	10	5	..	..	..	..	..	..	..
II. Diseases of Nervous System and Organs of Sense.									
60. Encephalitis.....	26	16	2	..	2	..	..	4	3
61. Simple Meningitis.....	608	344	104	48	25	13	6	196	30
61a. (of which) Cerebro-Spinal Meningitis.....	294	159	48	20	13	9	5	95	15
62. Locomotor ataxia.....	96	74	..	..	..	..	..	..	..
63. Other diseases of spinal cord.....	211	129	7	8	8	5	4	32	4
64. Apoplexy, cerebral hæmorrhage.....	949	511	2	..	..	..	..	2	1
65. Softening of brain.....	30	13	..	..	..	..	..	..	..
66. Paralysis unspecified.....	151	57	..	1	..	1	..	2	..
67. General paresis.....	195	131	..	..	..	..	..	..	..
68. Other forms of insanity.....	57	30	..	..	..	..	..	..	..
69. Epilepsy.....	136	80	2	..	1	..	1	4	5
70. Convulsions (not puerperal).....	6	1	..	..	..	..	..	..	..

VITAL STATISTICS.

Deaths of Males by Age, and Cause of Death, City of New

Cause of Death.	Total Both Sexes.	All Ages	Under 1 Year.	1	2	3	4	Total Under 5.	5
71. Convulsions of infants.....	430	230	189	36	3	2	..	230	..
72. Chorea.....	7	1	1	..	..	..	..	1	..
73a. Hysteria.....	5	1	..	..	..	..	..	..	..
73b. Neuralgia and Neuritis.....	21	10	..	..	..	..	..	..	..
74. Other nervous diseases.....	163	88	2	7	4	2	1	16	10
75a. Follicular conjunctivitis.....	..	..	..	..	..	..	..	..	..
75b. Trachoma.....	..	..	..	..	..	..	..	..	..
75c. Other diseases of eye and appendages.....	5	..	..	..	..	..	..	..	..
76. Diseases of ear.....	152	90	22	13	2	1	1	39	8
III. Diseases of Circulatory System.									
77. Pericarditis.....	39	21	..	..	..	..	..	..	4
78. Acute endocarditis.....	1,252	632	6	2	5	2	3	18	11
79. Organic heart diseases.....	6,870	3,413	13	6	5	9	8	41	29
80. Angina pectoris.....	189	121	..	..	..	..	..	..	..
81. Diseases of arteries, aneurism, etc.....	1,903	986	..	..	..	..	..	..	..
82. Embolism, thrombosis.....	187	84	3	1	..	1	..	5	1
83. Diseases of veins (hæmorrhoids, varices, phlebitis, etc.).....	33	12	..	..	..	..	..	..	..
84. Diseases of lymphatics (lymphangitis, etc.)..	23	12	9	1	..	..	..	10	..
85. Hæmorrhage.....	35	19	7	..	1	1	..	9	..
IV. Diseases of Respiratory System.									
86. Diseases of nasal fossæ.....	2	2	..	..	..	..	..	..	..
87. Diseases of the larynx.....	43	28	7	8	2	3	3	23	..
88. Diseases of thyroid gland.....	15	7	3	..	..	..	1	4	..
89. Acute bronchitis.....	928	447	300	61	9	5	3	378	6
90. Chronic bronchitis.....	407	215	5	4	..	..	..	9	1
91. Broncho-pneumonia.....	4,979	2,561	1,190	534	162	49	39	1,974	42
92. Lobar pneumonia.....	5,540	3,141	302	231	90	48	31	702	43
93. Pleurisy.....	362	199	22	31	20	7	6	86	5
94. Congestion of lungs, pulmonary apoplexy...	93	52	12	2	1	..	..	15	..
95. Gangrene of lung.....	14	9	1	..	..	..	..	..	..
96. Asthma.....	137	69	1	..	..	..	..	1	..
97. Pulmonary emphysema.....	61	32	..	..	..	..	..	..	1
98. Other diseases of respiratory system (Tuberculosis excepted).....	93	58	2	2	..	..	..	4	2
V. Diseases of Digestive System.									
99a. Diseases of teeth and gums.....	12	9	2	1	..	..	..	3	1
99b. Other diseases of mouth.....	17	11	2	2	2	1	..	7	..
100. Angina and other diseases of pharynx.....	65	46	10	8	1	..	..	19	3
101. Diseases of Æsophagus.....	13	7	2	..	..	..	..	2	..
102. Ulcer of the stomach.....	206	118	1	..	..	..	..	1	..
103. Other diseases of stomach (cancer excepted)..	295	144	49	2	6	1	2	60	1
104. Diarrhœa and enteritis (under two years)...	5,649	2,966	2,513	453	..	..	..	2,966	..
105. Diarrhœa and enteritis (two years and over). (Of which) due to alcoholism.....	721	341	..	..	102	31	10	143	14
106. Ankylostomiasis.....	..	..	..	..	..	..	..	..	..
107. Intestinal parasites.....	5	2	1	..	..	..	..	1	..
108. Appendicitis and typhlitis.....	639	363	2	1	2	6	5	16	25
109. Hernia, intestinal obstruction.....	587	295	61	8	5	2	2	78	7
110a. Diseases of anus and stercoral fistulæ.....	30	19	2	..	..	..	..	2	..
110b. Other diseases of intestines.....	40	24	11	..	..	1	..	12	..
111. Acute yellow atrophy of liver.....	18	3	..	..	..	..	..	..	..
112. Hydatid tumor of liver.....	11	9	..	..	..	..	..	..	..
113. Cirrhosis of liver.....	1,140	704	..	..	..	..	..	..	1
114. Biliary calculi.....	84	31	1	..	..	..	..	1	..
115. Other diseases of liver.....	155	75	4	..	2	..	1	7	2
116. Diseases of spleen.....	7	3	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal).....	40	13	5	..	..	..	..	5	..
118. Other diseases of digestive system (except tuberculosis and cancer).....	33	17	..	..	..	..	..	..	..
VI. Diseases of Genito-urinary System.									
119. Acute nephritis.....	734	352	29	5	9	5	6	54	17
120. Bright's disease.....	4,904	2,547	4	2	1	2	2	11	9
121. Chyluria.....	4	3	..	..	..	..	..	..	..
122. Other diseases of the kidneys and appendages	114	63	4	1	..	1	..	6	..
123. Calculi of the urinary tract.....	38	28	..	..	..	..	..	..	..
124. Diseases of bladder.....	76	57	1	1	..	..	..	2	..
125. Diseases of urethra, urinary abscess, etc.....	27	26	..	..	..	..	..	..	..
126. Diseases of the prostate.....	82	82	1	..	..	..	..	1	..
127. Non-venereal diseases of male genital organs.	3	3	..	1	..	..	..	1	..
128. Uterine hæmorrhage (not puerperal).....	4	..	..	..	..	..	..	..	..

VITAL STATISTICS.

Deaths of Males by Age, and Cause of Death, City of New

Cause of Death.	Total Both Sexes.	All Ages	Under 1 Year.	1	2	3	4	Total Under 5.	5
129. Uterine tumor (not cancer).....	116	..	..	..	..	..	..	..	..
130a. Metritis.....	10	..	..	..	..	..	..	..	..
130b. Other diseases of uterus.....	43	..	..	..	..	..	..	..	..
131. Ovarian cysts and tumors.....	39	..	..	..	..	..	..	..	..
132. Salpingitis and other diseases of female genital organs.....	137	..	..	..	..	..	..	..	..
133. Diseases of breast (not puerperal nor cancer).	2	1	1	..	..	..	..	1	..
VII. Puerperal Diseases.									
134. Accidents of pregnancy.....	182	..	..	..	..	..	..	..	..
135. Puerperal hæmorrhage.....	70	..	..	..	..	..	..	..	..
136. Other accidents of labor.....	78	..	..	..	..	..	..	..	..
137. Puerperal septicæmia.....	255	..	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions.....	138	..	..	..	..	..	..	..	..
139a. Puerperal phlegmasia alba dolens.....	10	..	..	..	..	..	..	..	..
139b. Puerperal embolism and sudden death.....	15	..	..	..	..	..	..	..	..
140a. Sequel of delivery.....	12	..	..	..	..	..	..	..	..
140b. Puerperal insanity.....	1	..	..	..	..	..	..	..	..
141. Puerperal diseases of breast.....	..	..	..	..	..	..	..	..	..
VIII. Diseases of Skin and Cellular Tissue.									
142. Gangrene.....	71	33	..	..	..	..	..	..	..
143. Carbuncle.....	29	22	2	..	..	..	..	2	..
144. Phlegmon, acute abscess.....	74	46	13	1	..	..	1	15	1
145. Other diseases of skin and adnexa.....	43	19	7	..	..	..	..	7	..
IX. Diseases of Locomotory System									
146. Diseases of bones (non-tuberculous).....	184	112	16	4	4	3	3	30	6
147. Arthritis, other diseases of joints (except tuberculosis and rheumatism.).....	11	7	1	..	..	..	..	1	..
148. Amputation.....	..	..	..	..	..	..	..	..	..
149. Other diseases of organs of locomotion.....	1	1	..	..	..	..	..	..	..
X. Malformations									
150. Congenital malformations.....	661	386	366	12	3	1	..	382	3
XI. Diseases of Infancy									
151. Congenital debility, icterus and sclerema....	3,652	2,052	2,052	..	..	..	..	2,052	..
152. Other diseases peculiar to infancy, of which..	597	356	356	..	..	..	..	356	..
152a. Injury during birth.....	342	205	205	..	..	..	..	205	..
153. Neglect.....	3	2	2	..	..	..	..	2	..
XII. Diseases of Old Age									
154. Senile debility.....	683	257	..	..	..	..	..	..	..
XIII. External Causes									
155. Suicide by poison.....	94	59	..	..	..	..	..	..	..
156. Suicide by asphyxia.....	275	183	..	..	..	..	..	..	..
156. Suicide by hanging or strangulation.....	93	71	..	..	..	..	..	..	..
158. Suicide by submersion.....	14	11	..	..	..	..	..	..	..
159. Suicide by firearms.....	226	213	..	..	..	..	..	..	..
160. Suicide by cutting instruments.....	51	48	..	..	..	..	..	..	..
161. Suicide by precipitation from height.....	65	41	..	..	..	..	..	..	..
162. Suicide by crushing.....	7	5	..	..	..	..	..	..	..
163. Suicide by other methods.....	..	..	..	..	..	..	..	..	..
164. Poisoning by food.....	11	4	..	..	..	..	..	..	1
165a. Bites of venomous animals.....	2	..	..	..	..	..	..	..	..
165b. Other acute poisonings.....	67	47	3	3	2	1	2	11	1
166. Conflagrations.....	61	37	..	..	1	3	1	5	1
167. Burns and scalds.....	395	182	8	26	41	25	18	118	19
168. Absorption of deleterious gases.....	287	206	..	1	2	..	..	3	1
169. Accidental submersion.....	444	413	2	2	1	1	..	6	31
170. Pistol and gunshot wounds.....	13	9	..	..	..	..	..	..	1
171. Cuts and stabs.....	15	12	..	..	..	..	..	..	1
172. Deaths by falls.....	992	748	5	18	32	15	10	80	44
173. Deaths in mines and quarries.....	2	2	..	..	..	..	..	..	..
174. Deaths by machinery.....	77	76	..	..	..	..	1	1	..
175. Deaths by other crushing agencies, wagons, etc.....	727	612	..	2	6	5	15	28	81
176. Deaths from injuries inflicted by animals (not snakebites, hydrophobia or stings).....	27	23	..	..	..	3	2	5	1
177a. Physical exhaustion.....	..	..	..	..	..	..	..	..	..
177b. Hunger and thirst.....	3	1	..	..	..	..	..	..	..
178. Excessive cold.....	15	12	..	..	..	..	..	..	..
179. Sunstroke.....	161	102	14	2	2	1	..	19	1
180. Lightning.....	1	1	..	..	..	..	..	..	..

VITAL STATISTICS.

Deaths of Males by Age, and Cause of Death, City of New

Cause of Death.	Total Both Sexes.	All Ages	Under 1 Year.	1	2	3	4	Total Under 5.	5
181. Other electrical accidents.....	23	23	..	..	..	..	..	..	1
182. Homicides by firearms.....	162	135	..	1	2	..	1	4	3
183. Homicides by cutting or piercing instruments	45	36	1	..	..	..	..	1	..
184. Homicides by other means.....	79	57	7	..	..	1	1	9	2
185. Dislocation and fractures.....	86	64	..	..	1	..	..	1	..
186a. Criminal abortion.....	37	..	..	..	..	..	..	..	..
186b. Foreign body larynx.....	17	12	4	1	..	1	1	6	2
186c. Other external violences.....	64	46	18	..	1	1	..	20	5
XIV. Ill-defined or Not Specified Causes									
187. Organic-lesions not defined.....	1	..	..	..	..	..	..	..	..
188. Sudden death.....	2	1	1	..	..	..	..	1	..
189. Ill defined or disease not specified.....	716	372	343	27	..	..	1	371	..
I.—General diseases.....	22,062	12,313	725	741	461	283	185	2,395	447
a. Tuberculous diseases.....	10,074	6,352	150	140	90	52	34	466	89
b. Cancer.....	3,710	1,524	3	2	9	2	1	17	2
II.—Diseases of nervous system and organs of sense.....	3,248	1,797	331	113	45	24	13	526	61
III.—Diseases of circulatory system.....	10,531	5,300	38	10	11	13	11	83	45
IV.—Diseases of respiratory system.....	12,674	6,820	1,844	873	284	112	83	3,196	100
V.—Diseases of digestive system.....	9,767	5,200	2,666	475	120	42	20	3,323	54
VI.—Diseases of genito-urinary system.....	6,333	3,162	40	10	10	8	8	76	26
VII.—Puerperal diseases.....	761	..	..	..	..	..	..	..	..
VIII.—Diseases of skin and cellular tissue.....	217	120	22	1	..	..	1	24	1
IX.—Diseases of locomotory system.....	196	120	17	4	4	3	3	31	6
X.—Malformations.....	661	386	366	12	3	1	..	382	3
XI.—Diseases of infancy.....	4,252	2,410	2,410	..	..	..	..	2,410	..
XII.—Diseases of old age.....	683	257	..	..	..	..	..	..	..
XIII.—External causes.....	4,638	3,491	62	56	91	57	52	318	196
a. Suicide.....	825	631	..	..	..	..	..	..	..
b. Homicide.....	286	228	8	1	2	1	2	14	5
c. Accident.....	3,527	2,632	54	55	89	56	50	304	191
XIV.—Causes ill-defined.....	719	373	344	27	..	..	1	372	..
Total Males.....	..	41,749	8,865	2,322	1029	543	377	13,136	939
Total Females.....	..	34,993	350	2,029	876	557	320	11,132	895
Total both sexes.....	..	76,742	16,215	4,351	1905	1100	697	24,268	1834

VITAL STATISTICS.

York, for the Year Ending December 31, 1910—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and over.	Colored.	Chinese.	Japanese.
1	..	3	5	4	3	3	1	1	1	..	..	..	..	..	..	1	..	..
3	6	27	31	24	11	11	5	4	4	2	..	..	..	..	..	11	10	..
..	3	5	6	7	9	1	2	2	..	..	..	..	..	..	..	2	2	..
4	2	5	8	5	5	8	4	1	1	1	1	..	..	1	..	3	1	..
..	..	7	3	5	14	9	7	5	6	3	1	..	..	3	..	..	..	..
..
..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..
1	2	3	3	2	2	1	6	1	..	..	..	..	..	..	..	1	..	..
..
..
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	11	..	..
161	404	693	882	1,059	1,199	1,120	1,009	868	653	539	410	271	123	53	27	378	45	2
43	289	523	690	830	874	819	644	454	289	176	99	40	18	5	4	288	42	2
4	9	26	19	14	63	92	163	224	193	229	193	155	60	21	13	12	1	..
27	44	42	50	48	69	115	110	138	136	139	128	77	50	25	12	41	2	..
82	110	72	119	180	262	338	428	461	551	614	591	597	369	247	151	120	8	1
44	80	146	164	236	305	327	330	364	286	342	324	228	193	88	67	265	10	..
64	59	69	100	114	157	181	189	224	173	173	114	98	60	28	20	116	8	3
27	25	53	100	146	216	217	285	350	330	356	323	283	185	99	65	84	7	..
..
1	1	5	6	8	5	6	9	9	7	9	11	8	4	3	3	2	..	..
10	9	8	6	9	7	9	5	5	4	5	5	1	..	..	..	3	..	..
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	77	..
..	..	..	..	..	..	..	..	..	1	6	15	35	59	65	76	5	..	..
89	152	309	333	327	321	357	308	231	171	143	107	54	40	26	9	80	17	3
..	16	61	61	67	60	70	85	65	52	36	30	13	10	2	3	4	..	2
7	11	37	45	36	25	20	12	5	6	3	1	..	..	1	..	16	13	..
82	125	211	227	224	236	267	211	161	113	104	76	41	30	23	6	60	4	1
..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
506	884	1,397	1,760	2,127	2,541	2,671	2,673	2,650	2,312	2,326	2,028	1,652	1,083	634	430	1,191	97	9
504	753	1,295	1,492	1,585	1,073	1,686	1,717	1,901	1,774	1,983	1,946	1,773	1,340	879	665	1,112	2	1
1010	1637	2,692	3,252	3,712	4,214	4,357	4,390	4,551	4,086	4,309	3,974	3,425	2,423	1513	1095	2,303	99	10

VITAL STATISTICS.

Deaths of Females by Age, and Cause of Death, City of

Cause of Death.	Total Both Sexes.	All Ages	Under 1 Year.	1	2	3	4	Total Under 5.	5
I. General Diseases.									
1. Typhoid fever.....	..	194	1	2	2	2	1	8	7
2. Typhus fever.....
3. Relapsing fever.....
4. Malarial fever.....	..	14	1	..	..	1	1	3	2
5. Small pox.....	..	3	..	..	..	..	..	..	..
6. Measles.....	..	350	78	139	59	27	20	323	19
7. Scarlet fever.....	..	452	19	55	90	83	38	285	95
8. Whooping cough.....	..	164	82	40	15	14	3	154	9
9. Diphtheria and croup.....	..	793	73	204	136	100	68	581	168
10. Influenza.....	..	211	9	5	4	1	1	20	3
11. Miliary fever.....
12. Asiatic cholera.....
13. Cholera nostras.....
14. Dysentery.....	..	75	10	3	1	1	..	15	..
15. Plague.....
16. Yellow fever.....
17. Leprosy.....
18. Erysipelas.....	..	170	85	4	2	..	..	91	..
19. Other epidemic diseases.....	..	4	1	1	1	..	..	3	..
20. Pyæmia, septicæmia.....	..	41	10	3	1	..	..	14	1
21. Glanders.....
22. Malignant pustule.....	..	1	..	..	..	..	..	..	..
23. Hydrophobia.....	..	1	..	..	..	..	..	..	..
24. Tetanus, trismus.....	..	12	9	..	..	..	..	9	..
25. Mycosis.....
26. Pellagra.....	..	1	..	..	..	..	..	..	..
27. Beri beri.....
28. Tuberculosis of lungs.....	..	3,093	28	15	9	6	5	63	23
29. Acute miliary tuberculosis.....	..	66	2	4	7	3	3	19	2
30. Tuberculous meningitis.....	..	366	79	76	43	39	23	260	54
31. Abdominal tuberculosis.....	..	93	20	5	2	2	1	30	8
32. Pott's disease.....	..	36	3	..	..	5	1	9	9
33. White swelling.....	..	13	..	1	..	..	..	1	5
34. Tuberculosis of other organs.....	..	36	6	1	2	1	..	10	3
35. General tuberculosis.....	..	19	4	2	..	..	..	6	..
36. Rachitis.....	..	32	21	9	..	..	..	30	2
37. Syphilis.....	..	164	105	6	3	..	1	115	1
38a. Soft chancre.....	..	6	1	..	..	..	..	1	..
38b. Gonococcc infection.....	..	15	5	..	..	..	..	5	..
39. Cancers, etc., of the mouth.....	..	21	..	..	..	..	..	..	3
40. Cancer of stomach, liver.....	..	720	..	..	..	..	..	..	..
41. Cancer of intestines, rectum.....	..	317	..	..	..	..	..	..	2
42. Cancer of female genital organs.....	..	553	..	..	..	..	..	..	..
43. Cancer of the breast.....	..	348	..	..	..	..	..	..	..
44. Cancer of the skin.....	..	25	..	1	..	..	..	1	..
45. Cancer of other organs and unspecified.....	..	202	1	3	..	1	1	6	..
46. Other tumors (except of female genital organs)	..	35	3	1	..	..	..	4	1
47. Acute articular rheumatism.....	..	241	1	2	2	5	6	16	42
48. Chronic rheumatism and gout.....	..	96	..	..	..	..	..	..	1
49. Scurvy.....	..	5	3	1	..	1	..	5	..
50. Diabetes.....	..	448	..	..	1	..	..	1	2
51. Exophthalmic goitre.....	..	44	..	..	..	..	..	..	..
52. Addison's disease.....	..	11	..	..	..	..	..	..	..
53. Leukæmia.....	..	29	1	2	..	1	1	5	2
54. Anæmia, chlorosis.....	..	71	2	1	..	..	..	4	3
55. Other general diseases.....	..	27	10	1	..	..	..	11	4
56. Alcoholism, acute and chronic.....	..	126	..	..	..	..	..	..	..
57. Lead poisoning.....
58. Other chronic poisonings of occupation.....
59. Other chronic poisonings.....	..	5	..	..	..	..	..	..	..
II.—Diseases of Nervous System and Organs of Sense.									
60. Encephalitis.....	..	10	..	1	..	..	1	3	..
61. Simple meningitis.....	..	264	75	54	14	20	9	172	29
61a. (Of which) cerebro-spinal meningitis.....	..	135	34	25	7	15	5	86	14
62. Locomotor ataxia.....	..	22	..	..	..	..	..	..	..
63. Other diseases of spinal cord.....	..	91	6	3	1	1	2	13	2
64. Apoplexy, cerebral hæmorrhage.....	..	438	1	..	1	1	..	3	..
65. Softening of brain.....	..	17	..	..	..	1	..	1	..
66. Paralysis unspecified.....	..	94	..	..	..	..	..	..	1
67. General paresis.....	..	64	..	..	..	..	..	..	..
68. Other forms of insanity.....	..	27	..	..	..	..	..	..	..
69. Epilepsy.....	..	56	3	1	2	2	1	9	3
70. Convulsions (not puerperal).....	..	5	..	..	..	..	..	..	3

VITAL STATISTICS.

Deaths of Females by Age, and Cause of Death, City of

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	2	3	4	Total Under 5.	5
71. Convulsions of infants.....	..	200	174	18	5	2	I	200
72. Chorea.....	..	6	..	..	I	I	..	2
73a. Hysteria.....	..	4	..	..	..	..	..	I
73b. Neuralgia and neuritis.....	..	II	..	..	..	..	..	..
74. Other nervous diseases.....	..	75	2	8	I	3	2	16
75a. Follicular conjunctivitis.....
75b. Trachoma.....
75c. Other diseases of eye and appendages.....	..	5	I	..	..	..	..	I
76. Diseases of ear.....	..	62	16	6	5	4	I	32
III.—Diseases of Circulatory System.								
77. Pericarditis.....	..	18	..	..	..	..	I	2
78. Acute endocarditis.....	..	620	3	6	5	2	2	18
79. Organic heart diseases.....	..	3,457	II	4	2	2	3	22
80. Angina pectoris.....	..	68	..	..	..	..	..	I
81. Diseases of arteries, aneurism, etc.....	..	917	..	..	..	..	..	..
82. Embolism, thrombosis.....	..	103	..	I	..	..	..	I
83. Diseases of veins (hæmorrhoids, varices, phlebitis, etc.).....	..	21	..	..	..	..	..	..
84. Diseases of lymphatics (lymphangitis, etc.).....	..	II	5	2	..	I	..	8
85. Hæmorrhage.....	..	16	II	..	..	..	..	II
IV.—Diseases of Respiratory System.								
86. Diseases of nasal fossæ.....
87. Diseases of the larynx.....	..	15	5	I	I	..	2	9
88. Diseases of thyroid gland.....	..	8	2	..	..	..	..	2
89. Acute bronchitis.....	..	481	259	53	19	9	2	342
90. Chronic bronchitis.....	..	192	6	7	..	2	..	15
91. Broncho-pneumonia.....	..	2,418	906	527	162	62	33	1,690
92. Lobar pneumonia.....	..	2,399	234	199	101	33	24	591
93. Pleurisy.....	..	103	29	35	II	4	5	84
94. Congestion of lungs, pulmonary apoplexy.....	..	41	12	I	..	..	..	I3
95. Gangrene of lung.....	..	5	..	..	..	..	..	..
96. Asthma.....	..	68	..	..	..	..	..	..
97. Pulmonary emphysema.....	..	29	..	..	..	..	..	..
98. Other diseases of respiratory system (tuberculosis excepted).....	..	35	..	4	2	..	..	6
V.—Diseases of Digestive System.								
99a. Diseases of teeth and gums.....	..	3	..	..	..	..	..	..
99b. Other diseases of mouth.....	..	6	2	I	I	..	..	4
100. Angina and other diseases of pharynx.....	..	19	5	3	I	I	..	10
101. Diseases of Œsophagus.....	..	6	I	I	..	I	..	3
102. Ulcer of the stomach.....	..	88	..	..	I	..	..	I
103. Other diseases of stomach (cancer excepted).....	..	151	37	10	I	3	I	52
104. Diarrhœa and enteritis (under two years).....	..	2,683	2,294	389	..	..	..	2,683
105. Diarrhœa and enteritis (two years and over)..... (of which due to alcoholism).....	..	380	..	..	87	33	6	126
106. Ankylostomiasis.....
107. Intestinal parasites.....	..	3	I	I	..	..	..	2
108. Appendicitis and typhlitis.....	..	276	2	I	2	2	2	9
109. Hernia, intestinal obstruction.....	..	292	23	2	..	2	I	28
110a. Diseases of anus and stercoral fistulæ.....	..	II	I	I	..	..	..	2
110b. Other diseases of intestines.....	..	16	3	..	..	..	..	3
111. Acute yellow atrophy of liver.....	..	15	..	..	I	I	..	2
112. Hydatid tumor of liver.....	..	2	..	..	..	..	..	..
113. Cirrhosis of liver.....	..	436	I	..	..	..	..	I
114. Biliary calculi.....	..	53	..	..	..	..	..	..
115. Other diseases of liver.....	..	80	7	I	..	I	I	10
116. Diseases of spleen.....	..	4	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal).....	..	27	3	..	..	..	..	3
118. Other diseases of digestive system (except tuberculosis and cancer).....	..	16	..	..	..	..	I	I
VI.—Diseases of Genito-urinary System.								
119. Acute nephritis.....	..	382	18	9	9	13	8	57
120. Bright's disease.....	..	2,357	4	2	2	2	..	10
121. Chyluria.....	..	I	..	..	..	..	..	..
122. Other diseases of the kidneys and appendages.....	..	51	4	..	2	I	I	8
123. Calculi of the urinary tract.....	..	10	..	..	..	..	..	..
124. Diseases of bladder.....	..	19	..	I	..	..	..	I
125. Diseases of urethra, urinary abscess, etc.....	..	I	..	..	..	..	..	..
126. Diseases of the prostate.....
127. Non-venereal diseases of male genital organs.....
128. Uterine hæmorrhage (not puerperal).....	..	4	..	..	..	..	..	..
129. Uterine tumor (not cancer).....	..	116	..	..	..	..	..	..

VITAL STATISTICS.

New York, for the Year Ending December 31, 1910—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and over.	Colored.	Chinese.	Japanese.
..
..	I	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	8	..
..	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	I	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	6	5	3	5	5	5	2	9	5	I	2	I	I	..	..	..	..	..
..
..
..	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..	..	I	..
6	..	2	5	..	I	I	5	I	..	..	I	I	..	..	..	..	2	..
25	..	I	I	I	2	I	I	2	I	I	I	..	I	..	..	..	..	..
87	19	17	29	31	28	33	35	55	49	65	57	57	42	25	13	18	..	..
..	53	94	89	146	173	201	247	295	305	407	396	387	239	152	109	85	..	..
..	..	..	..	I	..	7	2	6	7	12	11	8	6	4	2	..	..	..
..	..	..	..	6	10	21	30	47	64	93	108	177	161	114	84	..	..	..
..	..	..	..	3	6	8	8	13	13	12	9	5	12	4	6	16	..	..
..	..	..	2	I	2	2	5	I	2	..	2	I	3	..	..	I	..	..
I	I	..	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	I	..	..	2	..	..	..	I	..	..	..	..	..	I	I	..	..
..
..	I	..	..	..	..	..	..	I	..	..	..	..	..	..	..	..	..	..
I	..	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	I	..	2	I	I	I	2	4	8	12	13	22	15	28	22	15	..	..
..	3	7	6	11	2	4	8	12	8	12	22	25	17	19	20	8	..	..
13	17	21	8	22	20	20	34	42	60	75	91	96	58	60	48	72	..	..
30	52	56	I	109	107	118	121	131	155	169	175	166	147	106	64	83	..	..
4	2	8	4	2	4	5	7	6	6	7	9	6	2	1	4	6	..	..
..	I	I	..	..	..	..	..	..	I	2	6	4	4	4	5	..	..	..
..	..	..	..	..	I	2	I	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	4	2	2	8	6	17	7	10	5	4	I	..	..
..	..	..	..	..	I	I	I	3	3	3	5	5	5	2	..	..	..	..
..	..	4	I	2	6	2	I	2	3	6	2	..	..	..	..	..	..	..
I	..	..	I	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..
..	I	..	I	..	..	I	2	I	..	..	..	..	..	..	..	..	I	..
..	..	I	..	..	..	..	..	..	..	..	..	..	I	..	..	..	..	..
..	I	4	7	8	8	6	7	8	5	7	3	7	3	I	..	I	..	..
I	3	2	3	6	10	4	6	10	6	10	10	13	12	4	I	..	..	..
..
..	..	6	11	14	7	6	15	21	19	20	26	27	20	16	17	74	..	..
..
..
..	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35	28	24	26	25	24	17	14	16	14	8	4	3	4	I	..	9	..	..
3	I	3	11	12	16	25	20	34	21	24	30	16	20	9	6	12	..	..
I	..	..	..	3	3	2	2	..	2	..	I	I	..	I	I	..	..	..
..	..	4	2	I	..	..	..	..	..	..	..	..	..	..	..	..	I	..
..	..	..	..	..	..	I	..	..	..	..	2	2	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	I	I	..	..	..	..	..	..
..	I	3	16	29	41	44	63	60	37	52	41	26	12	8	I	12	..	..
..	..	..	5	2	3	5	10	6	8	7	3	3	..	I	..	..	..	..
..	..	3	2	4	5	8	8	13	5	4	6	8	3	..	..	I	..	..
..
..	..	I	2	4	5	4	2	3	2	..	..	..	..	I	..	..	..	..
..
..	I	I	3	I	..	3	2	I	2	..	..	..	..	..	..	..	..	..
10	7	24	30	28	31	38	24	18	21	25	18	19	5	5	4	18	I	..
10	15	42	78	106	127	174	189	255	249	263	252	245	182	101	53	74	..	..
..
..	3	3	7	6	5	3	I	3	3	..	..	..	..	..	..	..	..	..
..	..	..	..	..	I	I	I	I	I	3	I	..	..	..	..	..	..	..
..	..	..	I	I	I	..	..	2	..	..	2	2	I	..	..	..	..	..
..
..
..
..
..	..	I	2	..	..	I	..	..	..	..	..	..	..	..	..	..	..	..
..	..	I	2	12	19	29	30	12	4	2	3	I	I	..	..	13	..	..

VITAL STATISTICS.

