

**TUBERCULOSIS
IN NEW YORK CITY
1959**

NEW GAINS AGAINST TUBERCULOSIS

♦

A review by

ANTHONY M. LOWELL

OR 3-3935

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**NEW YORK TUBERCULOSIS
AND HEALTH ASSOCIATION, INC.**



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AND HEALTH ASSOCIATION
260 Park Ave. South
New York 10, N.Y.

1960

TUBERCULOSIS HIGHLIGHTS
NEW YORK CITY
YEAR 1959

TUBERCULOSIS, among 7,700,000 New York City residents, was responsible for

779 deaths
4,924 newly reported with active disease
16,909 known active "cases" on record during
the year
9,270 persons still requiring medical care or
supervision on December 31.

* * *

Thousands of other New Yorkers were going about the city, with unknown active tuberculosis, unaware of serious illness. Among these people the disease is a continuing menace to their own health and life as well as that of their families and other Associates.

* * *

Among 299,389 patients having x-ray examinations at the time of admission to General Hospitals there were 1,589 cases of active pulmonary tuberculosis.

The Department of Health and the Tuberculosis Associations took 511,899 x-rays in case-finding programs.

Specific antibacterial drug treatment for tuberculosis by the Department of Health alone was provided to 5,716 individuals at the end of the year.

Of the 9,270 residents with active tuberculosis at year-end, 4,653 were in hospitals and sanatoria, 2,770 attending clinics, 625 under private physicians' care, and 1,222 under other types of supervision.

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TUBERCULOSIS TODAY

Once again it is gratifying to report further progressive gains against tuberculosis in New York City. New milestones have been reached and there is hope that, with the present rate of progress, in a generation or two we may see tuberculosis as a comparatively minor cause of illness and death. Tuberculosis is no longer one of the ten leading causes of death. This in itself is an achievement of major importance. Whereas only a few years ago the annual mortality was measured in the thousands, today we count the deaths in hundreds. Last year there were 779 deaths recorded as compared to 833 in 1958 and 2,321 in 1950.

During 1959 there were 4,924 newly reported cases of tuberculosis that came to the attention of public health authorities. The number reflected a ten percent decline from the year before.

On December 31, 1959 there were still 9,270 persons with active tuberculosis listed on the Department of Health tuberculosis register as under treatment or supervision. The majority of these persons were under care of hospitals and sanatoria (4,653), and various tuberculosis clinics (2,770) within the city.

* * *

Special acknowledgments are due the Bureau of Tuberculosis, the Bureau of Records and Statistics of the Department of Health and also the Department of Hospitals, the City of New York, who have generously made available important detailed statistics of their community-wide activities. Thanks are also due the cooperating tuberculosis hospitals throughout the New York Metropolitan Area, and other authorities who have continued to furnish reports and have assisted in providing basic information on tuberculosis. -- A.M.L.

TUBERCULOSIS MORBIDITY AND MORTALITY, CITY OF NEW YORK, 1959 AND 1958

A - New Cases of Tuberculosis Reported in Each Borough

Boroughs	Number of New Cases			Case Rate per 100,000		
	1959	1958	Change 1959/58	1959	1958	Change 1959/58
Manhattan	2,290	2,602	- 312 = 12%	127.6	145.0	- 17.4 = 12%
Bronx	725	751	- 26 = 3%	50.9	52.7	- 1.8 = 3%
Brooklyn	1,371	1,501	- 130 = 9%	52.7	57.7	- 5.0 = 9%
Queens	478	559	- 81 = 14%	27.1	31.7	- 4.6 = 15%
Richmond	60	69	- 9 = 13%	28.3	32.5	- 4.2 = 13%
New York City	4,924	5,482	- 558 = 10%	63.2	70.3	- 7.1 = 10%

B - Total Register of Tuberculosis Cases* By Boroughs During 1959

Boroughs	Population April 1 1957 ^x	Cases in Register on Jan. 1 1959	New Cases Reported during year	Old Cases Re-summed ^{xx}	Total Known Cases during 1959	Removed# from Register during year	Remaining in Register on Dec. 31 1959
Manhattan	1,794,069	4,904	2,290	940	8,134	3,601	4,533
Bronx	1,424,367	1,323	725	237	2,285	1,040	1,245
Brooklyn	2,602,433	2,559	1,371	456	4,386	2,095	2,291
Queens	1,762,582	1,246	478	161	1,885	797	1,088
Richmond	212,020	121	60	38	219	106	113
New York City ..	7,795,471	10,153	4,924	1,832	16,909	7,639	9,270

C - Mortality From All Forms of Tuberculosis, By Boroughs

Boroughs	Deaths within City			Death Rate per 100,000		
	1959	1958	Change 1959/58	1959	1958	Change 1959/58
Manhattan	320	345	- 25 = 7%	17.8	19.2	- 1.4 = 7%
Bronx	93	114	- 21 = 18%	6.5	8.0	- 1.5 = 19%
Brooklyn	226	206	+ 20 = 10%	8.7	7.9	+ 0.8 = 10%
Queens	87	110	- 23 = 21%	4.9	6.2	- 1.3 = 21%
Richmond	9	13	- 4 = 31%	4.2	6.1	- 1.9 = 31%
New York City Residents..	735	788	- 53 = 7%	9.4	10.1	- 0.7 = 7%
Total Recorded§	779	833	- 54 = 6%	10.0	10.7	- 0.7 = 7%

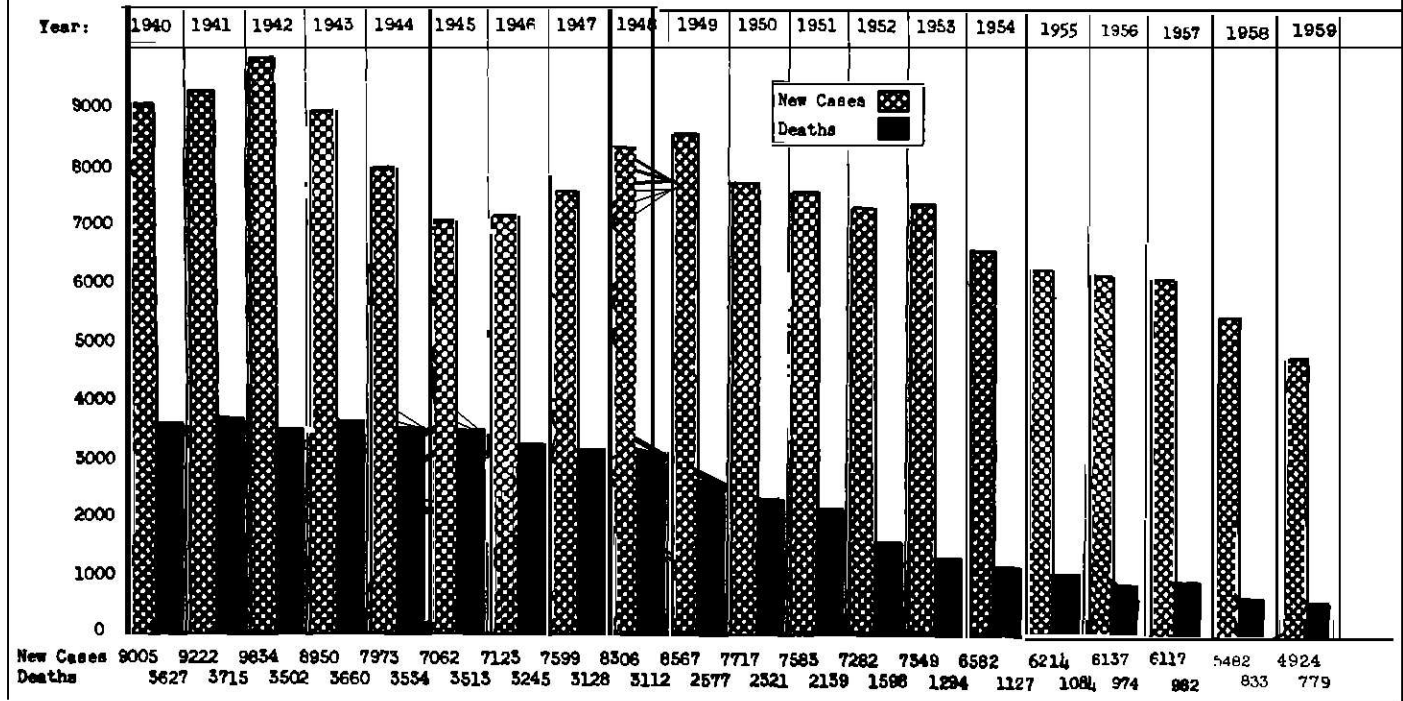
§Including non-residents and persons with unknown address.

D - Classification, Tuberculosis Cases* In Register (end of year)

Classification	On Dec. 31, 1959, by Boroughs and for entire City						Change 1959/58
	Man.	Bronx	Bklyn.	Queens	Rich.	Total	
In institutions in city ..	2,008	519	995	426	48	3,996	- 382 = 9%
Out of town in sanatoria ..	379	64	140	60	14	657	- 87 = 12%
Total hospitalized	2,387	583	1,135	486	62	4,653	- 469 = 9%
Health Department clinics ..	718	283	728	257	11	1,997	- 126 = 6%
Other clinics	439	142	129	61	2	773	- 158 = 17%
Attending clinics	1,157	425	857	318	13	2,770	- 284 = 9%
Private physicians	127	95	161	214	28	625	- 65 = 9%
"Home care" [†]	6	2	1	4	0	13	- 6 = 32%
"Pending" [‡]	753	114	108	15	9	999	- 38 = 4%
Out of town, not in hosp..	16	4	2	2	0	24	- 4 = ..
Other	87	22	27	49	1	186	- 17 = ..
Total in register	4,533	1,245	2,291	1,088	113	9,270	- 883 = 9%

*All forms: pulmonary and non-pulmonary. [†]Under medical supervision and treatment by Department of Hospitals. [‡]Type of care not confirmed. [#]Because of death, leaving city, recovery. Note: "Register" refers to residents of borough. ^xPopulation, 1957 enumeration by U.S. Bureau of the Census. ^{xx}Including 450 cases estimated to have been "old cases resumed - prev. other". Compiled from reports, courtesy of the Department of Health, City of New York, by New York Tuberculosis and Health Association.

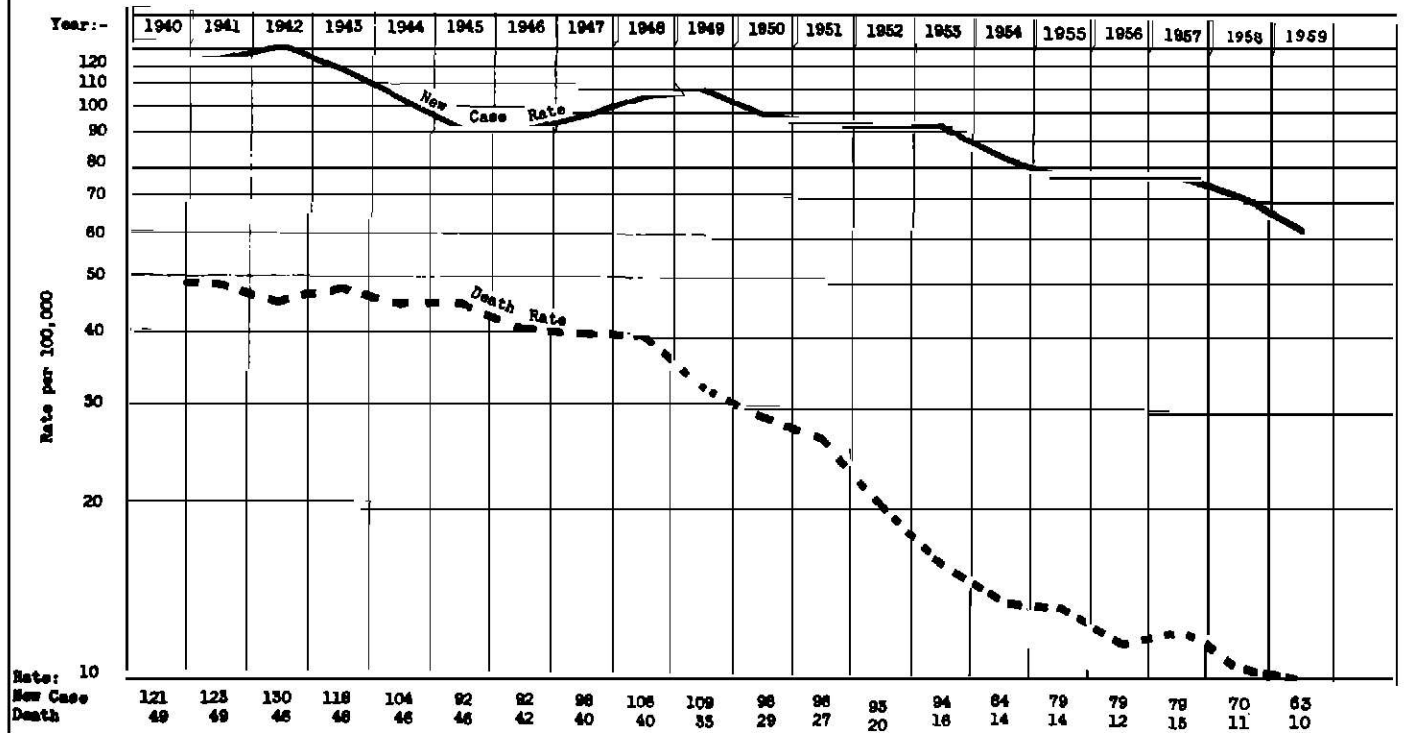
NEW CASES AND DEATHS, TUBERCULOSIS, NEW YORK CITY, SINCE 1940



Based on reports by courtesy of the Bureau of Records and Statistics, Department of Health, City of New York.

New York Tuberculosis and Health Assn.

NEW CASE RATE AND DEATH RATE, TUBERCULOSIS, NEW YORK CITY, SINCE 1940



Based on reports by courtesy of the Bureau of Records and Statistics, Department of Health, City of New York.

New York Tuberculosis and Health Assn.

NEW CASES OF TUBERCULOSIS REPORTED DURING THE YEAR

During the year both public and private health agencies continued in their drive to find those New Yorkers who harbor active tuberculosis. The discovery of previously unknown tuberculosis is one of the prime objectives of the city-wide program.

In 1959 there were 4,924 new cases of active tuberculosis discovered compared to 5,482 cases in 1958. With fewer infectors in the community the annual toll of new cases has declined. Almost half of the new cases in 1959 (2,290) were registered as residents of Manhattan, producing a case rate of 128 for this borough or several times the rates in the other four boroughs (Brooklyn = 53, Bronx = 51, Richmond = 28, Queens = 27). Although there was a general decrease of new cases for the city as a whole, nine of the health center districts had a few more new cases reported in 1959 than in 1958.

NEW CASES OF TUBERCULOSIS BY BOROUGH, NEW YORK CITY, 1950-1959

Year	Manhattan	Bronx	Brooklyn	Queens	Richmond	New York City
NEW CASES REPORTED						
1950	3,847	944	1,948	859	119	7,717
1951	3,736	990	1,866	883	108	7,583
1952	3,567	910	1,875	825	105	7,282
1953	3,690	904	1,845	812	98	7,349
1954	3,404	804	1,619	672	83	6,582
1955(*)	2,994	872	1,644	605	99	6,214
1956	2,895	850	1,700	626	66	6,137
1957	3,002	821	1,598	634	62	6,117
1958	2,602	751	1,501	559	69	5,482
1959	2,290	725	1,371	478	60	4,924
CASE RATE PER 100,000(†)						
1950	197	65	71	55	62	98
1951	194	68	69	56	55	96
1952	187	63	70	51	53	93
1953	196	63	69	49	49	94
1954	183	56	61	40	41	84
1955	163	61	62	35	48	79
1956	160	60	65	36	31	79
1957	167	58	61	36	29	79
1958	145	53	58	32	33	70
1959	128	51	53	27	28	63

(*)Includes 51 infants, recently tuberculin positive, given prophylactic antimicrobials. (†)Case rates based on revised population estimates taking into account the 1957 enumeration by U.S. Bureau of the Census.

NEW CASES OF TUBERCULOSIS REPORTED IN NEW YORK CITY
By Health Center Districts, 1954-1959

Health Center DISTRICT	New Cases						Case Rate per 100,000(†)					
	1954	1955	1956	1957	1958	1959	1954	1955	1956	1957	1958	1959
Central Harlem	803	697	692	658	611	514	325	285	287	276	255	215
East Harlem	375	310	247	277	242	245	190	161	132	152	132	133
Kips Bay-Yorkville.	159	121	100	116	95	99	67	52	43	51	42	44
Lower East Side ...	817	694	800	911	734	655	272	233	270	309	249	222
Lower West Side ...	621	591	494	568	477	386	200	192	162	188	157	127
Riverside	382	354	309	293	291	263	138	130	115	111	110	99
Washington Hgts. ..	247	227	253	179	152	128	86	80	89	64	54	46
MANHATTAN:	3404	2994	2895	3002	2602	2290	183	163	160	167	145	128
Ford'm-Riverdale ..	58	80	47	87	64	75	25	34	20	37	27	32
Morrisania	184	223	232	244	217	201	65	80	84	90	80	74
Mott Haven	287	307	325	245	203	191	129	139	148	112	93	87
Pelham Bay	61	50	41	44	42	60	38	30	24	25	24	35
Tremont	133	145	132	114	130	125	47	52	48	42	48	46
Westchester	81	67	73	87	95	73	32	26	29	34	37	29
BRONX:	804	872	850	821	751	725	56	61	60	58	53	51
Bay Ridge	95	73	76	76	70	60	31	24	25	26	23	20
Bedford	331	371	420	309	349	286	112	127	146	108	122	100
Brownsville	142	150	156	170	153	165	51	54	57	62	56	60
Bushwick	140	148	131	133	138	109	63	68	61	62	65	51
Flatbush	115	112	84	110	100	94	24	24	18	23	21	20
Fort Greene	283	267	279	251	231	235	128	121	127	114	105	107
Gravesend	56	64	73	66	65	48	20	23	26	23	23	17
Red Hook-Gowanus ..	188	190	185	173	133	150	111	113	111	104	80	90
Sunset Park	102	130	112	124	88	80	49	64	56	64	45	41
Wmsbrg.-Greenp't ..	167	139	184	186	174	144	83	70	94	97	90	75
BROOKLYN:	1619	1644	1700	1598	1501	1371	61	62	65	61	58	53
Astoria-L.I.City ..	103	118	131	119	104	79	39	45	50	46	40	30
Corona	83	86	75	90	84	89	40	41	36	43	41	43
Flushing	122	102	76	86	97	77	32	26	18	20	22	18
Jamaica East	139	145	152	173	119	104	51	52	54	61	42	37
Jamaica West	142	80	107	97	99	72	49	28	36	33	33	24
Maspeth-For.Hills..	83	74	85	69	56	57	31	27	30	24	20	20
QUEENS:	672	605	626	634	559	478	40	35	36	36	32	27
RICHMOND:	83	99	66	62	69	60	41	48	31	29	33	28
NEW YORK CITY	6582	6214	6137	6117	5482	4924	84	79	79	79	70	63

(†)Case rates based on revised population estimates as of July 1 taking into account the 1950 and 1957 enumerations by U.S. Bureau of the Census. Rates for 1958 and 1959 are based on the population enumerated by the U.S. Bureau of the Census on April 1, 1957.