Deaths of Females by Age, and Cause of Death, City of

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5	
130a. Metritis.....	..	10	..	..	..	..	..	..	..
130b. Other diseases of uterus.....	..	43	..	..	..	..	..	..	..
131. Ovarian cysts and tumors.....	..	39	..	..	..	..	..	..	..
132. Salpingitis and other diseases of female genital organs.....	..	137	..	..	..	..	..	..	..
133. Diseases of breast (not puerperal nor cancer).....	..	1	..	..	..	..	..	..	1
VII.—Puerperal Diseases										
134. Accidents of pregnancy.....	..	182	..	..	..	..	..	..	..
135. Puerperal hæmorrhage.....	..	70	..	..	..	..	..	..	..
136. Other accidents of labor.....	..	78	..	..	..	..	..	..	..
137. Puerperal septicæmia.....	..	255	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions.....	..	138	..	..	..	..	..	..	..
139a. Puerperal phlegmasia alba dolens.....	..	10	..	..	..	..	..	..	..
139b. Puerperal embolism and sudden death.....	..	15	..	..	..	..	..	..	..
140a. Sequel of delivery.....	..	12	..	..	..	..	..	..	..
140b. Puerperal insanity.....	..	1	..	..	..	..	..	..	..
141. Puerperal diseases of breast.....	
VIII.—Diseases of Skin and Cellular Tissue										
142. Gangrene.....	..	38	1	1	..	1	..	3	..	
143. Carbuncle.....	..	28	3	1	..	..	..	4	..
144. Phlegmon, acute abscess.....	..	28	11	2	2	..	..	15	1
145. Other diseases of skin and adnexa.....	..	24	10	2	..	..	..	12	..
IX.—Diseases of Locomotory System										
146. Diseases of bones (non-tuberculous).....	..	72	17	9	2	..	1	29	6	
147. Arthritis, other diseases of joints (except tuberculosis and rheumatism).....	..	4	2	..	..	..	..	2	1
148. Amputation.....	
149. Other diseases of organs of locomotion.....	
X.—Malformations										
150. Congenital malformations.....	..	275	263	5	4	1	..	273	1	
XI.—Diseases of Infancy										
151. Congenital debility, icterus and selerema.....	..	1,600	1,594	4	2	..	..	1,600	..
152. Other diseases peculiar to infancy, of which.....	..	241	241	..	..	..	..	241	..
152a. Injury during birth.....	..	137	137	..	..	..	..	137	..
153. Neglect.....	..	1	1	..	..	..	..	1	..
XII.—Diseases of Old Age										
154. Senile debility.....	..	426	..	..	..	..	..	..	..
XIII.—External Causes										
155. Suicide by poison.....	..	35	..	..	..	..	..	..	..
156. Suicide by asphyxia.....	..	92	..	..	..	..	..	..	..
157. Suicide by hanging or strangulation.....	..	22	..	..	..	..	..	..	..
158. Suicide by submersion.....	..	3	..	..	..	..	..	..	..
159. Suicide by firearms.....	..	13	..	..	..	..	..	..	..
160. Suicide by cutting instruments.....	..	3	..	..	..	..	..	..	..
161. Suicide by precipitation from height.....	..	24	..	..	..	..	..	..	..
162. Suicide by crushing.....	..	2	..	..	..	..	..	..	..
163. Suicide by other methods.....	..	7	..	..	..	..	..	..	..
164. Poisoning by food.....	..	2	..	1	..	1	..	2	..	
165a. Bites of venomous animals.....	..	20	3	2	..	1	..	6	1	
165b. Other acute poisonings.....	..	24	..	..	..	..	..	..	..
166. Conflagrations.....	..	24	..	..	..	1	3	4	4
167. Burns and scalds.....	..	213	2	18	22	25	13	80	42	
168. Absorption of deleterious gases.....	..	81	..	1	1	..	1	3	..	
169. Accidental submersion.....	..	31	1	1	1	..	1	4	1	
170. Pistol and gunshot wounds.....	..	4	..	..	..	..	..	..	..
171. Cuts and stabs.....	..	3	..	..	..	..	..	..	..
172. Deaths by falls.....	..	244	8	9	10	9	9	45	19	
173. Deaths in mines and quarries.....	
174. Deaths by machinery.....	..	1	..	..	..	..	..	..	..
175. Deaths by other crushing agencies, wagons, etc.....	..	115	1	6	7	9	7	30	16	
176. Deaths from injuries inflicted by animals (not snakebites, hydrophobia or stings).....	..	4	..	1	..	..	..	1	1
177a. Physical exhaustion.....	..	2	1	..	..	..	..	1	..
177b. Hunger and thirst.....	..	3	1	..	..	..	..	1	..
178. Excessive cold.....	..	59	13	3	..	1	..	17	..	
179. Sunstroke.....	
180. Lightning.....	
181. Other electrical accidents.....	

VITAL STATISTICS.

New York, for the Year Ending December 31, 1910—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and over.	Colored.	Chinese.	Japanese.
..	..	1	4	1	1	2	1	..	..	..	..	..	..	..	..	..	..	..
..	1	1	4	5	8	3	6	5	5	3	1	1	..	..	..	2	..	..
..	1	5	2	5	4	7	5	5	..	2	2	..	..	..	..	..	..	..
1	4	22	36	21	29	15	6	1	1	..	..	..	..	..	..	6	..	..
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	7	27	54	45	41	7	1	..	..	..	..	..	..	..	..	13	..	..
..	1	7	13	17	25	6	1	..	..	..	..	..	..	..	..	1	..	..
..	2	17	18	21	13	6	..	..	..	..	..	..	..	..	..	..	..	..
..	13	68	64	65	30	14	1	..	..	..	..	..	..	..	..	9	..	..
..	13	32	35	29	21	7	1	..	..	..	..	..	..	..	..	1	..	..
..	1	..	4	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	3	4	4	3	1	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	5	2	3	1	..	..	..	..	..	..	..	..	..	1	..	..
..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..
..	..	1	..	..	1	..	1	..	1	5	3	8	6	4	5	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	..	..
..	..	..	2	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	..	1	..	3	..	1	1	1	1	1	2	1	..	..	1	..	..
6	6	1	2	5	3	2	3	1	4	1	2	..	..	1	..	2	..	..
..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
..
..
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	62	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
..
..	..	..	..	..	..	..	..	2	3	12	22	56	94	99	138	9	..	..
..	2	9	8	4	4	2	3	1	1	..	1	..	..	..	..	..	..	..
..	3	11	11	10	9	6	12	11	3	4	3	2	6	..	1	2	..	..
..	..	3	3	2	4	1	3	3	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	1	4	3	1	1	1	..	1	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..
..	5	3	6	1	3	3	1	..	..	1	1	..	..	..	..	..	..	..
..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	1	1	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..
1	..	2	2	3	1	2	1	..	1	..	..	..	..	..	..	..	..	..
1	1	8	5	3	3	3	3	1	2	1	1	1	..	..	..	3	..	..
1	9	6	5	5	8	5	8	8	5	6	8	10	3	1	1	..	..	..
1	6	6	9	5	5	8	7	12	3	4	5	6	2	4	..	1	..	..
..	1	..	..	3	5	3	1	5	4	1	..	1	..	..	1	..	..	..
..
..	9	5	7	6	1	10	9	14	14	17	15	24	23	8	7	4	..	..
..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	8	4	7	4	5	1	7	8	4	10	3	3	1	1	1	..	..	..
..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
..	2	..	3	1	6	..	3	1	4	5	5	2	7	3	..	2	..	..
..

VITAL STATISTICS.

Deaths of Females by Age, and Cause of Death, City of

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5
182. Homicides by firearms.....	..	27	..	..	..	I	I	2	..
183. Homicides by cutting or piercing instruments	9	I	..	..	..	..	I	..
184. Homicides by other means.....	..	22	9	..	I	..	..	10	..
185. Dislocation and fractures.....	..	22	2	..	I	..	..	3	..
186a. Criminal abortion.....	..	37	..	..	..	..	..	..	..
186b. Foreign body in larynx.....	..	5	I	..	..	I	..	2	..
186c. Other external violences.....	..	18	8	I	I	..	..	10	..
XIV.—Ill-defined or Not Specified Causes.									
187. Organic-lesions not defined.....	..	I	I	..	..	..	..	I	..
188. Sudden death.....	..	I	..	..	..	..	..	..	..
189. Ill defined or disease not specified.....	..	344	314	22	2	2	..	340	..
<hr/>									
I.—General diseases.....	..	9,749	674	587	380	293	174	2,108	471
a. Tuberculous diseases.....	..	3,722	142	104	63	56	33	398	104
b. Cancer.....	..	2,186	I	4	..	I	I	7	5
II.—Diseases of nervous system and organs of sense.....	..	1,451	278	91	30	36	17	452	51
III.—Diseases of circulatory system.....	..	5,231	30	13	7	5	6	61	80
IV.—Diseases of respiratory system.....	..	5,854	1,453	827	296	110	66	2,752	119
V.—Diseases of digestive system.....	..	4,507	2,380	410	94	44	12	2,940	54
VI.—Diseases of genito-urinary system.....	..	3,171	26	12	13	16	9	76	27
VII.—Puerperal diseases.....	..	761	..	..	..	..	..	..	..
VIII.—Diseases of skin and cellular tissue.....	..	97	25	6	2	I	..	34	I
IX.—Diseases of locomotory system.....	..	76	19	9	2	..	I	31	7
X.—Malformations.....	..	275	203	5	4	I	..	273	I
XI.—Diseases of infancy.....	..	1,842	1,836	4	2	..	..	1,842	..
XII.—Diseases of old age.....	..	426	..	..	..	..	..	..	..
XIII.—External causes.....	..	1,147	51	43	44	49	35	222	84
a. Suicide.....	..	194	..	..	..	..	..	..	..
b. Homicide.....	..	58	10	..	..	2	I	13	..
c. Accident.....	..	895	41	43	44	47	34	209	84
XIV.—Causes ill-defined.....	..	346	315	22	2	2	..	341	..
<hr/>									
Total females.....	..	34,993	7,350	2,029	876	557	320	11,132	895

VITAL STATISTICS.

New York, for the Year Ending December 31, 1910—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and over.	Colored.	Chinese.	Japanese.
I	3	5	I	2	3	4	I	2	I	..	2	..	..	..	..	..	..	..
..	..	3	2	I	I	..	I	..	..	..	..	..	..	..	..	..	..	..
I	I	3	I	2	I	..	..	I	..	..	I	I	..	..	..	3	..	..
I	..	..	..	..	..	..	..	3	..	3	3	3	I	2	2	..	..	..
..	I	13	II	8	3	I	..	..	..	..	..	..	..	..	..	2	..	..
I	I	..	..	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	2	I	..	2	2	..	..	I	..	..	..	..	..	..	..	..
..
..	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	I	..	I	..	2	..	..	..	..	..	..	..	..	..	I7	..	..
213	416	646	671	651	677	693	625	585	516	470	409	260	205	95	38	364	I	I
99	306	514	520	461	400	328	209	134	80	62	55	26	21	3	2	234	I	..
3	8	9	39	80	130	235	286	303	273	275	228	130	110	46	19	47	..	..
24	22	26	33	41	46	70	76	111	89	116	133	71	40	29	21	60	..	..
15	73	117	125	190	223	271	328	419	442	590	584	635	464	290	215	122	..	..
50	77	99	130	146	155	160	187	227	269	298	331	311	217	183	143	185	..	..
50	43	60	88	114	125	120	160	177	117	134	131	105	78	41	30	121	..	..
21	31	102	166	187	227	273	266	302	286	298	280	270	190	108	61	115	I	..
..	37	155	198	186	138	42	4	..	..	I	..	..	..	..	..	26	..	..
..	I	..	3	I	4	..	4	5	5	6	5	..	7	5	5	I	..	..
6	6	I	2	5	3	2	3	2	4	I	2	..	..	I	..	2	..	..
..
..
..
..
25	47	86	76	63	75	53	64	71	43	58	48	54	45	19	14	18	..	..
..	12	30	31	17	24	15	20	16	4	8	5	2	8	..	2	2	..	..
2	4	11	4	5	5	4	2	3	I	..	3	I	..	..	..	4	..	..
23	31	45	41	41	46	34	42	52	38	50	40	51	37	19	12	12	..	..
..	..	2	..	I	2	..	..	..	..	..	..	..	..	..	..	I7	..	..
504	753	1,295	1,492	1,585	1,673	1,686	1,717	1,901	1,774	1,983	1,946	1,773	1,340	879	665	1,112	2	I

VITAL STATISTICS.

Deaths of Males by Age, and Cause of Death, City of New

Cause of Death.	Total Both Sexes.	All Aged.	Under 1 Year.	1	2	3	4	Total Under 5.	5
I.—General Diseases.									
1. Typhoid fever.....	545	330	2	1	3	2	1	9	11
2. Typhus fever.....	..	..	..	..	..	..	..	..	..
3. Relapsing fever.....	..	..	..	..	..	..	..	..	..
4. Malarial fever.....	38	24	..	3	..	..	..	3	2
5. Smallpox.....	3	3	1	..	..	..	..	1	..
6. Measles.....	659	354	80	153	55	24	17	329	20
7. Scarlet fever.....	741	367	16	44	70	48	47	225	97
8. Whooping Cough.....	384	171	99	47	13	4	3	166	5
9. Diphtheria and croup.....	1,281	668	80	194	117	94	42	527	95
10. Influenza.....	486	215	20	6	5	3	2	36	4
11. Miliary fever.....	..	..	..	..	..	..	..	..	..
12. Asiatic cholera.....	..	..	..	..	..	..	..	..	..
13. Cholera nostras.....	..	..	..	..	..	..	..	..	..
14. Dysentery.....	75	28	9	2	..	..	..	11	2
15. Plague.....	..	..	..	..	..	..	..	..	..
16. Yellow fever.....	..	..	..	..	..	..	..	..	..
17. Leprosy.....	..	..	..	..	..	..	..	..	..
18. Erysipelas.....	374	216	70	1	3	1	..	75	3
19. Other epidemic diseases.....	98	51	9	10	7	4	4	34	6
20. Pyæmia, septicæmia.....	120	71	8	3	1	1	1	14	..
21. Glanders.....	3	3	..	..	..	..	..	..	..
22. Malignant pustule.....	2	1	..	..	..	..	..	..	..
23. Hydrophobia.....	11	8	..	..	..	..	1	1	2
24. Tetanus, trismus.....	37	25	6	1	1	..	..	8	3
25. Mycoses.....	2	1	..	..	..	..	..	..	..
26. Pellagra.....	1	1	..	..	..	..	..	..	..
27. Beri beri.....	1	1	..	..	..	..	..	..	..
28. Tuberculosis of lungs.....	8,790	5,745	29	26	18	10	6	89	15
29. Acute miliary tuberculosis.....	188	122	16	8	1	1	..	26	5
30. Tuberculous meningitis.....	870	454	101	100	53	34	22	310	58
31. Abdominal tuberculosis.....	161	81	13	6	11	4	..	34	9
32. Pott's disease.....	71	45	1	1	1	3	2	8	9
33. White swelling.....	35	25	..	..	1	..	..	1	4
34. Tuberculosis of other organs.....	94	52	8	..	5	..	..	13	2
35. General tuberculosis.....	41	24	1	2	..	1	1	5	3
36. Rachitis.....	50	28	17	6	2	2	1	28	..
37. Syphilis.....	403	228	118	3	3	..	..	124	1
38a. Soft chancre.....	5	4	2	..	..	..	..	2	..
38b. Gonococcal infection.....	16	4	1	..	..	..	..	1	..
39. Cancers, etc., of the mouth.....	131	109	..	..	..	..	..	..	..
40. Cancer of stomach, liver.....	1,543	791	..	1	..	..	..	1	..
41. Cancer of intestines, rectum.....	544	257	..	..	..	..	..	..	..
42. Cancer of female genital organs.....	551	..	..	..	..	..	..	..	..
43. Cancer of the breast.....	369	8	..	..	..	..	..	..	..
44. Cancer of the skin.....	56	34	1	..	..	..	..	1	..
45. Cancer of other organs and unspecified.....	679	403	..	1	1	..	..	2	2
46. Other tumors (except of female genital organs).....	76	45	5	..	2	1	..	8	..
47. Acute articular rheumatism.....	444	186	..	1	3	3	3	10	29
48. Chronic rheumatism and gout.....	190	88	..	..	..	1	..	1	4
49. Scurvy.....	10	5	4	..	..	..	..	4	..
50. Diabetes.....	739	316	1	..	..	..	..	1	1
51. Exophthalmic goitre.....	59	7	3	..	..	..	..	3	..
52. Addison's disease.....	22	9	..	..	..	..	..	..	..
53. Leukæmia.....	102	59	..	3	..	..	1	4	2
54. Anæmia, chlorosis.....	137	54	6	3	..	1	..	10	1
55. Other general diseases.....	120	59	34	3	..	2	1	40	3
56. Alcoholism, acute and chronic.....	636	531	..	..	..	..	..	..	1
57. Lead poisoning.....	16	15	..	..	..	..	..	..	..
58. Other chronic poisonings of occupation.....	3	3	..	..	..	..	..	..	..
59. Other chronic poisonings.....	14	7	..	..	..	..	..	..	..
II.—Diseases of Nervous System and Organs of Sense.									
60. Encephalitis.....	47	28	3	2	..	..	..	5	2
61. Simple meningitis (of which).....	556	327	94	59	14	15	5	187	35
61a. Cerebro-spinal meningitis.....	203	125	34	23	4	9	2	72	18
62. Locomotor ataxia.....	120	89	..	..	..	..	..	..	..
63. Other diseases of spinal cord.....	178	95	2	2	1	1	..	6	1
64. Apoplexy, cerebral hæmorrhage.....	919	457	1	..	..	..	..	1	1
65. Softening of brain.....	41	22	..	..	..	..	..	..	..
66. Paralysis, unspecified.....	139	74	..	2	..	..	..	2	1
67. General paresis.....	190	136	..	..	..	..	..	..	1
68. Other forms of insanity.....	71	31	..	..	..	..	..	..	1
69. Epilepsy.....	134	67	1	..	2	..	..	3	2
70. Convulsions (not puerperal).....	4	2	..	..	..	..	..	..	..

VITAL STATISTICS.

Deaths of Males by Age, and Cause of Death, City of New

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5
71. Convulsions of infants.....	433	252	211	29	8	2	1	251	1
72. Chorea.....	10	4	..	..	..	..	..	..	..
73a. Hysteria.....	5	1	..	..	..	..	..	..	..
73b. Neuralgia and neuritis.....	29	8	..	..	..	..	..	..	..
74. Other nervous diseases.....	151	91	8	9	3	1	1	22	9
75a. Follicular conjunctivitis.....	1	1	..	..	..	..	..	..	..
75 b Trachoma.....	..	..	..	..	..	..	..	..	..
75c. Other diseases of eye and appendages.....	1	..	..	..	..	..	..	..	..
76. Diseases of ear.....	246	139	29	8	6	3	4	50	10
III.—Diseases of Circulatory System.									
77. Pericarditis.....	38	19	..	..	..	..	..	..	1
78. Acute endocarditis.....	997	491	3	4	2	3	1	13	12
79. Organic heart diseases.....	7,965	3,911	12	6	5	6	5	34	50
80. Angina pectoris.....	253	162	..	..	..	..	..	..	..
81. Diseases of arteritis, aneurism, etc.....	2,135	1,046	..	..	..	..	..	..	1
82. Embolism, thrombosis.....	158	78	2	..	..	..	..	2	..
83. Diseases of veins (hæmorrhoids, varices, phlebitis, etc.).....	25	11	..	..	..	..	..	..	..
84. Diseases of lymphatics (lymphangitis, etc.)....	38	25	14	3	2	1	..	20	2
85. Hæmorrhage.....	2	2	1	..	..	..	..	1	..
IV.—Diseases of Respiratory System.									
86. Diseases of nasal fossæ.....	6	4	1	..	..	..	..	1	..
87. Diseases of the larynx.....	31	19	5	2	2	1	1	11	..
88. Diseases of thyroid gland.....	5	1	..	..	..	..	..	..	..
89. Acute bronchitis.....	877	436	297	56	10	7	2	372	5
90. Chronic bronchitis.....	297	151	3	..	..	2	..	5	..
91. Broncho-pneumonia.....	4,802	2,448	1,137	550	150	58	35	1,930	47
92. Lobar pneumonia.....	5,253	3,039	283	220	77	44	27	651	57
93. Pleurisy.....	366	201	23	33	16	7	2	81	5
94. Congestion of lungs, pulmonary apoplexy.....	53	28	7	..	..	..	..	7	..
95. Gangrene of lung.....	12	5	..	..	..	..	..	..	..
96. Asthma.....	138	68	1	..	..	..	1	2	1
97. Pulmonary emphysema.....	45	26	1	1	..	..	..	2	..
98. Other diseases of respiratory system (tuberculosis excepted).....	79	42	1	..	2	..	..	3	..
V.—Diseases of Digestive System.									
99a. Diseases of teeth and gums.....	13	6	2	2	..	..	..	4	..
99b. Other diseases of mouth.....	7	4	..	1	..	..	..	1	1
100. Angina and other diseases of pharynx.....	82	46	17	3	..	2	1	23	3
101. Diseases of Esophagus.....	8	7	1	..	..	..	..	1	2
102. Ulcer of the stomach.....	198	127	1	..	..	..	..	..	..
103. Other diseases of stomach (cancer excepted).....	281	148	57	7	4	1	..	69	7
104. Diarrhœa and enteritis (under two years).....	4,473	2,456	2,122	334	..	..	..	2,456	..
105. Diarrhœa and enteritis (two years and over).....	624	309	..	..	78	29	18	125	15
(Of which) due to alcoholism.....	..	..	..	..	..	..	..	..	..
106. Ankylostomiasis.....	2	1	..	..	..	..	..	..	..
107. Intestinal parasites.....	4	3	..	..	..	..	1	1	..
108. Appendicitis and typhlitis.....	633	369	..	2	3	1	9	15	30
109. Hernia, intestinal obstruction.....	544	248	47	1	2	1	..	51	6
110a. Diseases of anus and stercoral fistulæ.....	26	16	..	..	..	..	..	..	1
110b. Other diseases of intestines.....	53	29	9	..	..	..	..	9	..
111. Acute yellow atrophy of liver.....	12	5	2	..	1	..	..	3	..
112. Hydatid tumor of liver.....	6	5	..	..	..	..	1	1	..
113. Cirrhosis of liver.....	1,188	772	1	..	..	1	..	2	..
114. Biliary calculi.....	120	31	..	..	..	..	..	..	..
115. Other diseases of liver.....	172	81	6	..	..	..	..	6	..
116. Diseases of spleen.....	7	6	..	1	..	..	1	2	..
117. Simple peritonitis (non-puerperal).....	49	22	2	..	..	1	..	3	5
118. Other diseases of digestive system (except tuberculosis and cancer).....	31	21	..	1	..	..	..	1	..
VI.—Diseases of Genito-Urinary System									
119. Acute nephritis.....	541	274	21	8	3	5	6	43	14
120. Bright's disease.....	4,666	2,486	6	2	2	..	2	12	9
121. Chyluria.....	1	..	..	..	..	..	..	..	..
122. Other diseases of the kidneys and appendages.....	98	54	4	..	1	..	..	5	..
123. Calculi of the urinary tract.....	33	25	..	..	..	..	..	..	..
124. Diseases of bladder.....	46	32	1	..	2	..	..	3	..
125. Diseases of urethra, urinary abscess, etc.....	23	22	..	..	..	..	..	..	..
126. Diseases of the prostate.....	98	97	..	..	..	..	..	..	..
127. Non-venereal diseases of male genital organs.....	4	4	..	..	..	..	..	..	..
128. Uterine hæmorrhage (not puerperal).....	3	..	..	..	..	..	..	..	..
129. Uterine tumor (not cancer).....	105	..	..	..	..	..	..	..	..

VITAL STATISTICS.

York, for the Year Ending December 31, 1911—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and over.	Colored.	Chinese.	Japanese.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	..	..
I	I	..	..	..	..	I	..	..	I	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	I	..	..	..	..	..	..	..
I	5	6	2	9	1	8	10	3	4	2	I	I	..	..	..	3	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	I	..	..	..	..	..
..
9	5	10	6	6	8	7	6	11	3	I	2	2	3	..	..	3	..	..
..	3	..	4	2	..	2	I	4	I	..	I	..	..	..	..	..	..	..
16	16	11	19	24	31	45	47	48	67	40	23	33	19	17	10	15	2	..
52	92	86	98	136	196	254	316	403	393	501	472	341	263	140	84	108	4	..
..	..	..	I	2	3	9	16	32	23	24	25	16	8	I	I	I	..	..
..	I	4	3	12	25	25	67	82	85	135	139	170	136	98	63	20	2	..
..	..	..	4	6	9	5	4	9	7	7	9	7	4	5	..	I	..	..
..	..	..	..	..	..	3	5	I	I	..	..	..	I	..	..	..	..	..
..	..	..	..	..	..	..	I	..	..	I	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	I	..	..	..	..	..	..
..	..	I	..	..	..	..	I	..	..	..	..	..	..	..	..	..	..	..
..	..	..	I	I	I	..	2	I	..	2	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	I	..	..	..	..	..	..	..	..
..	I	..	..	..	..	3	2	3	4	2	8	6	12	7	11	13	..	..
..	..	I	..	3	5	4	12	12	20	17	14	17	15	14	11	2	..	..
8	7	8	14	18	23	27	28	35	37	55	57	56	45	34	19	101	..	I
32	66	78	133	217	238	268	238	236	188	197	166	125	67	57	25	113	14	..
..	5	13	10	5	12	11	12	19	4	11	2	3	2	3	I	3	..	..
..	..	I	2	..	3	I	I	..	I	I	3	3	I	4	..	4	..	..
..
..	..	..	I	..	I	4	I	10	9	8	12	7	5	4	I	..	..	..
..	..	..	..	I	I	..	3	2	4	6	2	3	2	..	..	..	..	..
..	..	..	3	5	3	6	4	5	5	3	3	I	..	I	..	I	..	..
..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	I	..	..
..	..	..	..	..	..	..	..	I	..	I	..	..	..	..	..	..	..	..
I	3	2	2	4	2	I	2	I	2	..	..	..	..	..	..	..	..	..
..
..	2	5	11	15	15	18	13	10	13	8	6	4	2	2	2	..	I	..
I	..	..	3	4	7	4	8	6	10	9	8	6	2	2	2	3	..	I
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	71	I	..
I	2	6	6	9	16	7	15	13	10	14	21	18	15	8	8	8	..	..
..
..
..
27	46	39	37	34	31	31	23	13	18	10	7	2	4	2	..	5	..	..
3	4	10	8	6	9	19	27	19	18	21	17	9	13	5	3	5	..	..
..	..	I	3	2	I	2	..	..	3	I	..	I	I	..	..	I	..	..
I	I	..	3	I	..	..	2	2	3	I	2	I	..	..	..	2	..	..
..	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..
..	5	3	17	42	64	91	131	116	98	88	61	36	11	7	..	7	I	..
..	..	..	I	3	2	..	2	5	5	3	I	I	4	I	..	I	..	..
2	2	5	3	2	6	4	12	3	10	4	6	9	4	2	I	..	..	..
..	..	..	I	..	I	..	I	I	..	..	..	..	..	..	..	..	..	..
..	I	I	2	2	2	I	I	..	I	..	I	..	2	..	..	..	..	..
..
..	..	..	I	2	2	7	2	3	..	2	..	I	..	..	..	..	..	..
3	3	16	18	22	24	28	22	18	14	13	12	9	9	4	2	7	I	..
16	14	41	73	87	152	206	242	274	268	291	282	241	141	82	55	59	3	..
..
..	..	..	6	..	2	2	7	2	4	5	3	7	..	5	2	I	..	..
..	..	..	..	..	3	..	5	3	2	3	I	2	3	..	..	I	..	..
I	I	..	..	I	..	1	..	I	2	4	4	3	5	2	4	..	..	..
..	..	I	2	I	I	3	I	..	2	4	3	I	I	I	4	4	..	..
..	..	..	I	I	..	2	I	4	4	17	23	18	15	8	3	3	..	..
..	..	..	..	..	..	..	..	..	..	..	I	..	..	..	..	I	..	..
..
..

VITAL STATISTICS.

Deaths of Males by Age, and Cause of Death, City of New

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5
130a. Metritis.....	15	..	..	..	..	..	..	..	..
130b. Other diseases of uterus.....	37	..	..	..	..	..	..	..	..
131. Ovarian cysts and tumors.....	44	..	..	..	..	..	..	..	..
132. Salpingitis and other diseases of female genital organs.....	131	..	..	..	..	..	..	..	..
133. Diseases of breast (not puerperal nor cancer).	5	..	..	..	..	..	..	..	..
VII.—Puerperal Diseases									
134. Accidents of pregnancy.....	151	..	..	..	..	..	..	..	..
135. Puerperal hæmorrhage.....	77	..	..	..	..	..	..	..	..
136. Other accidents of labor.....	65	..	..	..	..	..	..	..	..
137. Puerperal septicæmia.....	271	..	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions.....	143	..	..	..	..	..	..	..	..
139a. Puerperal Phlegmasia alba dolens.....	19	..	..	..	..	..	..	..	..
139b. Puerperal embolism and sudden death.....	8	..	..	..	..	..	..	..	..
140a. Sequel of delivery.....	3	..	..	..	..	..	..	..	..
140b. Puerperal insanity.....	..	..	..	..	..	..	..	..	..
141. Puerperal diseases of breast.....	1	..	..	..	..	..	..	..	..
VIII.—Diseases of Skin and Cellular Tissue									
142. Gangrene.....	55	30	3	1	3	..	..	7	..
143. Carbuncle.....	38	26	4	2	..	..	..	6	..
144. Phlegmon, acute abscess.....	107	61	16	2	3	..	..	21	1
145. Other diseases of skin and adnexa.....	37	22	7	3	..	..	..	10	..
IX.—Diseases of Locomotory System									
146. Diseases of bones (non-tuberculous).....	94	58	3	4	2	1	..	10	5
147. Arthritis, other diseases of joints (except tuberculous and rheumatism).....	14	8	1	1	..	..	..	2	..
148. Amputation.....	..	..	..	..	..	..	..	..	..
149. Other diseases of organs of locomotion.....	..	..	..	..	..	..	..	..	..
X.—Malformations									
150. Congenital malformations.....	677	389	356	19	3	2	1	381	5
XI.—Diseases of Infancy									
151. Congenital debility, icterus and sclerema.....	3,132	1,685	1,685	..	..	..	..	1,685	..
152. Other diseases peculiar to infancy (of which).....	978	552	551	..	1	..	..	552	..
152a. Injury during birth.....	311	169	168	..	1	..	..	169	..
153. Neglect.....	3	1	1	..	..	..	..	1	..
XII.—Diseases of Old Age									
154. Senile debility.....	525	176	..	..	..	..	..	..	..
XIII.—External Causes									
155. Suicide by poison.....	132	87	..	..	..	..	..	..	..
156. Suicide by asphyxia.....	256	174	..	..	..	..	..	..	..
157. Suicide by hanging or strangulation.....	75	64	..	..	..	..	..	..	..
158. Suicide by submersion.....	20	13	..	..	..	..	..	..	..
159. Suicide by firearms.....	201	188	..	..	..	..	..	..	..
160. Suicide by cutting instruments.....	51	46	..	..	..	..	..	..	..
161. Suicide by precipitation from height.....	43	27	..	..	..	..	..	..	..
162. Suicide by crushing.....	6	4	..	..	..	..	..	..	..
163. Suicide by other methods.....	4	2	..	..	..	..	..	..	..
164. Poisoning by food.....	9	3	..	..	..	..	..	..	..
165a. Bites of venomous animals.....	3	1	..	..	..	..	..	..	..
165b. Other acute poisonings.....	82	51	6	4	3	1	2	16	..
166. Conflagrations.....	182	40	..	1	1	..	1	3	1
167. Burns and scalds.....	428	178	9	35	29	23	19	115	19
168. Absorption of deleterious gases.....	302	201	1	2	2	1	..	6	..
169. Accidental submersion.....	426	387	4	..	2	1	3	10	23
170. Pistol and gunshot wounds.....	22	18	1	..	..	..	..	1	2
171. Cuts and stabs.....	15	12	1	..	..	1	..	2	..
172. Deaths by falls.....	999	750	8	12	14	22	11	67	42
173. Deaths in mines and quarries.....	1	1	..	..	..	..	..	..	..
174. Deaths by machinery.....	47	42	..	..	1	..	..	1	..
175. Deaths by other crushing agencies, wagons, etc.....	768	651	..	6	8	17	25	56	86
176. Deaths from injuries inflicted by animals (not snakebites, hydrophobia or stings).....	27	25	..	..	..	..	2	2	1
177a. Physical exhaustion.....	2	2	..	..	..	..	..	..	..
177b. Hunger and thirst.....	2	1	1	..	..	..	..	1	..
178. Excessive cold.....	1	1	..	..	..	..	..	..	..
179. Sunstroke.....	561	349	24	7	1	..	..	32	3
180. Lightning.....	1	1	..	..	..	..	..	..	..
181. Other electrical accidents.....	20	20	..	..	..	..	..	..	1

VITAL STATISTICS.

Deaths of Males by Age, and Cause of Death, City of New

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5
182. Homicides by firearms.....	149	123	..	..	1	..	..	1	1
183. Homicides by cutting or piercing instruments.....	55	48	1	..	..	..	..	1	..
184. Homicides by other means.....	77	56	9	1	1	..	1	12	1
185. Dislocation and fractures.....	101	79	..	1	..	..	..	1	6
186a. Criminal abortion.....	31	..	..	..	..	..	..	..	..
186b. Foreign body in larynx.....	33	26	9	1	..	..	1	11	1
186c. Other external violences.....	51	34	10	1	..	1	..	12	1
XIV.—Ill-defined or Not Specified Causes									
187. Organic-lesions not defined.....	..	..	..	..	..	..	..	..	..
188. Sudden death.....	..	..	..	..	..	..	..	..	..
189. Ill-defined or disease not specified.....	583	314	283	23	6	1	..	313	..
I.—General diseases.....									
	22,026	12,336	761	629	376	244	155	2,165	399
a. Tuberculous diseases.....									
	10,250	6,548	169	143	90	53	31	486	105
b. Cancer.....									
	3,873	1,602	1	2	1	..	..	4	2
II.—Diseases of nervous system and organs of sense.....									
	3,275	1,824	349	111	34	22	11	527	64
III.—Diseases of circulatory system.....									
	11,611	5,745	32	13	9	10	6	70	66
IV.—Diseases of respiratory system.....									
	11,964	6,468	1,759	862	257	119	68	3,065	115
V.—Diseases of digestive system.....									
	8,533	4,712	2,266	353	88	36	31	2,774	70
VI.—Diseases of genito-urinary system.....									
	5,850	2,994	32	10	8	5	8	63	23
VII.—Puerperal diseases.....									
	738	..	..	..	..	..	..	..	..
VIII.—Diseases of skin and cellular tissue.....									
	237	139	30	8	6	..	..	44	1
IX.—Diseases of locomotory system.....									
	108	66	4	5	2	1	..	12	5
X.—Malformations.....									
	677	389	356	19	3	2	1	381	5
XI.—Diseases of infancy.....									
	4,113	2,238	2,237	..	1	..	..	2,238	..
XII.—Diseases of old age.....									
	525	176	..	..	..	..	..	..	..
XIII.—External causes.....									
	5,183	3,705	84	71	63	67	65	350	188
a. Suicide.....									
	788	605	..	..	..	..	..	..	..
b. Homicide.....									
	281	227	10	1	2	..	1	14	2
c. Accident.....									
	4,114	2,873	74	70	61	67	64	336	186
XIV.—Causes ill-defined.....									
	583	314	283	23	6	1	..	313	..
Total males.....									
	..	41,106	8,193	2,104	853	507	345	12,002	936
Total females.....									
	..	34,317	6,860	1,774	766	513	327	10,240	823
Total both sexes.....									
	..	75,423	15,053	3,878	1,619	1,020	672	22,242	1,759

VITAL STATISTICS.

York, for the Year Ending December 31, 1911—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and over.	Colored.	Chinese.	Japanese.
3	8	26	29	17	16	9	7	4	1	..	1	..	..	..	..	4	1	..
..	5	8	11	10	7	4	2	..	..	..	..	..	..	..	..	2	1	..
2	2	4	4	6	6	4	3	5	3	2	1	1	..	..	..	3	..	..
1	1	5	6	11	11	9	9	3	4	4	1	1	4	..	2	1	..	..
..
1	2	..	1	..	2	3	1	2	1	..	1	..	..	..	..	..	..	..
1	3	2	5	2	4	2	..	2	..	..	..	..	..	..	..	1	..	..
..
..
..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	16	..	..
182	382	658	869	1,036	1,244	1,149	1,022	916	743	612	428	293	158	53	27	446	38	5
86	259	532	676	817	918	792	648	491	327	198	114	60	28	8	3	347	28	4
4	14	14	20	38	72	95	175	209	263	237	191	151	75	22	16	20	2	..
22	45	52	43	75	94	106	118	126	136	130	120	89	43	23	11	44	2	..
68	112	101	129	182	264	343	457	579	577	708	670	568	431	262	158	145	8	..
42	79	102	165	250	287	325	307	324	274	303	268	221	149	124	68	237	4	1
36	67	73	99	128	159	187	241	193	193	166	133	89	59	29	16	104	5	1
21	18	59	100	118	182	245	278	302	296	337	329	281	174	102	66	76	4	..
..
..	2	8	3	7	6	5	7	16	10	6	10	5	5	4	..	2	..	..
6	9	4	5	3	5	6	3	3	2	1	2	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	72	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..
99	150	253	324	332	404	386	313	271	195	147	126	81	49	25	12	73	8	..
..	14	54	56	74	68	77	66	64	55	27	25	10	10	3	2	8	2	..
5	15	38	44	33	29	17	12	9	4	2	2	1	..	..	..	9	2	..
94	121	161	224	225	307	292	235	198	136	118	99	70	39	22	10	56	4	..
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	..	..
479	865	1,310	1,737	2,131	2,645	2,752	2,746	2,730	2,426	2,415	2,103	1,653	1,103	666	407	1,228	69	7
469	792	1,321	1,418	1,511	1,789	1,709	1,764	1,812	1,852	2,053	2,013	1,821	1,344	951	635	1,142	4	1
948	1657	2,631	3,155	3,642	4,434	4,461	4,510	4,542	4,278	4,468	4,116	3,474	2,447	1,617	1,042	2,370	73	8

VITAL STATISTICS.

Deaths of Females by Age, and Cause of Death, City of

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5
I.—General Diseases.									
1. Typhoid fever.....	..	215	2	2	..	5	3	12	13
2. Typhus fever.....
3. Relapsing fever.....
4. Malarial fever.....	..	14	1	1	..	..	1	3	..
5. Smallpox.....
6. Measles.....	..	305	85	120	47	25	8	285	16
7. Scarlet fever.....	..	374	10	51	63	54	32	210	97
8. Whooping cough.....	..	213	104	54	21	18	11	208	5
9. Diphtheria and croup.....	..	613	74	152	104	83	64	477	101
10. Influenza.....	..	271	7	5	3	2	2	19	1
11. Miliary fever.....
12. Asiatic cholera.....
13. Cholera nostras.....
14. Dysentery.....	..	47	10	2	2	..	..	14	1
15. Plague.....
16. Yellow fever.....
17. Leprosy.....
18. Erysipelas.....	..	158	84	8	3	1	..	96	..
19. Other epidemic diseases.....	..	47	8	14	6	2	2	32	6
20. Pyæmia, septicæmia.....	..	49	13	2	1	..	..	16	3
21. Glanders.....
22. Malignant pustule.....	..	1	..	..	..	..	..	..	..
23. Hydrophobia.....	..	3	..	..	..	2	..	2	..
24. Tetanus, trismus.....	..	12	6	..	..	..	..	6	..
25. Mycoses.....	..	1	..	..	..	..	..	..	..
26. Pellagra.....
27. Beri beri.....
28. Tuberculosis of lungs.....	..	3,045	22	22	15	13	7	79	31
29. Acute miliary tuberculosis.....	..	66	6	5	4	3	..	18	1
30. Tuberculous meningitis.....	..	416	97	107	62	30	20	316	50
31. Abdominal tuberculosis.....	..	80	11	2	1	1	2	17	7
32. Pott's disease.....	..	26	2	2	..	1	..	5	3
33. White swelling.....	..	10	..	..	..	1	..	1	1
34. Tuberculosis of other organs.....	..	42	6	..	2	3	..	11	1
35. General tuberculosis.....	..	17	2	..	1	..	..	3	1
36. Rachitis.....	..	22	11	5	4	1	1	22	..
37. Syphilis.....	..	175	110	5	1	1	..	117	2
38a. Soft chancre.....	..	1	1	..	..	..	..	1	..
38b. Gonococcal infection.....	..	12	2	1	..	..	..	3	..
39. Cancers, etc., of the mouth.....	..	22	..	..	..	..	..	..	..
40. Cancer of stomach, liver.....	..	752	1	..	..	..	1	2	..
41. Cancer of intestines, rectum.....	..	287	..	..	..	..	..	..	..
42. Cancer of female genital organs.....	..	551	..	..	..	..	..	..	..
43. Cancer of the breast.....	..	361	..	..	..	..	..	..	..
44. Cancer of the skin.....	..	22	..	..	..	..	..	..	..
45. Cancer of other organs and unspecified.....	..	276	3	..	1	4	3	11	4
46. Other tumors (except of female genital organs).....	..	31	4	..	..	1	..	5	..
47. Acute articular rheumatism.....	..	258	1	..	4	4	2	11	37
48. Chronic rheumatism and gout.....	..	102	..	..	..	..	..	..	1
49. Scurvy.....	..	5	1	2	..	..	..	3	..
50. Diabetes.....	..	423	1	..	..	..	1	2	..
51. Exophthalmic goitre.....	..	52	..	..	..	..	..	..	1
52. Addison's disease.....	..	13	..	..	..	..	..	..	..
53. Leukæmia.....	..	43	2	..	..	1	..	3	2
54. Anæmia, chlorosis.....	..	83	4	2	..	1	..	7	..
55. Other general diseases.....	..	61	22	2	1	..	2	27	1
56. Alcoholism, acute and chronic.....	..	105	..	..	..	..	..	..	..
57. Lead poisoning.....	..	1	..	..	..	..	..	..	..
58. Other chronic poisonings of occupation.....
59. Other chronic poisonings.....	..	7	..	..	..	..	..	..	..
II.—Diseases of Nervous System and Organs of Sense.									
60. Encephalitis.....	..	19	2	1	..	..	1	4	2
61. Simple meningitis (of which).....	..	229	61	31	28	15	10	145	22
61a. Cerebro-spinal meningitis.....	..	100	21	14	9	6	6	56	15
62. Locomotor ataxia.....	..	31	..	..	..	..	..	..	..
63. Other diseases of spinal cord.....	..	83	1	1	..	2	1	5	2
64. Apoplexy, cerebral hæmorrhage.....	..	462	1	..	..	..	..	1	..
65. Softening of brain.....	..	19	..	..	..	..	..	..	..
66. Paralysis, unspecified.....	..	65	..	2	..	..	..	2	..
67. General paresis.....	..	54	..	..	..	..	..	..	..
68. Other forms of insanity.....	..	40	1	..	..	..	..	1	..
69. Epilepsy.....	..	67	2	2	..	..	..	4	6
70. Convulsions (not puerperal).....	..	2	..	..	..	..	..	..	1

VITAL STATISTICS.

Deaths of Females by Age, and Cause of Death, City of

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5
71. Convulsions of infants.....	181	151	18	8	1	2	..	180	1
72. Chorea.....	6	..	..	..	..	..	..	..	I
73a. Hysteria.....	4	..	..	..	..	..	..	..	..
73b. Neuralgia and neuritis.....	21	..	..	..	..	I	..	I	..
74. Other nervous diseases.....	60	3	4	4	2	2	..	15	4
75a. Follicular conjunctivitis.....	..	..	..	..	..	..	..	..	..
75b. Trachoma.....	..	..	..	..	..	..	..	..	..
75c. Other diseases of eye and appendages.....	I	I	..	..	..	..	..	I	..
76. Diseases of ear.....	107	20	12	7	4	2	..	45	10
III.—Diseases of Circulatory System.									
77. Pericarditis.....	19	I	..	..	..	..	I	2	I
78. Acute endocarditis.....	506	I	4	6	3	5	..	19	23
79. Organic heart diseases.....	4,054	10	I	4	3	II	..	29	74
80. Angina pectoris.....	91	I	..	..	..	..	..	I	..
81. Diseases of arteries, aneurism, etc.....	1,089	I	..	..	..	..	..	I	..
82. Embolism, thrombosis.....	80	I	..	2	..	..	..	3	..
83. Diseases of veins (hæmorrhoids, varices, phlebitis, etc.).....	14	..	..	..	..	..	..	..	..
84. Diseases of lymphatics (lymphangitis, etc.)...	13	9	3	..	..	..	..	12	..
85. Hæmorrhage.....	..	..	..	..	..	..	..	..	..
IV.—Diseases of Respiratory System.									
86. Diseases of nasal fossæ.....	2	..	..	..	..	..	..	..	..
87. Diseases of the larynx.....	12	5	3	..	..	..	..	8	I
88. Diseases of thyroid gland.....	4	..	..	..	..	..	..	..	..
89. Acute bronchitis.....	441	263	42	19	10	4	..	338	5
90. Chronic bronchitis.....	146	I	I	..	..	..	..	3	..
91. Broncho-pneumonia.....	2,354	967	472	122	62	21	..	1,644	59
92. Lobar pneumonia.....	2,214	247	185	66	45	22	..	565	44
93. Pleurisy.....	165	32	31	13	10	5	..	91	9
94. Congestion of lungs, pulmonary apoplexy....	25	2	I	..	I	..	..	4	..
95. Gangrene of lung.....	7	..	..	..	..	..	..	..	..
96. Asthma.....	70	..	..	..	..	..	..	..	..
97. Pulmonary emphysema.....	19	I	..	..	..	..	..	I	I
98. Other diseases of respiratory system (tuberculosis excepted).....	37	..	4	I	..	I	..	6	3
V.—Diseases of Digestive System.									
99a. Diseases of teeth and gums.....	7	I	..	..	..	..	..	I	3
99b. Other diseases of mouth.....	3	II	..	..	..	..	..	2	..
100. Angina and other diseases of pharynx.....	36	I	4	I	I	..	..	17	3
101. Diseases of Oesophagus.....	I	..	..	..	..	..	..	..	..
102. Ulcer of the stomach.....	71	I	..	..	..	..	..	I	..
103. Other diseases of stomach (cancer excepted)...	133	34	4	3	I	I	..	43	I
104. Diarrhoea and enteritis (under two years)....	2,017	1,731	286	..	..	..	..	2,017	..
105. Diarrhoea and enteritis (two years and over), (Of which) due to alcoholism.....	315	..	..	60	26	12	..	98	19
106. Ankylostomiasis.....	I	..	..	..	..	..	..	..	..
107. Intestinal parasites.....	I	..	..	..	..	..	..	..	..
108. Appendicitis and typhlitis.....	264	2	I	2	I	6	..	12	21
109. Hernia, intestinal obstruction.....	296	32	2	3	2	I	..	40	6
110a. Diseases of anus and stercoral fistulæ.....	10	I	..	..	..	..	..	I	I
110b. Other diseases of intestines.....	24	5	..	..	I	..	..	6	..
111. Acute yellow atrophy of liver.....	7	..	..	..	..	..	..	..	..
112. Hydatid tumor of liver.....	I	..	..	..	..	..	..	..	..
113. Cirrhosis of liver.....	416	..	I	..	..	..	..	I	I
114. Biliary calculi.....	89	..	..	..	..	..	..	..	..
115. Other diseases of liver.....	91	5	..	..	..	..	..	5	I
116. Diseases of spleen.....	I	..	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal).....	27	3	2	I	I	I	..	8	..
118. Other diseases of digestive system (except tuberculosis and cancer).....	10	..	..	..	..	..	..	..	..
VI.—Diseases of Genito-Urinary System.									
119. Acute nephritis.....	267	30	10	12	5	3	..	60	13
120. Bright's disease.....	2,180	6	I	I	I	..	..	9	8
121. Chyluria.....	I	..	..	..	..	..	..	..	..
122. Other diseases of the kidneys and appendages..	44	4	4	..	..	..	..	8	..
123. Calculi of the urinary tract.....	8	..	..	..	..	..	..	..	..
124. Diseases of bladder.....	16	..	..	..	..	..	..	..	..
125. Diseases of urethra, urinary abscess, etc.....	..	..	..	..	..	..	..	..	..
126. Diseases of the prostate.....	..	..	..	..	..	..	..	..	..
127. Non-venereal diseases of male genital organs..	..	..	..	..	..	..	..	..	..
128. Uterine hæmorrhage (not puerperal).....	3	..	..	..	..	..	..	..	..
129. Uterine tumor (not cancer).....	105	..	..	..	..	..	..	..	..

VITAL STATISTICS.

Deaths of Females by Age, and Cause of Death, City of

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5
130a. Metritis.....	..	15	..	..	..	..	..	..	..
130b. Other diseases of uterus.....	..	37	..	..	..	..	..	..	..
131. Ovarian cysts and tumors.....	..	44	..	..	..	..	..	..	..
132. Salpingitis and other diseases of female genital organs.....	..	131	..	..	..	..	..	..	..
133. Diseases of breast (not puerperal nor cancer).....	..	5	3	..	..	..	..	3	..
VII.—Puerperal Diseases.									
134. Accidents of pregnancy.....	..	151	..	..	..	..	..	..	..
135. Puerperal hæmorrhage.....	..	77	..	..	..	..	..	..	..
136. Other accidents of labor.....	..	65	..	..	..	..	..	..	..
137. Puerperal septicæmia.....	..	271	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions.....	..	143	..	..	..	..	..	..	..
139a. Puerperal phlegmasia alba dolens.....	..	19	..	..	..	..	..	..	..
139b. Puerperal embolism and sudden death.....	..	8	..	..	..	..	..	..	..
140a. Sequel of delivery.....	..	3	..	..	..	..	..	..	..
140b. Puerperal insanity.....
141. Puerperal diseases of breast.....	..	1	..	..	..	..	..	..	..
VIII.—Diseases of Skin and Cellular Tissue.									
142. Gangrene.....	..	25	1	..	..	1	..	2	..
143. Carbuncle.....	..	12	7	1	..	..	..	8	..
144. Phlegmon, acute abscess.....	..	46	13	3	..	1	..	17	..
145. Other diseases of skin and adnexa.....	..	15	4	3	..	1	..	8	..
IX.—Diseases of Locomotory System.									
146. Diseases of bones (non-tuberculous).....	..	36	3	1	3	3	2	12	9
147. Arthritis, other diseases of joints (except tuberculosis and rheumatism).....	..	6	1	..	..	..	..	1	1
148. Amputation.....
149. Other diseases of organs of locomotion.....
X.—Malformations.									
150. Congenital malformations.....	..	288	273	8	3	..	..	284	1
XI.—Diseases of Infancy.									
151. Congenital debility, icterus and sclerema.....	..	1,447	1,447	..	..	..	..	1,447	..
152. Other diseases peculiar to infancy (of which).....	..	426	426	..	..	..	..	426	..
152a. Injury during birth.....	..	142	142	..	..	..	..	142	..
153. Neglect.....	..	2	2	..	..	..	..	2	..
XII.—Diseases of Old Age.									
154. Senile debility.....	..	349	..	..	..	..	..	..	..
XIII.—External Causes.									
155. Suicide by poison.....	..	45	..	..	..	..	..	..	..
156. Suicide by asphyxia.....	..	82	..	..	..	..	..	..	..
157. Suicide by hanging or strangulation.....	..	11	..	..	..	..	..	..	..
158. Suicide by submersion.....	..	7	..	..	..	..	..	..	..
159. Suicide by firearms.....	..	13	..	..	..	..	..	..	..
160. Suicide by cutting instruments.....	..	5	..	..	..	..	..	..	..
161. Suicide by precipitation from height.....	..	16	..	..	..	..	..	..	..
162. Suicide by crushing.....	..	2	..	..	..	..	..	..	..
163. Suicide by other methods.....	..	2	..	..	..	..	..	..	..
164. Poisoning by food.....	..	6	..	..	..	1	..	1	2
165a. Bites of venomous animals.....	..	2	1	..	..	..	..	1	..
165b. Other acute poisonings.....	..	31	2	2	1	..	..	5	..
166. Conflagrations.....	..	142	..	..	1	..	1	2	1
167. Burns and scalds.....	..	250	9	21	26	30	31	117	33
168. Absorption of deleterious gases.....	..	101	1	..	1	..	..	1	1
169. Accidental submersion.....	..	39	..	..	1	..	..	2	4
170. Pistol and gunshot wounds.....	..	4	..	..	2	..	..	..	..
171. Cuts and stabs.....	..	3	..	..	..	..	..	..	..
172. Deaths by falls.....	..	249	5	6	9	9	7	36	17
173. Deaths in mines and quarries.....
174. Deaths by machinery.....	..	5	..	..	..	..	..	..	1
175. Deaths by other crushing agencies, wagons, etc.....	..	117	..	4	5	9	8	26	18
176. Deaths from injuries inflicted by animals (not snakebites, hydrophobia or stings).....	..	2	..	..	1	..	..	1	..
177a. Physical exhaustion.....	..	1	..	..	..	..	..	..	..
177b. Hunger and thirst.....	..	1	..	..	..	..	..	..	..
178. Excessive cold.....
179. Sunstroke.....	..	212	23	4	1	..	1	29	..
180. Lightning.....
181. Other electrical accidents.....

VITAL STATISTICS.

New York, for the Year Ending December 31, 1911—Continued.

10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85 and over.	Colored.	Chinese.	Japanese.
..	I	2	I	6	2	2	..	I	..	..	..	..	..	..	..	..	..	..
..	..	6	3	9	4	6	2	2	I	2	I	..	I	..	..	I	..	..
I	..	5	7	3	5	5	3	4	2	3	I	3	I	I	..	..	..	..
..	4	22	30	30	21	13	10	..	..	..	I	..	..	..	..	II	..	..
..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	5	22	41	40	32	11	..	..	..	..	..	..	..	..	..	..	5	..
..	..	10	15	27	16	6	3	..	..	..	..	..	..	..	..	16	..	..
..	I	11	17	17	14	3	I	I	..	..	..	..	..	..	..	..	4	..
..	16	68	84	49	38	9	4	..	..	..	..	..	..	..	..	..	10	..
I	8	45	36	33	15	8	..	..	..	..	..	..	..	..	..	..	4	..
..	..	4	4	5	5	I	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	3	2	I	2	..	..	..	..	..	..	..	..	..	..	I	..
..	..	..	..	I	2	2	..	..	..	..	..	..	..	..	..	..	I	..
..	I	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..
..	..	..	I	..	..	..	..	..	4	5	3	2	3	2	3	..	..	..
..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..
..	..	3	2	2	2	3	5	3	2	I	2	2	I	I	I	..	I	..
..	..	..	I	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..
..
3	2	I	..	2	I	I	I	..	3	..	..	I	..	..	..	..	2	..
..	..	I	I	..	I	..	..	..	..	..	..	..	..	..	..	..	..	..
..
..
..	..	..	I	..	..	I	..	..	..	I	..	..	..	..	..	..	II	..
..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	59	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..
..
..
..
..
..
..	3	9	9	2	9	2	5	..	I	I	2	I	..	..	..	..	I	..
I	4	10	5	5	11	12	11	7	6	2	4	2	I	..	..	I	..	..
..	..	I	..	2	2	I	2	..	I	I	..	I	I	I	..	..	..	..
..	..	..	2	I	..	..	..	2	I	I	..	..	..	..	..	..	..	..
..	I	3	I	2	3	2	I	..	..	..	..	..	..	..	..	..	..	..
..	I	I	2	4	3	2	2	..	I	I	..	..	..	..	..	..	I	..
..	..	..	..	I	I	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	I	I	..	..	..	..	..	..	..	..	..	..	..	..	..
..
..	3	4	3	3	5	3	..	..	I	I	..	..	..	2	..	..	..	..
3	63	42	10	6	5	3	I	..	2	..	2	I	..	..	..	I	..	..
4	7	4	10	10	9	7	7	11	3	7	6	12	3	..	..	..	10	..
4	II	6	6	7	I	8	12	7	6	7	6	5	3	8	2	..	4	..
I	I	7	..	4	5	7	2	3	..	I	..	I	I	..	..	..	I	..
..	..	I	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..
..
..	5	4	11	10	16	13	12	15	11	23	15	14	19	13	6	..	3	..
..
..	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	3	5	..	4	3	8	6	7	6	13	5	6	3	..	..	..	2	..
..	..	..	..	..	..	..	..	I	..	..	..	..	..	..	..	..	..	..
..
..
..
2	I	2	2	6	9	10	13	13	27	20	23	19	17	8	11	5	..	..
..
..

VITAL STATISTICS.

Deaths of Females by Age, and Cause of Death, City of

Cause of Death.	Total Both Sexes.	All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5
182. Homicides by firearms.....	26	..	..	..	..	I	I	2	..
183. Homicides by cutting or piercing instruments ..	7	I	..	..	..	..	..	I	..
184. Homicides by other means.....	21	II	..	..	..	..	..	II	I
185. Dislocation and fractures.....	22	..	..	..	..	I	..	I	..
186a. Criminal abortion.....	31	..	..	..	..	..	..	..	..
186b. Foreign body in larynx.....	7	3	..	I	I	..	..	5	..
186c. Other external violences.....	17	II	I	I	..	..	I	14	2
XIV.—Ill-defined or Not Specified Causes.									
187. Organic-lesions not defined.....	..	..	..	..	..	..	..	..	..
188. Sudden death.....	..	..	..	..	..	..	..	..	..
189. Ill-defined or disease not specified.....	269	247	19	2	I	..	..	269	..
I.—General diseases.....	9,690	713	566	346	257	162	2,044	386	
a. Tuberculous diseases.....	3,702	146	138	85	52	29	450	95	
b. Cancer.....	2,271	4	..	I	4	4	13	4	
II.—Diseases of nervous system and organs of sense.....	1,451	243	71	47	24	19	404	49	
III.—Diseases of circulatory system.....	5,866	24	8	12	6	17	67	98	
IV.—Diseases of respiratory system.....	5,496	1,518	739	222	128	53	2,660	122	
V.—Diseases of digestive system.....	3,821	1,828	300	71	32	21	2,252	56	
VI.—Diseases of genito-urinary system.....	2,856	43	15	13	6	3	80	21	
VII.—Puerperal diseases.....	738	..	..	..	..	..	..	..
VIII.—Diseases of skin and cellular tissue.....	98	25	7	..	3	..	35	..	
IX.—Diseases of locomotory system.....	42	4	I	3	3	2	13	10	
X.—Malformations.....	288	273	8	3	..	..	284	I	
XI.—Diseases of infancy.....	1,875	1,875	..	..	..	..	1,875	..	
XII.—Diseases of old age.....	349	..	..	..	..	..	..	..
XIII.—External causes.....	1,478	67	40	47	53	50	257	80	
a. Suicide.....	183	..	..	..	..	..	..	..
b. Homicide.....	54	12	..	..	I	I	14	I	
c. Accident.....	1,241	55	40	47	52	49	243	79	
XIV.—Causes ill-defined.....	269	247	19	2	I	..	269	..	
Total females.....	34,317	6,860	1,774	766	513	327	10,240	823	

VITAL STATISTICS.

Total Deaths by

BOROUGH OF

		All Ages.	Under 1 Year.	1	2	3	4	Total Under 5.	5	10	15	20
1910	Total Males.....	21,283	4,854	1,230	515	270	168	7,037	433	236	414	661
	Total Females.....	17,377	4,100	1,053	420	283	155	6,011	398	231	362	642
	Total both Sexes.....	38,660	8,954	2,283	935	553	323	13,048	831	467	776	1,303
1911	Total Males.....	21,219	4,449	1,154	454	240	171	6,468	439	218	414	666
	Total Females.....	17,167	3,774	1,071	418	283	152	5,598	383	191	391	675
	Total both Sexes.....	38,386	8,223	2,125	872	523	323	12,066	822	409	805	1,341

BOROUGH OF

1910	Total Males.....	3,889	611	147	379	42	36	913	79	47	116	191
	Total Females.....	3,079	440	124	72	48	29	713	80	44	93	151
	Total both Sexes.....	6,968	1,051	271	149	90	65	1,626	159	91	209	342
1911	Total Males.....	3,819	596	169	78	57	21	921	90	52	111	153
	Total Females.....	3,119	499	148	69	40	26	782	78	53	99	160
	Total both Sexes.....	6,938	1,095	317	147	97	47	1,703	168	105	210	313

BOROUGH OF

1910	Total Males.....	13,503	2,743	801	379	203	144	4,270	361	179	284	431
	Total Females.....	12,173	2,316	734	331	184	112	3,677	346	194	260	414
	Total both Sexes.....	25,676	5,059	1,535	710	387	256	7,947	707	373	544	845
1911	Total Males.....	12,983	2,549	683	274	174	129	3,809	338	164	270	382
	Total Females.....	11,528	2,079	568	233	149	120	3,154	297	181	247	403
	Total both Sexes.....	24,511	4,628	1,251	512	323	249	6,963	635	345	517	785

BOROUGH OF

1910	Total Males.....	2,178	484	115	50	23	22	694	56	32	48	81
	Total Females.....	1,793	385	86	42	36	19	568	54	24	30	71
	Total both Sexes.....	3,971	869	201	92	59	41	1,262	110	56	78	152
1911	Total Males.....	2,153	445	73	39	22	16	595	50	36	52	76
	Total Females.....	1,845	385	59	34	20	18	516	46	35	44	64
	Total both Sexes.....	3,998	830	132	73	42	34	1,111	96	71	96	140

BOROUGH OF

1910	Total Males.....	896	173	29	8	5	7	222	10	12	22	33
	Total Females.....	571	109	32	11	6	5	163	17	11	8	17
	Total both Sexes.....	1,467	282	61	19	11	12	385	27	23	30	50
1911	Total Males.....	932	154	25	8	14	8	209	19	9	18	33
	Total Females.....	658	123	28	7	21	11	190	19	9	11	19
	Total both Sexes.....	1,590	277	53	15	35	19	399	38	18	29	52

VITAL STATISTICS.

Age—Groups.

MANHATTAN

25	30	35	40	45	50	55	60	65	70	75	80	85 and Over.	Colored.	Chinese.	Japanese.
873 757	1,123 793	1,253 826	1,398 868	1,421 884	1,355 961	1,208 878	1,165 916	1,006 856	766 764	484 562	263 387	187 281	721 680	81 2	6 ..
1,630	1,916	2,079	2,266	2,305	2,316	2,086	2,081	1,862	1,530	1,046	650	468	1,401	83	6
881 695	1,088 738	1,445 906	1,446 882	1,419 883	1,454 933	1,291 882	1,275 966	1,015 971	751 837	501 576	275 402	173 278	795 689	62 1	4 1
1,576	1,826	2,351	2,328	2,302	2,387	2,173	2,241	1,966	1,588	1,077	677	451	1,486	63	5

THE BRONX

212 186	264 181	311 152	327 162	271 188	237 184	198 141	199 179	166 179	163 174	103 128	56 78	36 66	117 86	3 ..	2 ..
398	445	463	489	459	421	239	378	345	337	231	134	102	203	3	2
208 159	260 179	286 187	276 161	286 168	250 143	220 157	196 187	177 200	141 167	99 110	65 79	28 50	83 75	3 1	....
367	439	473	437	454	393	377	383	377	308	209	144	78	158	4	..