Based on reports, Bureau of Records and Statistics, Department of Health, City of New York. Compiled by New York Tuberculosis and Health Association.

Of all persons found to have tuberculosis (new cases), 51 percent were white, 33 percent Negro and 14 percent Puerto Rican.

SOURCE OF REPORT More than half of all new cases of active tuberculosis were reported by hospitals (56%) and sanatoria (2%) last year, and this has been the experience for a number of years. The Department of Health clinics account for over one-fourth of all new cases registered. Private physicians reported only four percent of all new cases, but this low percentage may be due to the practice of physicians referring patients to clinics when tuberculosis is suspected so that the clinics are credited with making the final diagnosis.

SOURCE OF REPORT, NEW CASES OF TUBERCULOSIS*
New York City, 1950-1959

Source of Report	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
NUMBER OF NEW CASES REPORTED										
Hospitals in city	3910	3907	3841	3894	3537	3335	3100	3209	3062	2781
Health Dept. clinics	1755	1882	1747	1903	1696	1686	2035	1894	1535	1430
Other clinics	730	735	658	615	569	495	497	465	406	328
Private physicians	779	607	633	526	419	392	276	239	247	208
Sanatoria, out of town	362	335	307	305	266	214	125	151	116	88
Other sources	181	117	96	106	95	92	104	159	116	89
All sources	7717	7583	7282	7349	6582	6214	6137	6117	5482	4924
PERCENT DISTRIBUTION BY SOURCE										
Hospitals in city	51%	51%	53%	53%	54%	54%	51%	52%	56%	56%
Health Dept. clinics	23%	25%	24%	26%	26%	27%	33%	31%	28%	29%
Other clinics	9%	10%	9%	8%	9%	8%	8%	8%	7%	7%
Private physicians	10%	8%	9%	7%	6%	6%	4%	4%	5%	4%
Sanatoria, out of town	5%	4%	4%	4%	4%	3%	2%	2%	2%	2%
Other sources	2%	2%	1%	1%	1%	2%	2%	3%	2%	2%
All sources	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

*Tuberculosis all forms. Note: Included are newly reported cases identified through death certificates.

STAGE OF DISEASE Among new cases the ratio of early to advanced stages of pulmonary tuberculosis has changed very little during the last decade. Whereas in 1950, 79 percent of the new cases reported were in the moderately and far advanced stages, in 1959 the proportion was 80 percent. In 1959, 20 percent of the new cases were in the minimal stage, 54 percent moderately advanced and 26 percent far advanced. It has been suggested that the failure to discover the majority of cases in the minimal stage in spite of modern diagnostic methods is due to the well-known fact that people do not seek medical attention until striking symptoms have appeared. Minimal tuberculosis is known to be relatively symptomless and insidious, and it is apparent that at this point few people are reached in case-finding x-ray surveys. Nevertheless, it is to be noted that the percentage of far advanced new cases has declined.

STAGE OF DISEASE, NEW CASES OF PULMONARY TUBERCULOSIS
New York City, 1950-1959

Year	Stage of Disease						Un-known †	Dead ‡	Total New Cases §
	Minimal		Mod. Adv.		Far Adv.				
	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent			
1950	1075	21%	2242	43%	1867	36%	776	558	6518
1951	1037	19%	2505	46%	1914	35%	452	423	6331
1952	970	18%	2535	49%	1703	33%	453	360	6021
1953	1020	19%	2709	50%	1681	31%	385	315	6110
1954	935	19%	2411	50%	1489	31%	332	272	5439
1955	834	19%	2166	49%	1421	32%	418	225	5064
1956	902	20%	2187	49%	1356	31%	454	190	5089
1957	827	18%	2429	54%	1232	28%	460	214	5162
1958	764	20%	2018	52%	1100	28%	478	153	4513
1959	731	20%	1975	54%	948	26%	398	144	4196

†Stage of disease unknown. ‡Cases identified through death certificate or reported at time of death only. §Pulmonary cases only.

Prior to 1955, cases of pulmonary tuberculosis were divided into two categories -- "pulmonary (adult)" and "primary (childhood Pulmonary)." The distinction between pulmonary and primary tuberculosis was unsatisfactory as it did not fully reflect a difference in type of pulmonary disease. On January 1, 1955 the Bureau of Tuberculosis started classifying all cases of pulmonary tuberculosis into those cases 10 years of age and over, and those under 10 years of age. For statistical purposes, these two groups should be considered equivalent to the groups formerly labeled "pulmonary" and "primary" tuberculosis. (Abstract from 1955 SERVICE STATISTICS BOOK, Bureau of Records and Statistics, Department of Health, City of New York.)

CASES OF PULMONARY TUBERCULOSIS
 First Reported at Time of Death†
 New York City, 1950-1959

Year	Manhattan		Bronx		Brooklyn		Queens		Richmond		N.Y. City	
	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent	Num-ber	Per-cent
1950	300	9.4%	55	7.1%	138	8.1%	59	7.6%	6	5.8%	558	8.6%
1951	216	7.0%	36	4.5%	115	7.3%	49	6.2%	7	7.4%	423	6.7%
1952	198	7.2%	39	5.5%	84	5.8%	35	5.2%	4	4.7%	360	6.4%
1953	190	6.8%	34	4.7%	70	4.7%	20	2.8%	4	5.2%	315	5.2%
1954	144	5.5%	37	5.9%	70	5.4%	19	3.3%	2	2.7%	272	5.3%
1955	123	4.8%	32	4.3%	50	3.5%	14	2.5%	6	6.9%	225	4.2%
1956	93	3.9%	14	2.0%	51	3.6%	31	5.6%	1	1.7%	190	3.7%
1957	94	3.7%	37	5.3%	58	4.4%	24	4.2%	1	1.8%	214	4.1%
1958	64	3.0%	27	4.3%	36	3.0%	22	4.7%	4	6.4%	153	3.4%
1959	66	3.4%	18	2.9%	40	3.5%	19	4.4%	1	1.8%	144	3.4%

†First identified through death certificates. Percentages in this table based on all new pulmonary cases reported.

Note: Number of persons first reported at time of death in 1959 (144) comprise 20 percent of 736 pulmonary tuberculosis deaths recorded during the year.

NEW CASES OF ACTIVE TUBERCULOSIS BY RACE
Health Center Districts, New York City, 1959

Health Center DISTRICT	White	Negro	Puerto Rican	Other	Not Stated	All Races	
						Number	Rate†
Central Harlem	14	462	20	0	18	514	215
East Harlem	87	69	82	2	5	245	133
Kips Bay-Yorkville	92	2	0	1	4	99	44
Lower East Side	372	72	115	29	67	655	222
Lower West Side	243	54	46	25	18	386	127
Riverside	116	80	49	9	9	263	99
Washington Heights	47	65	7	1	8	128	46
MANHATTAN:	971	804	319	67	129	2,290	128
Ford'm-Riverdale	65	4	1	1	4	75	32
Morrisania	65	82	45	2	7	201	74
Mott Haven	102	21	53	0	15	191	87
Pelham Bay	46	10	1	0	3	60	35
Tremont	70	29	18	2	6	125	46
Westchester	58	5	7	1	2	73	29
BRONX:	406	151	125	6	37	725	51
Bay Ridge	55	2	0	0	3	60	20
Bedford	36	230	10	0	10	286	100
Brownsville	77	65	20	0	3	165	60
Bushwick	63	21	16	0	9	109	51
Flatbush	86	4	0	0	4	94	20
Fort Greene	71	126	30	2	6	235	107
Gravesend	41	5	0	0	2	48	17
Red Hook-Gowanus	73	27	43	1	6	150	90
Sunset Park	76	0	2	0	2	80	41
Wmsbrg.-Greenpoint	54	14	76	0	0	144	75
BROOKLYN:	632	494	197	3	45	1,371	53
Astoria - L.I.City	66	7	0	0	6	79	30
Corona	71	17	0	0	1	89	43
Flushing	69	5	1	2	0	77	18
Jamaica East	45	57	0	0	2	104	37
Jamaica West	50	18	0	1	3	72	24
Maspeth-Forest Hills	43	0	0	0	14	57	20
QUEENS:	344	104	1	3	26	478	27
RICHMOND:	51	6	2	0	1	60	28
NEW YORK CITY:	2,404	1,559	644	79	238	4,924	63

†Per 100,000 population.

Based on reports, Bureau of Records and Statistics, Department of Health, City of New York. Compiled by New York Tuberculosis and Health Association.

NEW CASES, TUBERCULOSIS ALL FORMS, BY RACE AND SEX, NEW YORK CITY, SINCE 1943

Year	White			Negro			Puerto Rican			Yellow			Not Stated	All Races		
	Male	Fem.	Total	Male	Fem.	Total	Male	Fem.	Total	Male	Fem.	Total		Male	Fem.	Total
1943	3975	1705	5698	840	644	1490	101	89	191	173	4	181	1390	5986	2853	8950
1944	3426	1578	5015	814	710	1525	98	98	196	170	9	179	1058	5149	2733	7973
1945	2906	1489	4416	766	756	1522	123	131	254	112	9	124	746	4322	2651	7062
1946	3015	1522	4538	817	796	1613	124	167	291	102	7	109	572	4411	2699	7123
1947	3204	1638	4842	906	789	1695	191	240	431	111	12	123	508	4710	2889	7599
1948	3383	1689	5072	1044	915	1959	216	289	505	125	14	139	631	5179	3127	8306
1949	3296	1690	4986	1193	997	2190	236	314	550	102	19	121	720	5307	3260	8567
1950	3212	1434	4646	1017	917	1934	244	330	574	112	20	132	431	4854	2863	7717
1951	3056	1412	4468	1154	902	2056	280	356	636	116	19	135	288	4788	2795	7583
1952	2769	1317	4086	1118	934	2052	330	388	718	104	17	121	305	4527	2755	7282
1953	2802	1291	4093	1224	943	2167	346	379	725	120	15	135	229	4626	2723	7349
1954	2516	1056	3572	1100	833	1933	386	397	783	77	15	92	202	4210	2372	6582
1955	2393	954	3347	1028	834	1862	361	380	741	84	9	93	171	3971	2243	6214
1956	2321	841	3162	1071	790	1861	329	394	723	86	11	97	294	3985	2152	6137
1957	2381	877	3258	995	768	1763	393	379	772	75	10	85	239	4002	2115	6117
1958	2003	799	2802	1083	655	1738	337	321	658	71	10	81	203	3637	1845	5482
1959	1719	685	2404	942	617	1559	323	321	644	63	8	71	246	3232	1692	4924

Race or sex not stated. Note: Totals include other races and cases whose race or sex was not reported.

Compiled from reports of Bureau of Records and Statistics, Department of Health, City of New York, by New York Tuberculosis and Health Association.

NEW CASES OF TUBERCULOSIS, BY AGE AND SEX, NEW YORK CITY, 1952-1959
Part A - All Races, White

Age	0-4	5-10	10-15	15-20	20-25	25-30	30-35	35-45	45-55	55-65	65+	Un-known	All Ages
MALE, ALL RACES													
1952	217	100	46	156	275	339	370	712	927	727	502	156	4527
1953	215	105	49	126	288	420	335	765	927	711	596	89	4626
1954	192	98	44	123	264	346	330	630	857	736	512	78	4210
1955	224	84	41	100	232	277	295	632	778	709	527	72	3971
1956	200	92	41	91	193	248	311	671	806	711	567	54	3985
1957	135	93	37	98	185	246	292	612	777	757	702	68	4002
1958	191	89	44	86	212	209	301	598	675	649	515	68	3637
1959	123	67	34	73	151	214	253	531	624	574	526	62	3232
FEMALE, ALL RACES													
1952	163	80	61	210	393	428	319	430	245	153	167	106	2755
1953	174	123	64	177	392	473	277	446	250	139	161	47	2723
1954	183	96	78	142	289	392	284	389	210	128	137	44	2372
1955	210	80	64	140	262	304	287	360	210	139	147	40	2243
1956	178	79	48	153	231	323	268	353	211	126	151	31	2152
1957	163	90	49	150	213	264	237	359	234	161	156	39	2115
1958	147	73	56	105	192	198	218	322	220	97	166	51	1845
1959	121	62	54	103	165	176	201	284	207	127	151	41	1692
BOTH SEXES, ALL RACES													
1952	380	180	107	366	668	767	689	1142	1172	880	669	262	7282
1953	389	228	113	303	680	893	612	1211	1177	850	757	136	7349
1954	375	194	122	265	553	738	614	1019	1067	864	649	122	6582
1955	434	164	105	240	494	581	582	992	988	848	674	112	6214
1956	378	171	89	244	424	571	579	1024	1017	837	718	85	6137
1957	298	183	86	248	398	510	529	971	1011	918	858	107	6117
1958	338	162	100	191	404	407	519	920	895	746	681	119	5482
1959	244	129	88	176	316	390	454	815	831	701	677	103	4924
WHITE MALE													
1952	69	29	17	60	133	157	171	405	632	589	421	86	2769
1953	77	24	11	64	141	224	150	403	621	552	491	44	2802
1954	53	34	14	49	126	161	136	314	582	588	424	35	2516
1955	68	26	13	40	106	115	131	302	560	553	446	33	2393
1956	70	22	17	43	93	98	111	310	520	536	478	23	2321
1957	36	17	12	37	69	95	114	284	524	571	588	34	2381
1958	38	13	7	36	80	90	111	248	449	474	420	37	2003
1959	34	21	13	28	54	70	85	200	369	405	419	21	1719
WHITE FEMALE													
1952	61	32	18	94	157	160	132	231	139	100	135	58	1317
1953	53	46	22	63	171	199	121	234	147	87	126	22	1291
1954	44	17	28	60	124	150	114	190	108	85	115	21	1056
1955	65	24	22	49	103	111	110	142	112	82	113	21	954
1956	51	13	10	62	87	113	73	144	110	69	99	10	841
1957	37	14	18	42	74	109	74	140	134	100	113	22	877
1958	41	17	15	26	68	67	79	143	127	59	124	33	799
1959	33	17	17	33	49	59	64	97	109	70	121	16	685
WHITE BOTH SEXES													
1952	130	61	35	154	290	317	303	636	771	689	556	144	4086
1953	130	70	33	127	312	423	271	637	768	639	617	66	4093
1954	97	51	42	109	250	311	250	504	690	673	539	56	3572
1955	133	50	35	89	209	226	241	444	672	635	559	54	3347
1956	121	35	27	105	180	211	184	454	630	605	577	33	3162
1957	73	31	30	79	143	204	188	424	658	671	701	56	3258
1958	79	30	22	62	148	157	190	391	576	533	544	70	2802
1959	67	38	30	61	103	129	149	297	478	475	540	37	2404

NEW CASES OF TUBERCULOSIS, BY AGE AND SEX, NEW YORK CITY, 1952-1959
Part B - Negro, Puerto Rican

Age	0-4	5-	10-	15-	20-	25-	30-	35-	45-	55-	65+	Un- known	All Ages
NEGRO MALE													
1952	96	41	22	52	67	117	150	221	205	89	41	17	1118
1953	82	43	28	33	72	135	140	288	230	94	69	10	1224
1954	80	30	17	40	74	120	127	238	216	91	56	11	1100
1955	84	31	16	33	61	100	114	258	165	103	52	11	1028
1956	60	38	14	30	46	86	138	285	207	108	50	9	1071
1957	57	41	16	25	47	83	123	230	190	111	62	10	995
1958	99	56	23	24	66	72	140	268	162	116	53	4	1083
1959	56	28	9	25	49	83	114	225	176	109	55	13	942
NEGRO FEMALE													
1952	67	25	35	81	155	166	130	137	69	33	23	13	934
1953	77	42	23	72	145	184	113	147	82	28	22	8	943
1954	72	44	29	41	93	153	122	149	82	27	16	5	833
1955	99	36	27	59	76	117	135	158	62	38	24	3	834
1956	62	36	22	52	89	126	116	139	70	38	34	6	790
1957	68	50	13	63	79	93	110	173	66	32	18	3	768
1958	60	35	31	45	67	86	95	123	57	24	27	5	655
1959	55	28	24	40	61	70	89	134	56	36	20	4	617
NEGRO BOTH SEXES													
1952	163	66	57	133	222	283	280	358	274	122	64	30	2052
1953	159	85	51	105	217	319	253	435	312	122	91	18	2167
1954	152	74	46	81	167	273	249	387	298	118	72	16	1933
1955	183	67	43	92	137	217	249	416	227	141	76	14	1862
1956	122	74	36	82	135	212	254	424	277	146	84	15	1861
1957	125	91	29	88	126	176	233	403	256	143	80	13	1763
1958	159	91	54	69	133	158	235	391	219	140	80	9	1738
1959	111	56	33	65	110	153	203	359	232	145	75	17	1559
PUERTO RICAN MALE													
1952	45	27	6	35	55	48	27	47	27	8	3	2	330
1953	49	31	9	21	63	43	35	49	25	10	7	4	346
1954	53	27	10	24	55	49	49	55	28	21	11	4	386
1955	68	23	12	23	56	46	34	44	19	20	10	6	361
1956	63	29	10	11	39	45	34	43	31	16	7	1	329
1957	39	32	6	30	62	47	35	60	40	20	18	4	393
1958	49	19	13	23	57	36	31	48	24	23	11	3	337
1959	29	16	10	17	41	45	39	60	32	19	12	3	323
PUERTO RICAN FEMALE													
1952	31	22	8	27	71	82	44	50	25	14	5	9	388
1953	42	35	15	33	58	69	32	50	18	14	7	6	379
1954	62	27	18	35	66	78	40	37	15	10	4	5	397
1955	44	17	15	27	73	61	38	47	27	17	9	5	380
1956	60	25	13	36	46	67	59	44	21	14	5	4	394
1957	54	25	14	37	53	44	43	40	27	19	19	4	379
1958	43	21	10	30	49	37	36	40	26	14	11	4	321
1959	30	16	12	25	49	41	45	43	31	13	8	8	321
PUERTO RICAN BOTH SEXES													
1952	76	49	14	62	126	130	71	97	52	22	8	11	718
1953	91	66	24	54	121	112	67	99	43	24	14	10	725
1954	115	54	28	59	121	127	89	92	43	31	15	9	783
1955	112	40	27	50	129	107	72	91	46	37	19	11	741
1956	123	54	23	47	85	112	93	87	52	30	12	5	723
1957	93	57	20	67	115	91	78	100	67	39	37	8	772
1958	92	40	23	53	106	73	67	88	50	37	22	7	658
1959	59	32	22	42	90	86	84	103	63	32	20	11	644

NEW CASES OF TUBERCULOSIS, BY AGE AND SEX, NEW YORK CITY, 1952-1959

Part C - Yellow

Age	0-4	5-	10-	15-	20-	25-	30-	35-	45-	55-	65+	Un-known	All Ages
YELLOW MALE													
1952	0	0	0	5	7	8	10	14	20	18	18	4	104
1953	1	0	0	8	6	8	5	14	28	30	16	4	120
1954	0	3	0	3	2	4	8	7	19	17	13	1	77
1955	2	1	0	3	4	6	9	12	16	19	10	2	84
1956	3	1	0	3	6	7	7	8	19	18	13	1	86
1957	0	0	0	3	0	5	5	13	8	21	18	2	75
1958	1	0	0	1	3	5	2	7	12	16	20	4	71
1959	1	0	0	0	4	7	3	12	7	15	14	0	63
YELLOW FEMALE													
1952	0	0	0	1	2	7	4	0	1	1	0	1	17
1953	0	0	1	0	2	9	0	2	0	0	0	1	15
1954	2	0	1	1	1	3	1	4	0	1	0	1	15
1955	0	1	0	2	0	4	1	0	0	0	0	1	9
1956	1	3	0	0	0	1	2	3	0	1	0	0	11
1957	1	0	0	2	3	3	0	0	0	0	1	0	10
1958	0	0	0	0	3	2	2	2	1	0	0	0	10
1959	0	0	1	0	1	0	2	1	0	1	0	2	8
YELLOW BOTH SEXES													
1952	0	0	0	6	9	15	14	14	21	19	18	5	121
1953	1	0	1	8	8	17	5	16	28	30	16	5	135
1954	2	3	1	4	3	7	9	11	19	18	13	2	92
1955	2	2	0	5	4	10	10	12	16	19	10	3	93
1956	4	4	0	3	6	8	9	11	19	19	13	1	97
1957	1	0	0	5	3	8	5	13	8	21	19	2	85
1958	1	0	0	1	6	7	4	9	13	16	20	4	81
1959	1	0	1	0	5	7	5	13	7	16	14	2	71

Note: All other races and those whose race was not known are included in totals for All Races.

NEWLY REPORTED CASES OF TUBERCULOSIS, NEW YORK CITY, 1955-1959
By Race and Health Center Districts

Health Center DISTRICT	White					Negro					Puerto Rican				
	1955	1956	1957	1958	1959	1955	1956	1957	1958	1959	1955	1956	1957	1958	1959
Central Harlem	37	26	27	27	14	624	594	589	554	462	10	14	18	14	20
East Harlem	111	82	92	91	87	77	56	66	64	69	114	104	111	78	82
Kips Bay-Yorkville	110	89	101	87	92	4	2	3	3	2	3	7	3	0	
Lower East Side	487	578	601	442	372	58	68	76	80	72	106	94	177	144	115
Lower West Side	423	364	429	339	243	50	37	37	52	54	61	44	59	32	46
Riverside	173	146	139	134	116	69	71	73	86	80	87	72	60	58	49
Washington Hgts.	106	93	82	80	47	88	114	72	55	65	21	23	17	8	7
MANHATTAN:	1447	1378	1471	1200	971	970	942	916	894	804	402	358	445	334	319
Ford'w.-Riverdale	72	39	72	56	65	5	0	6	3	4	1	1	3	1	1
Morrisania	88	68	90	80	65	79	85	100	77	82	53	70	40	54	45
Mott Haven	123	156	111	106	102	57	55	43	43	21	109	74	71	46	53
Pelham Bay	40	32	32	27	46	6	6	5	8	10	0	2	2	1	1
Tremont	96	88	75	81	70	33	24	19	13	29	15	10	9	24	18
Westchester	52	53	59	72	58	8	10	10	11	5	4	7	7	8	7
BRONX:	471	436	439	422	406	188	180	183	155	151	182	164	131	134	125
Bay Ridge	69	75	76	66	55	1	1	0	2	2	2	0	0	1	0
Bedford	71	65	56	45	36	283	318	236	292	230	11	12	11	9	10
Bronxville	74	85	90	65	77	57	45	53	59	65	15	14	22	22	20
Bushwick	115	84	81	82	63	21	25	30	34	21	10	9	8	17	16
Flatbush	102	76	101	90	86	7	6	8	6	4	0	1	0	0	0
Fort Greene	80	76	73	78	71	142	147	139	118	126	37	41	29	30	30
Gravesend	57	60	57	55	41	6	8	7	9	5	0	2	2	1	0
Red Hook-Gowanus	112	88	83	71	73	19	27	18	17	27	51	67	67	40	43
Sunset Park	123	111	121	81	76	1	1	0	1	0	3	0	0	5	2
Wmsbrg.-Greemp't	98	109	109	96	54	17	21	25	18	14	23	51	49	58	76
BROOKLYN:	901	829	847	729	632	554	599	516	556	494	152	197	188	183	197
Astoria-L.I.City	100	114	98	80	66	10	9	7	10	7	0	2	6	3	0
Corona	59	58	63	59	71	26	16	19	23	17	1	0	0	1	0
Flushing	82	68	76	80	69	16	6	7	10	5	0	0	0	1	1
Jamaica East	64	60	75	59	45	78	83	91	56	57	0	1	1	0	0
Jamaica West	63	90	74	69	50	15	13	17	27	18	1	0	1	0	0
Maspeth-For.Hills	72	76	64	49	43	0	2	0	0	0	1	0	0	0	0
QUEENS:	440	466	450	396	344	145	129	141	126	104	3	3	8	5	1
RICHMOND:	88	53	51	55	51	5	11	7	7	6	2	1	0	2	2
NEW YORK CITY:	3347	3162	3258	2802	2404	1862	1861	1763	1738	1559	741	723	772	658	644

TUBERCULOSIS REGISTER

The New York City Department of Health in its Bureau of Tuberculosis maintains a central tuberculosis register of current information on persons with active disease providing data as to the location of patients, status of their condition, type of care or supervision, etc.(†) This well organized register serves the public health authorities as an important instrument in the administration of their broad tuberculosis control program. According to the New York City Health Code cases of tuberculosis must be reported to the Department of Health in writing within 24 hours after the case is diagnosed (Article 11, Section 11.03, New York City Health Code).

On December 31, 1959, there were 9,270 persons with active tuberculosis on the tuberculosis register as compared to 10,153 on December 31, 1958, a nine percent drop. During the year 4,924 new cases with active disease were reported for the first time and 1,832 "old cases" were resumed for additional care and supervision. Therefore, last year, almost seventeen thousand "cases" of active tuberculosis came under the scrutiny of the health authorities.

Of the 9,270 known active cases, 48.9 percent (4,533) were residents of the Borough of Manhattan, 24.7 percent (2,291) of Brooklyn, 13.4 percent (1,245) of the Bronx, 11.7 percent (1,088) of Queens and 1.2 percent (113) of Richmond.

(†)In 1893, a basic plan was prepared for the control of tuberculosis and policies established for free sputum examinations, compulsory reporting and registration of cases by public institutions (and request of reporting from private practitioners), official supervision of isolation, terminal disinfection, provision of hospital facilities and instruction of the public in regard to the care of the disease. This plan was adopted by the Board of Health on December 13, 1893, and further elaborated February 13, 1894. In addition to the 1894 requirement concerning institutions, reporting of tuberculosis in 1897 was required of all medical practitioners by the Sanitary Code.

TUBERCULOSIS REGISTER, NEW YORK CITY, 1946-1959

Year	Cases in Register Jan. 1	New Cases during Year	Old Cases Re-summed	Total Cases during Year	Cases Removed during Year	Remaining in Register Dec. 31
1946	17,614	7,123	1,441	26,178	8,727	17,451
1947	17,451	7,599	1,560	26,610	8,821	17,789
1948	17,789	8,306	1,874	27,969	9,449	18,520
1949	18,520	8,567	2,081	29,168	9,092	20,076
1950	20,076	7,717	2,224	30,017	10,958	19,059
1951	19,059	7,583	1,893	28,535	9,547	18,988
1952	18,988	7,282	1,870	28,140	9,854	18,286
1953	18,286	7,349	2,171	27,806	9,545	18,261
1954	18,261	6,582	2,088	26,931	10,949	15,982
1955†.....	15,982	6,214	2,025	24,221	10,379	13,842
1956	13,842	6,137	1,798	21,777	9,045	12,732
1957	12,732	6,117	1,867	20,716	9,352	11,364
1958	11,364	5,482	1,901	18,747	8,594	10,153
1959	10,153	4,924	1,832	16,909	7,639	9,270

†"Physical inventory" of register completed in 1955.

Based on reports by courtesy of the Bureau of Tuberculosis, Department of Health, City of New York.

According to race the white residents (4,921) comprised 53 percent of the total, Negroes (2,934) 32 percent, Puerto Ricans (1,011) 11 percent, yellow and other races (148) 2 percent.

Seventy percent of all active cases were in males (males = 6,472, females = 2,798). However, in the age group 0-25 the females outnumber the males slightly. It is mainly in the group 25 years and over where the men outnumber the women. Forty-one percent (3,775) of all the cases registered were in white males, the majority of them (2,916) in the age group 45 years or older.

TUBERCULOSIS REGISTER ACCORDING TO RACE
New York City, December 31, 1959

Health Center DISTRICT	White	Negro	Puerto Rican	Yellow & Other	Not Stated	All Races
Central Harlem	45	1,054	30	3	34	1,166
East Harlem	145	104	138	4	3	394
Kips Bay-Yorkville	174	2	0	1	9	186
Lower East Side	853	132	177	53	75	1,290
Lower West Side	598	69	53	48	15	783
Riverside	226	162	82	11	8	489
Washington Heights	91	114	14	2	4	225
MANHATTAN:	2,132	1,637	494	122	148	4,533
Ford'm-Riverdale	88	4	3	1	4	100
Morrisania	154	163	84	1	8	410
Mott Haven	188	58	96	2	18	362
Pelham Bay	64	12	3	0	3	82
Tremont	112	34	19	1	8	174
Westchester	103	4	6	2	2	117
BRONX:	709	275	211	7	43	1,245
Bay Ridge	115	1	1	1	1	119
Bedford	51	337	12	0	7	407
Brownsville	115	111	35	0	4	265
Bushwick	124	38	22	1	7	192
Flatbush	136	3	0	2	0	141
Fort Greene	105	194	46	3	4	352
Gravesend	81	16	3	0	1	101
Red Hook-Gowanus	170	60	83	3	6	322
Sunset Park	130	2	3	1	1	137
Wmsbrg.-Greenpoint	125	38	91	1	0	255
BROOKLYN:	1,152	800	296	12	31	2,291
Astoria-L.I.City	163	17	3	2	13	198
Corona	141	45	1	1	2	190
Flushing	175	12	1	4	3	195
Jamaica East	114	104	1	0	2	221
Jamaica West	140	28	2	0	2	172
Maspeth-Forest Hills	99	2	0	0	11	112
QUEENS:	832	208	8	7	33	1,088
RICHMOND:	96	14	2	0	1	113
NEW YORK CITY:	4,921	2,934	1,011	148	256	9,270

Based on reports by courtesy of the Bureau of Records and Statistics, Department of Health, City of New York. Compiled by New York Tuberculosis and Health Association.

Active Cases in
TUBERCULOSIS REGISTER, BY AGE AND SEX, NEW YORK CITY
December 31st of Each Year, Since 1948

Age:-	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-44	45-54	55-64	65+	Unk.	All Ages
MALE-----													
1948	224	170	72	258	839	1037	1012	2229	2381	1711	814	238	10985
1949	237	211	93	245	878	1120	1119	2357	2639	1922	999	248	12068
1950	262	220	70	194	811	1054	999	2192	2553	1962	1042	289	11648
1951	271	207	93	206	772	1045	974	2143	2728	2101	1075	244	11859
1952	293	171	100	194	612	925	945	2050	2705	2148	1235	251	11629
1953	272	173	83	200	564	871	941	2059	2715	2205	1399	234	11716
1954	266	167	66	162	461	683	827	1810	2521	2105	1296	138	10502
1955	298	146	87	225	458	605	713	1652	2296	1789	937	68	9274
1956	284	164	59	118	298	494	590	1469	2097	1818	1217	49	8657
1957	207	159	51	106	241	378	531	1279	1854	1718	1252	69	7845
1958	217	142	53	90	243	310	480	1177	1635	1606	1134	77	7164
1959	171	129	48	67	183	310	419	1066	1405	1482	1116	76	6472
FEMALE-----													
1948	197	126	96	434	1138	1341	1156	1526	707	369	285	160	7535
1949	238	190	103	435	1129	1356	1205	1723	745	389	330	166	8008
1950	233	205	106	405	1036	1229	1083	1563	736	358	341	116	7411
1951	225	192	118	368	985	1180	1023	1452	775	370	324	117	7129
1952	227	164	121	314	852	1029	951	1400	763	350	352	134	6657
1953	212	177	114	334	780	1012	916	1403	753	379	353	112	6545
1954	208	165	112	238	546	860	768	1222	645	345	310	61	5480
1955	249	142	143	285	542	674	609	874	483	280	251	36	4568
1956	247	163	70	175	375	543	572	855	517	278	257	23	4075
1957	228	127	76	171	266	408	438	741	475	278	269	42	3519
1958	201	117	64	120	233	301	377	627	443	218	251	37	2989
1959	168	111	59	94	195	287	353	596	425	219	243	48	2798
BOTH SEXES--1948	421	296	168	692	1977	2378	2168	3755	3088	2080	1099	398	18520
1949	475	401	196	680	2006	2476	2324	4080	3384	2311	1329	414	20076
1950	495	425	176	599	1847	2283	2082	3755	3289	2320	1383	405	19059
1951	496	399	211	574	1757	2225	1997	3595	3503	2471	1399	361	18988
1952	520	335	221	508	1464	1954	1896	3450	3468	2498	1587	385	18286
1953	484	350	197	534	1344	1883	1857	3462	3468	2584	1752	346	18261
1954	474	332	178	400	1007	1543	1595	3032	3166	2450	1606	199	15982
1955	547	288	230	510	1000	1279	1322	2526	2779	2069	1188	104	13842
1956	531	327	129	293	673	1037	1162	2324	2614	2096	1474	72	12732
1957	435	286	127	277	507	786	969	2020	2329	1996	1521	111	11364
1958	418	259	117	210	476	611	857	1804	2078	1824	1385	114	10153
1959	339	240	107	161	378	597	772	1662	1830	1701	1359	124	9270

ACTIVE CASES IN TUBERCULOSIS REGISTER ON LAST DAY OF YEAR,
BY AGE AND SEX, WHITE, NEGRO, PUERTO RICAN

Department of Health, City of New York, 1955-1959

Race Age	Male					Female					Both Sexes				
	1955	1956	1957	1958	1959	1955	1956	1957	1958	1959	1955	1956	1957	1958	1959
WHITE															
0- 4	81	88	63	48	42	60	64	56	52	39	141	152	119	100	81
5- 9	36	33	27	25	24	33	30	17	22	27	69	63	44	47	51
10-14	24	20	13	9	15	38	13	20	13	19	62	82	33	22	34
15-19	96	41	36	32	27	99	60	45	26	27	195	101	81	58	54
20-24	207	128	88	82	65	178	116	93	80	55	385	244	181	162	120
25-29	234	190	135	135	101	228	183	137	84	80	462	373	272	219	181
30-34	315	217	192	170	144	233	183	130	127	104	548	400	322	297	248
35-44	911	680	579	500	406	446	380	296	247	217	1357	1060	875	747	623
45-54	1687	1423	1271	1104	887	304	295	274	262	232	1991	1718	1545	1366	1119
55-64	1475	1460	1362	1259	1126	193	178	180	144	133	1668	1638	1542	1403	1259
65+	800	1017	1043	928	903	207	200	199	195	194	1007	1217	1242	1123	1097
Total	5898	5313	4839	4330	3775	2040	1710	1465	1271	1146	7938	7023	6304	5601	4921
NEGRO															
0- 4	121	95	75	108	81	118	93	89	82	80	239	188	164	190	161
5- 9	71	79	79	88	68	69	87	72	51	46	140	166	151	139	114
10-14	40	25	26	30	18	70	37	29	33	27	110	62	55	63	45
15-19	82	51	43	28	26	113	71	75	58	41	195	122	118	86	67
20-24	134	82	65	83	65	220	161	107	88	75	354	243	172	171	140
25-29	255	191	143	109	124	304	227	172	140	135	559	418	315	249	259
30-34	295	271	243	225	195	292	275	221	168	171	587	546	464	393	366
35-44	584	634	535	508	490	320	360	347	286	289	904	994	882	794	779
45-54	473	534	442	395	390	125	166	145	128	122	598	700	587	523	512
55-64	204	261	249	237	257	50	64	56	44	56	254	325	305	281	313
65+	86	125	132	116	131	31	38	42	34	28	117	163	174	150	159
Total	2339	2360	2042	1936	1856	1714	1583	1360	1118	1078	4053	3943	3402	3054	2934
PUERTO RICAN															
0- 4	93	95	63	55	43	70	86	78	64	46	163	181	141	119	89
5- 9	35	51	50	29	35	36	39	37	43	37	71	90	87	72	72
10-14	22	13	11	12	12	32	19	23	16	11	54	67	34	28	23
15-19	53	19	22	27	14	66	41	45	34	24	119	60	67	61	38
20-24	101	76	79	71	48	130	86	61	60	60	231	162	140	131	108
25-29	94	92	82	54	71	130	114	83	66	65	224	206	165	120	136
30-34	83	78	70	66	65	77	99	77	74	73	160	177	147	140	138
35-44	100	104	112	114	109	99	101	87	79	75	199	205	199	193	184
45-54	50	69	84	63	59	45	47	49	46	62	95	116	133	109	121
55-64	31	33	36	36	32	30	27	31	22	22	61	60	67	58	54
65+	14	16	20	25	21	10	12	21	17	17	24	28	41	42	38
Total	679	649	634	555	512	729	672	597	526	499	1408	1321	1231	1081	1011

Note: Totals include persons whose age was not stated.