BROOKLYN

561 471	593 542	789 583	791 558	801 554	864 617	743 634	780 746	685 747	567 692	380 530	250 348	165 260	287 295	12 ..	1 ..
1,032	1,135	1,372	1,349	1,355	1,481	1,377	1,526	1,432	1,259	919	598	435	582	12	1
534 480	657 502	756 563	812 562	822 604	827 600	732 660	761 759	720 688	593 660	393 526	250 391	154 251	282 312	3 ..	3 ..
1,014	1,159	1,319	1,374	1,426	1,427	1,392	1,520	1,417	1,253	919	641	405	594	5	3

QUEENS

77 60	118 51	127 80	110 81	133 71	147 101	107 87	127 110	107 123	82 103	73 100	34 38	25 41	46 38	1..	....
137	169	207	191	204	248	194	237	230	185	173	72	66	84	1	..
89 66	87 69	116 101	157 84	150 83	138 108	145 110	120 97	111 121	88 110	71 97	46 53	26 41	47 56	....	....
155	156	217	241	233	246	255	217	232	198	168	99	67	103	..	..

RICHMOND

37 18	29 18	61 32	45 17	47 20	47 38	56 34	55 32	64 41	74 40	34 20	31 28	17 17	20 13	.. ..	1 ..
55	47	93	62	67	85	90	87	105	114	54	59	34	33	..	1
25 18	39 23	42 32	61 20	69 26	61 28	38 43	63 44	71 49	80 51	39 35	30 26	26 15	19 10	1..	....
43	62	74	81	95	89	81	107	120	131	74	56	41	29	1	..

VITAL STATISTICS.

Deaths from Principal Causes.—

Mortality of 1911 Compared with Average of Preceding 13

Cause of Death.	1898	1899	1900	1901	1902	1903	1904
Total, all causes.....	66,294	65,343	70,872	70,720	68,112	67,864	78,060
1. Typhoid fever.....	676	546	718	727	764	653	661
2. Typhus fever.....	1	.....	.....	.....	.....	.....	.....
3. Malarial fevers.....	250	167	216	195	125	90	91
4. Small-pox.....	1	18	12	410	310	5	7
5. Measles.....	651	587	816	449	710	508	895
6. Scarlet fever.....	703	533	465	1,162	940	734	851
7. Whooping cough.....	716	514	584	289	606	324	197
8. Diphtheria and croup.....	1,778	1,924	2,277	2,068	2,015	2,190	2,048
9. Influeza.....	393	461	612	856	157	418	501
10. Asiatic cholera.....	.....	.....	.....	.....	.....	.....	.....
11. Cholera nostras.....	.....	.....	.....	.....	.....	.....	.....
12. Other epidemic diseases.....	524	503	599	557	456	385	458
13. Tuberculosis pulmonalis.....	7,724	8,015	8,154	8,135	7,569	8,020	8,512
14. Tuberculous meningitis.....	864	864	875	750	794	812	742
15. Other forms of tuberculosis.....	642	658	601	505	520	472	515
16. Cancer, malignant tumors.....	2,006	2,136	2,291	2,463	2,450	2,608	2,709
17. Meningitis, simple.....	1,834	1,688	1,229	1,163	1,033	901	2,219
17a. (Of which) cerebro-spinal meningitis.....	357	394	306	267	265	271	1,403
18. Apoplexy and softening of brain.....	2,436	2,479	2,545	2,614	2,533	2,573	2,724
19. Organic heart disease.....	3,847	3,751	3,858	4,626	4,859	4,771	4,996
20. Acute bronchitis.....	1,923	1,988	1,964	1,683	1,898	1,560	1,735
21. Chronic bronchitis.....	390	392	467	469	385	276	424
22. Pneumonia (excluding broncho-pneumonia.....	8,094	8,531	10,482	6,547	6,251	6,402	7,900
22a. Broncho-pneumonia.....	.....	.....	.....	2,621	3,126	3,312	4,469
23. Other respiratory diseases.....	695	728	858	814	837	927	912
24. Disease of stomach (cancer excepted).....	513	473	529	509	490	512	523
25. Diarrhœal diseases (under 5 years).....	6,570	5,569	5,978	6,071	5,190	4,443	5,647
26. Appendicitis and typhylitis.....	392	442	473	439	404	481	528
27. Hernia and intestinal obstruction.....	476	456	476	478	490	485	537
28. Cirrhosis of the liver.....	705	692	775	792	746	807	817
29. Bright's disease and acute nephritis.....	4,686	5,113	5,352	5,500	5,461	5,636	6,220
30. Diseases of women (not cancerous).....	303	305	345	301	330	293	326
31. Puerperal septicæmia.....	230	210	284	244	249	247	300
32. Other puerperal diseases.....	338	348	427	404	393	390	427
33. Congenital debility and malformations.....	2,240	2,017	2,093	2,153	3,110	3,695	4,039
34. Old age.....	1,160	1,305	1,212	1,231	959	811	933
35. Violent deaths (suicide excepted)	2,982	2,757	3,152	3,923	2,980	3,263	4,338
a. Sunstroke.....	549	141	315	1,273	36	142	39
b. Other accidents.....	2,312	2,479	2,697	2,538	2,817	2,984	4,123
c. Homicides.....	121	137	140	112	127	137	176
36. Suicides.....	695	628	761	713	772	805	853
37. Other causes.....	6,661	6,360	6,892	6,629	6,701	6,935	7,868
38. Causes not known or ill-defined.....	2,195	2,185	2,500	2,230	1,499	1,120	1,138

VITAL STATISTICS.

City of New York, 1898—1911.

Years, Corrected to Correspond with Increase in Population.

1905	1906	1907	1908	1909	1910	Average Preceding 13 Years.	Corrected Average Preceding 13 Years.	Total Deaths 1911.	Increase.	Decrease.
73,714	76,203	79,205	73,072	71,105	76,742	72,100	91,329	75,423	....	15,906
649	639	740	536	564	558	649	822	545	....	277
53	64	69	34	40	27	109	138	38	....	100
9	6	9	1	2	5	61	77	3	....	74
520	1,145	728	972	997	785	751	951	659	....	292
473	491	796	1,333	786	953	786	996	741	....	255
408	367	393	188	401	294	406	514	384	....	130
1,544	1,898	1,740	1,758	1,714	1,715	1,898	2,404	1,281	....	1,123
311	241	714	403	335	366	444	562	486	....	76
424	451	442	349	422	467	464	588	547	....	41
8,535	8,955	8,999	8,869	8,643	8,692	8,371	10,614	8,790	....	1,824
644	765	755	815	806	801	791	1,002	870	....	132
479	474	508	473	462	581	530	671	590	....	81
2,875	3,005	3,227	3,243	3,488	3,710	2,785	3,527	3,873	346	....
2,584	1,206	1,067	678	676	608	1,299	1,645	556	....	1,089
2,025	812	642	351	326	294	593	751	203	....	548
2,891	2,772	2,647	1,829	945	979	2,305	2,919	960	....	1,959
5,140	5,557	7,237	7,130	6,854	6,870	5,346	6,772	7,965	1,193	....
1,417	1,319	1,048	819	1,051	928	1,487	1,883	877	....	1,006
315	254	347	239	311	407	360	456	297	....	159
5,657	5,767	6,217	4,682	5,254	5,540	10,064	12,748	5,253	4,802	2,693
4,126	5,101	5,589	4,826	5,360	4,979					
856	921	804	690	770	820	818	1,036	735	....	301
512	488	455	447	482	501	495	627	479	....	148
6,136	6,016	6,611	6,190	5,380	5,918	5,825	7,377	4,696	....	2,681
507	544	550	528	566	639	499	632	633	I	....
570	577	547	536	558	587	521	660	544	....	116
907	1,031	1,092	1,039	1,080	1,140	894	1,132	1,188	56	....
5,944	6,108	5,685	5,049	5,522	5,638	5,532	7,006	5,207	....	1,799
327	326	311	303	301	349	317	401	335	....	66
309	263	322	262	250	255	263	333	271	....	62
506	500	461	436	469	506	431	546	467	....	79
4,341	4,600	4,742	4,581	4,443	4,313	3,567	4,519	3,809	....	710
723	890	683	636	597	683	909	1,151	525	....	626
3,816	4,034	4,201	3,743	3,513	3,813	3,578	4,532	4,395	....	137
220	112	74	142	130	161	256	324	561	237	....
3,431	3,669	3,842	3,370	3,201	3,366	3,141	3,979	3,553	....	426
165	253	285	231	182	286	181	229	281	52	....
660	707	710	994	890	825	770	975	788	....	190
7,454	7,752	8,062	7,786	6,617	10,771	7,423	9,401	11,251	1,850	....
1,092	969	697	675	556	719	1,352	1,712	583	....	1,129

VITAL STATISTICS.

Deaths from All Causes and Diarrhoeal

CITY OF

1910.

Week Ending	ALL CAUSES.						DIARRHOEAL DISEASES							
	Under 1 Month.	1 Month and Under 2 Months.	2 Months and Under 3 Months.	3 Months and Under 6 Months.	6 Months and Under 9 Months.	9 Months and Under 12 Months.	Total Under 1 Year.	Under 1 Month.	1 Month and Under 2 Months.	2 Months and Under 3 Months.	3 Months and Under 6 Months.	6 Months and Under 9 Months.	9 Months and Under 12 Months.	Total Under 1 Year.
January 8.....	128	47	31	60	32	35	333	5	8	3	13	5	1	35
15.....	111	39	21	39	34	27	271	7	7	4	9	5	3	30
22.....	134	28	17	39	45	24	287	3	6	2	2	1	3	26
29.....	100	30	12	45	41	23	256	3	2	2	7	4	2	19
February 5.....	88	21	20	49	34	37	249	4	4	3	3	8	4	34
12.....	122	21	15	47	35	39	260	4	4	1	0	3	3	23
19.....	128	29	19	39	55	28	298	6	4	5	5	8	1	27
26.....	108	28	19	26	52	22	255	3	2	3	5	6	2	21
March 5.....	122	30	13	53	41	39	298	6	6	4	4	12	2	30
12.....	97	32	21	34	47	37	268	8	3	3	6	7	4	31
19.....	138	29	28	40	57	30	322	4	1	3	6	6	2	22
26.....	111	28	27	48	34	40	288	4	4	7	11	2	4	32
April 2.....	102	20	16	43	71	41	293	8	2	5	11	6	2	34
9.....	105	33	17	52	65	37	309	4	5	5	15	9	2	49
16.....	111	33	24	43	44	44	299	4	12	4	10	4	2	38
23.....	113	33	15	47	49	35	292	8	4	2	10	7	4	35
30.....	88	31	22	39	40	38	258	4	5	9	10	10	3	41
May 7.....	99	27	23	39	35	30	253	5	5	10	10	6	5	39
14.....	102	23	23	39	37	45	269	4	4	6	11	13	6	44
21.....	123	22	24	42	33	30	274	7	5	4	12	5	6	39
28.....	99	32	19	29	33	48	260	3	8	5	10	9	6	41
June 4.....	89	23	16	47	38	34	247	5	4	8	16	8	6	47
11.....	104	27	29	45	35	32	272	6	7	6	12	9	3	43
18.....	109	31	22	58	35	34	289	12	17	11	26	16	9	91
25.....	118	20	21	69	60	56	344	13	8	8	42	29	14	114
July 2.....	95	21	28	95	63	42	344	14	14	19	59	38	13	157
9.....	89	35	43	108	102	61	438	5	18	27	73	62	39	224
16.....	107	44	41	169	118	89	568	19	34	37	135	81	57	363
23.....	89	53	56	122	106	97	523	13	37	39	92	79	63	323
30.....	84	47	45	141	123	105	545	17	24	29	94	94	76	334
August 6.....	97	52	43	131	80	69	472	14	24	23	79	71	44	245
13.....	106	34	44	92	87	59	422	10	15	27	58	71	38	219
20.....	95	44	34	94	83	46	396	18	17	17	64	60	28	204
27.....	97	36	33	96	86	54	402	11	17	24	67	56	33	208
September 3.....	78	32	30	102	62	55	365	9	15	28	68	34	34	188
10.....	104	44	51	85	61	58	403	10	20	32	47	36	29	174
17.....	85	31	42	82	45	44	329	11	15	27	48	27	25	153
24.....	95	45	41	59	59	44	343	5	23	21	38	33	22	142
October 1.....	99	27	35	59	54	37	311	10	4	22	34	30	22	122
8.....	103	38	33	77	69	42	362	5	14	12	46	37	19	133
15.....	90	33	40	78	54	35	330	3	16	23	41	28	16	127
22.....	87	33	36	61	37	24	278	3	13	20	38	20	11	105
29.....	92	38	33	49	32	27	271	6	12	16	25	12	12	83
November 5.....	72	33	24	42	27	25	223	6	11	11	21	8	8	65
12.....	101	33	27	32	26	13	232	5	9	10	19	9	5	57
19.....	82	24	20	37	22	15	200	6	9	7	14	5	3	44
26.....	81	17	24	31	20	18	191	5	3	7	7	5	3	30
December 3.....	75	24	13	30	30	22	194	2	4	4	7	4	3	24
10.....	105	37	25	29	30	16	242	5	6	5	9	6	2	33
17.....	100	27	21	39	26	18	231	4	9	3	8	5	..	29
24.....	119	29	26	35	28	27	264	3	4	5	8	4	1	25
31.....	92	22	10	54	23	30	231	4	2	2	10	8	..	26
Total, 52 weeks.	5,268	1,650	1,418	3,140	2,635	2,052	16,163	369	516	617	1,507	1,094	701	4,804

VITAL STATISTICS.

Diseases under One Year of Age, by Weeks.

NEW YORK

1911.

Week Ending.	ALL CAUSES.							DIARRHOEAL DISEASES.							
	Under 1 Month.	1 Month and Under 2 Months.	2 Months and Under 3 Months.	3 Months and Under 6 Months.	6 Months and Under 9 Months.	9 Months and Under 12 Months.	Total Under 1 Year.	Under 1 Month.	1 Month and Under 2 Months.	2 Months and Under 3 Months.	3 Months and Under 6 Months.	6 Months and Under 9 Months.	9 Months and Under 12 Months.	Total Under 1 Year.	
January	7.....	118	33	20	46	27	16	260	3	7	4	5	5	1	25
	14.....	123	26	16	47	26	14	252	6	2	5	14	6	1	34
	21.....	110	29	22	41	29	30	261	4	6	5	7	6	2	30
	28.....	95	28	20	52	23	29	247	4	8	6	8	3	2	31
February	4.....	114	23	19	40	39	23	258	4	7	5	9	7	2	34
	11.....	111	28	21	55	29	26	279	11	5	3	11	5	2	36
	18.....	126	27	19	39	50	19	280	2	9	4	9	6	3	33
	25.....	115	28	19	55	57	35	309	10	6	6	15	11	2	50
March	4.....	120	28	30	48	46	49	321	9	5	7	16	8	7	52
	11.....	103	38	19	38	42	37	277	5	15	6	10	11	5	52
	18.....	119	35	27	55	44	39	319	12	14	7	12	8	7	60
	25.....	123	35	19	49	44	46	316	8	16	6	12	6	3	51
April	1.....	105	33	22	48	66	45	319	8	11	8	8	13	2	50
	8.....	106	39	28	44	47	44	308	9	14	8	12	6	3	52
	15.....	97	17	31	47	57	48	297	2	8	10	9	10	5	44
	22.....	136	24	24	49	61	40	334	13	10	6	12	9	2	52
	29.....	93	26	21	34	43	43	260	3	11	6	7	6	5	38
May	6.....	110	24	28	34	36	48	280	13	7	13	7	5	4	49
	13.....	103	26	18	42	45	49	283	9	11	11	12	10	7	60
	20.....	101	30	11	56	42	44	284	9	13	4	14	7	4	51
	27.....	84	30	16	24	39	39	232	2	14	6	5	7	10	44
June	3.....	95	28	14	33	32	47	249	8	6	5	10	6	5	50
	10.....	94	27	16	26	32	35	230	6	7	5	8	7	4	37
	17.....	70	18	17	31	39	31	206	7	7	9	12	10	5	50
	24.....	91	15	10	33	48	45	242	4	4	3	11	17	12	51
July	1.....	93	31	23	47	41	34	269	5	7	9	19	21	7	68
	8.....	88	35	26	65	67	62	343	8	12	11	36	31	26	124
	15.....	103	31	33	76	57	59	359	12	16	13	51	32	22	146
	22.....	95	34	25	81	67	40	342	10	17	12	48	45	23	155
	29.....	97	28	44	95	67	44	375	12	11	24	69	39	22	177
August	5.....	87	37	40	113	71	57	495	10	13	21	76	46	37	203
	12.....	92	41	36	108	77	60	414	10	15	15	74	45	34	193
	19.....	104	38	38	90	75	63	408	14	17	19	56	59	39	204
	26.....	85	39	33	78	83	43	361	9	12	22	53	52	34	182
September	2.....	87	32	28	79	51	39	316	13	16	20	51	31	23	155
	9.....	82	26	38	77	51	35	309	10	13	16	55	30	25	149
	16.....	94	34	21	76	45	52	322	9	17	9	48	24	28	135
	23.....	103	33	20	81	48	39	324	4	13	7	44	29	25	122
	30.....	81	34	34	52	44	46	291	7	10	11	30	23	19	100
October	7.....	93	30	23	64	47	44	301	10	6	7	30	24	26	103
	14.....	97	31	25	64	37	30	284	7	8	11	31	21	17	95
	21.....	102	31	25	38	32	28	256	7	6	10	18	10	10	61
	28.....	82	23	21	49	26	30	231	6	4	4	12	11	10	47
November	4.....	100	37	26	41	20	26	259	3	9	9	11	8	5	45
	11.....	111	35	27	36	21	14	244	..	10	5	12	8	4	39
	18.....	81	35	17	40	10	20	203	4	9	6	11	4	6	40
	25.....	116	30	13	33	28	26	246	10	5	1	8	8	2	34
December	2.....	119	29	21	36	21	18	244	3	3	3	8	4	2	23
	9.....	92	39	10	41	22	23	227	5	6	3	9	5	4	32
	16.....	119	35	23	38	22	23	260	6	11	4	9	4	..	34
	23.....	89	24	11	39	26	25	214	8	5	1	11	3	3	31
	30.....	120	50	22	38	32	26	288	7	7	10	3	4	2	33
Total, 52 weeks.		5,274	1,597	1,210	2,741	2,231	1,927	14,980	380	501	442	1,138	816	569	3,846

VITAL STATISTICS.

Mortality from the Principal

BOROUGH OF

Cause of Death.	1910												Total.
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Total, all causes.....	3,555	3,221	3,729	3,558	3,213	2,967	3,446	3,956	2,874	2,831	2,781	3,429	38,660
1. Typhoid fever.....	15	14	18	7	11	19	23	27	38	43	28	26	269
2. Typhus fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Malarial fevers.....	..	1	..	..	..	..	..	..	3	3	..	..	7
4. Small-pox.....	..	..	..	2	1	1	..	..	..	..	..	..	4
5. Measles.....	24	15	34	45	35	33	29	19	14	2	9	12	271
6. Scarlet fever.....	63	73	80	71	66	38	14	7	9	7	10	10	448
7. Whooping Cough.....	3	8	11	19	16	10	24	18	10	12	13	10	154
8. Diphtheria and croup...	109	103	109	114	99	86	65	47	30	35	55	46	898
9. Influenza.....	23	18	35	21	10	7	3	1	1	4	10	29	162
10. Asiatic cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..
11. Cholera nostras.....	..	..	..	..	..	..	..	..	..	..	..	..	..
12. Other epidemic diseases..	29	34	39	27	29	25	25	20	19	8	20	17	292
13. Tuberculosis pulmonalis..	376	333	396	397	340	284	289	313	299	294	298	356	3,975
14. Tuberculous meningitis..	46	49	41	38	52	46	49	39	32	28	31	34	485
15. Other forms of tubercu- losis.....	25	23	29	37	28	21	33	32	26	27	23	25	329
16. Cancer, malignant tumors	155	165	183	147	168	147	155	166	161	172	141	155	1,915
17. Meningitis, simple.....	33	38	46	33	35	29	38	24	26	26	21	31	380
17a. (Of which cerebro-spinal meningitis.....)	18	14	22	19	20	16	12	14	12	12	7	11	177
18. Apoplexy and softening of brain.....	39	26	35	23	47	27	29	19	28	30	37	49	389
19. Organic heart disease...	292	294	242	253	257	267	208	174	212	218	281	373	3,071
20. Acute bronchitis.....	61	43	47	41	26	26	14	19	27	18	43	41	406
21. Chronic bronchitis.....	13	4	8	14	6	3	11	2	5	7	16	14	103
22. Pneumonia (excluding broncho-pneumonia)..	318	248	370	329	235	155	95	81	104	159	207	365	2,666
22a. Broncho-pneumonia.....	330	283	322	295	221	189	171	134	163	159	184	274	2,725
23. Other respiratory dis- eases.....	49	39	54	64	45	33	33	29	37	25	40	53	501
24. Diseases of stomach (can- cer excepted).....	21	22	26	18	29	16	14	21	20	27	11	26	251
25. Diarrhoeal Diseases (un- der 5 years).....	75	75	108	138	135	230	744	638	425	259	109	85	3,021
26. Appendicitis and Typh- litis.....	24	23	29	31	25	35	45	25	21	32	20	30	340
27. Hernia and intestinal ob- struction.....	24	27	26	26	18	21	26	32	28	22	20	38	308
28. Cirrhosis of the liver...	67	61	32	46	38	43	39	41	49	33	32	64	545
29. Bright's disease and acute nephritis.....	249	235	261	232	234	205	191	193	154	189	228	256	2,627
30. Diseases of women (not cancerous).....	15	17	9	20	23	22	23	15	14	14	11	17	200
31. Puerperal septicæmia....	16	13	21	18	12	13	7	10	8	5	7	8	138
32. Other puerperal diseases.	25	24	26	20	23	19	28	11	18	21	11	23	249
33. Congenital debility and malformations.....	229	193	247	223	217	185	161	193	181	214	147	206	2,396
34. Old age.....	26	27	21	15	26	26	11	12	16	18	21	16	235
35. Violent deaths (suicide excepted).....	192	129	157	168	167	170	262	175	143	188	182	168	2,101
a. Sunstroke.....	..	..	..	..	..	12	48	6	5	..	..	..	71
b. Other accidents....	171	117	145	154	155	138	194	153	127	176	164	154	1,848
c. Homicides.....	21	12	12	14	12	20	20	16	11	12	18	14	182
36. Suicides.....	39	36	31	35	46	54	44	30	40	35	30	39	459
37. Other causes.....	522	497	604	564	458	428	464	413	450	448	459	511	5,818
38. Causes not known or ill- defined.....	28	31	32	27	35	54	79	73	63	52	26	22	522
Under 1 year.....	686	639	756	741	651	723	1,126	1,004	822	720	481	605	8,954
1 year, under 2 years.....	212	199	231	195	220	195	269	230	175	118	112	127	2,283
Total under 5 years.....	1,073	1,030	1,185	1,147	1,055	1,071	1,546	1,349	1,102	928	707	855	13,048
65 years and over.....	566	464	571	526	460	395	361	311	231	386	493	623	5,527
70 years and over.....	395	308	380	359	313	242	238	203	269	242	330	423	3,664
Males.....	1,932	1,698	2,072	1,945	1,806	1,680	1,873	1,657	1,579	1,556	1,574	1,911	21,283
Females.....	1,623	1,523	1,657	1,613	1,407	1,287	1,573	1,399	1,295	1,275	1,207	1,518	17,377
Colored.....	116	104	130	112	99	115	138	112	130	123	105	117	1,401
Chinese.....	5	1	8	14	12	6	10	10	4	4	7	2	83
Institutions.....	1,463	1,343	1,655	1,573	1,422	1,450	1,597	1,380	1,284	1,298	1,183	1,443	17,097
Tenements.....	1,802	1,646	1,801	1,707	1,539	1,301	1,624	1,406	1,406	1,280	1,349	1,665	18,616
Dwellings.....	157	147	160	154	137	111	99	86	96	111	127	177	1,562
Hotels, etc.....	65	39	47	43	37	33	27	22	21	39	52	68	493
Others.....	68	46	66	81	78	66	99	72	67	103	70	76	892

VITAL STATISTICS.

Causes of Death, 1910 and 1911

MANHATTAN

1911												Total.
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		Total.
3,548	3,319	3,964	3,757	3,459	2,702	3,327	2,961	2,648	2,787	2,818	3,096	38,386
13	6	8	10	14	19	32	46	42	26	23	18	257
..
..	..	2	1	3	..	1	..	2	5	3	..	17
..
16	30	43	34	58	55	29	15	7	6	7	21	321
25	37	59	81	63	41	20	5	4	4	9	12	360
15	19	16	24	25	20	26	18	22	22	2	6	215
71	78	88	85	85	48	39	36	15	31	37	44	657
48	42	32	29	12	2	1	..	4	7	6	8	191
..
..
35	37	41	54	50	35	21	21	21	12	13	11	351
378	373	399	417	381	316	296	330	322	339	324	346	4,221
37	45	53	51	63	60	45	37	39	34	31	29	524
29	35	35	32	37	22	27	26	21	17	22	32	335
178	136	168	157	186	146	157	194	168	205	174	184	2,053
34	30	53	27	33	28	29	28	18	21	17	16	334
11	15	16	13	10	6	3	11	8	7	5	3	108
67	39	36	31	31	34	50	17	21	34	30	35	425
417	336	334	351	323	237	271	236	243	292	331	365	3,736
32	36	40	35	34	22	17	15	15	15	38	45	344
7	10	15	7	12	12	7	7	7	4	5	9	102
374	314	374	345	238	135	104	77	80	144	173	243	2,601
280	275	363	336	311	180	136	140	116	153	176	209	2,675
47	43	55	55	48	27	31	23	18	25	33	36	441
23	21	23	17	17	16	18	15	18	20	19	19	226
93	97	178	161	163	130	310	470	291	159	91	88	2,231
23	29	26	35	25	27	36	31	34	13	19	22	320
32	30	28	16	28	22	25	28	23	18	26	17	293
40	48	73	56	42	36	38	46	42	51	57	48	577
268	241	252	239	215	152	180	143	168	173	212	237	2,480
16	15	21	23	18	25	22	13	3	17	17	6	196
13	14	10	15	17	12	6	12	9	7	5	8	128
21	16	27	13	25	16	15	17	14	18	17	15	214
190	180	166	154	132	135	178	184	180	184	166	208	2,057
29	13	25	18	18	7	21	12	17	17	12	15	204
148	140	287	152	198	186	534	169	166	154	169	187	2,490
..	..	..	..	..	2	336	6	..	..	1	..	345
136	132	268	144	183	172	182	146	154	140	149	159	1,965
12	8	19	8	15	12	16	17	12	14	19	28	180
35	36	44	46	38	34	27	30	22	40	36	42	430
494	498	566	624	498	436	498	449	408	445	491	508	5,915
20	20	24	26	18	29	80	71	68	75	27	7	465
659	654	847	737	712	576	765	859	673	627	538	576	8,223
148	177	251	277	243	171	170	169	142	126	103	148	2,125
939	975	1,293	1,226	1,150	908	1,106	1,142	919	840	731	837	12,066
598	529	562	594	517	329	507	340	351	419	475	538	5,759
495	345	378	387	331	218	343	229	235	265	311	346	3,793
1,985	1,864	2,108	2,065	1,908	1,478	1,888	1,588	1,493	1,564	1,555	1,723	21,219
1,593	1,455	1,856	1,692	1,551	1,224	1,439	1,373	1,155	1,223	1,263	1,373	17,167
140	121	147	145	157	109	101	109	109	124	105	119	1,486
10	4	2	3	6	6	4	5	8	4	5	6	63
1,546	1,468	1,726	1,643	1,546	1,264	1,579	1,399	1,249	1,290	1,255	1,400	17,365
1,707	1,633	1,861	1,820	1,644	1,222	1,506	1,390	1,198	1,273	1,285	1,443	17,982
190	128	134	180	135	105	113	87	89	106	118	134	1,519
49	45	64	38	40	24	28	17	34	34	56	55	484
56	45	179	76	94	87	101	68	78	84	104	64	1,036

VITAL STATISTICS.

Mortality from the Principal

BOROUGH OF

Cause of Death.	1910												Total.
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Total, all causes.....	630	620	671	634	590	512	587	511	554	550	494	615	6,968
1. Typhoid fever.....	2	2	4	3	..	3	4	4	6	4	6	3	41
2. Typhus fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Malarial fevers.....	..	..	1	..	1	..	1	..	..	1	..	..	4
4. Small-pox.....	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Measles.....	6	6	6	10	11	3	5	3	2	2	1	1	56
6. Scarlet fever.....	10	22	9	13	5	6	2	..	..	..	2	6	75
7. Whooping cough.....	3	1	1	1	2	1	6	3	2	..	2	1	23
8. Diphtheria and croup.....	12	13	23	17	20	10	8	6	4	5	10	8	136
9. Influenza.....	7	4	3	5	2	1	..	..	..	..	..	4	26
10. Asiatic cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..
11. Cholera nostras.....	..	..	..	..	..	..	..	..	..	..	..	..	..
12. Other epidemic diseases.....	2	4	1	1	4	2	2	5	..	..	1	2	24
13. Tuberculosis pulmonalis.....	136	163	184	158	160	140	146	131	151	150	113	149	1,781
14. Tuberculous meningitis.....	10	6	7	8	8	10	5	6	7	7	5	4	84
15. Other forms of tuberculosis.....	3	2	4	2	3	4	3	..	1	4	3	2	31
16. Cancer, malignant tumors.....	22	27	26	30	20	29	22	29	26	33	36	23	323
17. Meningitis, simple.....	7	2	5	6	3	8	2	2	6	4	4	4	53
17a. (Of which) cerebro-spinal meningitis.....	5	2	1	4	1	5	2	..	2	3	1	3	29
18. Apoplexy and softening of brain.....	28	30	28	23	27	13	18	10	15	17	23	22	254
19. Organic heart disease.....	74	59	59	46	69	49	60	37	48	69	54	82	706
20. Acute bronchitis.....	2	7	5	2	1	..	1	6	3	5	7	12	51
21. Chronic bronchitis.....	2	1	..	3	1	..	..	..	1	1	..	1	10
22. Pneumonia (excluding broncho-pneumonia).....	59	54	59	57	34	21	19	12	21	30	30	66	462
22a. Broncho-pneumonia.....	34	41	41	39	25	15	14	11	16	19	15	42	312
23. Other respiratory diseases.....	6	6	6	7	7	6	1	..	6	4	2	6	57
24. Diseases of stomach (cancer excepted).....	1	4	6	5	2	1	..	4	4	4	4	3	38
25. Diarrhoeal diseases (under 5 years).....	11	4	2	14	8	27	93	60	56	44	15	8	342
26. Appendicitis and Typhlitis.....	7	4	7	2	1	3	4	3	4	3	2	3	43
27. Hernia and intestinal obstruction.....	4	6	4	4	2	4	2	6	3	3	2	5	45
28. Cirrhosis of the liver.....	10	3	9	4	2	7	2	13	3	9	6	7	75
29. Bright's disease and acute nephritis.....	48	37	32	41	30	33	32	31	37	18	33	39	411
30. Diseases of women (not cancerous).....	1	3	2	1	4	1	2	3	1	2	1	..	21
31. Puerperal septicæmia.....	1	5	2	6	2	5	3	1	2	2	..	2	31
32. Other puerperal diseases.....	4	1	1	4	4	6	1	2	2	..	2	1	28
33. Congenital debility and malformations.....	27	18	25	24	24	20	17	27	12	14	24	30	262
34. Old age.....	5	6	8	3	11	3	4	7	3	5	6	7	68
35. Violent deaths (suicide excepted).....	16	19	23	25	20	24	31	17	30	27	30	18	280
a. Sunstroke.....	..	..	..	..	..	2	4	..	..	..	..	..	6
b. Other accidents.....	16	19	21	23	19	21	27	16	30	26	28	18	264
c. Homicides.....	..	..	2	2	1	1	..	1	..	1	2	..	10
36. Suicides.....	7	1	5	5	7	9	10	4	8	3	3	2	64
37. Other causes.....	62	58	69	57	63	42	55	50	58	48	50	52	664
38. Causes not known or ill-defined.....	1	1	4	7	7	6	12	18	16	13	2	..	87
Under 1 year.....	85	66	83	74	80	71	128	115	115	94	66	74	1,051
1 year, under 2 years.....	35	36	29	28	13	20	28	16	18	20	9	19	271
Total under 5 years.....	145	129	133	138	119	125	182	153	151	135	100	116	1,626
65 years and over.....	107	92	117	119	104	76	82	59	93	89	90	121	1,149
70 years and over.....	73	62	81	89	77	47	58	43	68	57	59	90	804
Males.....	362	336	382	352	348	279	321	276	318	298	275	342	3,889
Females.....	268	284	289	282	242	233	266	235	236	252	219	273	3,079
Colored.....	21	26	13	11	30	20	8	15	9	17	22	11	203
Chinese.....	..	..	1	..	1	..	..	..	..	..	..	1	3
Institutions.....	237	264	302	260	265	230	239	214	237	238	195	232	2,913
Tenements.....	238	232	225	218	212	175	220	194	192	206	177	233	2,522
Dwellings.....	141	112	139	142	98	93	111	90	108	101	107	143	1,385
Hotels, etc.....	2	2	..	3	2	1	3	3	3	1	1	1	22
Others.....	12	10	5	11	13	13	14	10	14	4	14	6	126

VITAL STATISTICS.