Active Cases in
TUBERCULOSIS REGISTER ACCORDING TO RACE AND SEX
on December 31, 1952-1959

Sex Year	White	Negro	Puerto Rican	Yellow	Other	Not Stated	Total
MALE							
1952	7,730	2,544	710	249	21	375	11,629
1953	7,691	2,672	754	263	28	308	11,716
1954	6,704	2,572	761	223	26	216	10,502
1955	5,898	2,339	679	204	29	125	9,274
1956	5,313	2,360	649	173	27	135	8,657
1957	4,839	2,042	634	146	23	161	7,845
1958	4,330	1,936	555	147	21	175	7,164
1959	3,775	1,856	512	122	10	197	6,472
FEMALE							
1952	3,594	1,985	860	35	7	176	6,657
1953	3,400	2,032	902	42	8	161	6,545
1954	2,617	1,888	820	33	9	113	5,480
1955	2,040	1,714	729	21	7	57	4,568
1956	1,710	1,583	672	17	10	83	4,075
1957	1,465	1,360	597	10	10	77	3,519
1958	1,271	1,118	526	10	7	57	2,989
1959	1,146	1,078	499	12	4	59	2,798
BOTH SEXES							
1952	11,324	4,529	1,570	284	28	551	18,286
1953	11,091	4,704	1,656	305	36	469	18,261
1954	9,321	4,460	1,581	256	35	329	15,982
1955	7,938	4,053	1,408	225	36	182	13,842
1956	7,023	3,943	1,321	190	37	218	12,732
1957	6,304	3,402	1,231	156	33	238	11,364
1958	5,601	3,054	1,081	157	28	232	10,153
1959	4,921	2,934	1,011	134	14	256	9,270

POSITIVE BACTERIOLOGICAL FINDINGS* REPORTED DURING YEAR
Cases of Active Tuberculosis in Register
December 31, 1959

Type of Care	Total Cases in Register Dec. 31, 1959	Reported Positive† during Year	
		Number	Percent
Private physicians	625	180	29%
Hospitals in city	3,996	831	21%
Sanatoria, out of town	657	125	19%
Out of town, not in institution	24	4	17%
Health Department clinics	1,997	588	29%
Other clinics	773	82	11%
No medical or clinical care	186	7	4%
Pending, care not confirmed	999	152	15%
Home care	13	3	23%
Total	9,270	1,972	21%

*Acid fast bacilli demonstrated in sputum.

†Positive bacteriological findings reported January-December 1959.

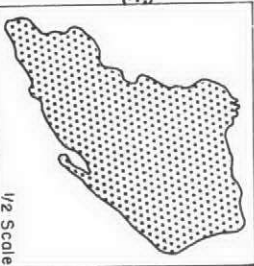
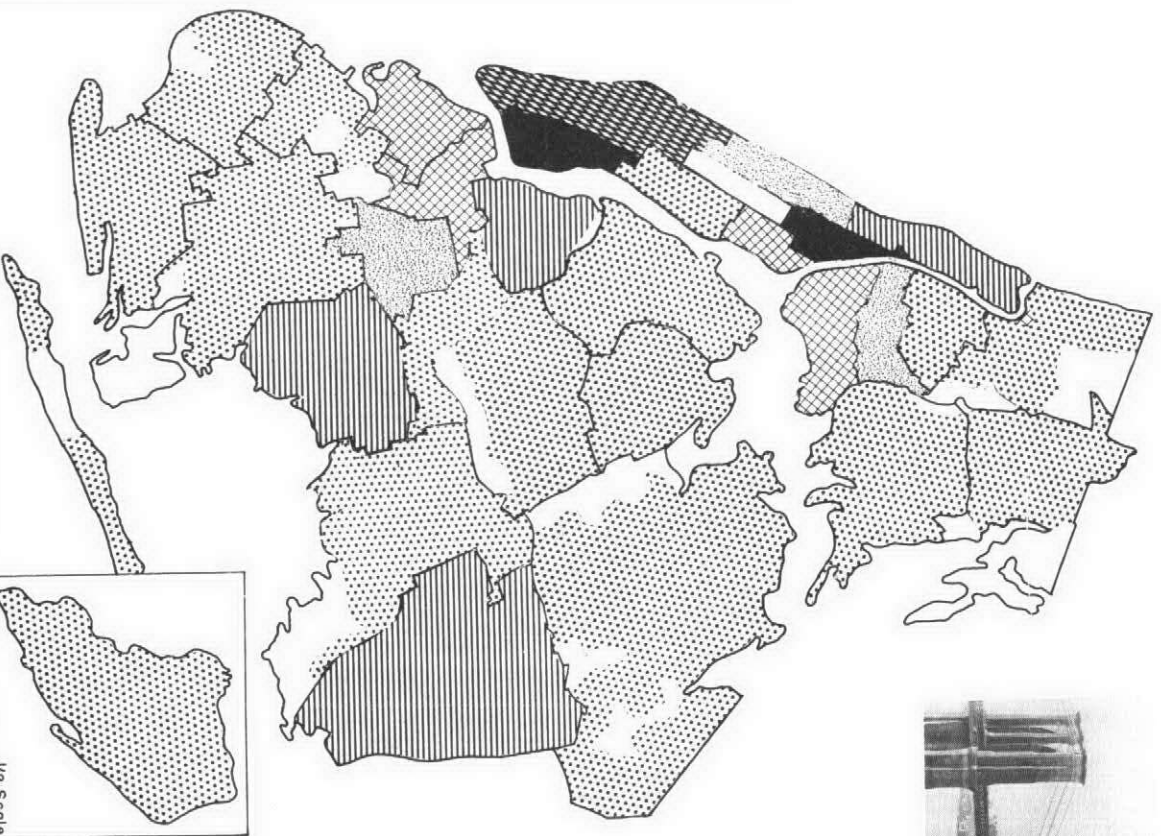
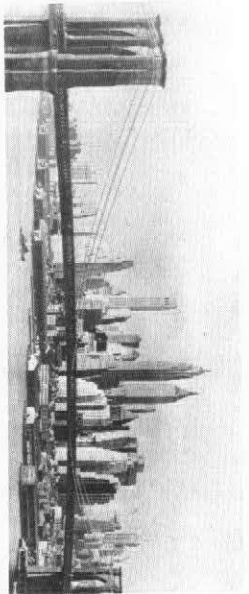
The striking differences in the percentage of positive sputum specimens submitted from various sources is not explained in the face of this table (see page 20). The differences would seem to bear study in order to try to find some clear explanation. Physicians mentioned differences in the skill of laboratory technicians, particularly where the number of specimens submitted for the detection of tubercle bacilli is relatively small.

ACTIVE CASES IN TUBERCULOSIS REGISTER, BY RACE, HEALTH CENTER DISTRICTS, NEW YORK CITY
On Last Day of Year, 1956-1959

Health Center DISTRICT	White				Negro				Puerto Rican				Other Races				All Races (†)			
	1956	1957	1958	1959	1956	1957	1958	1959	1956	1957	1958	1959	1956	1957	1958	1959	1956	1957	1958	1959
Central Harlem ...	68	67	47	45	1583	1346	1096	1054	43	40	27	30	4	5	3	3	1758	1505	1204	1166
East Harlem	173	159	151	145	108	104	104	104	179	166	134	138	4	5	4	4	468	437	398	394
Kips Bay-Yorkville	207	188	167	174	2	3	1	2	5	6	3	0	1	2	3	1	216	207	181	186
Lower East Side ..	1155	1112	989	853	141	128	113	132	171	226	181	177	78	65	65	53	1561	1567	1398	1290
Riverside	836	788	737	598	72	66	78	69	94	78	65	53	74	60	60	48	1086	1000	957	783
Washington Hgts. .	333	277	227	226	160	158	165	162	136	107	98	82	15	11	13	11	657	567	516	489
MANHATTAN:	143	127	114	91	189	128	109	114	33	22	15	14	5	3	4	2	373	286	250	225
Ford'm-Riverdale..	2915	2718	2432	2132	2255	1933	1666	1637	661	645	523	494	181	151	152	122	6119	5569	4904	4535
Morrisania	101	96	81	88	3	4	3	4	1	4	3	3	0	1	1	1	108	109	91	100
Mott Haven	204	162	160	154	196	167	160	163	119	101	92	84	4	4	2	1	527	442	420	410
Pelham Bay	274	248	208	188	97	88	76	58	176	130	100	96	8	5	3	2	582	493	406	362
Tremont	93	55	52	64	13	9	9	12	3	4	5	3	0	0	0	0	109	73	70	82
Westchester	172	149	142	112	36	29	24	34	24	23	26	19	1	1	1	1	239	210	200	174
BRONX:	140	116	110	103	20	13	13	4	13	9	9	6	0	0	1	2	176	145	136	117
Bay Ridge	984	826	753	709	365	310	285	275	336	271	235	211	13	11	8	7	1741	1472	1323	1245
Bedford	158	147	121	115	1	1	3	1	1	1	1	1	0	0	0	1	160	149	125	119
Brownsville	95	74	61	51	482	391	400	337	12	11	13	12	2	0	0	0	604	483	480	407
Bushwick	152	142	105	115	104	92	94	111	36	34	42	35	1	2	0	0	298	276	246	265
Flatbush	217	196	162	124	56	73	57	38	22	19	28	22	3	3	3	1	308	304	257	192
Fort Greene	189	172	149	136	12	8	5	3	1	1	0	0	0	0	1	2	202	181	155	141
Gravesend	163	116	133	105	240	211	199	194	56	43	49	46	4	5	2	3	474	379	389	352
Red Hook-Gowanus..	131	97	79	81	14	18	11	16	5	4	4	3	3	1	0	0	153	120	94	101
Sunset Park	223	216	197	170	62	48	50	60	107	101	90	83	6	6	4	3	401	372	343	322
Wmsbrg.-Greenp't..	227	227	173	130	1	0	1	2	9	5	6	3	1	2	2	1	238	235	182	137
BROOKLYN:	184	180	172	125	35	37	30	38	61	85	77	91	2	2	4	1	284	305	288	255
Astoria-L.I.City .	1739	1567	1357	1152	1007	879	850	800	310	304	310	296	22	21	16	12	3122	2804	2559	2291
Corona	325	255	217	163	27	18	23	17	9	7	7	3	2	3	5	2	369	289	263	198
Flushing	153	144	129	141	46	46	44	45	0	0	1	1	3	3	1	1	203	196	176	190
Jamaica East	204	210	172	175	22	18	18	12	0	0	0	1	0	0	3	4	226	229	197	195
Jamaica West	181	145	130	114	170	143	114	104	1	1	2	1	2	0	0	0	360	296	248	221
Maspeth-For.Hills.	255	199	183	140	37	40	39	28	3	2	2	2	0	0	0	0	298	244	227	172
QUEENS:	155	142	125	99	3	2	1	2	0	0	0	0	2	0	0	0	167	153	135	112
RICHMOND:	1273	1095	956	832	305	267	239	208	13	11	12	8	9	6	9	7	1623	1407	1246	1088
NEW YORK CITY: ...	112	98	103	96	11	13	14	14	1	0	1	2	2	0	0	0	127	112	121	113
	7023	6304	5601	4921	3943	3402	3054	2934	1321	1231	1081	1011	227	189	185	148	12732	11364	10153	9270

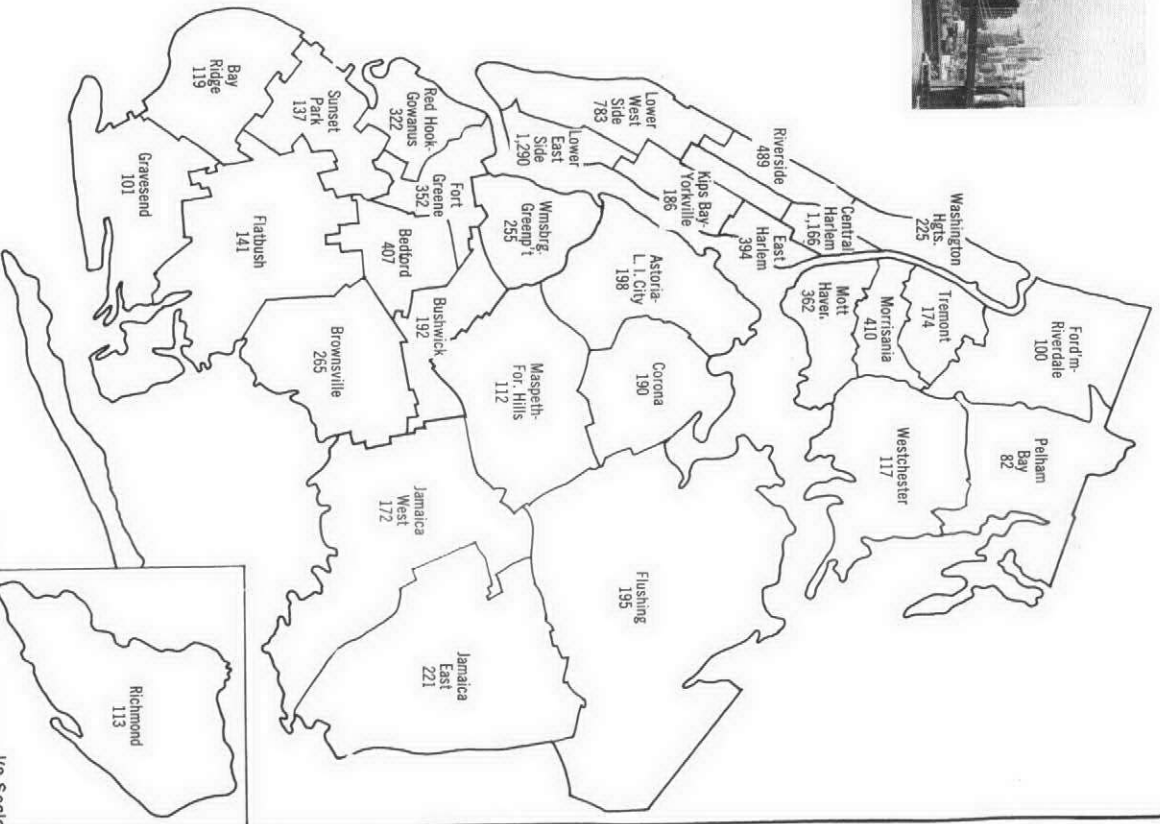
(†) Including persons whose race was not stated. Compiled from reports of Dept. of Health, N.Y.C., by N.Y. TB & H. Assn.

TOTAL CASES OF TUBERCULOSIS REGISTERED IN EACH HEALTH CENTER DISTRICT OF NEW YORK CITY ON DECEMBER 31, 1959



TOTAL REGISTER	
Manhattan	4,533
Brooklyn	2,291
Bronx	1,245
Queens	1,088
Richmond	113
New York City	9,270

LEGEND	
NUMBER OF CASES	
[Dotted pattern]	UNDER 200
[Vertical lines]	200-299
[Horizontal lines]	300-399
[Diagonal lines (top-left to bottom-right)]	400-499
[Diagonal lines (bottom-left to top-right)]	500-999
[Solid black]	OVER 1000
[White]	PARKS, CEM., ETC.



Based on reports by courtesy of the Bureau of Records and Statistics, Department of Health, City of New York.

New York Tuberculosis and Health Association

KNOWN PREVALENCE OF TUBERCULOSIS BY HEALTH CENTER DISTRICTS
AND HEALTH AREAS

On December 31, 1959, there were 9,270 known active cases on the Department of Health tuberculosis register, or an average of 1.18 cases per 1,000 population. The prevalence rates by boroughs were: Manhattan 2.52, Brooklyn 0.88, Bronx 0.87, Queens 0.61, and Richmond 0.53. The intensity with which tuberculosis strikes varies in different parts of town. High rates prevailed especially in Central Harlem (4.87), Lower East Side (4.37), Lower West Side (2.58), East Harlem (2.14), Red Hook-Gowanus (1.93), Riverside (1.84), Mott Haven (1.65), Fort Greene (1.59), and Bedford (1.42). It may be noted that Central Harlem (4.87) had a known prevalence rate four times that prevailing for the city (1.18) as a whole. If the city rate of 1.18 per 1,000 is used as a base line, there are eleven health center districts in which rates exceeded the average city rate.

The City of New York is divided into 352 health areas(†) for which units selected vital statistics are tabulated annually by the Department of Health. According to the records of the Bureau of Tuberculosis, on the last day of 1959 practically all of these neighborhoods had at least one active case of tuberculosis among their residents. Tuberculosis, therefore, is a disease that is found throughout all segments of New York and appears to be at least a potential threat to every resident of the city. Due to differences in concentration of the disease the risk of exposure to tuberculosis is greater in one part of town than it is in another. In 121 health areas the prevalence rate was higher than the city average.

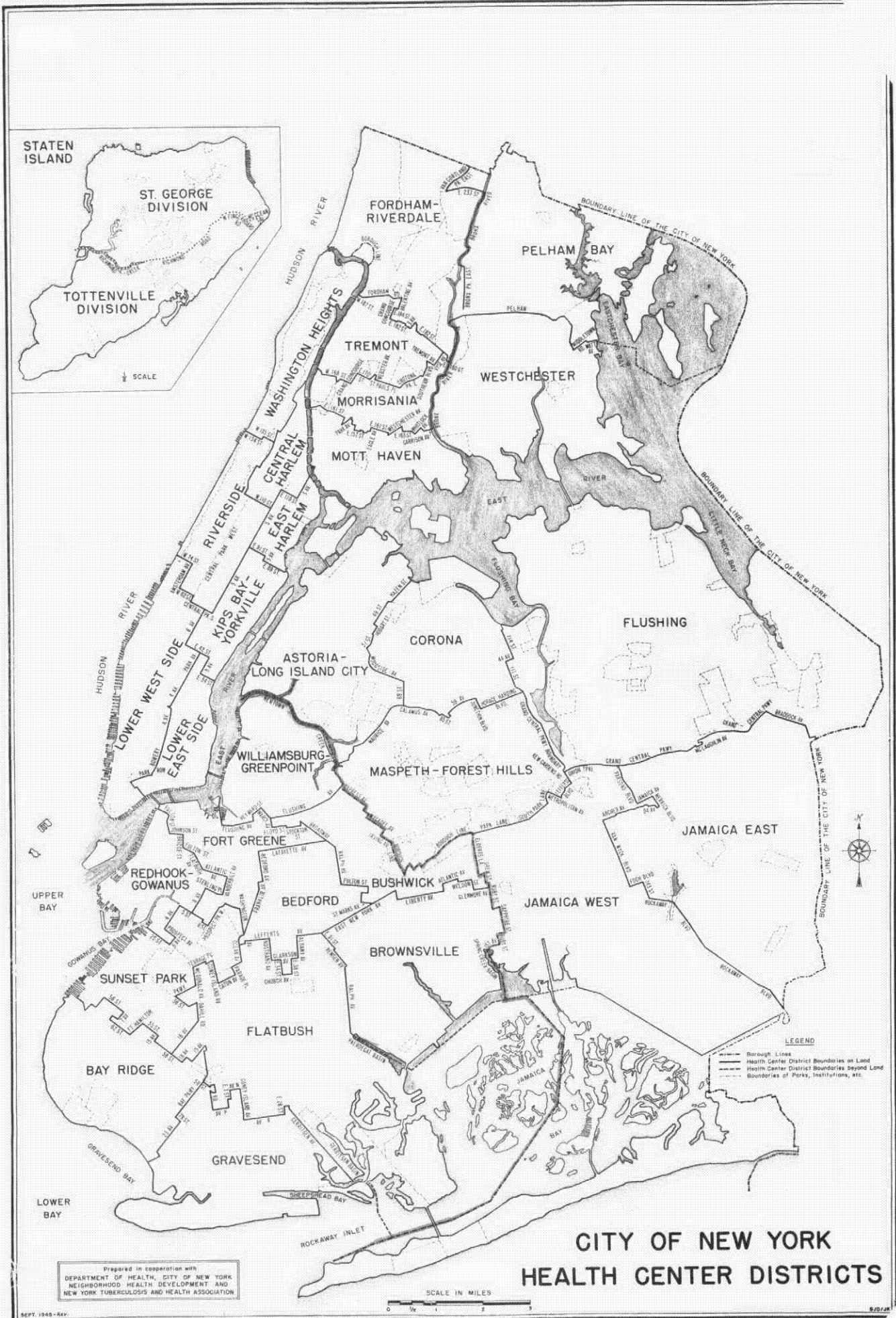
(†)Health Areas are units created prior to the 1930 Census which were to form population units of about 25,000 persons. At present there are 352 health areas with defined boundaries but with wide range in the population included. There are 30 health center districts which are administrative units made up of health areas.

TUBERCULOSIS IN NEW YORK CITY ON DECEMBER 31, 1959
(Based on total known cases in register on that day)

Health Center DISTRICT	Population† April 1, 1957	In Hospitals or Sanatoria*	Ambulant Cases	Total in Register	Prevalence per 1,000†
MANHATTAN:					
Central Harlem	239,195	491	675	1,166	4.87
East Harlem	183,915	185	209	394	2.14
Kips Bay-Yorkville..	227,102	89	97	186	0.81
Lower East Side	295,110	749	541	1,290	4.37
Lower West Side	302,949	551	232	783	2.58
Riverside	264,817	243	246	489	1.84
Washington Heights..	280,981	95	130	225	0.80
MANHATTAN:	1,794,069	2,403	2,130	4,533	2.52
BRONX:					
Ford'm-Riverdale ...	233,305	52	48	100	0.42
Morrisania	272,867	185	225	410	1.50
Mott Haven	218,382	175	187	362	1.65
Pelham Bay	173,620	43	39	82	0.47
Tremont	271,774	77	97	174	0.64
Westchester	254,419	55	62	117	0.45
BRONX:	1,424,367	587	658	1,245	0.87
BROOKLYN:					
Bay Ridge	298,230	50	69	119	0.39
Bedford	285,863	200	207	407	1.42
Brownsville	274,229	146	119	265	0.96
Bushwick	213,919	108	84	192	0.89
Flatbush	472,124	56	85	141	0.29
Fort Greene	220,118	199	153	352	1.59
Gravesend	283,205	40	61	101	0.35
Red Hook-Gowanus ...	166,173	151	171	322	1.93
Sunset Park	195,951	56	81	137	0.69
Wmsbrg-Greenpoint ..	192,621	131	124	255	1.32
BROOKLYN:	2,602,433	1,137	1,154	2,291	0.88
QUEENS:					
Astoria-L.I.City ...	259,805	82	116	198	0.76
Corona	207,097	98	92	190	0.91
Flushing	434,457	102	93	195	0.44
Jamaica East	283,996	97	124	221	0.77
Jamaica West	295,921	63	109	172	0.58
Maspeth-Forest Hills	281,306	46	66	112	0.39
QUEENS:	1,762,582	488	600	1,088	0.61
RICHMOND:	212,020	62	51	113	0.53
NEW YORK CITY:	7,795,471	4,677	4,593	9,270	1.18

*Includes 24 persons out of town, not in sanatoria. †On December 31, 1959.
 ‡Special census, U.S. Bureau of the Census.

Compiled from reports by courtesy of the Bureau of Tuberculosis and the Bureau of Records and Statistics, Department of Health, City of New York, by New York Tuberculosis and Health Association.



Prepared in cooperation with
 DEPARTMENT OF HEALTH, CITY OF NEW YORK
 NEIGHBORHOOD HEALTH DEVELOPMENT AND
 NEW YORK TUBERCULOSIS AND HEALTH ASSOCIATION

POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

MANHATTAN - Part A

Health Center District Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Report- ed 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
CENTRAL HARLEM								
8.00	31,520	407	31,099	14	12	77	141	4.4
10.00	24,053	69	23,972	12	8	59	145	6.0
12.00	22,998	988	22,001	9	11	50	105	4.6
13.00	18,265	148	18,099	18	10	57	135	7.4
15.00	24,336	272	24,037	27	9	67	91	3.7
16.00	33,151	8,454	24,652	45	11	84	157	4.7
19.00	20,541	567	19,936	38	12	65	111	5.4
24.00	24,310	2,566	21,713	31	5	46	105	4.3
85.10	14,326	53	14,261	12	6	37	68	4.7
85.20	25,695	522	25,151	22	10	69	108	4.2
	239,195	14,046	224,921	228	95	611	1166	4.9
EAST HARLEM								
17.00	15,869	12,910	2,908	51	3	29	39	2.4
20.00	26,103	12,884	13,186	33	8	42	83	3.2
21.00	8,156	7,177	975	4	0	14	28	3.4
22.00	19,311	18,414	888	9	0	14	36	1.9
25.00	23,542	20,171	3,315	56	6	46	62	2.6
26.00	15,565	12,981	2,553	31	5	23	21	1.3
28.00	18,157	15,926	2,129	102	0	10	24	1.3
29.00	24,121	21,444	2,576	101	3	24	45	1.9
30.00	10,670	7,230	3,432	8	4	23	31	2.9
33.00	18,818	17,835	892	91	3	16	25	1.3
84.00	3,603	3,085	518	--	0	1	..	..
	183,915	150,057	33,372	486	32	242	394	2.1
KIPS BAY-YORKVILLE								
36.00	32,739	32,301	351	87	1	9	14	0.4
37.00	20,626	20,493	71	62	5	12	32	1.6
38.00	23,965	23,853	61	51	8	13	16	0.7
41.00	24,982	24,579	331	72	0	10	7	0.3
42.00	19,906	19,787	46	73	2	7	26	1.3
43.00	16,453	16,345	47	61	3	9	15	0.9
44.00	14,483	14,312	97	74	3	4	11	0.8
48.00	20,932	20,694	157	81	2	8	18	0.9
49.00	21,032	20,785	102	145	0	8	16	0.8
50.00	12,773	12,671	36	66	0	6	10	0.8
54.00	15,724	15,622	40	62	0	8	18	1.1
83.00	3,487	2,884	586	17	0	1	3	0.9
	227,102	224,326	1,925	851	24	95	186	0.8

†Active cases in register per 1,000 population.
See map for health area boundaries.

POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

MANHATTAN - Part B

Health Center Dist. Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Report- ed 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
LOWER EAST SIDE								
53.00	20,308	19,883	270	155	4	29	48	2.4
58.00	19,304	18,933	132	239	2	45	61	3.2
59.00	13,470	13,008	261	201	3	22	42	3.1
60.00	33,180	32,605	481	94	1	19	40	1.2
62.00	22,927	22,020	425	482	3	38	64	2.8
63.00	15,897	13,878	1,852	167	3	21	30	1.9
65.00	23,273	21,783	993	497	10	327	619	26.6
66.00	23,785	22,740	502	543	5	38	50	2.1
67.00	17,651	16,981	537	133	3	32	39	2.2
72.00	11,059	10,508	421	130	0	17	34	3.1
73.00	12,999	9,403	3,489	107	0	15	19	1.4
74.00	24,686	19,952	921	3,813	13	63	113	4.6
76.00	12,905	11,923	858	124	0	14	28	2.2
78.00	28,100	23,494	2,769	1,837	3	34	72	2.6
80.00	15,566	13,838	1,577	151	3	20	31	2.0
	295,110	270,949	15,488	8,673	53	734	1,290	4.4
LOWER WEST SIDE								
39.00	25,259	21,975	3,127	157	1	12	16	0.6
40.00	34,237	32,517	1,502	218	3	42	47	1.4
45.00	20,727	20,291	288	148	7	37	41	2.0
46.00	14,470	13,918	441	111	3	17	14	1.0
47.00	31,325	29,788	1,149	388	2	32	40	1.3
52.00	30,188	28,131	1,921	136	5	47	88	2.9
55.00	15,874	14,943	864	67	3	29	43	2.7
56.00	28,428	27,932	384	112	6	42	77	2.7
57.00	28,419	27,637	702	80	8	86	114	4.0
61.00	16,262	15,839	378	45	3	19	24	1.4
64.00	19,440	19,065	307	68	1	11	13	0.7
68.00	25,028	23,461	155	1,412	10	46	124	5.0
77.00	11,502	6,627	863	4,012	7	57	142	12.3
81.00	1,773	1,651	110	12	0	0	..	..
82.00	17	17	--	--	0	0	..	..
	302,949	283,792	12,191	6,966	59	477	783	2.6

†Active cases in register per 1,000 population.
See map for health area boundaries.

POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

MANHATTAN - Part C

Health Center Dist. Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Reported 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
RIVERSIDE								
11.00	14,433	5,866	8,465	102	4	26	37	2.6
14.00	13,014	7,672	4,995	347	1	12	27	2.1
18.00	16,044	14,643	993	408	5	8	20	1.2
23.10	22,740	20,946	1,216	578	6	20	17	0.7
23.20	12,100	9,909	2,009	182	2	14	27	2.2
27.10	12,820	11,574	1,005	241	1	21	25	2.0
27.20	15,229	11,649	3,481	99	8	36	61	4.0
31.10	24,686	22,351	2,061	274	8	29	45	1.8
31.20	24,155	23,181	786	188	1	18	28	1.2
32.10	11,316	10,432	760	124	3	15	19	1.7
32.20	28,169	26,330	1,610	229	4	36	71	2.5
34.00	33,264	31,920	1,177	167	5	25	46	1.4
35.00	36,847	34,091	2,500	256	1	31	66	1.8
	264,817	230,564	31,058	3,195	49	291	489	1.8
WASHINGTON HEIGHTS								
1.10	25,635	24,541	1,043	51	1	6	12	0.4
1.20	24,535	23,115	1,321	99	5	7	10	0.4
2.10	25,582	25,076	433	73	6	14	18	0.7
2.21	22,692	22,481	40	171	1	11	10	0.4
2.22	18,330	18,272	35	23	2	2	3	0.2
3.00	25,161	24,875	221	65	3	11	11	0.4
4.00	28,822	27,177	1,527	118	3	10	16	0.6
5.00	26,769	17,536	9,186	47	4	13	26	1.0
6.10	16,564	8,209	8,133	222	1	11	18	1.1
6.20	19,405	6,821	12,456	128	2	23	36	1.9
7.10	10,356	85	10,266	5	2	5	13	1.3
7.20	14,547	318	14,215	14	2	16	24	1.6
9.00	22,583	18,972	3,237	374	1	23	28	1.2
	280,981	217,478	62,113	1,390	33	152	225	0.8
MANHATTAN TOTAL	1,794,069	1,391,212	381,068	21,789	345	2,602	4,533	2.5

†Active cases in register per 1,000 population.
See map for health area boundaries.

POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

BRONX - Part A

Health Center Dist. Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Reported 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
FORDHAM-RIVERDALE								
1.00 ...	18,467	18,166	129	172	0	7	6	0.3
2.00 ...	23,542	23,231	214	97	0	2	7	0.3
3.10 ...	21,138	21,014	79	45	2	4	8	0.4
3.20 ...	28,284	27,610	569	105	0	7	9	0.3
4.10 ...	31,682	31,462	190	30	2	8	16	0.5
4.20 ...	30,133	30,035	44	54	3	11	9	0.3
9.00 ...	34,755	34,598	78	79	4	7	23	0.7
10.00 ...	24,519	23,953	537	29	1	10	9	0.4
11.00 ...	20,785	20,617	160	8	0	8	13	0.6
	233,305	230,686	2,000	619	12	64	100	0.4
MORRISANIA								
21.10 ...	18,298	17,907	347	44	0	6	12	0.7
21.20 ...	15,461	13,315	2,099	47	1	17	26	1.7
25.00 ...	28,461	25,985	2,441	35	2	17	16	0.6
26.00 ...	21,023	7,262	13,745	16	6	18	43	2.0
27.00 ...	24,569	12,430	12,118	21	3	17	50	2.0
28.00 ...	18,005	10,116	7,868	21	4	20	26	1.4
29.00 ...	27,160	24,472	2,638	50	3	35	55	2.0
33.10 ...	24,406	23,429	961	16	6	9	21	0.9
33.20 ...	32,988	31,583	1,366	39	2	9	20	0.6
34.00 ...	15,785	12,271	3,463	51	4	15	28	1.8
35.00 ...	24,678	4,700	19,951	27	4	26	53	2.1
36.00 ...	22,033	18,235	3,740	58	1	28	60	2.7
	272,867	201,705	70,737	425	36	217	410	1.5
MOTT HAVEN								
37.00 ...	22,263	16,562	5,634	67	5	27	38	1.7
38.00 ...	23,715	18,467	5,211	37	1	13	23	1.0
39.00 ...	18,142	15,594	2,514	34	0	8	17	0.9
40.00 ...	23,554	19,082	4,444	28	2	26	54	2.3
41.00 ...	23,435	21,899	1,511	25	4	19	47	2.0
42.00 ...	22,734	19,843	2,816	75	5	24	33	1.4
43.00 ...	13,459	12,479	952	28	0	0	7	0.5
44.00 ...	20,758	19,867	869	22	3	15	27	1.3
45.00 ...	16,889	16,029	826	34	6	26	49	2.9
46.00 ...	14,062	13,427	569	66	1	20	29	2.1
47.00 ...	17,315	16,298	987	30	1	20	31	1.8
48.00 ...	2,056	880	1,153	23	0	5	7	3.4
	218,382	190,427	27,486	469	28	203	362	1.7

†Active cases in register per 1,000 population.
See map for health area boundaries.

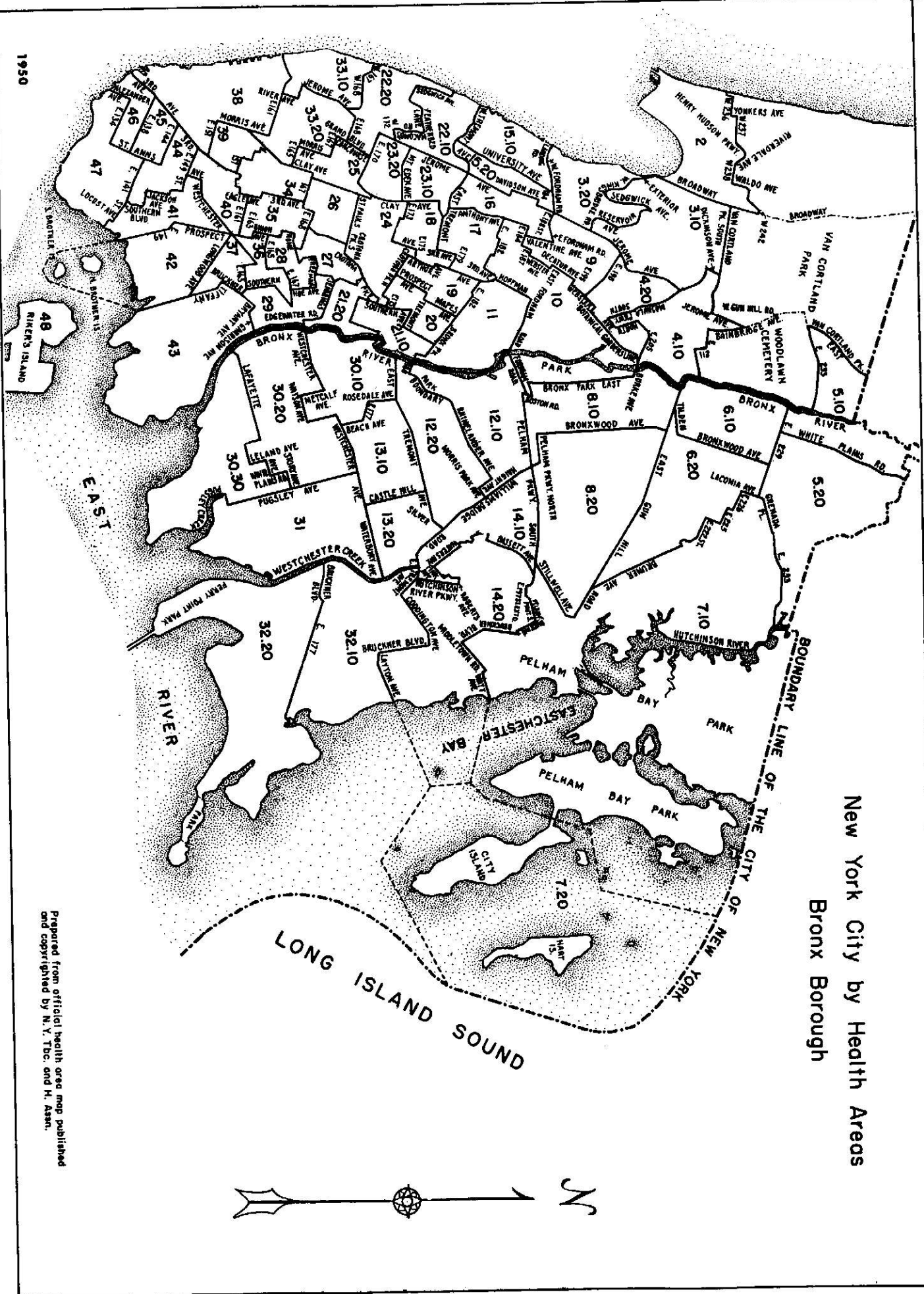
POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