Causes of Death, 1910 and 1911—Continued.

THE BRONX

1911													Total.
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
645	555	692	661	643	498	621	604	495	479	496	549		6,938
..	2	2	1	..	5	3	9	7	4	4	1		38
..	..	..	..	..	..	..	..	..	..	..	..		2
..	..	..	..	..	..	..	..	1	1	..	..		7
..	..	..	..	..	..	..	..	..	..	..	..		171
3	10	14	19	35	24	27	18	9	3	2	1		55
4	7	15	8	11	1	1	1	3	1	1	2		41
2	3	6	3	4	4	..	8	6	3	..	8		144
20	9	13	10	27	13	9	8	4	12	11	..		45
14	14	8	2	2	..	..	..	..	..	1	4		..
..
..
5	..	3	2	4	1	3	3	4	3	4	2		34
165	141	165	149	155	118	121	121	108	112	114	104		1,573
9	7	2	4	8	11	9	6	6	3	3	4		72
2	4	3	1	3	2	3	5	4	6	1	1		35
22	20	27	26	25	30	36	25	23	33	22	24		323
6	3	4	3	3	4	3	6	7	1	2	3		45
3	..	2	..	3	4	1	1	2	1	1	1		19
10	10	3	16	9	6	10	12	13	11	12	15		127
85	64	88	84	57	44	56	51	50	50	59	60		757
9	3	3	5	6	1	1	4	1	4	4	5		46
1	1	..	..	1	..	..	1	..	1	3	2		10
65	44	71	68	40	9	15	16	16	22	33	40		439
34	21	34	38	16	17	17	15	16	20	18	27		273
5	2	3	3	3	2	4	..	2	3	2	1		30
4	6	4	5	3	3	3	4	1	4	4	6		47
11	16	21	14	21	17	66	77	38	30	3	13		327
3	4	4	2	2	5	6	4	..	..	..	3		33
8	7	7	6	2	6	2	4	2	..	6	2		52
7	4	7	8	8	6	4	5	11	6	7	11		84
27	25	47	41	34	32	37	29	23	22	34	43		394
..	1	2	2	3	2	2	2	..	3	3	1		21
4	5	3	2	4	2	1	5	3	1	1	2		33
1	2	2	7	8	6	3	4	4	2	2	8		49
20	20	31	29	34	23	28	26	24	20	35	36		335
5	1	7	3	4	2	3	4	1	2	1	7		40
23	19	19	29	32	20	77	35	35	23	15	21		348
..	..	..	..	..	..	36	..	..	..	..	..		36
22	18	18	29	31	19	40	33	33	19	15	18		295
1	1	1	..	1	1	1	2	2	4	..	3		17
2	1	5	5	7	4	8	5	5	7	9	8		66
57	74	67	65	70	77	60	69	61	56	75	66		797
3	5	2	1	2	1	3	12	7	10	5	1		52
74	80	90	86	99	66	113	155	93	74	68	97		1,095
11	18	30	34	27	32	42	34	26	25	18	20		317
114	118	158	145	172	123	177	213	137	122	97	127		1,703
126	91	120	101	88	75	91	77	71	75	94	107		1,116
81	62	70	73	66	49	58	60	45	40	63	72		739
357	313	386	375	346	273	349	341	268	243	258	310		3,819
288	242	306	286	297	225	272	263	227	236	238	239		3,119
21	6	14	19	6	9	14	15	9	13	13	19		158
..	..	1	..	1	1	..	..	..	1	..	..		4
285	244	274	285	293	231	268	271	210	176	199	213		2,949
221	189	263	246	219	185	210	206	179	181	188	228		2,515
130	114	148	119	116	70	122	110	92	109	102	92		1,324
2	..	1	1	..	..	..	2	..	2	1	2		11
7	8	6	10	15	12	21	15	14	11	6	14		139

VITAL STATISTICS.

Mortality from the Principal

BOROUGH OF

Cause of Death.	1910												Total.
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Total, all causes.....	2,421	2,051	2,437	2,292	2,104	2,052	2,412	1,955	1,830	1,824	1,879	2,419	25,676
1. Typhoid fever.....	18	10	8	11	10	13	20	19	20	25	24	20	198
2. Typhus fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Malarial fevers.....	1	1	..	2	..	1	2	2	..	1	2	1	13
4. Small-pox.....	..	..	..	..	..	..	..	..	..	..	..	..	1
5. Measles.....	46	51	82	78	53	47	20	14	12	4	8	7	422
6. Scarlet fever.....	72	47	59	56	39	38	20	3	6	5	12	28	385
7. Whooping cough.....	6	3	3	5	7	9	14	18	9	5	3	10	92
8. Diphtheria and croup....	63	53	73	75	58	49	35	26	14	28	38	46	558
9. Influenza.....	16	21	29	20	10	4	2	2	..	2	2	36	144
10. Asiatic cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..
11. Cholera nostras.....	..	..	..	..	..	..	..	..	..	..	..	..	..
12. Other epidemic diseases..	10	15	18	6	7	8	10	15	15	17	4	7	132
13. Tuberculosis pulmonalis..	208	174	235	216	212	190	231	188	176	194	208	198	2,430
14. Tuberculosis meningitis..	19	12	15	15	25	21	18	8	21	19	14	11	198
15. Other forms of tubercu- losis.....	16	15	20	22	18	17	15	15	15	8	11	14	186
16. Cancer, malignant tumors	102	84	103	97	103	106	98	101	105	101	100	112	1,212
17. Meningitis, simple.....	8	9	7	10	17	10	9	10	11	12	10	23	136
17a. (Of which) cerebro-spinal meningitis.....	2	7	3	5	7	4	6	4	6	8	6	14	72
18. Apoplexy and softening of brain.....	29	23	23	15	17	23	16	9	23	30	18	19	245
19. Organic heart disease....	254	233	249	220	196	191	155	153	169	173	232	315	2,540
20. Acute bronchitis.....	50	35	39	45	24	34	28	21	28	21	29	51	405
21. Chronic bronchitis.....	31	33	26	41	28	13	14	7	7	10	19	49	278
22. Pneumonia (excluding broncho-pneumonia)..	271	180	257	222	165	109	74	62	65	97	165	334	2,001
22a. Broncho-pneumonia.....	222	165	203	169	142	121	84	77	95	94	105	107	1,644
23. Other respiratory dis- eases.....	22	12	25	21	20	20	15	12	20	12	19	22	220
24. Diseases of stomach (can- cer excepted).....	13	15	20	14	10	11	9	12	12	17	16	17	166
25. Diarrhoeal diseases (un- der 5 years).....	59	43	45	50	97	184	627	361	263	229	85	49	2,092
26. Appendicitis and Typhy- litis.....	20	18	20	19	17	16	28	25	11	20	12	17	223
27. Hernia and intestinal ob- struction.....	17	14	23	11	13	21	22	17	11	15	20	14	198
28. Cirrhosis of the liver....	46	32	43	32	39	34	29	40	40	31	37	42	445
29. Bright's disease and acute nephritis.....	205	193	207	195	184	184	156	150	149	143	170	224	2,160
30. Diseases of women (not cancerous).....	8	9	11	14	11	10	9	6	6	11	15	10	120
31. Puerperal septicæmia....	9	13	10	8	6	4	1	9	2	2	6	4	74
32. Other puerperal diseases..	10	18	21	19	19	15	18	19	14	10	15	16	194
33. Congenital debility and malformations.....	110	97	122	104	131	109	109	106	119	116	90	98	1,311
34. Old age.....	27	23	26	19	27	22	25	23	12	21	25	24	274
35. Violent deaths (suicide excepted).....	93	63	81	86	96	102	182	85	83	71	81	78	1,101
a. Sunstroke.....	..	..	..	..	..	7	57	4	3	..	..	..	71
b. Other accidents.....	85	56	78	80	90	93	116	66	73	68	73	74	952
c. Homicides.....	8	7	3	6	6	2	9	15	7	3	8	4	78
36. Suicides.....	19	20	23	20	18	25	26	21	17	22	21	14	246
37. Other causes.....	319	309	308	354	283	290	289	316	279	258	263	342	3,610
38. Causes not known or ill- defined.....	2	8	3	1	2	..	2	3	1	..	..	..	22
Under 1 year.....	414	313	402	365	363	426	782	543	443	430	278	300	5,059
1 year, under 2 years.....	151	114	166	168	164	132	169	98	120	90	78	85	1,535
Total under 5 years.....	697	570	733	683	663	661	1,069	737	641	576	426	491	7,947
65 years and over.....	470	375	443	411	361	349	328	303	285	310	406	592	4,633
70 years and over.....	336	256	302	285	249	228	238	200	198	211	283	415	3,201
Males.....	1,308	1,074	1,279	1,180	1,094	1,102	1,295	1,065	968	943	989	1,206	13,503
Females.....	1,113	977	1,158	1,112	1,010	950	1,117	890	862	881	890	1,213	12,173
Colored.....	58	40	59	57	40	58	51	49	43	34	36	57	582
Chinese.....	1	1	..	2	1	..	3	..	1	..	3	..	12
Institutions.....	631	546	643	644	558	587	627	565	469	443	516	652	6,881
Tenements.....	1,100	954	1,120	1,053	937	923	1,152	879	856	850	801	1,054	11,679
Dwellings.....	644	532	632	551	544	476	559	466	467	493	510	675	6,549
Hotels, etc.....	14	10	4	6	12	9	10	3	5	7	10	14	104
Others.....	32	9	38	38	53	57	64	42	33	31	42	24	463

VITAL STATISTICS.

Causes of Death, 1910 and 1911—Continued.

BROOKLYN.

1911												
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
2,228	2,141	2,348	2,281	2,119	1,763	2,106	1,944	1,775	1,816	1,921	2,069	24,511
13	12	12	8	8	7	19	29	25	24	27	27	211
..
..	..	3	..	4	..	1	2	2	1	..	2	15
..	..	..	..	..	..	..	..	..	1	..	2	3
15	17	14	24	18	13	10	6	2	2	1	6	128
35	41	47	47	53	25	16	3	3	2	4	19	295
7	6	5	6	9	7	12	10	6	4	4	6	82
38	34	43	52	44	19	25	25	24	25	28	38	395
72	41	35	18	14	4	1	1	1	2	8	10	207
..
..
10	10	8	11	17	14	11	17	21	14	5	9	147
221	209	221	225	228	205	196	198	179	170	195	217	2,404
16	18	23	23	30	21	22	19	13	20	12	13	230
15	14	23	14	18	25	14	21	11	15	17	12	189
96	96	104	95	96	94	98	94	121	111	117	99	1,221
7	9	14	12	12	13	15	14	6	14	8	10	134
3	7	5	4	5	2	2	9	4	5	3	4	53
33	40	35	57	23	16	32	16	16	13	19	43	343
267	261	260	230	246	208	213	202	192	230	268	292	2,869
43	49	48	52	34	21	20	12	18	34	41	56	428
31	32	15	18	12	11	..	7	7	11	14	15	173
258	229	245	249	149	84	80	47	64	95	138	205	1,843
136	159	208	183	139	101	83	73	84	102	134	173	1,575
17	16	28	18	29	18	20	13	10	17	18	18	222
17	13	10	6	15	16	15	12	13	15	13	8	153
51	64	61	59	71	105	331	383	296	188	67	54	1,730
17	14	12	21	22	16	26	26	18	15	16	22	225
12	16	10	11	15	9	16	12	14	11	17	19	162
50	31	39	27	43	41	20	31	33	36	38	29	418
198	169	215	204	152	122	131	132	103	143	134	134	1,837
8	9	12	8	13	13	8	6	5	8	8	4	102
8	5	10	8	8	9	7	6	7	2	10	7	87
20	17	14	14	12	10	12	19	12	10	17	10	167
110	103	92	104	77	86	81	90	87	96	94	87	1,107
23	23	25	23	20	12	22	8	8	17	11	18	210
71	77	76	75	108	90	232	120	88	86	92	97	1,212
..	..	..	..	..	3	127	12	1	..	..	..	143
68	72	74	69	100	82	101	104	80	83	85	90	1,008
3	5	2	6	8	5	4	4	7	3	7	7	61
24	20	19	21	21	24	18	14	15	12	8	25	221
288	287	372	358	359	304	293	272	266	267	336	282	3,684
1	..	..	..	..	..	6	4	5	3	2	1	22
320	352	362	372	300	328	506	545	448	415	326	354	4,628
89	88	123	145	114	95	109	115	100	86	83	104	1,251
499	546	610	656	536	501	695	736	620	555	475	534	6,963
502	456	478	446	399	268	359	281	282	345	398	421	4,635
353	311	329	308	290	184	253	193	190	248	272	287	3,218
1,164	1,150	1,237	1,218	1,108	943	1,144	1,044	946	917	1,015	1,097	12,983
1,064	991	1,111	1,063	1,011	820	962	900	829	899	906	972	11,528
49	60	42	46	46	66	62	51	35	41	49	47	594
..	..	1	..	1	1	..	1	..	..	1	..	5
571	529	625	572	584	477	584	563	530	481	507	565	6,598
972	920	1,049	1,042	927	800	948	888	789	819	842	888	10,884
646	647	639	619	545	436	510	437	409	487	526	568	6,409
12	14	6	14	13	5	10	9	9	7	6	11	116
27	31	29	34	50	45	54	47	38	22	40	37	454

VITAL STATISTICS.

Mortality from the Principal
BOROUGH OF

Cause of Death.	1910												Total.
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Total, all causes.....	362	272	330	310	307	303	452	377	318	276	310	354	3,971
1. Typhoid fever.....	2	1	1	3	1	1	5	6	5	4	7	3	39
2. Typhus fever.....	..	1	..	1	..	..	..	..	..	1	..	..	3
3. Malarial fevers.....	..	1	..	..	..	..	..	..	..	1	..	..	3
4. Small pox.....	..	..	..	..	..	..	..	..	..	1	..	..	30
5. Measles.....	1	5	5	1	7	1	5	2	..	1	1	1	33
6. Scarlet fever.....	4	7	8	7	3	1	2	..	1	..	..	..	21
7. Whooping cough.....	5	1	2	4	2	4	1	2	..	..	..	..	104
8. Diphtheria and Croup.....	15	9	5	15	8	7	7	10	7	6	8	7	24
9. Influenza.....	1	4	7	4	..	1	..	..	..	1	1	5	..
10. Asiatic cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..
11. Cholera nostras.....	..	..	..	..	..	..	..	..	..	..	..	..	..
12. Other Epidemic Diseases.....	..	..	2	1	1	1	2	3	2	..	1	..	13
13. Tuberculosis Pulmonalis.....	35	25	27	25	33	30	43	24	37	21	35	23	358
14. Tuberculous meningitis.....	1	..	4	1	3	2	4	1	1	1	2	4	24
15. Other forms of Tuberculosis.....	4	2	2	1	3	1	2	1	4	3	..	1	24
16. Cancer, malignant tumors.....	16	18	15	20	14	14	12	12	21	12	20	11	185
17. Meningitis, simple.....	2	13	4	..	3	3	1	5	2	5	1	2	31
17a. (Of which) cerebro-spinal meningitis.....	1	..	..	..	2	2	1	1	1	2	1	1	12
18. Apoplexy and softening of brain.....	4	2	5	4	4	5	1	2	7	7	6	8	55
19. Organic heart disease.....	47	28	37	43	41	36	30	19	23	31	27	43	405
20. Acute bronchitis.....	9	6	4	7	4	5	2	2	2	8	5	5	59
21. Chronic bronchitis.....	1	1	1	..	1	1	1	1	1	..	..	1	9
22. Pneumonia (excluding broncho-pneumonia).....	41	30	38	31	26	16	9	18	4	17	22	53	305
22a. Broncho-pneumonia.....	28	20	24	25	17	7	10	10	10	10	22	38	221
23. Other respiratory diseases.....	3	1	..	4	2	4	3	4	..	..	4	2	27
24. Diseases of stomach (cancer excepted).....	5	2	1	1	1	2	2	1	2	2	2	4	25
25. Diarrhoeal diseases (under 5 years).....	5	5	5	5	7	18	128	83	42	33	20	8	359
26. Appendicitis and Typhilitis.....	2	..	..	4	..	..	1	3	2	3	2	3	20
27. Hernia and intestinal obstruction.....	1	1	2	3	4	4	3	2	4	..	1	2	27
28. Cirrhosis of the liver.....	4	3	3	4	3	7	4	2	5	2	3	7	47
29. Bright's disease and acute nephritis.....	18	21	39	17	25	33	22	26	32	24	29	31	317
30. Diseases of women (not cancerous).....	..	..	1	..	2	..	1	..	..	1	1	..	6
31. Puerperal septicaemia.....	3	..	2	1	..	2	..	..	1	..	..	2	11
32. Other puerperal diseases.....	4	3	2	1	..	1	1	3	2	..	2	1	20
33. Congenital debility and malformations.....	14	20	19	12	19	28	25	23	30	15	26	23	254
34. Old age.....	8	3	7	10	8	6	4	7	5	4	6	5	73
35. Violent deaths (suicide excepted).....	21	9	15	11	22	18	46	38	20	19	11	15	245
a. Sunstroke.....	..	..	..	..	..	3	4	2	1	..	..	..	10
b. Other accidents.....	21	9	14	10	21	13	41	35	15	17	11	14	221
c. Homicides.....	..	..	1	1	1	2	1	1	4	2	..	1	14
36. Suicides.....	3	1	4	3	8	4	3	3	2	2	5	2	40
37. Other causes.....	53	40	35	39	34	37	63	48	39	38	36	43	505
38. Causes not known or ill-defined.....	2	..	4	2	1	3	9	16	5	5	4	1	52
Under 1 year.....	56	52	56	38	50	61	163	122	80	72	66	53	869
1 year, under 2 years.....	18	14	13	17	15	21	23	22	21	12	14	11	201
Total under 5 years.....	95	82	88	77	79	94	204	161	110	94	93	85	1,262
65 years and over.....	79	55	65	59	53	56	64	57	51	53	54	80	726
70 years and over.....	53	32	46	38	35	36	44	37	41	34	42	58	490
Males.....	202	147	168	165	181	159	258	210	168	153	166	201	2,178
Females.....	160	125	162	145	126	144	194	167	150	123	144	153	1,793
Colored.....	9	4	..	3	5	5	13	10	14	3	5	4	84
Chinese.....	..	..	..	..	..	..	1	1	..	..	..	..	1
Institutions.....	52	29	45	48	52	39	62	59	41	42	42	55	566
Tenements.....	97	81	90	71	60	75	140	90	81	72	88	86	1,031
Dwellings.....	200	150	183	179	182	172	218	196	177	153	168	197	2,175
Hotels, etc.....	1	6	3	3	..	1	6	14	7	3	3	5	52
Others.....	12	6	9	9	13	16	26	18	12	6	9	11	147

VITAL STATISTICS.

Causes of Death, 1910 and 1911—Continued.

QUEENS.

1911												
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
367	333	328	370	327	287	414	383	320	293	272	304	3,998
I	I	I	I	I	..	2	2	5	6	2	6	28
..
I	..	I	..	I	..	..	..	..	..	..	..	3
..
..	..	..	..	I	3	4	2	..	..	..	..	10
I	..	5	6	4	2	I	2	I	..	I	..	23
I	2	2	2	I	3	6	6	I	..	2	I	27
3	6	4	4	5	10	4	5	4	6	3	9	63
15	2	5	I	3	..	..	..	..	..	I	2	29
..
..
..	5	..	I	..	I	..	..	..	I	I	..	9
32	43	23	32	33	28	23	31	34	27	28	27	361
2	2	5	I	2	2	4	5	I	I	I	5	31
..	..	I	4	3	I	5	3	I	3	I	..	22
10	16	12	17	15	17	15	14	15	20	14	23	188
3	5	I	I	I	I	5	2	5	2	2	I	29
2	4	..	I	I	I	2	2	5	..	I	I	20
5	I	3	I	..	5	7	2	I	3	4	5	37
43	44	49	43	42	28	38	30	37	24	38	24	440
13	7	5	5	3	..	2	I	2	6	4	7	55
2	..	..	3	I	2	I	..	..	..	..	I	10
32	34	30	48	22	7	13	8	4	15	15	32	260
23	26	26	27	14	14	9	12	15	12	11	16	205
4	2	I	4	6	3	4	3	..	3	..	..	30
5	I	I	5	I	2	4	2	5	I	I	2	30
6	5	13	7	8	14	75	79	48	22	10	10	297
4	I	2	2	3	5	6	5	2	2	7	3	42
I	2	..	3	3	3	3	2	I	2	2	5	27
4	6	5	3	7	8	7	8	9	5	11	9	82
40	34	36	36	39	27	22	26	24	18	25	18	345
I	I	I	2	..	3	..	2	I	4	I	..	16
I	..	4	I	I	I	I	2	I	..	I	2	15
..	3	I	2	2	9	4	2	I	..	..	3	27
22	20	26	27	20	21	21	22	17	12	14	26	248
10	6	5	7	5	3	5	..	2	4	4	7	58
21	10	8	17	18	18	65	26	19	26	13	11	252
..	..	..	..	..	I	24	..	..	..	..	..	25
19	10	8	16	18	15	38	22	19	24	12	11	212
2	..	..	I	..	2	3	4	..	2	I	..	15
6	3	3	3	7	5	4	8	3	7	5	6	60
54	44	48	52	53	41	50	61	53	56	48	43	603
I	I	I	I	2	I	4	10	8	5	2	..	36
61	54	63	61	51	53	117	122	83	49	53	63	830
5	7	10	14	5	9	20	22	9	16	4	11	132
73	75	85	90	76	77	152	159	105	72	64	83	1,111
90	67	81	78	80	44	61	52	57	46	56	52	764
68	47	63	61	50	31	37	34	35	26	41	35	528
210	189	161	206	173	144	242	201	158	175	139	155	2,153
157	144	167	164	154	143	172	182	162	118	133	149	1,845
11	7	11	6	3	11	6	12	12	5	9	10	103
..
56	44	42	62	55	54	80	65	38	36	48	60	659
82	89	85	81	80	69	106	99	92	13	5	13	981
212	193	190	206	181	145	188	199	174	61	55	63	2,154
5	4	3	2	2	4	9	3	5	3	I	..	45
12	3	8	19	9	15	31	17	11	7	4	..	159

VITAL STATISTICS.

Mortality from the Principal

BOROUGH OF

Cause of Death.	1910												Total.
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Total, all causes.....	122	106	133	122	109	112	163	153	98	116	102	131	1,467
1. Typhoid fever.....	..	..	I	..	I	I	I	2	2	2	I	..	11
2. Typhus fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Malarial fevers.....	..	..	..	..	..	..	..	..	..	..	..	..	..
4. Small pox.....	..	..	..	..	..	..	..	..	..	..	..	..	..
5. Measles.....	..	..	2	I	I	I	I	..	..	..	..	..	6
6. Scarlet fever.....	I	I	3	I	3	..	I	I	..	..	..	..	12
7. Whooping cough.....	..	..	..	..	I	I	I	..	..	..	..	I	4
8. Diphtheria and croup...	3	5	2	..	I	..	I	3	..	2	I	I	19
9. Influenza.....	..	2	I	2	2	..	..	..	..	..	I	2	10
10. Asiatic cholera.....	..	..	..	..	..	..	..	..	..	..	..	..	..
11. Cholera nostras.....	..	..	..	..	..	..	..	..	..	..	..	..	..
12. Other epidemic diseases.	I	..	I	..	..	2	..	I	..	..	I	..	6
13. Tuberculous pulmonalis...	12	12	17	13	10	13	19	9	11	7	8	17	148
14. Tuberculous meningitis...	..	2	..	I	..	..	I	..	..	3	3	..	10
15. Other forms of Tubercu- losis.....	..	..	I	2	I	..	4	..	2	I	..	..	11
16. Cancer, malignant tumors	3	7	3	7	6	8	4	8	6	5	11	7	75
17. Meningitis, simple.....	I	..	..	3	..	I	2	..	..	I	..	..	8
17a. (Of which) cerebro-spinal meningitis.....	..	..	..	2	..	..	2	..	..	..	..	..	4
18. Apoplexy and softening of brain.....	2	2	3	I	3	6	2	4	I	5	3	4	36
19. Organic heart disease.....	12	15	10	14	10	14	7	8	11	12	14	15	148
20. Acute bronchitis.....	3	I	I	..	2	..	..	..	..	..	..	..	7
21. Chronic bronchitis.....	I	..	2	..	I	..	I	..	..	..	..	..	7
22. Pneumonia (excluding broncho-pneumonia)...	19	15	12	7	10	6	2	3	3	6	6	17	106
22a. Broncho-pneumonia.....	10	6	7	10	3	2	7	9	4	5	6	8	77
23. Other respiratory dis- eases.....	4	I	2	..	..	..	3	2	I	..	..	2	15
24. Diseases of stomach (can- cer excepted).....	..	2	I	3	4	2	..	3	2	I	2	I	21
25. Diarrhoeal diseases (un- der 5 years).....	..	2	2	3	I	4	40	33	5	7	2	5	104
26. Appendicitis and Typhy- litis.....	I	3	I	..	..	2	2	2	I	I	..	..	13
27. Hernia and intestinal ob- struction.....	..	..	I	..	2	..	..	I	..	3	I	I	9
28. Cirrhosis of the liver.....	I	..	2	5	4	2	..	6	3	I	2	2	28
29. Bright's disease and acute nephritis.....	9	12	10	13	10	5	13	12	8	14	9	8	123
30. Diseases of women (not cancerous).....	I	..	..	I	..	..	..	..	..	..	..	..	2
31. Puerperal septicaemia.....	..	..	I	..	..	..	..	..	..	..	..	..	I
32. Other puerperal diseases.	..	..	2	2	I	2	I	I	I	3	2	..	15
33. Congenital debility and malformations.....	9	2	11	3	10	6	7	11	9	11	5	6	90
34. Old age.....	2	I	3	I	2	3	2	I	3	4	5	6	33
35. Violent deaths (suicide excepted).....	4	2	5	9	8	9	13	16	8	3	6	3	86
a. Sunstroke.....	..	..	..	..	..	I	2	..	..	..	..	..	3
b. Other accidents.....	3	2	4	9	8	8	11	16	8	3	6	3	81
c. Homicides.....	I	..	I	..	..	..	..	..	..	..	..	..	2
36. Suicides.....	I	I	3	2	..	..	2	I	..	2	2	2	16
37. Other causes.....	20	11	14	16	12	18	15	9	13	15	11	20	174
38. Causes not known or ill- defined.....	2	I	3	2	..	4	11	6	4	2	..	I	36
Under 1 year.....	20	11	23	10	16	16	54	56	21	28	12	15	282
1 year, under 2 years.....	6	3	7	4	5	I	13	9	2	I	4	6	61
Total under 5 years.....	32	16	34	18	24	20	78	68	25	29	19	22	385
65 years and over.....	32	21	43	31	27	37	23	30	15	32	32	43	366
70 years and over.....	26	18	34	22	20	26	13	21	9	22	20	30	261
Males.....	79	58	79	79	70	69	105	90	57	73	54	83	896
Females.....	43	48	54	43	39	43	58	63	41	43	48	48	571
Colored.....	4	4	3	I	I	2	3	4	I	..	..	6	33
Chinese.....	..	..	..	..	..	..	..	..	..	..	..	..	..
Institutions.....	44	29	50	51	44	49	70	70	32	39	42	42	562
Tenements.....	7	4	12	7	10	10	12	14	5	12	5	9	107
Dwellings.....	69	67	67	55	51	49	65	53	51	59	53	73	712
Hotels, etc.....	I	3	2	2	2	I	6	I	2	I	I	2	24
Others.....	I	3	2	7	2	3	10	15	8	5	I	5	62

VITAL STATISTICS.

Causes of Death, 1910 and 1911—Continued.

RICHMOND.

1911													Total.
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
173	122	114	115	129	118	180	147	123	120	113	136		1,590
..	..	I	..	I	I	..	2	2	3	I	..	..	11
..
..	..	..	..	..	..	..	..	..	..	..	..	..	I
..
..	..	I	..	4	18	6	..	..	..	..	..	..	20
..	..	..	I	..	5	2	..	..	..	..	..	..	8
3	I	2	2	I	..	2	7	..	I	..	..	..	19
2	I	I	..	..	I	3	2	2	4	5	I	..	22
3	2	2	..	4	..	..	..	..	I	I	I	..	14
..
..
..	..	I	..	..	..	..	..	2	..	I	..	..	6
17	16	16	13	15	12	14	13	15	10	11	19	..	171
4	..	I	I	..	..	I	..	I	2	3	..	..	13
I	I	I	..	..	I	I	..	..	..	I	3	..	9
5	7	8	7	8	5	10	8	5	7	10	8	..	88
..	..	4	I	2	I	I	3	I	I	..	..	..	14
..	..	..	I	..	..	..	I	I	..	..	..	..	3
4	3	3	I	..	I	4	I	3	2	I	5	..	28
20	13	7	12	16	11	19	8	10	16	12	19	..	163
I	..	..	..	..	..	..	..	I	..	..	2	..	4
..	I	I	..	..	..	..	..	..	..	..	..	..	2
20	11	15	15	8	4	3	3	3	4	8	16	..	110
17	5	9	5	3	I	6	6	5	..	9	8	..	74
3	I	..	..	..	..	I	3	..	..	2	2	..	12
2	2	I	2	2	I	I	2	I	5	I	3	..	23
I	4	3	2	I	7	25	25	28	9	3	3	..	111
I	..	..	I	I	I	4	3	I	I	..	..	..	13
2	I	I	I	..	I	I	..	I	..	..	2	..	10
I	2	3	2	2	2	4	3	..	4	I	3	..	27
26	16	9	15	14	9	9	9	12	8	7	17	..	151
..	..	..	..	..	..	..	I	..	..	..	..	..	I
2	I	..	I	I	..	2	..	..	..	..	I	..	8
..	I	I	I	..	I	3	I	I	I	..	..	..	10
6	4	2	5	7	4	3	9	5	6	7	4	..	62
4	I	2	3	I	..	..	..	..	..	I	I	..	13
6	4	..	6	6	10	32	4	7	9	7	2	..	93
..	..	..	..	..	..	12	..	..	..	..	..	..	12
6	3	..	6	6	10	19	4	6	7	4	2	..	73
..	I	..	..	..	..	I	..	I	2	3	..	..	8
I	..	I	I	I	2	..	..	I	I	3	..	..	11
19	24	18	16	29	19	23	31	18	21	17	16	..	251
2	..	..	I	I	..	..	I	..	2	I	..	..	8
27	14	15	13	18	16	30	50	38	24	18	14	..	277
3	3	5	4	4	4	11	5	3	7	2	2	..	53
34	18	22	20	23	39	57	59	40	30	26	19	..	399
51	40	31	44	44	25	39	33	21	28	21	45	..	422
40	27	23	31	30	17	32	22	15	19	12	34	..	302
97	69	68	80	83	71	102	79	68	74	69	75	..	932
76	53	40	35	40	47	78	68	58	40	44	61	..	658
3	6	I	I	2	2	2	2	..	3	2	5	..	29
..	..	..	..	..	..	I	..	..	..	..	..	..	I
60	47	44	46	59	54	71	67	59	36	48	60	..	651
15	12	5	6	4	6	18	14	8	13	5	13	..	119
92	61	63	59	59	49	70	57	52	61	55	63	..	741
3	I	I	I	2	I	5	6	..	3	I	..	..	24
3	I	I	3	5	8	16	3	4	7	4	..	..	55

VITAL STATISTICS.

Mortality from the Principal
CITY OF

Cause of Death.	1910												Total.
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Total, all causes.....	7,090	6,270	7,300	6,916	6,323	5,946	7,060	6,052	5,674	5,597	5,566	6,948	76,742
1. Typhoid fever.....	37	27	32	24	23	37	53	58	71	78	66	52	558
2. Typhus fever.....	1	3	1	3	1	1	3	5	3	3	2	1	27
3. Malarial fevers.....	1	3	1	3	1	1	3	5	3	3	2	1	27
4. Small-pox.....	1	3	1	3	1	1	3	5	3	3	2	1	27
5. Measles.....	77	77	129	135	107	85	60	38	28	9	19	21	785
6. Scarlet fever.....	150	150	159	148	116	83	39	11	16	12	24	45	953
7. Whooping cough.....	17	13	17	29	28	25	46	41	21	17	18	22	294
8. Diphtheria and croup.....	202	183	212	221	186	152	116	92	55	76	112	108	1,715
9. Influenza.....	47	49	75	52	24	13	5	3	1	7	14	76	366
10. Asiatic cholera.....	1	1	1	1	1	1	1	1	1	1	1	1	11
11. Cholera nostras.....	1	1	1	1	1	1	1	1	1	1	1	1	11
12. Other epidemic diseases.....	42	53	61	35	41	38	39	44	36	25	27	26	467
13. Tuberculosis pulmonalis.....	767	707	859	809	755	657	728	665	674	666	662	743	8,692
14. Tuberculous meningitis.....	76	69	67	64	88	79	77	54	61	58	55	53	801
15. Other forms of tuberculosis.....	48	42	56	64	53	43	57	48	48	43	37	42	581
16. Cancer, malignant tumors.....	298	301	330	311	311	304	291	316	319	323	308	308	3,710
17. Meningitis, simple.....	51	52	62	52	58	51	52	41	45	48	36	60	608
17a. (Of which) cerebro-spinal meningitis.....	26	23	26	30	30	27	23	19	21	25	15	29	294
18. Apoplexy and softening of brain.....	102	83	94	66	98	74	66	44	74	89	87	102	979
19. Organic heart disease.....	679	629	603	576	573	557	460	391	463	503	608	828	6,870
20. Acute bronchitis.....	125	92	96	95	57	65	45	48	60	52	84	109	928
21. Chronic bronchitis.....	48	39	37	58	37	17	27	11	14	18	35	66	407
22. Pneumonia (excluding broncho-pneumonia).....	708	527	736	646	470	307	199	176	197	309	430	835	5,540
22a. Broncho-pneumonia.....	624	515	597	538	408	334	286	241	288	287	332	529	4,979
23. Other respiratory diseases.....	84	59	87	96	74	63	55	47	64	41	65	85	820
24. Diseases of stomach (cancer excepted).....	40	45	54	41	46	32	25	41	40	51	35	51	501
25. Diarrhoeal diseases (under 5 years).....	150	129	162	210	248	463	1,632	1,175	791	572	231	155	5,918
26. Appendicitis and Typhlitis.....	54	48	57	56	43	56	80	58	39	59	36	53	639
27. Hernia and intestinal obstruction.....	46	48	56	44	39	50	53	58	46	43	44	60	587
28. Cirrhosis of the liver.....	128	99	89	91	86	93	74	102	100	76	80	122	1,140
29. Bright's disease and acute nephritis.....	529	498	549	498	483	460	414	412	380	388	469	558	5,638
30. Diseases of women (not cancerous).....	25	29	23	36	40	33	35	24	21	28	28	27	349
31. Puerperal septicæmia.....	29	31	36	33	20	24	11	20	13	9	13	16	255
32. Other puerperal diseases.....	43	46	52	46	47	43	49	36	37	34	32	41	506
33. Congenital debility and malformations.....	389	330	424	366	401	348	319	360	351	370	292	363	4,313
34. Old age.....	68	60	65	48	74	60	46	50	39	52	63	58	683
35. Violent deaths (suicide excepted).....	326	222	281	299	313	323	534	331	284	308	310	282	3,813
a. Sunstroke.....	1	1	1	1	1	1	1	1	1	1	1	1	161
b. Other accidents.....	296	203	262	276	293	273	389	286	253	290	282	263	3,366
c. Homicides.....	30	19	19	23	20	25	30	23	22	18	28	19	286
36. Suicides.....	69	59	66	65	79	92	85	59	67	64	61	59	825
37. Other causes.....	976	915	1,030	1,030	850	815	886	836	839	807	819	968	10,771
38. Causes not known or ill-defined.....	35	41	46	39	45	67	113	116	89	72	32	24	719
Under 1 year.....	1,261	1,081	1,320	1,228	1,160	1,297	2,253	1,840	1,481	1,344	903	1,047	16,215
1 year, under 2 years.....	422	366	446	412	417	369	502	375	336	241	217	248	4,351
Total under 5 years.....	2,042	1,827	2,173	2,063	1,940	1,971	3,079	2,468	2,029	1,762	1,345	1,569	24,268
65 years and over.....	1,254	1,006	1,239	1,146	1,005	913	858	760	813	870	1,077	1,459	12,430
70 years and over.....	883	676	843	793	694	579	551	504	547	566	734	1,046	8,456
Males.....	3,883	3,313	3,980	3,721	3,499	3,289	3,852	3,298	3,090	3,023	3,058	3,743	41,749
Females.....	3,207	2,957	3,320	3,195	2,824	2,657	3,208	2,754	2,584	2,574	2,508	3,205	34,993
Colored.....	208	178	214	184	175	200	213	190	200	178	168	195	2,303
Chinese.....	6	2	9	16	14	6	13	11	5	4	10	3	99
Institutions.....	2,427	2,211	2,695	2,576	2,341	2,361	2,595	2,288	2,063	2,060	1,978	2,424	28,019
Tenements.....	3,244	2,917	3,248	3,056	2,758	2,484	3,148	2,673	2,540	2,420	2,420	3,047	33,957
Dwellings.....	1,211	1,008	1,181	1,081	1,012	901	1,052	891	899	917	965	1,265	12,383
Hotels, etc.....	83	60	56	57	53	45	52	43	38	51	67	90	695
Others.....	125	74	120	146	159	155	213	157	134	149	136	122	1,690

VITAL STATISTICS.

Causes of Death, 1910 and 1911—Continued.

NEW YORK.

1911													Total.
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	
6,961	6,470	7,446	7,184	6,677	5,368	6,648	6,039	5,361	5,495	5,620	6,154	75,423	
27	21	24	20	24	32	56	88	81	63	57	52	545	
..	
I	..	6	I	9	..	2	2	5	7	3	2	38	
..	
34	57	72	77	116	113	76	41	18	11	10	34	659	
65	85	126	143	131	74	40	11	11	7	15	33	741	
28	31	31	37	40	34	46	49	35	30	8	15	384	
134	128	149	151	161	91	80	76	49	78	84	100	1,281	
152	101	82	50	35	6	2	I	5	10	17	25	486	
..	
..	
50	52	53	68	71	51	35	43	46	32	24	22	547	
813	782	824	836	812	679	650	693	658	658	672	713	8,790	
68	72	84	80	103	94	81	67	60	60	50	51	870	
47	54	53	51	61	51	50	55	37	41	42	48	590	
311	275	319	302	330	292	316	345	332	376	337	338	3,873	
50	47	76	44	51	47	53	53	37	39	29	30	556	
19	26	23	19	19	13	8	24	20	13	10	9	203	
119	93	80	106	63	62	103	48	54	63	66	103	960	
832	718	738	720	684	528	597	527	532	612	708	769	7,965	
98	95	96	97	77	44	40	32	37	59	87	115	877	
41	44	31	28	26	25	8	15	14	16	22	27	297	
749	632	735	725	457	239	215	151	167	280	367	536	5,253	
490	486	640	589	483	313	251	246	236	287	348	433	4,802	
76	64	87	80	86	50	60	42	30	48	55	57	735	
51	43	39	35	38	38	41	35	38	45	38	38	479	
162	186	276	243	264	273	807	1,034	701	408	174	168	4,696	
48	48	44	61	53	54	78	69	55	31	42	50	633	
55	56	46	37	48	41	47	46	41	31	51	45	544	
102	91	127	96	102	93	73	93	95	102	114	100	1,188	
559	485	559	535	454	342	379	339	330	364	412	449	5,207	
25	26	36	35	34	42	32	24	9	32	29	11	335	
28	25	27	27	31	24	17	25	20	10	17	20	271	
42	39	45	37	47	42	37	43	32	31	36	36	467	
357	327	317	319	270	269	311	331	313	318	316	361	3,809	
71	44	64	54	48	24	51	24	28	40	29	48	525	
269	250	390	279	362	324	940	354	315	298	296	318	4,395	
..	..	..	..	..	6	535	18	1	..	1	..	561
251	235	368	264	338	298	380	309	292	273	265	280	3,553	
18	15	22	15	24	20	25	27	22	25	30	38	281	
68	60	72	76	74	69	57	57	46	67	61	81	788	
912	927	1,071	1,116	1,009	877	924	882	806	845	967	915	11,251	
27	26	27	29	23	31	93	98	88	95	37	9	583	
1,141	1,154	1,377	1,269	1,180	1,039	1,531	1,731	1,335	1,189	1,003	1,104	15,053	
256	293	419	474	393	311	352	345	280	260	210	285	3,878	
1,659	1,732	2,168	2,137	1,957	1,648	2,187	2,309	1,827	1,625	1,393	1,600	22,242	
1,367	1,183	1,272	1,263	1,128	741	1,057	783	782	913	1,044	1,163	12,696	
947	792	863	860	767	499	723	538	520	598	699	774	8,580	
3,813	3,585	3,960	3,944	3,618	2,909	3,725	3,253	2,930	2,973	3,036	3,360	41,106	
3,148	2,885	3,486	3,240	3,059	2,459	2,923	2,786	2,431	2,522	2,584	2,794	34,317	
224	200	215	217	214	197	185	189	165	186	178	200	2,370	
10	4	3	3	8	8	5	6	9	5	6	6	73	
2,518	2,332	2,711	2,608	2,537	2,080	2,582	2,365	2,086	2,031	2,065	2,297	28,212	
2,997	2,843	3,263	3,195	2,874	2,282	2,788	2,597	2,266	2,356	2,374	2,646	32,481	
1,270	1,143	1,174	1,183	1,036	805	1,003	890	816	917	951	1,019	12,207	
71	64	75	56	57	34	52	37	48	48	68	70	680	
105	88	223	142	173	167	223	150	145	143	162	122	1,843	

VITAL STATISTICS.

Actual Number of Deaths from Infections and Certain

BOROUGH OF

Wards.	Area in Acres	Population U. S. Census, 1910	Number of Persons to the Acre.	Typhoid Fever		Malaria Fever		Small Pox		Measles		Scarlet Fever		Whooping Cough	
				1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
First.....	154.0	9,750	63.0	3	1	..	..	..	..	2	12	9	3	2	2
Second.....	81.0	933	11.5	..	2	..	..	..	..	..	..	..	1	..	..
Third.....	95.0	1,915	20.2	1	..	..	..	..	..	1	2	1	..	..	..
Fourth.....	83.0	21,336	257.1	4	4	..	..	..	..	5	15	5	3	3	3
Fifth.....	168.0	5,666	33.7	3	..	..	2	..	..	..	4	..	2	..	1
Sixth.....	86.0	19,670	228.7	2	3	..	..	..	..	1	16	4	2	1	4
Seventh.....	198.0	102,101	515.6	10	5	..	..	1	..	7	13	24	14	11	5
Eighth.....	183.0	33,182	181.4	4	5	1	..	..	..	7	23	5	4	4	7
Ninth.....	322.0	64,900	201.6	18	9	..	..	..	..	10	10	15	11	2	5
Tenth.....	110.0	66,430	604.0	1	5	..	..	..	..	8	7	13	13	2	2
Eleventh.....	196.0	136,548	696.7	4	11	..	..	1	..	14	10	32	22	6	11
Twelfth.....	5,504.0	806,648	146.0	88	69	3	7	1	..	90	69	107	81	43	66
Thirteenth.....	107.0	64,651	604.3	3	3	..	..	..	..	8	9	21	9	3	2
Fourteenth.....	96.0	38,321	399.3	5	4	..	1	..	..	13	7	2	..	2	2
Fifteenth.....	198.0	30,584	154.5	..	3	..	..	..	..	3	8	2	1	1	1
Sixteenth.....	349.0	55,926	160.2	9	7	..	..	..	..	1	5	12	6	3	5
Seventeenth.....	331.0	172,334	526.9	9	8	..	..	1	..	20	11	26	32	11	10
Eighth.....	450.0	62,821	139.6	10	10	..	1	..	..	21	13	50	48	4	13
Nineteenth.....	1,481.0	292,950	197.7	34	43	1	4	..	..	27	55	62	56	27	29
Twentieth.....	444.0	73,308	165.1	6	13	1	1	..	..	11	10	13	13	8	16
Twenty-first.....	411.0	62,345	151.7	14	9	..	..	..	..	2	8	11	14	10	14
Twenty-second.....	1,529.0	209,154	136.8	41	43	1	1	..	..	20	14	34	25	11	17
Total.....	12,576.0	2,331,491	185.4	269	257	7	17	4	..	271	321	448	360	154	215

BOROUGH OF

Twenty-third.....	4,267.0	268,880	63.0	26	2	2	..	..	..	36	148	53	35	16	25
Twenty-fourth.....	22,255.8	162,062	7.3	15	..	2	..	..	..	20	23	22	20	7	16
Total.....	26,522.8	430,942	16.2	41	2	4	..	..	..	56	171	75	55	23	41

BOROUGH OF

First.....	233.0	21,851	93.8	4	2	..	1	..	..	9	3	1	5	..	..
Second.....	97.7	6,894	70.6	1	2	..	..	..	..	2	1	2	2	..	1
Third.....	161.4	15,910	98.6	3	3	..	..	..	..	4	..	3	3	..	..
Fourth.....	111.3	10,477	94.1	1	2	..	..	..	..	11	3	1	..	..	1
Fifth.....	119.4	19,401	162.5	1	3	..	..	..	..	13	3	17	33	4	2
Sixth.....	302.9	46,437	153.3	17	17	2	4	..	..	15	12	5	4	4	4
Seventh.....	458.5	44,937	96.0	4	9	..	..	..	..	6	1	4	9	..	3
Eighth.....	1,843.2	82,687	44.9	10	19	1	1	..	..	15	12	24	12	9	7
Ninth.....	623.6	50,501	81.0	8	7	..	3	..	..	8	3	11	6	2	4
Tenth.....	318.7	41,238	129.4	13	3	2	..	..	..	8	3	6	6	2	4
Eleventh.....	252.6	21,659	85.7	5	6	..	..	..	..	6	1	7	2	2	1
Twelfth.....	663.1	29,262	44.1	6	4	..	..	..	..	5	4	4	2	2	2
Thirteenth.....	230.3	30,091	130.7	3	2	..	..	..	..	1	1	7	3	..	2
Fourteenth.....	282.6	33,329	117.9	6	4	1	1	..	..	9	4	16	6	4	5
Fifteenth.....	244.8	35,887	146.6	7	4	..	..	..	..	3	..	10	8	2	1
Sixteenth.....	244.8	68,244	278.7	7	3	..	..	..	..	11	2	19	15	1	1
Seventeenth.....	823.3	70,346	85.5	4	3	..	..	..	1	8	1	23	19	1	1
Eighth.....	873.0	35,708	40.9	3	2	1	..	..	..	4	5	12	15	..	2
Nineteenth.....	413.8	44,860	108.4	3	5	..	..	..	..	6	..	4	7	4	4
Twentieth.....	461.4	27,463	59.5	5	7	..	..	..	..	4	..	5	4	1	1
Twenty-first.....	483.2	78,741	163.0	5	6	..	..	..	..	9	2	13	12	2	1
Twenty-second.....	1,361.6	81,283	59.7	9	10	1	1	..	..	7	12	13	13	8	3
Twenty-third.....	736.0	65,561	89.1	5	10	..	..	..	..	8	3	6	6	3	1
Twenty-fourth.....	1,198.5	80,466	67.2	12	13	1	..	..	..	10	..	13	7	1	4
Twenty-fifth.....	567.8	63,597	112.0	12	6	2	..	..	..	4	7	6	5	3	..
Twenty-sixth.....	3,590.2	177,963	49.5	8	10	..	1	..	1	37	12	68	36	10	13
Twenty-seventh.....	400.7	76,000	189.6	7	13	..	1	..	..	6	10	14	12	6	3
Twenty-eighth.....	884.4	77,451	87.6	7	13	..	1	..	..	14	2	20	11	4	2
Twenty-ninth.....	3,800.0	72,351	19.0	7	14	1	..	1	1	162	7	23	19	5	3
Thirtieth.....	5,404.1	76,406	14.1	9	6	..	1	..	..	14	14	19	8	9	3
Thirty-first.....	6,312.3	30,988	4.9	4	2	1	..	..	..	1	2	5	1	1	3
Thirty-second.....	5,479.5	17,419	3.2	2	1	..	..	..	..	2	1	2	3	2	..
Total.....	38,977.8	1,634,508	41.9	198	211	13	15	1	3	422	128	385	295	92	82

VITAL STATISTICS.

Other Preventable Diseases, by Wards, 1910 and 1911.

MANHATTAN.

Diphtheria and Croup		Pulmonary Tuberculosis		Cerebro-Spinal Meningitis		Pneumonia		Broncho Pneumonia		Diarrhoeal Diseases		All Causes		Deaths of Children Under 5 Years	
1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
19	2	45	37	1	2	28	29	27	23	39	19	349	327	116	83
1	..	1	7	..	..	1	3	..	2	..	1	21	43	3	5
2	2	11	2	..	..	4	7	3	3	8	1	64	62	13	14
13	10	84	96	3	5	46	67	62	82	59	55	579	621	233	277
1	1	20	22	1	1	9	11	11	7	10	10	189	167	27	32
6	9	87	104	2	2	35	40	39	52	37	42	466	522	148	207
31	27	102	91	12	7	90	84	124	80	112	87	1,307	1,230	542	468
16	20	87	82	6	3	39	60	62	80	50	73	610	745	238	308
42	20	195	180	6	7	111	107	86	81	108	93	1,502	1,473	371	332
15	28	78	103	5	6	60	48	65	73	61	58	737	823	261	295
33	27	84	101	9	9	83	81	97	99	128	83	1,176	1,180	554	494
236	162	927	1,050	47	24	806	820	740	760	776	560	11,206	11,409	3,271	3,032
22	16	46	33	3	1	62	42	47	53	47	57	596	652	264	260
18	19	64	57	4	7	69	66	103	94	80	63	640	643	364	355
10	7	46	52	3	1	26	19	28	30	32	22	338	396	102	105
20	12	133	143	1	1	61	61	67	65	69	46	1,069	1,026	252	173
79	57	206	197	14	7	180	131	250	165	196	131	2,340	2,043	1,028	793
61	55	152	173	8	3	94	67	94	84	110	93	1,595	1,592	581	576
132	87	681	837	26	8	391	389	434	494	824	620	6,614	6,009	2,779	2,595
31	32	239	243	10	3	108	116	117	94	118	81	1,639	1,519	427	384
24	18	213	190	5	3	110	112	80	80	108	67	1,688	1,662	395	391
86	46	474	421	11	8	253	241	189	174	250	167	3,941	3,624	1,079	887
898	657	3,975	4,221	177	108	2,666	2,601	2,725	2,675	3,222	2,429	38,660	38,386	13,048	12,066

THE BRONX.

95	112	1,235	1,075	21	11	273	240	194	152	254	225	4,388	4,266	1,024	1,069
41	32	546	498	8	8	189	199	118	121	144	130	2,580	2,672	602	634
136	144	1,781	1,573	29	19	462	439	312	273	398	361	6,968	6,938	1,626	1,703

BROOKLYN.

5	6	46	44	..	..	22	36	13	16	16	35	360	413	64	93
3	2	26	23	1	..	18	18	18	18	25	14	191	180	64	60
4	5	33	38	..	2	19	18	8	9	24	18	310	299	58	53
4	3	47	51	..	1	22	16	15	11	21	17	302	237	65	46
9	11	60	57	..	3	29	37	63	34	56	44	489	435	223	177
11	12	112	114	3	2	83	77	67	100	90	59	935	927	321	291
8	3	73	70	4	1	70	50	38	52	54	45	743	730	185	164
27	30	134	116	2	2	117	97	92	85	122	120	1,365	1,313	483	473
23	13	71	89	3	..	88	54	37	41	60	46	891	809	220	184
15	19	97	95	5	1	90	79	53	59	71	80	797	802	247	270
10	7	60	57	1	2	58	28	44	38	42	28	561	480	181	123
17	9	62	70	2	3	64	55	68	72	60	44	632	643	217	189
13	9	44	40	1	..	37	50	23	18	32	36	448	471	110	133
16	24	69	55	7	2	55	59	73	64	161	96	768	640	413	336
18	9	65	53	..	1	61	52	61	54	83	63	609	549	271	214
11	18	61	56	2	2	82	58	78	85	86	59	784	715	330	283
23	15	116	130	2	1	71	74	89	85	146	129	1,100	1,060	374	350
20	5	66	66	2	1	44	45	51	41	74	75	613	591	228	218
9	2	55	55	..	1	51	59	42	36	28	44	584	613	145	143
8	10	53	42	2	2	38	31	20	26	29	23	522	499	110	103
29	18	96	96	3	1	84	71	70	63	69	70	1,086	972	293	286
26	19	100	115	5	3	90	94	66	62	98	103	1,295	1,278	325	316
19	8	71	66	1	1	67	74	39	27	29	37	1,016	961	157	116
12	16	98	96	3	1	89	70	56	37	61	53	1,066	918	277	211
20	10	81	108	1	4	67	68	30	42	63	44	936	947	200	194
57	35	162	161	9	6	157	137	176	115	209	152	2,058	1,896	823	690
22	28	98	91	4	2	57	51	75	88	98	72	917	841	314	263
37	16	157	153	5	3	80	87	59	61	97	68	1,422	1,359	326	264
50	17	84	127	..	2	71	59	41	59	76	65	1,270	1,199	413	286
21	12	68	67	..	1	69	88	46	41	92	74	959	978	292	264
6	2	47	45	3	2	32	30	23	24	49	41	485	509	142	116
5	2	18	18	1	..	13	21	10	12	25	21	222	247	76	54
558	395	2,430	2,464	72	53	2,001	1,843	1,644	1,575	2,246	1,875	25,676	24,511	7,947	6,963

VITAL STATISTICS.

Actual Number of Deaths from Infections and Certain

BOROUGH OF

Wards	Area in Acres	Population U. S. Census, 1910	Number of Persons to the Acres	Typhoid Fever		Malarial Fever		Small Pox		Measles		Scarlet Fever		Whooping Cough	
				1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
				First.....	4,650	61,763	13.3	12	7	1	2	4	11	3	3	7
Second.....	14,700	105,219	7.2	7	5	1	..	..	..	7	1	14	9	8	8
Third.....	22,000	37,171	1.7	6	1	..	1	..	..	2	3	1	4	1	2
Fourth.....	36,600	67,412	1.8	10	13	1	2	..	..	17	2	7	7	9	5
Fifth.....	3,770	12,476	3.3	4	2	..	..	..	..	2	..	..	..	..	5
Total.....	81,720	284,041	3.5	39	28	3	3	..	..	30	10	33	23	21	27

BOROUGH OF

First.....	3,340	27,201	8.1	1	4	..	..	..	..	2	3	5	3	2	4
Second.....	4,130	10,871	4.1	5	4	..	..	..	..	1	2	1	..	..	2
Third.....	10,950	19,812	2.0	5	3	..	..	..	..	..	1	1	..	1	7
Fourth.....	8,180	10,662	1.3	..	..	..	..	..	..	3	..	4	1	..	4
Fifth.....	10,900	11,423	1.0	..	..	..	1	..	..	..	23	1	4	1	2
Total.....	36,600	85,969	2.3	11	11	..	1	..	..	6	29	12	8	4	19

VITAL STATISTICS.

Other Preventable Diseases, by Wards, 1910 and 1911—Continued.

QUEENS.

Diphtheria and Croup		Pulmonary Tuberculosis		Cerebro-Spinal Meningitis		Pneumonia		Broncho Pneumonia		Diarrhœal Diseases		All Causes		Deaths of Children Under 5 Years	
1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
20	9	92	78	3	2	93	59	62	57	84	85	952	919	266	249
53	35	144	137	4	9	96	89	79	72	152	108	1,354	1,269	494	398
5	8	32	46	2	2	29	34	30	16	43	27	471	531	143	135
25	10	83	93	2	5	70	60	42	55	81	74	973	1,028	303	269
1	1	7	7	1	2	17	18	8	5	31	20	221	251	56	60
104	63	358	361	12	20	305	260	221	205	391	314	3,971	3,998	1,262	1,111

RICHMOND.

6	13	69	91	..	1	36	42	26	36	35	33	539	703	113	155
5	4	34	30	2	..	17	17	10	8	12	23	244	241	54	57
3	2	19	22	1	2	27	29	16	15	17	21	282	298	64	73
5	..	13	13	1	..	14	8	18	11	35	30	244	181	105	60
..	3	13	15	..	..	12	14	7	4	14	11	158	167	49	54
19	22	148	171	4	3	106	110	77	74	113	118	1,467	1,590	385	399

VITAL STATISTICS.

Deaths According to Nativity of Deceased and Parents of Deceased.

Country.	Nativity of Deceased.													
	Manhattan.						Borough of						City of New York.	
	The Bronx.		Brooklyn.		Queens.		Richmond.		City of New York.		Total.			
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
United States.....	23,661	22,532	4,110	4,187	16,446	15,546	2,549	2,518	936	1,032	47,711	45,815	8,548	8,594
Ireland.....	4,810	4,738	838	746	2,138	2,134	330	330	173	200	8,594	8,548	6,836	6,836
Germany.....	2,530	2,891	819	825	2,334	2,332	626	610	130	138	6,765	6,836	3,125	3,125
Italy.....	1,681	1,797	200	202	959	957	121	115	40	43	3,091	3,281	1,521	1,521
Russia.....	1,861	2,042	229	230	957	957	83	90	40	50	1,471	1,521	1,060	1,060
England.....	637	672	134	141	377	357	55	48	15	10	1,877	1,960	438	438
Austria-Hungary.....	1,296	1,398	173	167	340	358	55	48	15	10	1,877	1,960	438	438
Scotland.....	212	222	39	44	187	168	70	70	26	13	490	438	238	238
British America.....	229	219	50	34	179	151	15	10	3	5	166	166	238	238
Switzerland.....	80	123	25	35	41	40	17	27	9	7	280	311	236	236
France.....	182	206	25	11	53	50	20	17	.....	.....	236	236	236	236
Bohemia.....	193	179	14	20	54	75	31	1	.....	.....	236	236	236	236
Roumania.....	159	100	22	31	54	75	31	1	.....	.....	236	236	236	236
Poland.....	55	56	20	12	51	53	31	22	.....	.....	236	236	236	236
Syria.....	7	12	1	2	8	8	.....	.....	.....	.....	236	236	236	236
Sweden.....	172	103	39	49	244	236	8	23	17	22	480	485	280	280
Norway.....	53	64	9	21	195	170	4	13	27	12	288	280	194	194
Denmark.....	39	37	10	6	62	42	7	9	7	7	131	94	68	68
Finland.....	39	49	10	14	35	28	2	2	3	5	95	68	68	68
Holland.....	37	31	8	8	31	25	.....	3	.....	.....	148	68	68	68
Cuba.....	30	18	3	3	14	8	.....	.....	.....	.....	148	68	68	68
Other West Indies.....	123	121	21	13	59	56	1	2	4	2	288	190	190	190
Belgium.....	21	31	.....	2	11	6	.....	.....	.....	.....	34	31	31	31
Spain.....	26	31	.....	1	25	18	1	1	1	.....	34	31	31	31
Greece.....	57	61	8	7	7	7	.....	.....	.....	.....	54	54	54	54
China.....	82	64	1	3	11	3	.....	.....	.....	.....	54	54	54	54
Australia.....	1	2	.....	1	.....	0	.....	.....	.....	.....	54	54	54	54
Other foreign.....	108	147	29	17	49	44	10	1	.....	.....	107	121	217	217
Unknown.....	247	324	17	26	75	93	17	15	12	5	368	403	403	403
Mixed Nationalities.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	38,660	38,386	6,968	6,938	25,676	24,511	3,971	3,908	1,467	1,590	76,742	75,423	75,423	75,423

VITAL STATISTICS.

Deaths According to Nativity of Deceased and Parents of Deceased—Continued.

Country.	Nativity of Parents of Deceased.											
	Manhattan.						Borough of					
	1910	1911	1910	1911	1910	1911	Brooklyn.	Queens.	Richmond.	City of New York.	1910	1911
United States.....	6,466	6,150	1,341	1,374	5,953	5,783	1,025	1,030	447	475	15,232	14,812
Ireland.....	7,759	7,863	1,589	1,452	4,049	4,662	540	595	288	316	15,125	14,888
Germany.....	4,068	4,137	1,256	1,218	3,529	3,593	959	962	198	196	10,010	10,406
Italy.....	5,047	5,232	682	688	2,784	2,793	303	289	102	109	8,918	9,021
Russia.....	3,575	3,378	383	445	2,165	2,058	140	105	34	30	6,297	6,216
England.....	640	622	101	149	684	663	89	107	59	56	1,633	1,597
Austria-Hungary.....	2,534	2,566	246	274	688	658	101	95	33	34	3,602	3,627
Scotland.....	273	258	53	69	250	228	34	36	21	15	631	606
British America.....	130	148	38	28	101	96	17	14	21	10	307	296
Switzerland.....	81	109	30	36	42	53	15	18	4	6	172	222
France.....	171	229	25	20	52	61	19	26	10	10	277	346
Bohemia.....	306	274	25	23	5	14	25	27	....	....	361	338
Roumania.....	270	239	26	43	93	100	1	....	....	....	391	383
Poland.....	91	99	31	19	137	140	96	69	11	11	366	338
Syria.....	22	23	1	1	20	33	....	....	....	....	43	57
Sweden.....	197	185	55	69	336	306	10	25	18	19	616	604
Norway.....	57	79	12	26	288	269	5	13	33	17	395	404
Denmark.....	48	33	18	8	76	61	8	11	7	6	157	119
Finland.....	67	67	25	22	54	48	4	4	2	3	153	146
Holland.....	44	39	10	12	31	28	....	3	....	....	85	82
Cuba.....	28	17	3	3	12	8	1	....	....	....	44	28
Other West Indies.....	239	218	25	15	89	92	1	3	3	1	357	329
Belgium.....	16	18	....	2	9	6	1	3	1	1	27	30
Spain.....	36	52	....	3	29	26	1	....	....	....	67	81
Greece.....	82	96	7	8	8	8	1	1	1	....	99	115
China.....	86	64	2	3	12	5	....	....	....	....	101	73
Australia.....	1	1	....	1	....	2	....	1	....	....	1	6
Other foreign.....	115	160	36	23	106	38	7	77	....	....	264	225
Unknown.....	3,144	2,902	136	157	441	379	66	77	72	98	3,859	3,613
Mixed nationalities.....	3,067	2,928	752	747	2,733	2,390	501	485	99	165	7,152	6,715
Total.....	38,660	38,386	6,968	6,938	25,676	24,511	3,971	3,998	1,467	1,590	76,742	75,423

VITAL STATISTICS.