BRONX - Part B

Health Center Dist. Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Reported 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
PELHAM BAY								
5.10	18,478	18,384	84	10	1	1	7	0.4
5.20	26,174	25,793	352	29	1	6	9	0.3
6.10	21,954	20,073	1,880	1	0	4	14	0.6
6.20	21,688	18,271	3,398	19	0	7	9	0.4
7.10	13,533	10,314	3,206	13	0	5	12	0.9
7.20	5,266	4,617	623	26	0	1	3	0.6
8.10	34,227	33,022	1,158	47	3	14	15	0.4
8.20	32,300	31,039	1,235	26	2	4	13	0.4
	173,620	161,513	11,936	171	7	42	82	0.4
TREMONT								
15.10	17,966	17,644	291	31	2	3	13	0.7
15.20	20,451	20,146	223	82	0	5	13	0.6
16.00	29,949	29,382	501	66	0	10	12	0.4
17.00	21,563	20,460	1,061	42	1	11	21	1.0
18.00	15,694	14,721	947	26	2	21	28	1.8
19.00	22,164	20,948	1,197	19	2	13	10	0.4
20.00	24,137	23,045	1,052	40	3	8	16	0.7
22.10	29,714	28,726	930	58	2	10	7	0.2
22.20	30,274	29,958	280	36	2	9	16	0.5
23.10	23,772	23,171	511	90	5	10	5	0.2
23.20	16,969	16,765	165	39	0	3	5	0.3
24.00	19,121	13,642	5,456	23	5	27	28	1.4
	271,774	258,608	12,614	552	24	130	174	0.6
WESTCHESTER								
12.10	26,483	26,394	48	41	0	7	9	0.3
12.20	20,325	19,925	382	18	0	7	9	0.4
13.10	47,000	46,904	38	58	1	12	12	0.3
13.20	10,928	10,877	48	3	0	1	1	0.1
14.10	6,380	6,257	116	7	0	2	5	0.8
14.20	25,226	25,189	14	23	1	13	19	0.8
30.10	24,744	21,787	2,912	45	1	19	13	0.5
30.20	31,872	29,306	2,515	51	2	10	12	0.4
30.30	14,554	12,091	2,456	7	0	6	10	0.7
31.00	14,484	14,449	12	23	1	3	13	0.9
32.10	15,894	15,873	20	1	1	5	3	0.2
32.20	16,529	15,078	1,433	18	0	10	11	0.7
	254,419	244,130	9,994	295	7	95	117	0.4
BRONX TOTAL	1,424,367	1,287,069	134,767	2,531	114	751	1,245	0.9

†Active cases in register per 1,000 population.
See map for health area boundaries.

1950



New York City by Health Areas
Bronx Borough

Prepared from official health area map published and copyrighted by N. Y. Tbc. and H. Assn.

POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

BROOKLYN - Part A

Health Center Dist. Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Report- ed 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
BAY RIDGE								
76.00	32,310	32,269	13	28	0	12	19	0.6
77.00	20,819	20,768	5	46	3	10	23	1.1
78.10	28,796	28,696	58	42	0	8	18	0.6
78.20	13,228	13,200	20	8	0	0	1	0.1
79.10	17,817	17,787	15	15	0	4	4	0.2
79.20	18,220	18,201	2	17	1	3	5	0.3
80.10	17,954	17,905	48	1	0	5	10	0.6
80.20	14,035	14,018	3	14	0	3	4	0.3
81.10	17,028	17,016	4	8	0	2	4	0.2
81.20	19,912	19,875	22	15	1	3	8	0.4
82.00	34,600	34,385	209	6	3	7	7	0.2
83.00	28,602	28,501	48	53	0	3	6	0.2
84.00	31,743	31,567	139	37	2	10	10	0.3
92.00	3,166	2,904	252	10	0	0	..	..
	298,230	297,092	838	300	10	70	119	0.4
BEDFORD								
20.00	22,922	2,420	20,496	6	4	40	49	2.1
21.00	20,604	2,901	17,682	21	2	39	56	2.7
28.00	29,488	1,974	27,478	36	4	79	69	2.3
29.00	34,137	19,319	14,723	95	2	41	40	1.2
30.00	29,430	2,956	26,449	25	7	43	52	1.8
36.00	19,566	4,256	15,296	14	1	26	41	2.1
48.00	30,164	29,139	971	54	1	15	17	0.6
49.00	30,250	19,930	10,287	33	2	20	22	0.7
50.10	19,106	16,738	2,342	26	3	8	11	0.6
50.20	13,320	12,460	834	26	0	2	4	0.3
51.00	19,517	15,059	4,410	48	0	10	25	1.3
52.00	17,359	6,728	10,616	15	0	26	21	1.2
	285,863	133,880	151,584	399	26	349	407	1.4
BROWNSVILLE								
56.00	18,093	16,918	1,097	78	1	16	21	1.2
57.00	19,059	13,483	5,529	47	2	30	62	3.3
58.10	24,422	24,334	71	17	0	3	2	0.1
58.20	17,342	17,111	211	20	0	4	6	0.3
59.00	25,523	12,984	12,522	17	3	30	42	1.6
60.00	17,978	14,943	3,023	12	3	20	42	2.3
61.00	19,490	18,358	1,126	6	2	10	21	1.1
62.00	23,912	22,209	1,685	18	2	9	12	0.5
63.00	20,699	20,478	206	15	1	2	8	0.4
64.10	18,876	16,810	2,023	43	1	6	16	0.8
64.20	21,739	20,576	1,154	9	1	6	11	0.5
64.30	63	63	..	..	0	1	..	..
75.10	15,816	15,788	20	8	0	1	3	0.2
75.20	31,217	28,060	3,120	37	1	15	19	0.6
	274,229	242,115	31,787	327	17	153	265	1.0

†Active cases in register per 1,000 population.
See map for health area boundaries.

POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

BROOKLYN - Part B

Health Center Dist. Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Report- ed 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
BUSHWICK								
17.00 ...	16,626	15,132	1,483	11	2	21	29	1.7
22.00 ...	15,623	15,607	8	8	2	4	15	1.0
31.00 ...	26,846	12,744	14,016	86	0	33	44	1.6
32.00 ...	21,952	21,616	329	7	1	6	10	0.4
33.00 ...	25,050	24,992	26	32	1	8	15	0.6
34.00 ...	27,370	26,639	717	14	4	17	22	0.8
35.00 ...	25,021	23,253	1,745	23	5	22	22	0.9
37.00 ...	12,459	10,471	1,982	6	1	14	12	1.0
38.00 ...	21,051	20,808	240	3	2	5	13	0.6
39.00 ...	21,921	21,881	25	15	1	8	10	0.4
	213,919	193,143	20,571	205	19	138	192	0.9
FLATBUSH								
53.10 ...	20,721	20,687	20	14	1	5	9	0.4
53.20 ...	32,010	31,394	570	46	0	9	14	0.4
54.00 ...	29,203	27,874	1,243	86	2	9	14	0.4
55.10 ...	31,813	31,515	281	17	1	9	9	0.3
55.20 ...	31,311	31,098	153	60	1	7	9	0.3
70.00 ...	30,629	30,511	82	36	1	5	10	0.3
71.10 ...	12,612	12,593	5	14	0	3	1	0.1
71.20 ...	28,241	28,094	98	49	0	5	3	0.1
72.10 ...	38,798	38,459	246	93	2	9	20	0.5
72.20 ...	18,812	18,719	81	12	2	5	4	0.2
73.10 ...	27,177	26,986	136	55	1	2	2	0.1
73.20 ...	26,323	26,221	92	10	0	5	2	0.1
74.10 ...	35,324	35,214	30	80	0	14	18	0.5
74.20 ...	21,833	21,475	340	18	0	0	5	0.2
88.10 ...	34,464	34,384	63	17	1	6	8	0.2
88.21 ...	28,062	27,996	34	32	1	2	8	0.3
88.22 ...	24,791	24,690	88	13	0	5	5	0.2
	472,124	467,910	3,562	652	13	100	141	0.3
FORT GREENE								
10.00 ...	13,036	7,136	5,828	72	5	16	26	2.0
11.00 ...	16,214	9,284	6,803	127	0	12	20	1.2
12.00 ...	28,519	24,097	4,358	64	4	42	59	2.1
13.00 ...	25,077	4,348	20,687	42	9	36	64	2.6
14.00 ...	26,034	18,271	7,722	41	1	23	26	1.0
18.00 ...	19,167	12,076	7,064	27	3	26	41	2.1
19.00 ...	21,422	14,056	7,341	25	4	28	48	2.2
27.10 ...	20,636	12,569	8,014	53	3	30	42	2.0
27.20 ...	14,697	14,203	482	12	2	1	2	0.1
45.00 ...	28,984	27,526	1,409	49	1	17	24	0.8
93.00 ...	6,332	5,784	509	39	0	0	..	..
	220,118	149,350	70,217	551	32	231	352	1.6

†Active cases in register per 1,000 population.
See map for health area boundaries.

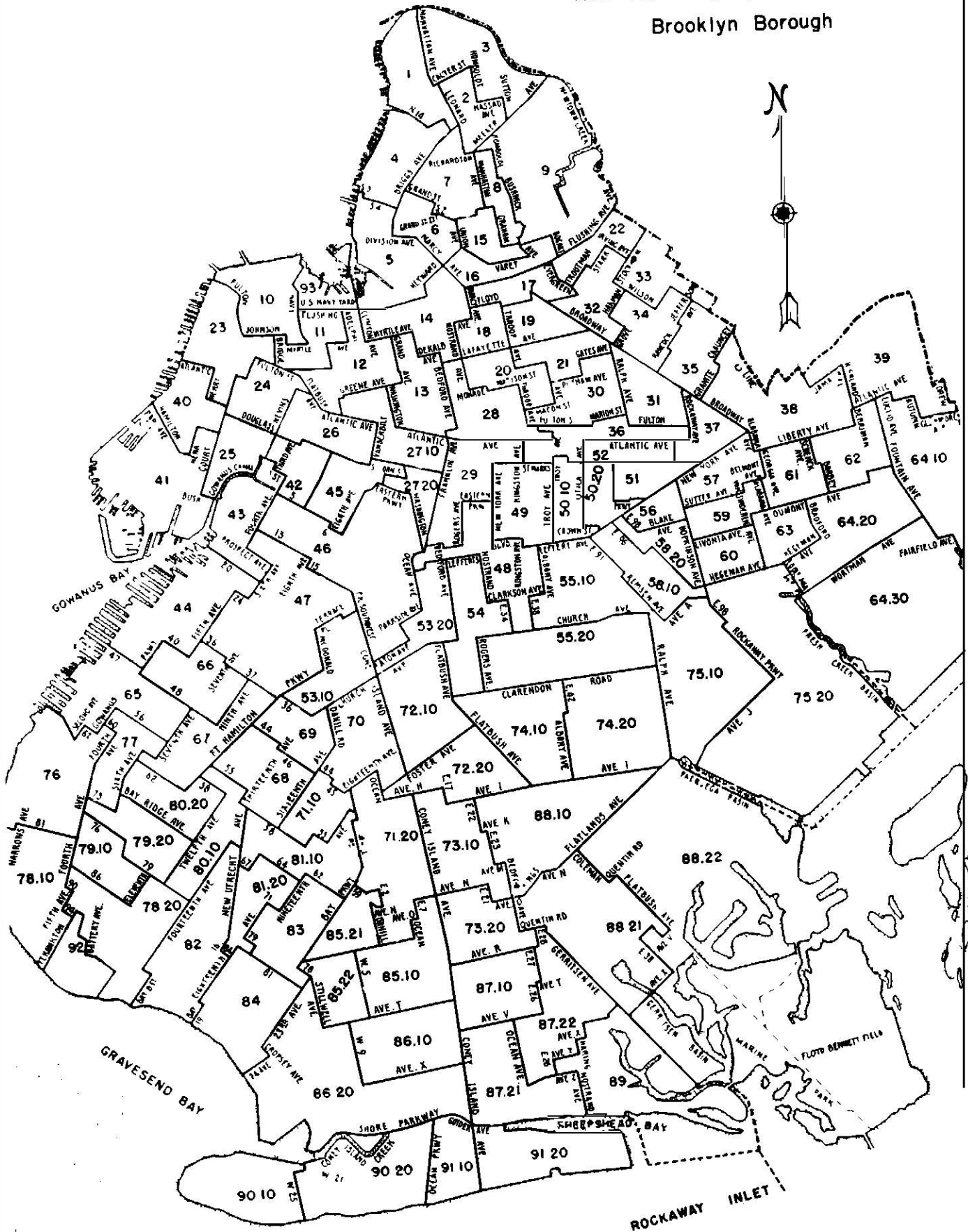
POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

BROOKLYN - Part C

Health Center Dist. Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Reported 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
GRAVESEND								
85.10 ..	27,125	27,047	56	22	4	8	3	0.1
85.21 ..	17,224	17,172	44	8	0	2	1	0.1
85.22 ..	17,605	17,577	18	10	1	1	4	0.2
86.10 ..	23,169	23,116	21	32	0	5	6	0.3
86.20 ..	34,395	34,314	60	21	1	8	11	0.3
87.10 ..	23,086	22,997	44	45	0	4	8	0.3
87.21 ..	19,358	18,808	501	49	2	6	5	0.3
87.22 ..	33,255	32,899	303	53	1	3	10	0.3
89.00 ..	13,277	13,191	80	6	0	5	5	0.4
90.10 ..	22,882	21,901	963	18	1	5	15	0.7
90.20 ..	17,140	16,134	934	72	1	9	21	1.2
91.10 ..	17,183	17,078	85	20	1	4	10	0.6
91.20 ..	17,506	17,195	281	30	1	5	2	0.1
	283,205	279,429	3,390	386	13	65	101	0.4
RED HOOK-GOWANUS								
23.00 ..	29,094	28,497	398	199	4	28	60	2.1
24.00 ..	23,476	18,784	4,482	210	2	22	53	2.3
25.00 ..	12,092	12,031	46	15	2	4	8	0.7
26.00 ..	23,341	19,223	4,013	105	3	30	92	3.9
40.00 ..	18,555	18,045	497	13	3	15	33	1.8
41.00 ..	28,413	22,388	5,991	34	6	17	41	1.4
42.00 ..	19,406	18,907	478	21	2	8	22	1.1
43.00 ..	11,796	11,712	54	30	1	9	13	1.1
	166,173	149,587	15,959	627	23	133	322	1.9
SUNSET PARK								
44.00 ..	15,437	15,390	32	15	3	10	16	1.0
46.00 ..	23,642	23,562	36	44	5	12	23	1.0
47.00 ..	23,617	23,572	17	28	1	11	19	0.8
65.00 ..	26,364	26,289	29	46	7	25	35	1.3
66.00 ..	27,356	27,271	35	50	3	11	22	0.8
67.00 ..	29,211	29,088	88	35	3	4	8	0.3
68.00 ..	29,978	29,901	62	15	2	6	6	0.2
69.00 ..	20,346	20,291	36	19	0	9	8	0.4
	195,951	195,364	335	252	24	88	137	0.7
WILLIAMSBURG-GREENPOINT								
1.00 ..	15,703	15,660	17	26	9	20	26	1.7
2.00 ..	17,737	17,682	36	19	4	10	13	0.7
3.00 ..	12,394	12,383	8	3	3	12	19	1.5
4.00 ..	14,270	14,171	97	2	2	14	19	1.3
5.00 ..	26,886	25,764	1,099	23	4	27	27	1.0
6.00 ..	25,506	24,881	548	77	0	28	55	2.2
7.00 ..	19,082	19,010	66	6	2	9	7	0.4
8.00 ..	15,905	14,768	1,128	9	0	4	13	0.8
9.00 ..	17,454	15,180	2,252	22	2	9	18	1.0
15.00 ..	14,854	13,493	1,346	15	2	15	27	1.8
16.00 ..	12,830	9,791	2,956	83	1	26	31	2.4
	192,621	182,783	9,553	285	29	174	255	1.3
BKLYN TOTAL ..	2,602,433	2,290,653	307,796	3,984	206	1,501	2,291	0.9

†Active cases in register per 1,000 population. See map for health area boundaries.

New York City by Health Areas Brooklyn Borough



Prepared from official health area map published
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POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

QUEENS - Part A

Health Center Dist.	Population April 1, 1957				Deaths All Forms 1958	New Cases Reported 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
ASTORIA-LONG ISLAND CITY								
1.10 ...	18,857	18,844	1	12	2	2	9	0.4
1.20 ...	29,194	28,935	24	235	3	14	18	0.6
3.00 ...	30,450	28,677	1,754	19	0	16	23	0.8
4.00 ...	33,524	33,416	32	76	4	12	22	0.7
5.10 ...	18,336	18,316	1	19	0	5	15	0.8
5.20 ...	19,792	18,634	1,109	49	2	5	13	0.7
7.10 ...	26,295	24,863	1,382	50	1	10	18	0.7
7.20 ...	18,851	13,815	5,006	30	3	13	33	1.8
8.00 ...	25,002	24,930	28	44	2	10	18	0.7
9.10 ...	21,676	21,595	19	62	2	11	17	0.8
9.20 ...	17,828	17,786	10	32	1	6	12	0.7
	259,805	249,811	9,366	628	20	104	198	0.8
CORONA								
6.10 ...	22,159	12,166	9,930	63	4	21	24	1.1
6.20 ...	27,267	27,225	17	25	0	8	15	0.6
10.11 ...	23,590	23,465	59	66	1	6	22	0.9
10.12 ...	14,720	14,601	40	79	1	5	12	0.8
10.21 ...	16,722	16,637	33	52	3	7	20	1.2
10.22 ...	19,899	19,812	51	36	0	2	11	0.6
11.00 ...	26,841	18,339	8,452	50	1	12	43	1.6
14.10 ...	12,431	12,405	12	14	0	7	13	1.0
14.20 ...	28,582	28,498	33	51	3	9	11	0.4
15.00 ...	14,886	14,573	304	9	2	7	19	1.3
	207,097	187,721	18,931	445	15	84	190	0.9
FLUSHING								
2.10 ...	14,766	14,746	3	17	0	4	13	0.9
2.20 ...	45,595	45,452	45	98	2	4	13	0.3
12.00 ...	29,981	28,081	1,807	93	3	16	27	0.9
13.10 ...	32,540	32,320	90	130	2	6	14	0.4
13.20 ...	23,733	23,312	361	60	3	8	13	0.5
20.10 ...	51,006	50,375	170	461	0	7	17	0.3
20.20 ...	39,802	37,620	2,105	77	2	12	23	0.6
21.11 ...	18,431	18,082	323	26	0	6	9	0.4
21.12 ...	42,147	40,830	1,191	126	2	15	23	0.5
21.30 ...	25,307	25,110	117	80	1	3	7	0.3
21.40 ...	30,673	30,527	67	79	0	4	4	0.1
21.50 ...	22,030	21,920	70	40	1	4	7	0.3
21.60 ...	32,016	31,386	597	33	0	4	19	0.6
21.70 ...	25,687	25,577	34	76	1	4	6	0.2
39.00 ...	743	586	154	3	0	0	..	..
	434,457	425,924	7,134	1,399	17	97	195	0.4

†Active cases in register per 1,000 population.
See map for health area boundaries.

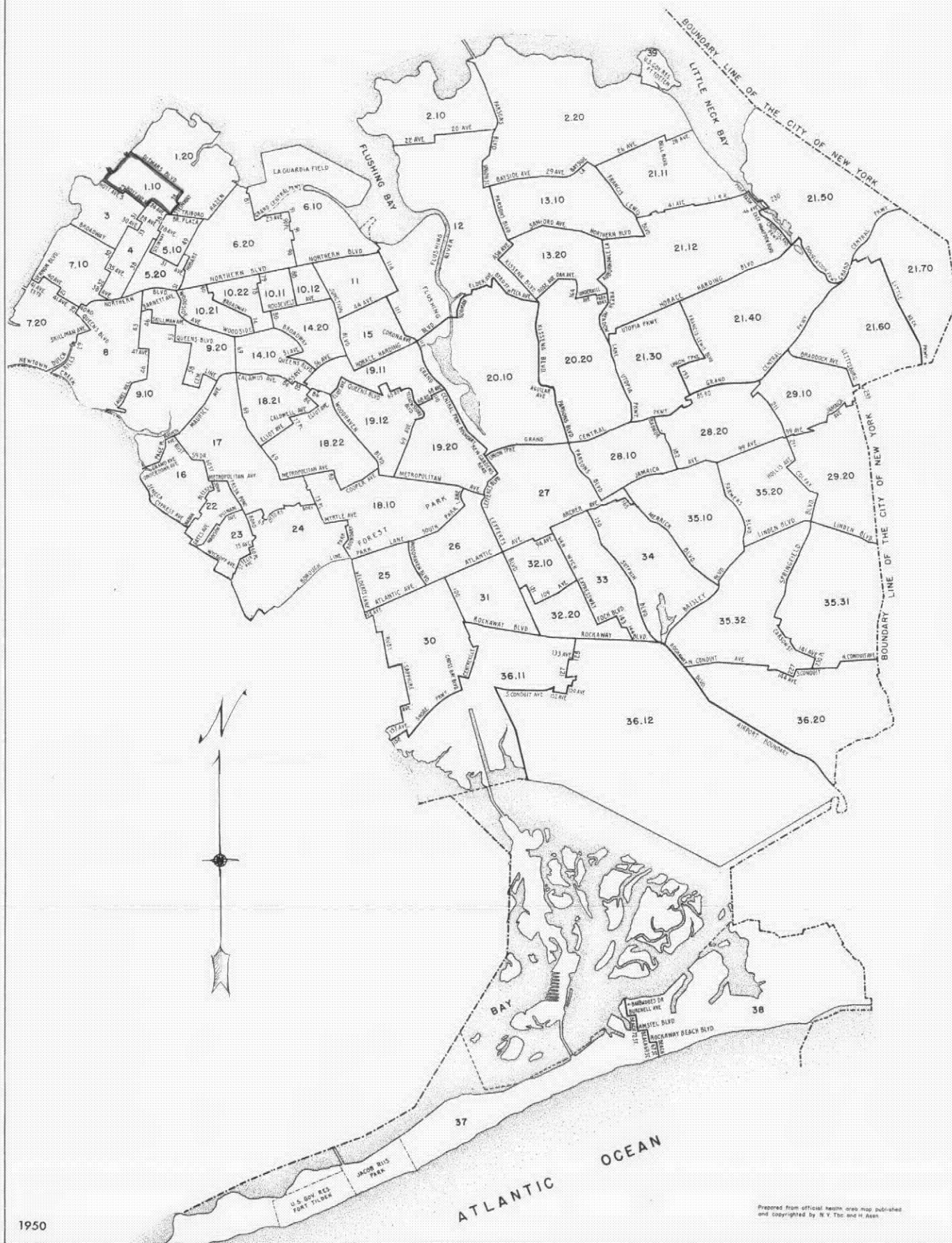
POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

QUEENS - Part B

Health Center Dist. Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Reported 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate
JAMAICA EAST								
28.10 ..	21,177	21,024	37	116	2	4	16	0.8
28.20 ..	28,704	28,586	45	73	2	10	9	0.3
29.10 ..	20,857	20,825	6	26	0	4	8	0.4
29.20 ..	26,196	26,131	8	57	3	12	7	0.3
33.00 ..	23,866	10,267	13,569	30	2	13	23	1.0
34.00 ..	30,212	6,665	23,471	76	9	32	65	2.2
35.10 ..	23,203	7,998	15,168	37	1	13	28	1.2
35.20 ..	28,997	25,686	3,225	86	3	11	17	0.6
35.31 ..	33,552	33,462	34	56	4	8	10	0.3
35.32 ..	28,042	15,496	12,471	75	0	9	31	1.1
36.20 ..	19,190	19,105	79	6	0	3	7	0.4
	283,996	215,245	68,113	638	26	119	221	0.8
JAMAICA WEST								
25.00 ..	24,741	24,722	6	13	2	12	15	0.6
26.00 ..	28,699	28,520	114	65	1	6	15	0.5
27.00 ..	45,814	45,501	124	189	2	17	16	0.3
30.00 ..	30,819	30,780	14	25	2	6	13	0.4
31.00 ..	29,514	29,407	98	9	4	7	20	0.7
32.10 ..	17,339	17,227	103	9	0	7	10	0.6
32.20 ..	17,208	14,283	2,899	26	3	7	11	0.6
36.11 ..	22,726	22,678	42	6	0	4	6	0.3
36.12 ..	14,747	13,356	1,386	5	1	6	12	0.8
37.00 ..	30,740	25,446	5,256	38	0	16	36	1.2
38.00 ..	33,574	31,333	2,184	57	5	11	18	0.5
	295,921	283,253	12,226	442	20	99	172	0.6
MASPETH-FOREST HILLS								
16.00 ..	17,804	17,798	3	3	4	3	9	0.5
17.00 ..	28,970	28,925	32	13	4	5	16	0.6
18.10 ..	22,582	22,574	1	7	0	3	10	0.4
18.21 ..	16,949	16,931	7	11	1	5	10	0.6
18.22 ..	20,881	20,802	7	72	1	6	7	0.3
19.11 ..	31,545	31,097	75	373	1	6	8	0.3
19.12 ..	44,974	44,661	84	229	0	6	6	0.1
19.20 ..	34,446	34,090	183	173	0	8	9	0.3
22.00 ..	19,213	19,183	3	27	0	7	13	0.7
23.00 ..	20,019	19,999	12	8	0	1	10	0.4
24.00 ..	23,923	23,899	16	8	1	6	14	0.6
	281,306	279,959	423	924	12	56	112	0.4
QUEENS TOTAL								
TOTAL ..	1,762,582	1,641,913	116,193	4,476	110	559	1,088	0.6

*Active cases in register per 1,000 population.
See map for health area boundaries.

New York City by Health Areas
Queens Borough



POPULATION AND TUBERCULOSIS
By Health Center Districts and Health Areas
New York City

RICHMOND

Health Center Dist. Health Area	Population April 1, 1957				Deaths All Forms 1958	New Cases Report- ed 1958	Active Cases in Register Dec. 31, 1959	
	Total All Races	White	Negro	Other			No.	Rate†
RICHMOND								
1.00 ..	19,472	17,527	1,912	33	5	10	17	0.9
2.00 ..	17,650	17,071	562	17	2	4	9	0.5
3.00 ..	21,901	20,051	1,836	14	1	9	13	0.6
4.00 ..	27,302	25,786	1,468	48	1	6	13	0.4
5.00 ..	16,041	15,446	571	24	0	5	11	0.7
6.00 ..	30,123	29,099	973	51	2	13	14	0.4
7.00 ..	13,665	13,514	124	27	0	7	6	0.4
8.00 ..	17,930	17,461	457	12	1	5	14	0.8
9.10 ..	25,832	25,408	399	25	1	8	7	0.3
9.20 ..	20,634	20,574	40	20	0	2	8	0.4
10.00 ..	1,470	1,436	30	4	0	0	1	0.7
RICHMOND TOTAL ..	212,020	203,373	8,372	275	13	69	113	0.5
NEW YORK CITY TOTAL ..	7,795,471	6,814,220	948,196	33,055	788*	5,482	9,270	1.2

†Active cases in register per 1,000 population.

*Residents of boroughs.

See map for health area boundaries.

New York City by Health Areas

Richmond Borough



REACTIVATED
CASES

Each year since 1950 the Bureau of Tuberculosis has recorded about thirteen hundred unhospitalized individuals in whom previously arrested disease has become "reactivated". The annual average for the 1950-1959 period was 1,374. The information is insufficient to indicate the proportion of "reactivations" in relation to all previously treated and arrested cases. There may be additional reactivations not reported to the Department of Health. Unfortunately, a substantial number of individuals with recently reactivated disease refuse to re-enter an institution for further treatment and must be treated in clinics.(†)

REACTIVATED CASES OF TUBERCULOSIS*

Year	Man.	Bronx	Bklyn.	Queens	Rich.	N.Y. City
1950	518	200	405	201	18	1,342
1951	513	183	408	166	26	1,296
1952	466	190	442	199	25	1,322
1953	630	195	445	167	41	1,478
1954	598	193	433	150	30	1,404
1955	581	183	440	124	33	1,361
1956	596	154	400	126	16	1,292
1957	683	201	424	137	22	1,467
1958	658	170	413	135	24	1,400
1959	649	196	370	134	33	1,382

*Previously arrested, cases resumed.

Based on Tuberculosis Register, Bureau of Tuberculosis, Department of Health, City of New York.

(†)Robins, Arthur B., M.D. (Director, Bureau of Tuberculosis, Department of Health, City of New York): The Unhospitalized Tuberculosis Patient, Public Health News, New Jersey State Department of Health, January 1957.

**COMMUNITY
CASE FATALITY
RATES**

In the main, case fatality rates, whether institutional or for the entire community, are markedly lower nowadays and prognosis, even for an advanced case of disease, is more favorable than a decade ago when less use was made of antibacterials. Prior to 1948 the community case fatality rates for pulmonary tuberculosis in New York City, going back to the year 1900, averaged around 43 percent. The yearly fluctuations ranged from 35 to 56 percent during the period preceding the widespread use of drug therapy.

Streptomycin, which was discovered in 1944, and tested clinically in 1945 and 1946, became more generally available beginning in 1947. Too, in 1949, para-aminosalicylic acid (PAS) was introduced. The subsequent reduction in mortality brought the case fatality rates down by almost a third within a span of three or four years. A further impetus to this decline was given in 1952 when isoniazid was employed in the treatment of tuberculosis. Since 1953 there appears to be less change in the community case fatality rate. Case-finding procedures have contributed to maintain a high level of new cases reported.

**COMMUNITY CASE FATALITY RATES
Pulmonary Tuberculosis
New York City, since 1900**

Period	New Cases		Deaths		Community Fatality Ratio†
	Number	Rate†	Number	Rate†	
1900-1904	72,551	396	40,390	220	56%
1905-1909	109,633	508	44,001	204	40%
1910-1914	123,605	498	43,592	176	35%
1915-1919	87,941	326	42,235	156	48%
1920-1924	63,600	214	26,072	88	41%
1925-1929	55,878	170	23,191	71	42%
1930-1934	54,185	154	20,830	59	38%
1935-1939	43,936	120	19,044	52	43%
1940-1944	41,328	109	16,516	44	40%
1945-1949	34,153	88	14,396	37	42%
1950	6,518	83	2,154	27	33%
1951	6,331	80	1,978	25	31%
1952	6,021	77	1,460	18	24%
1953	6,110	78	1,183	15	19%
1954	5,439	69	1,048	13	19%
1955	5,064	65	1,023	13.1	20%
1956	5,089	65	916	11.7	18%
1957	5,162	66	931	11.9	18%
1958	4,513	58	772	9.9	17%
1959	4,196	54	736	9.4	17%

†Rate per 100,000 population. ‡Deaths per 100 new cases reported.

Note: Number of new cases and deaths prior to 1950, shown above, are totals during each quinquennial period.

TUBERCULIN
TESTING

The School Health Services of the Department of Health continued tuberculin testing among those adolescents entering secondary schools in New York City. (#)

The program calls for tuberculin testing of all students newly admitted to the public, parochial and private high schools of New York City and yearly x-rays of positive reactors to the test throughout their secondary school careers. Participation of students is based upon parental request.

The fifth year of tuberculin testing in the secondary schools also marked the second year of testing by the Heaf method. Results for both years are shown, but they are not completely comparable since a refinement in the technique of reading the results of the test was followed in the second year of testing and, whereas PPD (Purified Protein Derivative) was used exclusively for testing in the second year, OT (Old Tuberculin) was used almost exclusively in the first year.

Positive reaction rates, though lower than last year with few exceptions, still point up Manhattan schools as having the highest rates and Richmond and Queens the lowest. Again, generally speaking, vocational high schools in all boroughs had the highest positive reaction rates and Catholic high schools had the lowest rates.

Altogether, last year, with approximately 90,873 students eligible, 60,375, or 66 percent, participated; 56,189 tests were read. Included in the testing were 33 vocational schools(*), 65 public academies(†), 86 Catholic academies and 7 Hebrew academies; or a total of 191 schools.

(#)Daly, Joan N., M.D.: Tuberculin Testing in Secondary Schools, Results of the Fifth Year, School Health Services, Department of Health, City of New York, 1960. (*)Including 4 annexes; (†)also, 8 annexes.

Of importance in last year's Heaf tests is the fact that the positive reactors were x-rayed in the follow-up work and 14 active cases of tuberculosis were found as compared to 11 active cases the year before.

HEAF TEST

Borough	1958-59			1959-60		
	Tests Read	Number Positive	Percent Positive	Tests Read	Number Positive	Percent Positive
Manhattan	12,816	2,973	23.2%	10,555	1,847	17.5%
Bronx	10,417	2,220	21.3%	9,587	1,287	13.4%
Brooklyn	20,473	3,434	16.7%	21,901	1,530	7.0%
Queens	12,399	1,548	12.5%	11,836	804	6.8%
Richmond	2,265	415	18.3%	2,310	129	5.6%
New York City.	58,370	10,590	18.1%	56,189	5,597	10.0%

(See preceding text)

Robins and Daly report(†) that in New York City the Heaf multiple-puncture tuberculin test was applied to 61,000 pupils entering 186 high schools during the year 1958. They found the test to be acceptable to both students and staff. It was considered more dependable than the Vollmer patch test. "Comparative studies with the Mantoux test in a variety of groups showed the Heaf test to be highly specific, with a sensitivity level between that of intermediate-strength and full-strength tuberculin intradermal tests." They indicate that the Heaf reaction can be interpreted with a high degree of consistency, and under certain circumstances may be susceptible to reading by the subjects themselves. Also, in mass tuberculin screening programs, the Heaf test is considered to be a satisfactory substitute for the Mantoux test. It may prove to be equally valuable in epidemiologic investigations.

(†)Robins, A.B., Daly, J.N.: Evaluation of the Heaf Tuberculin Test, New England Journal of Medicine, May 19, 1960.

CARE OF THE TUBERCULOUS

Thousands of tuberculosis patients in New York City are receiving care and treatment under various medical auspices, both public and private. More lives are being saved each year as health and welfare services are improved and expanded. On December 31, 1959, there were 4,653 New Yorkers with active tuberculosis in sanatoria and hospitals, both in the city (3,996) and in out-of-town (657) institutions. Public and private clinics had under their care or supervision 2,770 persons with active disease. Private doctors indicated that at least 625 persons with active tuberculosis were under their supervision. There were additional thousands of New Yorkers with arrested and inactive disease who were under medical and public health supervision. Free treatment for tuberculosis for all residents is available at tuberculosis clinics and hospitals, supported by the municipal and state agencies, regardless of their means to pay.