Deaths According to Nativity of Deceased and Parents of Deceased—Pulmonary Tuberculosis and Cancer.

CITY OF NEW YORK.

Nativity of Deceased.	Pulmonary Tuberculosis.		Cancer.		Nativity of Parents of Deceased.		Pulmonary Tuberculosis.		Cancer.	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
United States.....	4,960	4,992	1,393	1,450	United States.....	1,474	1,684	615	653	
Ireland.....	1,189	1,169	553	595	Ireland.....	2,742	2,597	827	865	
Germany.....	565	559	649	700	Germany.....	1,224	1,196	857	901	
Italy.....	474	427	157	180	Italy.....	594	562	164	185	
Russia.....	399	442	332	351	Russia.....	446	483	344	370	
England.....	157	185	123	127	England.....	156	159	142	134	
Austria-Hungary.....	290	294	200	196	Austria-Hungary.....	322	362	200	203	
Scotland.....	53	82	44	28	Scotland.....	69	88	56	40	
British America.....	73	47	38	30	British America.....	52	42	19	17	
Switzerland.....	23	34	11	16	Switzerland.....	31	34	18	16	
France.....	30	36	26	30	France.....	43	49	26	31	
Bohemia.....	40	41	18	17	Bohemia.....	65	66	22	17	
Roumania.....	34	47	27	26	Roumania.....	36	43	24	23	
Poland.....	22	27	14	14	Poland.....	28	33	16	14	
Syria.....	6	4	2	2	Syria.....	5	4	2	2	
Sweden.....	84	101	34	31	Sweden.....	95	112	31	32	
Norway.....	46	56	22	19	Norway.....	52	67	22	18	
Denmark.....	18	16	9	13	Denmark.....	18	20	9	12	
Finland.....	33	39	8	7	Finland.....	32	40	7	5	
Holland.....	7	2	10	10	Holland.....	10	3	9	11	
Cuba.....	6	5	4	1	Cuba.....	6	5	3	...	
Other West Indies.....	60	53	4	3	Other West Indies.....	65	61	3	4	
Belgium.....	3	3	5	1	Belgium.....	3	3	2	1	
Spain.....	11	11	4	1	Spain.....	10	10	3	2	
Greece.....	20	21	3	1	Greece.....	15	18	3	1	
China.....	42	28	1	3	China.....	43	28	1	3	
Australia.....	...	3	...	...	Australia.....	...	1	...	...
Other foreign.....	36	50	16	21	Other foreign.....	42	37	18	21	
Unknown.....	11	16	3	...	Unknown.....	157	168	54	63	
Mixed.....	...	...	...	...	Mixed.....	857	815	223	229
Total.....	8,692	8,790	3,710	3,873	Total.....	8,692	8,790	3,710	3,873	

VITAL STATISTICS.

*Deaths by Suicide in The City of New York. Year 1910.

	Austria-Hungary.		Bohemia.		England.		France.		Germany.		Ireland.		Italy.		Russia.		Other Foreign Countries.		United States.		Unknown.		Total by Sexes.		Total both Sexes.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
Cuts and stabs.....		1			3				9	1	4			3	4			7	1	16	1			47	3	50
Drowning.....	1						1		4	1	1			1				1		2	2			11	3	14
Gunshot.....	12	2	1		7	2			50	7	7			19	16			14		72	11	13		213	15	228
Hanging.....	2	1	1		3				28	4	3			1	4	1		3		23	9	4		72	19	91
Leaps.....	2	1							6	7	2			2	4	3		4		18	9			44	26	70
Railroads.....									1		1							1		1	1			3	1	4
Arsenic (Paris Green).....	1	1			1				3											1	1			6	4	10
Bichloride of mercury.....																									2	2
Carbolic acid.....	2	4	1		1	1			3	1	2	1	1	1	2	3		1		12	8	1		26	18	44
Cyanide of potassium (hydrocyanic acid).....																										
Opium (morphine).....									5		1									2	1	1		10	2	12
Oxalic acid.....																				4	1	1		6	1	7
Other poisons.....																										
Unknown poison.....									2											4	1			8	6	14
Illuminating gas.....	13	3	1		7	4	1	2	52	18	5	6	4	4	1	18	6	12	2	61	43	10	5	184	90	274
Total by sexes.....	33	13	6	1	22	8	4	2	163	32	25	12	31	7	55	15	47	6	216	90	31	6	633	192	825	
Total both sexes.....	46		7		30		6		195		37		38		70		53		306		37		825			

* The 825 suicides occurred in the boroughs as follows: Manhattan, 459; The Bronx, 64; Brooklyn, 246; Queens, 40; Richmond, 16.

VITAL STATISTICS.

* Deaths by Suicide in The City of New York. Year 1911.

	Austria-Hungary.		Bohemia.		England.		France.		Germany.		Ireland.		Italy.		Russia.		Other Foreign Countries.		United States.		Unknown.		Total by Sexes.		Total both Sexes.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Cuts and stabs.....	1	1	1	1	3	3	8	1	5	2	1	4	2	2	1	4	19	2	1	1	46	5	51		
Drowning.....	6	1	2	1	6	3	5	1	5	2	1	1	13	1	1	1	4	4	3	13	7	20			
Gunshot.....	6	1	1	1	1	1	18	4	6	4	1	1	1	3	6	11	84	8	9	188	13	201			
Hanging.....	3	1	1	1	2	1	1	1	2	1	1	1	1	1	1	1	21	4	2	64	11	75			
Leaps.....	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	7	6	1	27	16	43			
Railroads.....	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2	6			
Arsenic (Paris Green).....	3	1	1	1	2	1	5	1	3	1	1	1	2	2	1	1	3	1	1	8	5	26			
Bichloride of mercury.....	1	1	1	1	1	1	1	1	1	1	1	1	2	4	1	1	4	3	1	8	7	15			
Carbolic acid.....	1	1	1	1	1	1	4	1	2	4	1	3	2	4	1	1	7	4	1	18	16	34			
Cyanide of potassium (hydrocyanic acid).....	1	1	1	1	1	1	2	1	1	3	2	4	1	1	2	1	1	1	1	7	4	11			
Opium (morphine).....	1	1	1	1	3	1	2	1	1	2	1	2	1	1	2	1	9	1	1	19	2	21			
Oxalic acid.....	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	2	1	2	5	3	8			
Other poisons.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	5	1	7			
Unknown poison.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	3	1	2			
Illuminating gas.....	15	3	2	14	2	14	49	23	5	3	3	4	11	9	15	7	58	31	2	174	82	256			
Other methods.....	34	7	3	2	32	3	5	2	30	15	25	12	39	22	46	10	230	174	22	605	183	788			
Total by sexes.....	41	5	35	7	174	45	37	61	56	304	23	788													

* The 788 suicides occurred in the boroughs as follows: Manhattan, 430; The Bronx, 66; Brooklyn, 221; Queens, 60; Richmond, 11.

VITAL STATISTICS.

Deaths by Suicide in the Borough of Manhattan, Year 1910.

	Austria-Hungary.		Bohemia.		England.		France.		Germany.		Ireland.		Italy.		Russia.		Other Foreign Countries.		United States.		Unknown.		Total by Sexes.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total both Sexes.
Cuts and stabs.....																									27
Drowning.....	1		1		1		1		1		1		1		2		10		2		10		2		27
Gunshot.....	8	2	1	1	6	2	19	1	1	1	6	10	11	1	11	1	9	1	44	7	9	1	25	9	134
Hanging.....	1	1	1	1	1	1	8	1	3	3	3	3	1	2	2	2	2	2	7	5	2	2	28	9	37
Leaps.....	2	1	1	1	1	1	3	4	2	1	2	1	2	3	9	3	3	3	12	7	1	1	33	20	53
Railroads.....																									2
Arsenic (Paris Green)																									1
Bichloride of mercury																									5
Carbolic acid.....																									2
Cyanide of potassium (hydrocyanic acid).....	2	4	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	6
Opium (morphine).....																									1
Other poisons.....																									1
Unknown poisons.....																									3
Illuminating gas.....	7	1	1	1	4	2	1	2	10	4	4	4	4	4	7	1	1	2	26	20	5	4	97	46	143
Total by sexes.....	21	11	6	1	13	4	4	2	66	16	20	9	22	4	34	6	31	5	111	50	18	5	346	113	459
Total both sexes.....	32		7		17		6		82		29		26		40		36		161		23		459		

VITAL STATISTICS.

Deaths by Suicide in the Borough of Manhattan, Year 1911.

	Austria-Hungary.		Bohemia.		England.		France.		Germany.		Ireland.		Italy.		Russia.		Other Foreign Countries.		United States.		Unknown.		Total by Sexes.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total both Sexes.
Cuts and stabs.....	1	1	1	1	1	3	1	1	4	1	3	1	1	1	1	3	8	4	1	1	1	24	6	24	
Drowning.....	3	1	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	12	
Gunshot.....	3	1	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	103	
Hanging.....	3	1	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	32	
Leaps.....	3	1	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	35	
Railroads.....	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	
Arsenic (Paris Green).....	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13	
Bichloride of mercury.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13	
Carbolic acid.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	
Cyanide of potassium (hydrocyanic acid).....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	
Opium (morphine).....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	18	
Oxalic acid.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	
Other poisons.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	
Unknown poisons.....	10	2	2	9	2	2	13	3	25	13	3	1	2	2	7	4	7	3	25	14	1	1	1	6	
Illuminating gas.....	10	2	2	9	2	2	13	3	25	13	3	1	2	2	7	4	7	3	25	14	1	1	1	132	
Total by sexes.....	22	5	3	2	18	1	5	1	64	20	15	7	13	9	27	9	29	5	117	42	14	2	327	103	430
Total both sexes.....	27	5	19	6	84	22	22	36	34	159	16	430													

VITAL STATISTICS.

Deaths by Accident and Negligence.

	Borough of											
	Manhattan.		The Bronx.		Brooklyn.		Queens.		Richmond.		City of New York.	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Fracture and Contusions:												
Crushed by elevators.....	45	25	2	..	4	5	..	..	1	..	52	30
" machinery.....	7	7	1	6	9	7	1	1	..	..	18	21
" falling bodies.....	29	35	10	7	13	16	5	8	3	1	60	67
" derricks, stones, etc.....	14	17	3	3	6	2	1	3	..	1	24	26
Other causes.....	44	33	11	3	15	32	3	2	..	..	73	70
Not specified.....	57	50	3	5	9	10	5	3	1	1	75	69
Falls:												
Down elevator shafts, holds of vessels, etc.....	28	89	..	8	9	47	..	5	..	1	37	150
" stairs.....	96	89	13	7	39	34	9	5	..	4	157	139
From buildings.....	53	87	5	8	19	9	3	2	..	..	80	106
" fire escapes.....	27	19	3	1	5	2	..	..	..	..	35	22
" scaffolds, ladders, etc.....	10	13	6	3	12	12	2	4	..	1	30	33
" windows.....	103	88	16	10	57	48	..	2	2	..	178	148
" wagons, cars, etc.....	34	34	8	12	19	19	7	4	1	..	69	69
On streets and sidewalks.....	49	59	11	6	25	10	..	4	..	..	85	79
Other falls.....	140	76	20	5	91	43	14	10	7	3	272	137
Not specified.....	58	30	3	10	5	73	5	2	..	1	71	116
Street Vehicles:												
Run over by wagons, trucks, etc.....	110	174	10	26	33	58	7	8	5	5	165	271
" " automobiles.....	63	77	13	8	25	38	7	3	3	2	111	128
" " other vehicles.....	9	17	1	1	5	2	..	..	..	..	15	20
Horses and Other Animals:												
Kicked by horses.....	..	12	..	2	..	4	..	1	..	2	..	21
Injuries by other animals.....	..	2	..	7	..	..	..	..	..	..	..	9
Railroads:												
Electric surface.....	73	65	10	10	65	36	6	10	2	1	156	122
Steam.....	20	9	24	29	9	7	43	32	10	1	106	78
Elevated.....	5	12	1	2	6	2	..	..	..	..	12	16
Subways.....	18	11	3	2	..	2	..	..	..	..	21	15
Not specified.....	4	..	1	1	8	1	..	..	..	..	12	2
Wounds:												
By firearms.....	5	8	3	1	..	8	3	1	1	3	12	21
" cutting and piercing instruments.....	6	8	1	3	6	1	3	3	1	..	17	15
Not specified.....	5	..	..	..	..	..	1	1	..	..	6	1
Burns and Scalds:												
By stoves.....	30	40	5	14	28	30	4	4	..	1	67	89
" lamps.....	4	5	1	2	2	2	..	3	2	..	9	12
" fluids.....	75	58	6	9	41	34	4	4	1	2	127	107
" playing with matches.....	33	19	3	3	17	12	1	4	1	..	55	38
" other methods.....	35	28	14	17	34	19	8	7	5	2	96	73
Not specified.....	31	51	..	3	7	50	3	3	..	2	41	109
Conflagrations.....	38	161	..	2	20	17	3	2	..	..	61	182
Electric current.....	8	6	4	4	5	6	3	3	3	1	23	20
Drowning.....	225	209	25	31	118	114	50	42	27	30	445	426
Starvation.....	..	3	..	1	..	..	..	..	..	..	..	4
Freezing.....	6	..	1	..	6	1	..	..	2	..	15	1
Sunstroke.....	71	345	6	36	71	143	10	25	3	12	161	561
Illuminating gas.....	130	123	12	13	109	127	6	15	..	4	257	282
Other gases.....	13	15	1	1	3	3	2	1	..	..	19	20
Poisons:												
Ptomaines.....	4	2	..	..	4	1	..	..	..	..	8	3
Alcohol.....	6	1	2	..	..	1	..	..	..	..	8	2
Bichloride of mercury.....	2	7	..	1	..	4	..	1	..	..	2	13
Mushrooms.....	2	1	..	5	..	..	..	1	..	..	2	7
Carbolic acid.....	3	5	..	..	5	1	..	..	..	1	8	7
Lysol.....	1	3	..	..	3	2	..	1	..	..	4	6
Opium (morphine).....	3	6	..	..	4	3	1	..	..	..	8	9
Wood alcohol.....	5	4	..	..	..	1	2	..	..	..	6	6
Other poisons.....	13	19	4	4	8	7	..	..	2	..	27	30
Unknown poisons.....	9	4	..	..	..	4	..	..	..	..	9	8
Criminal abortion.....	19	11	4	..	14	19	1	1	..	..	38	31
Other external violence.....	41	38	..	6	30	16	9	4	1	3	81	67
Tetanus.....	13	15	..	2	13	13	..	5	2	..	28	37
Hydrophobia.....	5	6	1	..	..	3	1	2	..	..	7	11

VITAL STATISTICS.

Deaths in Institutions.

BOROUGH OF MANHATTAN.

Institution.	1910	1911	Institution.	1910	1911
Babies' Hospital.....	378	422	New York City School and Hospital....	83	114
Bellevue Hospital.....	2,974	3,066	New York Nursery and Child's Hos- pital.....	172	157
Beth Israel Hospital.....	217	228	Nursery and Child's Hospital.....	59	28
City Hospital.....	373	418	New York Polyclinic Hospital.....	66	67
Columbus Hospital.....	71	72	Post Graduate Hospital.....	372	387
Flower Hospital.....	374	306	Presbyterian Hospital.....	495	412
Foundling Hospital.....	1,421	1,272	Reception Hospital.....	119	129
French Hospital.....	95	96	Red Cross Hospital.....	46	46
German Hospital.....	307	293	Roosevelt Hospital.....	308	290
Gouverneur Hospital.....	556	489	St. Francis Home.....	72	49
Hahnemann Hospital.....	57	62	St. Gregory's Hospital.....	40	27
Har Moriah Hospital.....	69	57	St. Luke's Hospital.....	365	383
Harlem Hospital.....	847	759	St. Mark's Hospital.....	78	64
Home for Aged Little Sisters of Poor..	111	88	St. Mary's Hospital.....	57	46
House of Relief.....	248	179	St. Vincent's Hospital.....	572	491
J. Hood Wright Hospital.....	204	181	Skin and Cancer Hospital.....	38	36
Junior Sea Breeze Hospital.....	56	35	Sloane Hospital for Women.....	104	77
Lying-in Hospital.....	158	193	Sydenham Hospital.....	184	64
Manhattan State Hospital.....	424	543	Washington Heights Hospital.....	66	86
Metropolitan Hospital.....	1,192	1,612	Willard Parker Hospital.....	639	486
Misericordia Hospital.....	169	170	Workhouse Hospital.....	40	49
Montefiore Hospital.....	107	133	Other institutions.....	1,082	1,307
Mount Sinai Hospital.....	721	754			
New York City Home and Hospital...	438	607			
New York Hospital.....	473	535	Total.....	17,997	17,365

BOROUGH OF THE BRONX.

Institution.	1910	1911	Institution.	1910	1911
Lebanon Hospital.....	388	347	Home for Incurables.....	101	178
Lincoln Hospital.....	288	300	Seton Hospital.....	372	237
Riverside Hospital.....	332	388	Other institutions.....	167	129
St. Francis Hospital.....	232	237			
St. Joseph's Hospital.....	681	622	Total.....	2,913	2,949
Fordham Hospital.....	352	511			

BOROUGH OF BROOKLYN.

Institution	1910	1911	Institution	1910	1911
Angel Guardian Home.....	27	43	Lutheran Hospital.....	62	45
Bethany Deaconess Hospital.....	44	33	Methodist Episcopal Hospital.....	269	266
Brooklyn Hospital.....	269	286	New York City Home for Aged and In- firm.....	394	348
Bushwick Hospital.....	66	78	Norwegian Hospital.....	169	172
Consumptive Home.....	109	110	Samaritan Hospital.....	64	51
Cumberland Street Hospital.....	268	252	St. Catharine's Hospital.....	289	284
Coney Island Hospital.....	78	142	St. Christopher's Hospital.....	73	86
Eastern District Hospital.....	113	80	St. John's Hospital.....	112	98
German Evangelical Hospital.....	37	45	St. Mary's Hospital.....	350	254
German Hospital.....	245	265	St. Peter's Hospital.....	451	473
Home for Aged Little Sisters of Poor..	112	99	Swedish Hospital.....	79	82
Infant's Hospital.....	58	45	Williamsburg Hospital.....	110	145
Jewish Hospital.....	287	325	Other institutions.....	427	423
King's County Hospital.....	1,324	1,321			
Kingston Avenue Hospital.....	575	253	Total.....	6,880	6,588
Long Island College Hospital.....	290	338			
Long Island State Hospital.....	129	146			

BOROUGH OF QUEENS.

Institutions	1910	1911	Institutions	1910	1911
Flushing Hospital.....	103	127	St. Mary's Hospital.....	112	133
Jamaica Hospital.....	63	64	Other institutions.....	62	67
St. John's Hospital.....	179	197			
St. Joseph's Hospital.....	47	71	Total.....	566	659

BOROUGH OF RICHMOND.

Institutions	1910	1911	Institutions	1910	1911
City Farm Colony.....	28	82	St. Vincent's Hospital.....	183	114
Marine Hospital.....	36	48	Other institutions.....	47	118
S. R. Smith's Infirmary.....	170	170			
Sailor's Snug Harbor.....	99	119	Total.....	563	651

RECAPITULATIONS.

Borough	1910	1911	Borough	1910	1911
Manhattan.....	17,997	17,365	Richmond.....	563	651
The Bronx.....	2,913	2,949	City of New York.....	28,019	28,212
Brooklyn.....	6,880	6,588			
Queens.....	566	659			

VITAL STATISTICS.

Deaths of Persons 100 Years of Age and Over.

Date of Death.	Name.	Age.			Nativity.	Cause of Death.	Borough of					City of New York.
		Years.	Months.	Days.			Manhattan.	The Bronx.	Brooklyn.	Queens.	Richmond.	
1910												
Feb. 7	Yetta Wilchinsky..	108			Russia.....	Senility.....	I					I
Mar. 17	Pearl Taub.....	104			Austria.....	"	I					I
" 27	Stephen Miley....	103			Ireland.....	Pneumonia....	I					I
Apr. 11	Bardance Menner..	112			Russia.....	Senility.....	I					I
May 16	Jacob Mallerstein..	104			"	Old age.....		I				I
" 24	Anna Fensterstuck.	101			Austria.....	Chr. nephritis.	I					I
" 29	Bridget Woods....	105	4		Ireland.....	Endocarditis..	I					I
June 11	Gittle Davis.....	102			Russia.....	Old age.....	I					I
" 15	Hepa Cattle.....	101			United States.	Chr. nephritis.		I				I
" 26	Mich. Gannon.....	103			Ireland.....	Myocarditis..	I					I
" 29	Cath. O'Connell...	100			"	Senility.....	I					I
July 1	Margt. Scott.....	101			"	Myocarditis..		I				I
" 5	Ig. Niggerschmidt.	101			Germany.....	Senility.....		I				I
" 15	Letillier Constance.	102			France.....	Eutero colitis.	I					I
Aug. 3	Daniel Darney....	100			Ireland.....	Arterio sclerosis.	I					I
" 10	Maria Griffin....	108	7	10	New York....	Senile arteries.		I				I
" 18	Solomon Levy.....	108			Germany.....	Old age.....			I			I
" 28	Jeremiah Krivalin..	102			Russia.....	Arterio sclerosis.	I					I
" 29	Mariasmas Harburger.....	101			Germany.....	Chr. dysentery.			I			I
Sept. 9	Marg't. Boerem....	102			United States.	Arterio sclerosis.	I					I
Oct. 10	Elizabeth Hyman...	103			Poland.....	Bt. pneumonia.	I					I
" 14	Eliz. Bastian....	100	4	7	Germany.....	Cardiac dil....		I				I
" 21	Fanny Saunders....	100			Virginia.....	Chr. bronchitis.	I					I
Dec. 1	Josiah Zeitlin....	106			Russia.....	Old age.....			I			I
" 7	Liboria Gusman....	102			Italy.....	"	I					I
" 17	Johanna Tracey...	102			Ireland.....	"	I					I
" 21	Rosa A. Carroll....	102			"	"		I				I
" 23	Abbe Bingham....	113	9	5	United States.	"			I			I
" 31	Elizabeth Bishop..	101			Ireland.....	"	I					I
	Total.....						18	4	7			29
1911												
Jan. 5	Jacob Boniface....	101	3		Germany.....	Influenza.....			I			I
Feb. 13	Jeannette Freundlich.	100			"	Br. pneumonia.	I					I
" 25	Sinche Silverman..	104			Russia.....	Old age.....			I			I
" 26	Mary Brennan....	106			Ireland.....	Heart dis....	I					I
Mar. 1	Boula Goldberg....	107			Russia.....	Senility.....	I					I
" 6	Mendel Demmand..	110			"	"	I					I
Apr. 4	Esther Davis.....	117	6		"	"	I					I
June 13	Sarah A. Blunt....	100			United States.	"			I			I
July 9	Hannah Farmer...	100			Ireland.....	Chr. nephritis.		I				I
Sept. 15	Mary Ryan.....	100			"	Dis. of arteries.	I					I
Oct. 4	Robt. J. Smiley...	100	3	1	Scotland....	Senility.....				I		I
" 17	Mary Slavin.....	100			Ireland.....	"	I					I
" 29	David Einbinder...	101	6	10	Russia.....	Chr. bronchitis.			I			I
Dec. 12	Isaac Goldstein...	106			"	Ac. bronchitis.	I					I
	Total.....						8	1	4	1		14

VITAL STATISTICS.

Deaths and Death Rates Under One Year in Former City of New York (Manhattan and the Bronx), per 1,000 Population Under 1 Year of Age.

	1900		1901		1902		1903		1904		1905	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
Measles.....	116	2.22	61	1.13	126	2.27	101	1.77	145	2.46	97	1.60
Scarlet fever.....	28	.53	29	.53	35	.63	19	.33	27	.46	16	.26
Whooping cough.....	147	2.81	74	1.38	216	3.89	98	1.71	59	1.02	121	1.99
Diphtheria and croup.....	203	3.89	141	2.62	124	2.24	129	2.26	134	2.27	123	2.03
Erysipelas.....	85	1.63	61	1.13	61	1.10	50	.87	92	1.56	106	1.75
Septicemia.....	25	.47	14	.26	31	.60	25	.44	23	.39	43	.71
Tubercular diseases (excluding tubercu- losis pulmonalis)...	243	4.65	216	4.01	193	3.48	219	3.83	237	4.02	126	2.08
Syphilis.....	97	1.86	68	1.26	99	1.82	71	1.24	85	1.44	94	1.55
Meningitis, simple.....	250	4.79	248	4.61	250	4.58	216	3.78	449	7.62	357	5.88
Cerebro-spinal menin- gitis.....	65	1.24	52	.96	48	.86	45	.79	178	3.02	245	4.04
Convulsions.....	415	7.95	414	7.69	370	6.67	358	6.26	353	5.99	360	5.93
Bronchitis.....	559	10.70	506	9.41	600	10.82	428	7.49	539	9.05	480	7.91
Pneumonia.....	1,642	31.44	1,414	26.26	1,587	28.62	1,537	26.90	1,640	27.85	1,545	25.45
Gastritis.....	61	1.17	59	1.16	67	1.21	25	.44	15	.25	20	.33
Diarrheas.....	2,713	51.96	2,586	48.01	2,365	42.65	2,258	39.51	2,762	46.90	2,872	47.31
Intestinal obstruction.....	41	.78	50	.92	41	.74	38	.66	33	.56	58	.96
Malformations and pre- ternatural.....	654	12.52	398	7.40	355	6.42	382	6.69	367	6.23	485	7.99
Congenital debility.....	760	14.50	1,062	19.74	1,864	33.62	1,975	34.56	2,267	38.49	2,346	38.64
Marasmus.....	1,467	28.09	1,253	23.30	503	9.07	561	9.82	598	10.15	567	9.34
All other causes.....	602	11.53	694	12.90	594	10.71	432	7.56	308	5.23	502	8.27
Total.....	10,008	193.00	9,348	173.70	9,481	171.00	8,922	156.10	10,127	172.00	10,318	169.90
General death rate.....	.....	21.03	.....	20.45	.....	19.11	.....	18.57	.....	21.02	.....	18.91

	1906		1907		1908		1909		1910		1911	
	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.	Deaths.	Rate.
Measles.....	186	2.97	133	2.06	192	2.88	142	2.07	89	1.26	131	1.80
Scarlet fever.....	15	.24	14	.22	42	.63	30	.44	25	.35	14	.19
Whooping cough.....	105	1.68	114	1.77	74	1.11	133	1.94	95	1.34	127	1.74
Diphtheria and croup.....	118	1.89	151	2.34	182	2.73	149	2.17	129	1.83	120	1.64
Erysipelas.....	83	1.33	86	1.33	79	1.18	110	1.60	117	1.66	126	1.73
Septicemia.....	19	.30	35	.54	38	.57	19	.28	22	.31	14	.19
Tubercular diseases (excluding tubercu- losis pulmonalis)...	160	2.56	140	2.17	145	2.18	140	2.04	151	2.14	176	2.41
Syphilis.....	132	2.11	162	2.51	117	1.76	177	2.58	155	2.19	162	2.22
Meningitis, simple.....	198	3.16	167	2.59	127	1.91	148	2.16	76	1.08	70	.96
Cerebro-spinal menin- gitis.....	115	1.84	88	1.36	67	1.01	74	1.08	61	.86	38	.52
Convulsions.....	391	6.25	304	4.71	256	3.85	225	3.28	218	3.09	209	2.86
Bronchitis.....	400	6.39	237	3.67	208	3.12	360	5.24	268	3.79	245	3.36
Pneumonia.....	1,851	29.57	1,877	29.08	1,666	25.03	1,841	26.82	1,594	22.57	1,639	22.46
Gastritis.....	10	.16	13	.20	18	.27	60	.87	56	.79	50	.68
Diarrheas.....	2,774	44.32	2,990	46.32	2,918	43.84	2,354	34.29	2,726	38.60	2,102	28.81
Intestinal obstruction.....	60	.96	54	.84	44	.66	54	.78	60	.85	58	.79
Malformations and pre- ternatural.....	456	7.28	538	8.33	518	7.78	516	7.52	552	7.82	474	6.50
Congenital debility.....	2,501	39.96	2,590	40.12	2,419	36.34	2,263	32.97	2,526	35.76	2,505	34.34
Marasmus.....	521	8.32	491	7.61	497	7.47	395	5.75	579	8.20	471	6.46
All other causes.....	523	8.36	550	8.52	534	8.03	715	10.42	606	8.58	586	8.03
Total.....	10,493	167.70	10,646	164.90	10,074	151.30	9,905	144.29	10,005	141.7	9,317	127.7
General death rate.....	.....	18.71	.....	18.77	.....	16.81	.....	16.42	.....	16.41	.....	15.78

VITAL STATISTICS.

Births by Nationalities of Parents.

Country.	Borough of											
	Manhattan.				The Bronx.				Brooklyn.			
	Nativity of Both Parents.		Nativity of Mother Only. Mixed Parentage.		Nativity of Both Parents.		Nativity of Mother Only. Mixed Parentage.		Nativity of Both Parents.		Nativity of Mother Only. Mixed Parentage.	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Austria-Hungary.....	8,028	8,079	1,616	1,792	523	721	197	270	1,718	2,266	71	337
Bohemia.....	432	398	130	104	5	11	6	10	2	19	0	11
British America.....	515	513	234	238	26	19	40	47	76	121	95	112
England.....	234	245	485	479	52	71	107	128	146	318	195	279
France.....	168	112	98	117	16	7	18	24	9	43	14	38
Germany.....	1,268	1,130	717	649	425	399	230	262	976	1,554	339	503
Ireland.....	3,500	3,509	1,502	1,435	449	470	220	254	1,229	1,095	474	443
Italy.....	15,581	15,642	232	212	2,027	2,219	15	26	9,419	8,988	27	96
Russia Poland.....	12,489	12,504	915	889	1,351	1,739	142	215	11,048	9,319	72	302
Scotland.....	109	95	156	144	38	38	31	30	77	136	65	99
Sweden.....	195	183	128	148	98	88	24	40	397	640	49	97
Switzerland.....	27	36	63	63	5	5	16	14	10	26	6	17
United States.....	11,759	11,865	3,999	4,122	3,450	3,776	1,036	1,204	12,780	14,555	2,501	3,026
Other Foreign.....	1,407	1,334	421	467	239	246	118	109	859	990	54	178
Unknown.....	6	14	3	9	1	2	0	0	0	1	0	.....
Total.....	55,658	55,659	10,699	10,868	8,705	9,831	2,200	2,633	38,746	40,101	3,962	5,598

Country.	Borough of								City of New York.			
	Queens.				Richmond.				Nativity of Both Parents.		Nativity of Mother Only. Mixed Parentage.	
	Nativity of Both Parents.		Nativity of Mother Only. Mixed Parentage.		Nativity of Both Parents.		Nativity of Mother Only. Mixed Parentage.		Nativity of Both Parents.		Nativity of Mother Only. Mixed Parentage.	
	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911	1910	1911
Austria-Hungary.....	229	254	82	86	90	73	4	29	10,588	11,393	1,970	2,514
Bohemia.....	48	38	8	22	0	1	0	0	487	467	144	147
British America.....	10	7	21	28	9	6	13	12	636	666	403	437
England.....	50	39	53	76	22	23	19	20	504	696	859	982
France.....	11	15	15	18	6	4	2	8	150	181	147	205
Germany.....	414	375	239	207	100	73	24	41	3,183	3,531	1,549	1,722
Ireland.....	170	169	116	138	68	78	40	58	5,416	5,341	2,358	2,328
Italy.....	972	1,029	12	22	370	412	5	6	28,369	28,290	291	362
Russia Poland.....	498	569	42	43	150	166	7	13	25,536	24,297	1,178	1,462
Scotland.....	25	20	22	18	8	8	4	8	257	297	278	299
Sweden.....	22	36	24	20	74	13	4	15	786	960	229	320
Switzerland.....	6	6	14	12	2	1	2	3	50	74	101	109
United States.....	3,173	3,452	754	779	774	897	175	220	31,936	34,575	8,465	9,351
Other Foreign.....	50	59	39	34	11	69	2	26	2,566	2,698	634	814
Unknown.....	0	0	0	0	0	0	0	0	7	17	3	9
Total.....	5,678	6,068	1,441	1,503	1,684	1,824	307	459	110,471	113,483	18,609	21,061

VITAL STATISTICS.

Report of Births for the Year

CITY OF

Month.	Total.	White.		Colored.		Chinese.		Native Parents.	
		M.	F.	M.	F.	M.	F.	M.	F.
January.....	11,595	5,885	5,529	102	79	0	0	1,501	1,375
February.....	9,796	4,872	4,775	70	74	4	1	1,159	1,198
March.....	11,214	5,630	5,400	87	95	1	1	1,395	1,327
April.....	10,400	5,212	5,014	93	80	0	1	1,320	1,300
May.....	10,352	5,189	4,985	90	86	1	1	1,352	1,275
June.....	10,400	5,334	4,916	71	79	0	0	1,307	1,311
July.....	11,173	5,714	5,289	90	79	1	0	1,478	1,380
August.....	11,207	5,692	5,362	87	64	2	0	1,418	1,371
September.....	10,876	5,463	5,239	82	90	1	1	1,407	1,333
October.....	10,592	5,264	5,174	86	67	0	1	1,308	1,221
November.....	10,588	5,275	5,132	80	99	0	2	1,274	1,248
December.....	10,887	5,460	5,217	93	116	1	0	1,311	1,308
Total.....	129,080	64,990	62,032	1,031	1,008	11	8	16,296	15,647

Report of Births for the Year

CITY OF

Month.	Total.	White.		Colored.		Chinese.		Native Parents.	
		M.	F.	M.	F.	M.	F.	M.	F.
January.....	12,057	6,144	5,710	111	91	1	..	1,519	1,419
February.....	10,809	5,464	5,154	106	81	2	2	1,346	1,276
March.....	11,643	5,780	5,656	101	106	..	..	1,528	1,451
April.....	10,225	5,166	4,885	95	78	..	1	1,284	1,313
May.....	11,351	5,631	5,489	112	117	1	1	1,539	1,493
June.....	11,280	5,678	5,416	88	96	1	1	1,534	1,437
July.....	11,457	5,838	5,433	90	94	2	..	1,541	1,397
August.....	11,628	5,847	5,603	80	95	2	1	1,634	1,511
September.....	10,809	5,361	5,266	87	95	..	..	1,615	1,592
October.....	11,195	5,585	5,397	110	102	1	..	1,408	1,434
November.....	10,825	5,510	5,118	99	98	..	..	1,417	1,273
December.....	11,265	5,569	5,509	101	85	1	..	1,329	1,285
Total.....	134,544	67,573	64,636	1,180	1,138	11	6	17,694	16,881

VITAL STATISTICS.

Ending December 31, 1910.

NEW YORK.

Foreign Parents.		Mixed Native and Foreign Parentage.		Unknown Parentage.		At- tended by Phy- sician.	At- tended by Mid- wives.	Appar- ently Ille- gitimate.	Twins.	Triplets.
M.	F.	M.	F.	M.	F.					
3,671	3,464	789	727	28	40	6,989	4,606	124	89	..
3,194	3,121	547	494	46	37	5,716	4,080	172	85	..
3,711	3,589	569	537	43	43	6,614	4,600	177	98	..
3,369	3,243	569	510	41	42	6,138	4,262	164	63	..
3,317	3,215	562	535	49	47	6,269	4,083	202	99	2
3,399	3,116	591	525	48	43	6,183	4,217	171	90	..
3,650	3,353	637	593	38	44	6,629	4,544	147	83	..
3,723	3,459	596	561	44	35	6,464	4,743	144	96	1
3,522	3,413	574	546	43	38	6,625	4,251	163	87	..
3,412	3,466	608	525	22	30	6,452	4,140	107	68	1
3,532	3,353	529	603	20	29	6,333	4,255	131	65	..
3,586	3,437	602	546	55	42	6,672	4,215	168	90	..
42,086	40,229	7,173	6,702	477	470	77,084	51,996	1,870	1,013	4

Ending December 31, 1911.

NEW YORK.

Foreign Parents.		Mixed Native and Foreign Parentage.		Unknown Parentage.		At- tended by Phy- sician.	At- tended by Mid- wives.	Appar- ently Ille- gitimate.	Twins.	Triplets.
M.	F.	M.	F.	M.	F.					
4,010	3,675	680	669	47	38	4,631	7,426	153	92	..
3,615	3,299	580	624	31	38	4,215	6,594	141	74	..
3,664	3,633	645	635	44	43	4,486	7,157	166	115	1
3,360	3,020	580	588	37	43	3,935	6,290	162	84	..
3,516	3,422	637	640	52	52	4,116	7,235	206	114	1
3,574	3,441	614	596	45	39	4,268	7,012	183	96	3
3,657	3,497	702	594	30	39	4,434	7,023	146	92	..
3,596	3,441	669	709	30	38	4,510	7,118	172	102	..
3,186	3,173	628	567	19	29	4,221	6,588	134	99	..
3,615	3,451	634	576	39	38	4,321	6,874	172	91	1
3,513	3,320	642	600	37	23	4,145	6,680	157	110	..
3,671	3,655	639	618	32	36	4,474	6,791	139	114	..
42,977	41,027	7,650	7,416	443	456	51,756	82,788	1,931	1,183	6

VITAL STATISTICS.

Marriages Reported During the Year

CITY OF

Month.	Total.	White.		Colored.		Chinese.		Single.	
		M.	F.	M.	F.	M.	F.	M.	F.
January.....	3,793	3,683	3,684	109	109	1	0	3,480	3,549
February.....	3,375	3,309	3,311	65	63	1	1	3,138	3,165
March.....	2,915	2,838	2,839	76	75	1	1	2,673	2,717
April.....	4,190	4,113	4,114	77	76	0	0	3,848	3,908
May.....	2,867	2,786	2,787	81	80	0	0	2,638	2,648
June.....	4,895	4,818	4,820	76	75	1	0	4,586	4,628
July.....	4,137	4,064	4,065	73	72	0	0	3,859	3,867
August.....	3,165	3,118	3,118	47	47	0	0	2,912	2,917
September.....	4,401	4,313	4,314	88	87	0	0	4,054	4,109
October.....	3,793	3,683	3,685	108	106	2	2	3,527	3,534
November.....	4,827	4,731	4,731	95	95	1	1	4,509	4,525
December.....	4,059	3,944	3,944	114	114	1	1	3,800	3,798
Total.....	46,417	45,400	45,412	1,009	999	8	6	43,024	43,365

Marriages Reported During the Year

CITY OF

Month.	Total.	White.		Colored.		Chinese.		Single.	
		M.	F.	M.	F.	M.	F.	M.	F.
January.....	4,179	4,101	4,101	77	77	1	1	3,867	3,887
February.....	3,904	3,839	3,839	65	65	..	..	3,557	3,596
March.....	3,412	3,327	3,328	84	84	1	..	3,152	3,169
April.....	3,677	3,593	3,598	84	79	..	..	3,382	3,393
May.....	3,377	3,298	3,297	79	80	..	..	3,057	3,069
June.....	5,434	5,341	5,341	93	93	..	..	4,992	5,017
July.....	4,082	3,999	3,999	81	81	2	2	3,719	3,759
August.....	3,500	3,430	3,430	70	70	..	..	3,176	3,198
September.....	4,102	3,987	3,988	115	114	..	..	3,739	3,733
October.....	4,295	4,183	4,185	112	110	..	..	3,925	3,992
November.....	4,279	4,189	4,189	90	90	..	..	3,902	3,950
December.....	4,524	4,393	4,392	131	132	..	..	4,134	4,212
Total.....	48,765	47,680	47,687	1,081	1,075	4	3	44,602	44,975

VITAL STATISTICS.

Ending December 31, 1910.

NEW YORK.

Widowed.		Di- vorced.		Native.		Foreign.		Religious Marriages.				Civil Marriages.	
M.	F.	M.	F.	M.	F.	M.	F.	Cath- olic.	Protes- tant.	Jewish.	Ethi- cal Cul- ture.	Alder- manic.	Judi- cial.
288	207	25	37	1,231	1,347	2,562	2,446	1,029	1,001	1,226	0	532	5
223	191	14	19	1,089	1,186	2,286	2,189	1,090	927	985	3	366	4
212	167	30	31	907	1,023	2,008	1,892	469	884	1,113	0	438	11
313	245	29	37	1,368	2,550	2,822	2,640	1,360	969	1,183	0	669	9
207	186	22	33	1,018	1,138	1,849	1,729	908	935	440	3	570	11
273	226	36	41	1,932	2,097	2,963	2,798	1,522	1,585	1,243	5	536	4
246	236	32	34	1,597	1,749	2,540	2,388	1,289	1,225	1,039	1	574	9
225	213	28	35	1,196	1,314	1,969	1,851	949	934	646	0	629	7
305	246	42	40	1,709	1,883	2,692	2,518	1,328	1,378	992	0	697	6
237	216	29	43	1,597	1,712	2,196	2,081	1,249	1,448	413	1	679	3
295	269	23	33	1,871	1,066	2,956	2,761	1,644	1,409	1,142	0	622	10
231	217	28	44	1,452	1,633	2,707	2,426	1,110	1,209	1,149	2	587	2
3,055	2,619	338	433	16,967	18,698	29,450	27,719	13,947	13,904	11,571	15	6,899	81

Ending December 31, 1911.

NEW YORK.

Widowed.		Di- vorced.		Native.		Foreign.		Religious Marriages.				Civil Marriages.	
M.	F.	M.	F.	M.	F.	M.	F.	Cath- olic.	Protes- tant.	Jewish.	Ethi- cal Cul- ture.	Alder- manic.	Judi- cial.
282	254	30	38	1,262	1,468	2,917	2,711	1,114	933	1,478	..	648	6
312	274	35	34	1,379	1,497	2,525	2,407	1,305	951	1,000	3	638	7
228	203	32	40	1,079	1,254	2,333	2,158	935	792	1,125	2	553	5
261	233	34	51	1,357	1,542	2,320	2,135	856	1,013	1,090	2	710	6
291	269	29	39	1,220	1,352	2,157	2,025	1,225	954	486	1	706	5
398	364	44	53	1,274	1,483	3,160	2,951	1,688	1,525	1,469	3	742	7
328	280	35	43	1,678	1,850	2,404	2,232	1,250	1,226	937	1	661	7
289	265	35	37	1,319	1,416	2,181	2,084	1,214	863	787	2	633	1
322	313	41	56	1,750	1,929	2,352	2,173	1,455	1,049	828	3	762	5
338	261	32	42	1,727	1,887	2,568	2,408	1,509	1,220	752	1	750	3
348	277	29	52	1,585	1,776	2,694	2,503	1,385	1,170	970	4	743	7
353	277	37	35	1,727	1,978	2,797	2,546	1,331	1,184	1,285	1	720	3
3,750	3,270	413	520	18,357	20,432	30,408	28,333	15,327	12,880	12,207	23	8,266	62

VITAL STATISTICS.

New York Meteorological Observatory, Central Park, New York City.

Thermometer (in Shade.) Means for Each Day, Monthly, for the Year 1910.

FAHRENHEIT DEGREES.

Days	Jan-uary	Feb-uary	March	April	May	June	July	August	Septem-ber	Octo-ber	Novem-ber	Decem-ber
1	27.2	25.7	44.5	53.4	59.5	55.0	78.3	70.7	72.0	71.0	52.1	35.1
2	35.5	32.2	40.4	56.9	57.3	57.5	81.3	72.4	70.5	59.5	57.9	29.7
3	36.2	37.8	41.5	54.0	61.2	59.5	81.0	75.5	70.4	61.1	45.1	32.7
4	12.0	30.8	40.7	53.7	54.7	57.8	77.0	77.2	76.0	70.5	44.6	34.0
5	14.9	27.8	43.3	63.7	53.2	58.5	74.0	72.3	79.9	74.6	46.6	29.2
6	35.5	13.5	45.4	62.0	54.4	66.0	74.6	72.3	82.9	76.0	45.3	26.4
7	31.7	9.8	41.0	48.3	59.9	63.0	73.4	71.7	77.1	61.2	41.0	26.0
8	24.0	28.5	34.3	42.1	60.2	63.6	80.6	70.7	71.9	55.4	39.0	30.1
9	28.0	36.1	37.2	48.0	64.4	65.2	82.7	69.7	72.9	58.3	44.8	24.6
10	23.3	30.4	32.3	49.7	61.8	58.8	84.0	70.5	64.5	55.5	52.5	23.0
11	22.7	24.5	36.7	49.0	59.7	58.5	81.7	72.9	67.7	63.7	43.2	22.8
12	29.8	29.4	36.7	47.7	55.9	61.1	78.7	73.2	69.0	58.9	36.9	22.0
13	30.7	25.8	38.0	45.7	55.2	67.5	80.5	73.9	71.5	49.4	38.9	23.4
14	24.7	27.4	31.5	55.2	52.3	72.6	76.6	74.5	64.7	64.0	39.6	31.1
15	22.7	36.5	28.8	62.3	54.2	74.2	78.6	76.0	63.2	62.0	38.7	31.4
16	24.0	41.5	36.4	54.7	59.0	69.4	77.0	74.7	64.0	65.8	39.2	15.7
17	30.2	31.7	32.2	51.0	60.2	70.2	71.6	69.7	64.0	61.0	39.7	21.2
18	41.5	24.9	31.7	57.7	61.1	71.1	68.3	69.6	68.9	61.4	39.5	34.4
19	35.3	21.1	41.3	57.5	63.1	75.8	68.4	73.1	62.9	64.9	37.2	38.9
20	37.8	31.6	48.3	55.5	65.8	77.9	70.3	69.0	65.3	66.7	34.0	33.0
21	45.0	42.0	41.5	56.4	70.2	81.5	72.5	71.2	71.0	56.5	39.6	22.0
22	41.5	37.8	45.3	60.9	62.9	80.7	74.0	71.5	62.1	54.6	42.5	23.5
23	35.6	27.7	51.2	62.0	63.1	82.6	79.8	73.0	64.0	51.3	43.0	35.5
24	40.2	18.0	47.4	55.9	70.8	73.8	84.6	75.6	69.3	51.5	47.1	42.7
25	34.2	18.4	61.0	61.4	70.8	69.2	84.5	79.2	71.4	55.3	44.1	29.3
26	30.5	31.2	51.0	61.6	67.1	70.4	80.3	72.6	72.8	50.3	39.8	30.7
27	36.3	46.3	46.9	59.0	58.7	72.2	78.5	65.2	74.4	59.1	39.4	35.6
28	34.1	52.2	49.7	53.1	65.3	74.6	78.0	66.7	70.7	50.4	40.1	40.7
29	31.8	...	63.2	51.1	70.0	75.5	75.9	69.3	63.2	43.3	40.1	45.9
30	31.4	...	63.7	65.1	63.6	78.1	75.8	69.2	64.1	41.9	37.8	36.7
31	32.7	...	50.8	...	57.8	...	51.2	70.6	...	47.7	...	24.3
Mean for the month...	31.18	30.02	43.05	55.15	61.08	68.72	77.23	72.06	69.42	58.81	42.34	30.0

Rain and Snow-Water. Daily Precipitation, Monthly, for the Year 1910.

INCH.

Days	Jan-uary	Feb-uary	March	April	May	June	July	August	Septem-ber	Octo-ber	Novem-ber	Decem-ber
1	...	...	.43	...	...	...	...	...	1.20	...	...	...
2	...	...	.27	...	...	...	...	...	.02	...	...	...
3	...	.19	...	...	.04	.01	...	.10	.06	...	2.60	...
4	...	...	...	.15	...	...	...	.03	...	...	.77	...
5	.24	...	...	...	...	.74	...	...	...	...	.02	...
6	1.18	...	...	.04	...	.21	...	...	.05	...	...	.21
7	.64	...	.16	...	...	.15	.07	...	...	.10	...	.04
8	...	...	...	...	.09	...	...	.02	...	...	.01	...
9	...	.22	...	...	.09	.40	...	.02	.09	...	...	...
10	...	...	...	...	...	.46	...	.37	...	...	...	.05
11	...	.16	...	...	...	.29	...	.02	...	...	...	.08
12	...	.43	...	...	...	2.18	...	...	...	...	...	...
13	...	...	.04	...	...	...	...	...	...	...	...	...
14	.54	...	...	...	.04	...	...	...	...	...	.04	...
15	.03	...	...	...	...	...	...	.20	...	.10	...	...
16	...	...	...	...	...	.50	.02	...	...	...	...	...
17	.08	.21	.11	.72	...	.01	.29	...	...	...	...	...
18	.33	.16	...	.75	.35	1.06	...	...	...	...	...	...
19	...	...	...	.66	...	...	.01	.13	...	...	...	.26
20	...	...	.01	...	.04	...	...	...	...	2.51	...	.01
21	.68	.18	...	...	.35	...	...	...	...	...	...	...
22	.20	.39	...	...	...	...	...	...	...	.45	.02	...
23	...	...	...	...	.04	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	1.09
25	.23	...	...	1.35	.25	...	.01	...	...	...	.47	...
26	...	...	...	1.19	...	...	...	.04	...	...	...	...
27	.01	...	...	...	...	...	...	...	...	...	...	...
28	.19	1.21	...	...	...	.02	...	.04	...	.01	.26	.04
29	.29	...	...	.10	...	...	...	.10	...	...	.11	...
30	...	...	...	.04	.14	...	.09	...	...	...	...	.10
31	...	...	...	...	.06	...	...	...	...	...	...	...
Mean for the month...	4.64	3.15	1.02	5.00	1.49	6.03	.49	1.07	1.42	3.23	4.30	1.88

VITAL STATISTICS.

U. S. Department of Agriculture Weather Bureau.

ANNUAL METEOROLOGICAL SUMMARY—1911

With Comparative Data.

ANNUAL SUMMARY.

The mean temperature for the year was 52.9 degrees or 1.2 degrees above the normal. June, August and November were the only months below normal. The month most below normal was November with an average daily deficiency of 2.6 degrees. January and December were both mild, and the first half of July nearly broke the record for continuously high temperature. The extreme range in temperature was from 98 degrees on July 3, to 15 degrees on January 5, or 83 degrees. In the last 41 years, the only other year with so small an extreme annual variation in temperature was 1902, when the range was from 91 to 8. The greatest annual variation was 103 degrees, from 97 to —6 in 1899.

The total precipitation for the year was 40.34 inches or 4.29 inches below the normal. Beginning with September 1, 1908, there had been an almost continuously accumulating deficiency in precipitation till August 24, 1911. For this period of nearly three years the total deficiency reached the almost unprecedented figure of 28.69 inches, or in other words the total precipitation for the period fell short of the normal amount by about 20 per cent. This reduced the water supply of the city to a dangerously low point. There were heavy rains the last week in August, and since then the deficiency has gradually decreased. Considerable improvement in the water supply has resulted.

Other features of the year's weather are set out in more detail in the summaries by months, below, and in the tables and charts on the following pages.

WEATHER BY MONTHS.

January—Foggy weather was almost continuous during the first three days of the month, so that ocean liners were prevented from entering the harbor; and on the 2nd, traffic by ferry boats was suspended throughout the day. Temperatures were generally high. The warmest day was the 2nd, when the temperature averaged 51 degrees, or 20 degrees above normal. It turned cold rapidly on the 3rd, reaching 15 degrees on the 5th—the lowest recorded during the month. There was another moderately cold period from the 16th to the 18th. One inch of snow occurred on the 22nd. By the 26th this had all disappeared. With this exception, the ground was not covered with snow. Northwest gales on the 28th and 30th caused damage to vessels in the harbor. The highest velocity was 66 miles per hour from the northwest on the 30th.

February—The month was nearly normal in both temperature and precipitation. A heavy rainstorm in the early morning of the 3rd was accompanied by lightning and thunder. Thunderstorms in February are of rare occurrence. Snow to the depth of 2.6 inches occurred on the 6th. This had all melted by the 10th. Snow occurred also on the 14th, 15th and 20th, so that more or less snow lay on the ground almost continuously from the 14th to the 24th. The sunshine for this month was 48 per cent. of the possible amount and 12 per cent. below normal, the greatest deficiency being from the 6th to the 20th, inclusive. There were nine days, practically one-third of the month, with no sunshine.

March—The first week of the month was cold. Snow squalls occurred on the afternoon of the 2nd, and 2.3 inches of snow fell on the 6th. This was followed by a period of mild temperature which was terminated on the 15th and 16th by northwest gales and a cold wave which was quite severe for the time of year. The minimum temperature of 16 degrees for the month was recorded on the morning of the 16th. This cold wave is shown graphically on the temperature chart on page 11. The mean temperature of 20 degrees on the 16th made this the coldest day of the year. The temperature then

VITAL STATISTICS.

moderated rapidly, reaching 67 degrees, the maximum for the month, on the 22nd. The month closed about normal in temperature. There was more than the usual amount of sunshine. The precipitation, while deficient in amount, was evenly distributed through the month. There were many gales in the last half of the month.

April—Cold weather for the season prevailed during the first four days of April. A rain of 1.43 inches occurred on the 4th and 5th, followed by a decided rise in temperature to 68 degrees on the 6th. Then came a gradual decline in temperature, and a wet snow amounting to 0.7 inch fell on the 9th. The month closed warm and dry, so that the mean temperature for the month was practically normal, and the total precipitation below normal. The last killing frost in spring was recorded on the 3rd, and the last heavy frost on the 12th.

May—Warm and dry weather characterized the month. There was, however, a period of cold with northwest gales on the 2nd and 3rd. The highest wind was 55 miles per hour from the northwest on the 2nd. Rains were not infrequent, but the total amount was small as shown graphically by the nearly continuous horizontal line on the chart of accumulated precipitation on page 6. The deficiency in precipitation amounted to 2.27 inches. There was of course a correspondingly large amount of sunshine, the per cent. recorded being 72 as compared with the normal of 58. On seven days the sunshine was 100 per cent. of the possible amount.

June—Absence of extreme variation in temperature placed the weather of June in striking contrast with that which followed in July. Rains were frequent, occurring on 17 days of the month, equaling the record for greatest number of rainy days in June. Thunderstorms were of daily occurrence from the 10th to the 15th, and from the 22nd to the 24th, inclusive. Those on the 10th, 11th and 15th were violent. The excess in precipitation for the month was 1.37 inches. This was the first month since November, 1910, having an excess of precipitation. Notwithstanding the rainy character of the month the amount of sunshine was 64 per cent. of the possible and 3 per cent. above the normal. This is accounted for by the fact that about three-fourths of the rainfall occurred during the night-time.

July—Hot weather, exceeded only by that of July, 1901, in duration and intensity, prevailed during the first 13 days of the month. The highest temperature, 98 degrees on the 3rd, was only one degree below the highest July temperature of record at this station. The average for the 13 days was 81 degrees. Hundreds of people in this city died from sunstroke or the cumulative effects of the protracted hot spell. The Health Department placed the deaths at 493. More than a thousand were prostrated. The last half of the month was comparatively cool, so that the average daily excess in temperature for the month was only 2.5 degrees. The deficiency in precipitation was 2.99 inches. The shortage in the City's water supply caused the adoption of emergency measures in economizing and in providing for an additional supply.

The sunshine was 72 per cent. of the possible amount, equaling that of May, and exceeding the normal by 10 per cent. There was only one day, the 17th, with no sunshine.

August—Excepting a rather warm period from the 9th to the 17th, temperatures were moderate. Dry weather continued, and the danger of a water famine in the city became serious. But on the 24th, rains set in and continued through the 31st, being heavy on the 25th and 27th, and excessive on the 30th and 31st, when 3.53 inches occurred in twenty-four hours. This was the heaviest rain of the year. It is shown graphically by the long vertical column on the chart of accumulated precipitation on page 6. The period of eight days from the 24th to 31st, inclusive, with appreciable rains on each day, was the longest period with rain on consecutive days during the year. The sunshine was slightly above the normal. On eight days the full amount of possible sunshine occurred.

September—Showers were more frequent than usual, but they were light, and the total amount of precipitation for the month fell 2.08 inches below the normal. The number

VITAL STATISTICS.

of days with .01 inch or more of precipitation was 11, as compared with the normal number, 8. Temperatures were variable and generally below normal during the first half of the month, above normal from the 16th to the 25th, and cool at the close of the month. A northwest to north gale prevailed from midnight of the 29th to noon of the 30th. The highest velocity was 62 miles per hour from the north at 3:38 a. m. of the 30th.

October—Well distributed rains gave further relief from the impending water famine. The total amount was 5.38 inches, which was 1.67 above the normal. The greatest amount in twenty-four hours was 1.82 inches on the 18th and 19th. Temperatures were about normal. Southwest to northwest gales prevailed on the 4th and 5th, and southeast to south gales on the 18th. The month was remarkable for its extremes of sunshine and cloudiness. There were eight days with 100 per cent. of sunshine, and eight days with complete cloudiness and no sunshine. The six-day period from the 17th to the 22nd was entirely without sunshine. The sunshine for the month was 52 per cent.—6 per cent. below the normal.

November—Gales and stormy weather prevailed on many days. Temperature variations were extreme and rapid. A decided cold wave occurred on the 12th and 13th. The temperature fell 44 degrees from 1 p. m. of the 12th to 7 a. m. of the 13th. The minimum of 24 degrees for the month was recorded at 7 a. m. of the 13th. The highest wind velocity was 72 miles per hour from the northwest on the 12th.

December—Mild weather with few severe temperature changes marked the month of December, 1911, in contrast with that of 1910, which was one of the coldest Decembers on record. During the eight-day period from the 8th to the 14th, inclusive, the temperature averaged 13 degrees above normal, being second only among the warm periods of the last 41 Decembers. Snow to the depth of 6.5 inches fell on the 3rd and 4th. By the 9th this had all disappeared, and the ground continued bare till the 31st, when 0.8 inch of snow occurred. The total precipitation was but slightly below the normal. During the nine-day period from the 5th to the 13th there was no precipitation whatever.

MISCELLANEOUS DATA FOR 1911.

Barometric Pressure (reduced to sea-level)—Mean, 30.06 inches; highest, 30.71 inches; January 24th; lowest, 29.20 inches, March 30th.

Temperature—Greatest daily range, 36 degrees, November 12th; least daily range, 4 degrees, October 18th.

Greatest monthly range, 54 degrees, April; least monthly range, 33 degrees, October.

Highest mean temperature of three consecutive days, 85 degrees, July 3rd to 5th, lowest mean temperature of three consecutive days, 23 degrees, January 16th to 18th.

Precipitation—Longest period without a measurable amount of precipitation (.01 in. or more), 11 days, July 29th to August 8th, inclusive.

Greatest number of consecutive days with precipitation (.01 inch or more), 8 days, August 24th to 31st, inclusive.

Snow—Greatest snowfall in 24 hours, 6.5 inches, December 3rd and 4th.

Greatest depth of snow on the ground, measured at 8 p. m., 6.0 inches, December 4th.

Last snow in spring occurred on April 22nd; first snow in autumn occurred on November 2nd.

Frost—In Spring; last killing frost occurred on April 3rd; last heavy frost occurred on April 12th. No light frost recorded subsequent to last heavy.

In Autumn: first light frost occurred on October 27th; first killing frost occurred on November 3rd.

Thunderstorms—First, February 4th; last, September 26th.

Hail—March 27th.

VITAL STATISTICS.

Annual Meteorological Summary, New York, N. Y., Year 1911.

Month.	Temperature.						Precipitation.			Sunshine.			
	Mean.			Extremes.			Total.	Maximum in 24 hours.	Snowfall.	Number of hours.	Percent of possible.		
	Maximum.	Minimum.	Monthly.	Maximum.	Date.	Minimum.						Date.	
January.....	41	28	35	54	2	15	5	2.27	0.76	1-2	1.1	139	47
February.....	38	25	31	56	26	15	3	3.17	1.48	3-4	12.5	144	48
March.....	44	31	38	67	22	16	16	2.87	0.91	29	2.8	250	67
April.....	56	41	48	78	29	24	2	3.06	1.30	4-5	0.7	260	65
May.....	72	55	64	84	22	36	3	0.91	0.56	31-1	0.0	323	72
June.....	76	61	68	89	28	52	16	4.63	1.49	11-12	0.0	287	64
July.....	84	68	76	98	3	62	28	1.55	0.55	20-21	0.0	328	72
August.....	78	65	72	92	11	54	30	7.38	3.53	30-31	0.0	262	61
September.....	74	60	67	83	6	48	14	1.51	0.52	29-30	0.0	242	65
October.....	62	50	56	72	4	39	28	5.38	1.82	18-19	0.0	178	52
November.....	48	34	41	68	12	24	13	4.22	1.42	6-7	1.0	179	60
December.....	46	33	39	60	12	18	5	3.39	0.90	3-4	7.3	140	49
Year.....	60	46	53	98	July 3	15	Jan. 5	40.34	3.53	Aug. 30-31		2733	60

Normal and Comparative Data Based on Records of Last 19 to 40 Years.

Month.	Temperature.						Precipitation.				Sunshine.		
	Maximum.	Minimum.	Mean.	Highest mean.	Lowest mean.	Daily range.	Daily variability.	Monthly.	Greatest monthly.	Least monthly.	Snowfall.	Number of hours.	Percent of possible.
January.....	37	24	30	40	23	13	6	3.79	6.15	1.15	9.6	154	51
February.....	38	24	31	45	23	14	6	3.74	7.81	0.82	10.7	182	60
March.....	45	31	38	48	29	14	5	4.10	7.90	0.86	7.6	206	56
April.....	57	41	48	54	41	16	5	3.30	7.02	1.00	0.9	238	60
May.....	68	52	59	65	54	16	4	3.18	9.70	0.33	0.0	259	58
June.....	77	61	68	72	64	16	4	3.26	7.70	0.86	0.0	277	61
July.....	82	67	74	78	70	16	3	4.54	9.63	0.23	0.0	284	62
August.....	80	66	72	77	69	14	3	4.53	10.42	1.18	0.0	257	60
September.....	74	60	66	72	61	14	4	3.59	14.51	0.15	0.0	230	61
October.....	63	49	56	61	50	14	4	3.71	11.55	0.58	0.0	204	58
November.....	51	38	44	50	37	13	5	3.44	9.82	0.75	1.4	158	53
December.....	41	28	34	42	25	13	6	4.45	6.66	0.95	7.0	147	51
Year.....	59	45	52	54	49	15	5	44.63	58.68	35.73	36.8	2584	58