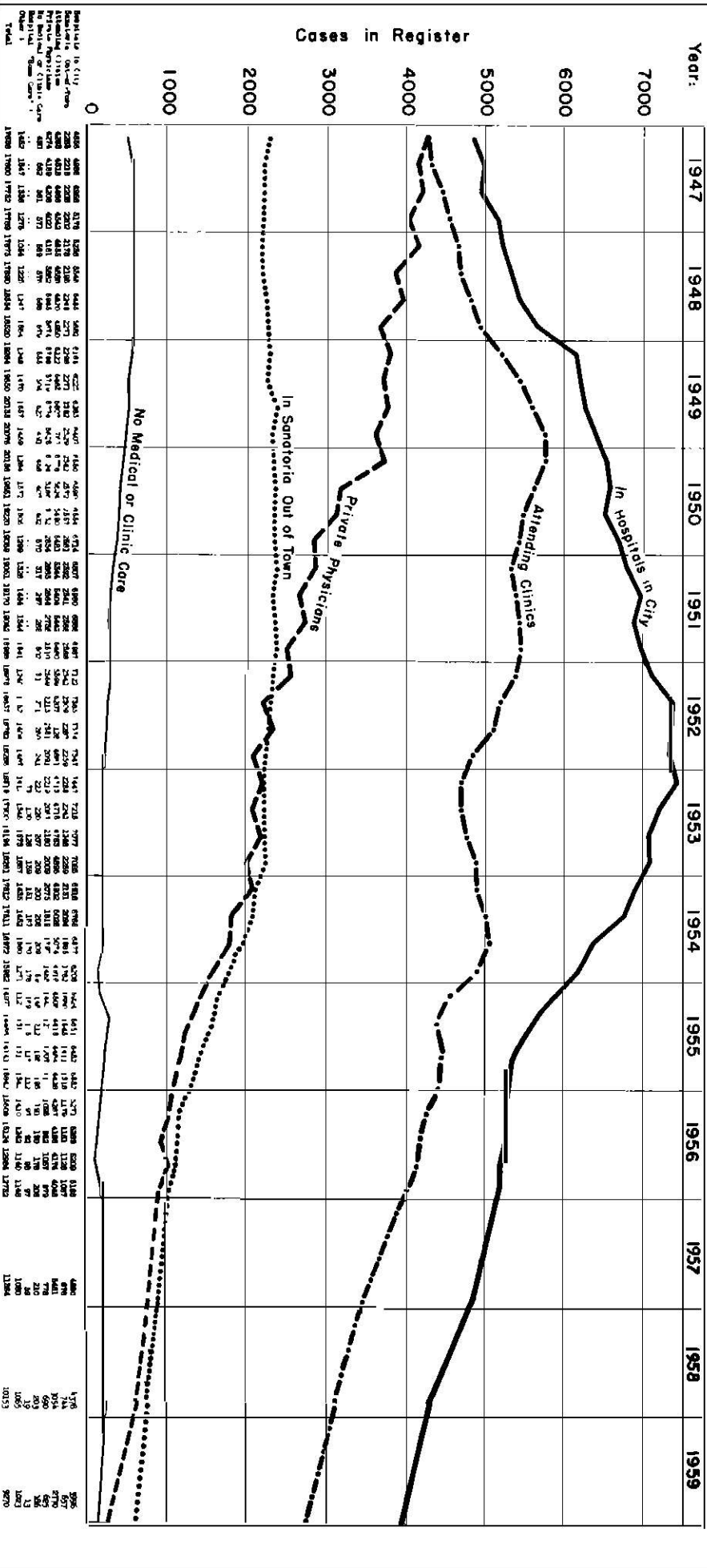
AT CLINICS

Although the number of individuals with active tuberculosis attending the Department of Health chest clinics has dropped in 1959, the total volume of work connected with care of clinic patients has not changed materially. The number of arrested, inactive and apparently cured cases has increased.

Clinics of the Department of Hospitals and voluntary hospitals now take care of less than half as many patients with active tuberculosis as they did a few years ago. Whereas in 1950 fifty percent of all "clinic cases" with active disease were under non-Health Department care, in 1957 the proportion was 32 percent, in 1958, 30 percent and, in 1959, 28 percent.

TUBERCULOSIS CASES* - TYPE OF CARE, NEW YORK CITY

On last day, each quarter, 1947 - 1959



*Based on data reported by the Department of Health, City of New York, and the Department of Health, State of New York, for the year ending December 31, 1959. The number of cases in the register is shown in the table below.

TUBERCULOSIS REGISTER, NEW YORK CITY
On Last Day of 1959 and of 1958

Health Center DISTRICT	Segregated, 1959			Ambulant, Dec. 31, 1959						Total in Register		
	Hospitals in city	Sana- toria †	Total iso- lat- ed	At clin- ics	Pri- vate doc- tors	Pend- ing	No‡ Med. Clin. Care	Home Care §	Total ambu- lant	Dec. 31 1959	Dec. 31 1958	Change 1959 over 1958
MANHATTAN:												
Central Harlem.	425	66	491	369	17	254	34	1	675	1166	1204	- 38
East Harlem ...	175	10	185	123	8	63	13	2	209	394	398	- 4
Kips Bay-York..	67	22	89	29	22	33	11	2	97	186	181	+ 5
Lower E. Side..	628	121	749	280	22	229	10	0	541	1290	1398	- 108
Lower W. Side..	421	130	551	132	21	70	8	1	232	783	957	- 174
Riverside	213	30	243	157	23	61	5	0	246	489	516	- 27
Washington H...	79	16	95	67	14	43	6	0	130	225	250	- 25
MANHATTAN ...	2008	395	2403	1157	127	753	87	6	2130	4533	4904	- 371
BRONX:												
Ford'm-River...	45	7	52	19	16	11	2	0	48	100	91	+ 9
Morrisania	167	18	185	166	16	34	8	1	225	410	420	- 10
Mott Haven	153	22	175	108	16	52	11	0	187	362	406	- 44
Pelham Bay	40	3	43	26	10	3	0	0	39	82	70	+ 12
Tremont	67	10	77	67	19	9	1	1	97	174	200	- 26
Westchester ...	47	8	55	39	18	5	0	0	62	117	136	- 19
BRONX	519	68	587	425	95	114	22	2	658	1245	1323	- 78
BROOKLYN:												
Bay Ridge	40	10	50	36	17	16	0	0	69	119	125	- 6
Bedford	184	16	200	157	16	24	10	0	207	407	480	- 73
Brownsville ...	128	18	146	104	8	3	4	0	119	265	246	+ 19
Bushwick	97	11	108	60	18	1	5	0	84	192	257	- 65
Flatbush	42	14	56	36	31	17	1	0	85	141	155	- 14
Fort Greene ...	173	26	199	132	13	7	1	0	153	352	389	- 37
Gravesend	30	10	40	36	14	8	3	0	61	101	94	+ 7
Red Hook-Gowan.	133	18	151	150	9	11	1	0	171	322	343	- 21
Sunset Park ...	46	10	56	46	16	19	0	0	81	137	182	- 45
Wmsbrg-Greenpt.	122	9	131	100	19	2	2	1	124	255	288	- 33
BROOKLYN	995	142	1137	857	161	108	27	1	1154	2291	2559	- 268
QUEENS:												
Astoria-L.I.C..	75	7	82	65	49	0	1	1	116	198	263	- 65
Corona	84	14	98	48	35	3	4	2	92	190	176	+ 14
Flushing	87	15	102	48	41	0	3	1	93	195	197	- 2
Jamaica East ..	83	14	97	65	31	0	28	0	124	221	248	- 27
Jamaica West ..	54	9	63	65	26	12	6	0	109	172	227	- 55
Maspeth-F.H. ..	43	3	46	27	32	0	7	0	66	112	135	- 23
QUEENS	426	62	488	318	214	15	49	4	600	1088	1246	- 158
RICHMOND	48	14	62	13	28	9	1	0	51	113	121	- 8
N.Y. CITY, 1959..	3996	681	4677	2770	625	999	186	13	4593	9270	...	- 883
Dec. 31, 1958..	4378	772	5150	3054	690	1037	203	19	5003	10153	10153	...
Change..	-382	-91	-473	-284	-65	-38	-17	-6	-410	-883	...	...

†Includes 24 out of town, not in sanatoria. ‡No medical or clinic care. §Under home medical supervision and treatment by Department of Hospitals. Compiled from reports by courtesy of the Bureau of Tuberculosis and the Bureau of Records and Statistics, Department of Health, City of New York, by New York Tuberculosis and Health Association.

PATIENTS WITH ACTIVE TUBERCULOSIS UNDER CLINIC CARE
(Active Cases on Tuberculosis Register, December 31)
New York City, 1950-1959

Patients	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
DEPARTMENT OF HEALTH CLINICS										
Manhattan	1,174	1,231	1,053	1,018	1,096	1,147	1,041	915	741	718
Bronx	364	351	308	261	357	422	413	337	324	283
Brooklyn	903	832	835	870	952	941	915	827	757	728
Queens	286	283	267	208	263	246	252	253	280	257
Richmond	33	31	19	19	21	19	20	18	21	11
New York City ..	2,760	2,728	2,482	2,376	2,689	2,775	2,641	2,350	2,123	1,997
OTHER CLINICS*										
Manhattan	1,412	1,381	1,122	1,147	1,004	703	651	573	495	439
Bronx	387	365	362	400	404	250	218	189	165	142
Brooklyn	474	482	378	444	349	337	285	243	179	129
Queens	419	475	491	516	458	353	251	123	86	61
Richmond	29	29	26	12	12	10	2	3	6	2
New York City ..	2,721	2,732	2,379	2,519	2,227	1,653	1,407	1,131	931	773
TOTAL ALL CLINICS										
Manhattan	2,586	2,612	2,175	2,165	2,100	1,850	1,692	1,488	1,236	1,157
Bronx	751	716	670	661	761	672	631	526	489	425
Brooklyn	1,377	1,314	1,213	1,314	1,301	1,278	1,200	1,070	936	857
Queens	705	758	758	724	721	599	503	376	366	318
Richmond	62	60	45	31	33	29	22	21	27	13
New York City ..	5,481	5,460	4,861	4,895	4,916	4,428	4,048	3,481	3,054	2,770

*Department of Hospitals and voluntary hospitals.

The Department of Health had under clinic supervision, on the last day of 1959, 19,164 tuberculosis cases. These included 18,168 adults with pulmonary disease (Active = 1,834, Inactive, arrested and apparently cured cases = 16,091, Activity undetermined = 243), 208 children with pulmonary disease, 307 persons under care for pleurisy with effusion, and 481 with other forms of tuberculosis. Distribution of the patients by ethnic group listed 9,301 (49%) as white, 6,599 (34%) nonwhite and 3,264 (17%) as of Puerto Rican origin.

Inv. Cont. 12/21
1946
44 (57-63)

TUBERCULOSIS CASES UNDER CLINIC SUPERVISION
Department of Health, City of New York
On Last Day of Year, 1954-1959

Year:-	1954	1955	1956	1957	1958	1959
Adults	13,634	15,974	17,165	18,536	18,226	18,701
Children	689	801	808	687	469	463
Total	14,323	16,775	17,973	19,223	18,695	19,164
RACE						
White	7,567	8,738	8,934	9,731	9,016	9,301
Nonwhite	3,933	4,662	5,231	5,631	5,896	6,599
Puerto Rican	2,823	3,375	3,808	3,861	3,783	3,264
All races	14,323	16,775	17,973	19,223	18,695	19,164
TYPE OF CASES						
Pulmonary adult						
Active disease	2,465	2,834	2,641	2,327	2,014	1,834
Inactive†	10,749	12,189	13,846	15,374	15,490	16,091
Activity undetermined	309	432	361	389	227	243
Pulmonary, childhood	251	304	362	311	235	208
Pleurisy with effusion	233	274	288	331	307	307
Other forms of TB	316	742	475	491	422	481
Total	14,323	16,775	17,973	19,223	18,695	19,164

Note: Diagnostic and consultation clinics were combined in January 1954.

†Includes arrested, inactive and apparently cured cases.

From reports of Department of Health, City of New York.

VISITS TO CLINICS Fewer visits of tuberculous patients to Department of Health chest clinics were made during 1959 than in the previous three years. The combined total for adults and children in 1959 was 78,334 as compared to 80,287 in 1958 and 85,250 in 1957.

VISITS TO CHEST CLINICS, TUBERCULOSIS CASES, 1954-1959
Department of Health, City of New York

Type of Visit	Visits during year					
	1954	1955	1956	1957	1958	1959
ADULTS						
First visits (new cases)	3,216	3,719	5,343	5,333	3,539	3,783
Previous year's cases	11,597	12,856	14,784	15,928	17,898	17,555
Transfers from other H.D.clinics.	650	729	1,130	1,470	1,207	969
Revisits	56,931	54,850	57,804	57,557	53,636	52,228
Total adult visits	72,394	72,154	79,061	80,288	76,280	74,535
CHILDREN						
First visits (new cases)	292	362	443	468	325	311
Previous year's cases	510	563	767	898	858	767
Transfers from other H.D.clinics.	72	90	142	118	97	88
Revisits	2,002	2,570	3,762	3,478	2,727	2,633
Total children visits	2,876	3,585	5,114	4,962	4,007	3,799
Total visits, adults and children ...	75,270	75,739	84,175	85,250	80,287	78,334

**ATTENDANCE
TUBERCULOSIS
SERVICES**

The combined attendance at the Department of Health Tuberculosis Services last year was 267,605 as compared to a high of 331,765 during 1956.

**ATTENDANCE* AT HEALTH DEPARTMENT TUBERCULOSIS SERVICES
New York City, 1952-1959**

Borough	1952	1953	1954	1955	1956	1957	1958	1959
Manhattan	98,747	101,524	107,121	127,157	131,230	117,183	107,340	93,496
Bronx	32,355	30,484	30,889	40,074	46,018	41,749	46,981	50,551
Brooklyn	86,025	84,147	86,282	106,642	117,229	97,178	89,742	88,389
Queens	28,949	27,684	27,017	27,935	29,748	28,687	27,407	30,126
Richmond	6,752	6,742	6,633	7,579	7,540	4,344	4,943	5,043
New York City..	252,828	250,581	257,942	309,387	331,765	289,141	276,413	267,605

*Tuberculosis cases, suspects and contacts.

**PRIVATE
PHYSICIANS**

Treatment by private physicians of registered active cases of tuberculosis has dropped to around six hundred individuals. On December 31, 1959, there were 625 persons reported receiving care for active tuberculosis under supervision of their private physicians, whereas in 1950 the number was 2,834 or more than four times as many. This may not reflect the true picture in the community in so far as all private physicians are concerned. However, it does state the situation as given in the tuberculosis register.

UNDER CARE OF PRIVATE PHYSICIANS*

Patients	1950	1953	1954	1955	1956	1957	1958	1959
Manhattan	637	456	376	247	234	164	149	127
Bronx	468	342	262	204	148	101	100	95
Brooklyn	1,013	642	452	328	282	228	191	161
Queens	635	514	351	292	284	260	225	214
Richmond	81	55	47	46	31	25	25	28
New York City ..	2,834	2,009	1,488	1,117	979	778	690	625

*Cases with active tuberculosis on the Department of Health Register as of December 31.

Handwritten note:
252,828
250,581
257,942
309,387
331,765
289,141
276,413
267,605

ANTIBACTERIAL
DRUG TREATMENT

The Department of Health introduced in its tuberculosis clinics, beginning in July 1953, a large-scale program of specific antibacterial drug treatment of patients. By the end of 1953 there were 1,111 persons on treatment, and their number continued to increase for the following six years so that on December 31, 1959 there were 5,716 patients receiving antituberculosis drugs. Nearly all unhospitalized tuberculosis patients are receiving some form of drug therapy.

SPECIFIC ANTIBACTERIAL DRUG TREATMENT CASES, SINCE 1953*
Chest Clinics, Department of Health, City of New York

Year:- Month	Patients on Treatment							
	1 9 5 6		1 9 5 7		1 9 5 8		1 9 5 9	
	End of Month†	Started‡ Treatment	End of Month†	Started‡ Treatment	End of Month†	Started‡ Treatment	End of Month†	Started‡ Treatment
January ...	4,513	242	5,044	242	5,815	305	5,970	254
February ..	4,629	249	5,187	232	5,952	277	6,008	196
March	4,681	206	5,250	258	6,040	267	6,054	262
April	4,699	200	5,312	252	6,151	297	6,098	283
May	4,838	293	5,406	264	6,126	275	6,182	283
June	4,838	277	5,062	262	6,130	368	6,094	273
July	4,916	242	5,065	211	6,214	283	6,002	269
August	5,030	195	5,188	234	6,314	213	6,010	241
September..	5,080	156	5,267	204	6,326	251	5,883	217
October ...	5,143	282	5,419	305	6,362	258	5,848	244
November ..	5,271	271	5,623	356	6,407	203	5,726	202
December ..	5,070	202	5,709	314	6,116	255	5,716	302
Year .....	...	2,815	...	3,134	...	3,252	...	3,026

*In December 1953, 1,111 patients were on treatment and January 1960, 5,750.

†Patients under clinic supervision including active and arrested cases.

‡Exclusive of those restarted on treatment. Report by courtesy of Bureau of Tuberculosis, Department of Health, City of New York.

BCG VACCINATIONS
Department of Health, City of New York, Since 1949

Year:-	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
TOTAL	101	809	1,092	1,484	1,335	922	805	620	2,095	4,160	4,075

It has been stated that "In the field of prevention two methods of approach are now being used. BCG vaccination is being applied more widely in tuberculin negative individuals who face the risk of exposure to infection, particularly from household contacts. For those recently infected, who already react to tuberculin, isoniazid therapy is being recommended routinely." and "Since the fundamental responsibility of the Health Department is prevention, its BCG program should be continued and expanded."(*)

(*)Report of the Department of Health, the City of New York, for the years 1957-1958 (1959).

HOSPITALIZATION FOR TUBERCULOSIS

The hospital continues to play a major role in the overall care of the tuberculous in New York City. Once again during last year one-half of the patients with active tuberculosis were hospitalized for this disease. On December 31, 1959, of the 9,270 active patients of all forms on the tuberculosis register, 4,653,* or 50 percent, were under institutional care within the city or in sanatoria out of town. The proportion of persons hospitalized has been increasing over the years as shown on the following table for pulmonary tuberculosis cases.

PULMONARY TUBERCULOSIS CASES HOSPITALIZED
As of December 31 - 1940, 1945, 1950-1959

Year	Number of Pulmonary Tuberculosis Cases on Register	Hospitalized (in and out of town)	
		Number	Percent
1940	19,846	7,118	35.9%
1945	17,290	6,412	37.1%
1950	17,985	8,671	48.2%
1951	17,911	8,951	50.0%
1952	17,278	9,135	52.9%
1953	17,045	8,817	51.7%
1954	14,690	7,453	50.7%
1955	12,472	6,186	49.6%
1956	11,318	5,824	51.5%
1957	10,363	5,439	52.4%
1958	9,221	4,797	52.0%
1959	8,457	4,368	51.6%

Based on reports of the Department of Health, City of New York.

During the 1940-1950 decade there were several thousand more persons hospitalized each year than is the case today. At that time because of a shortage of beds facilities were unequal to the need and long waiting lists for admission were the rule. The peak was reached in 1952 when 9,606 New Yorkers with active

*It is to be noted that the figure of 4,653 patients in hospitals and sanatoria on the register as of December 31, 1959 does not appear to correspond with the patient census listed separately for the local individual institutions (3,264). This is due in part to the fact that there are some tuberculosis patients in general hospitals, both in and out of town, other than those listed in the local tuberculosis or chest services. Too, there may be a lag in reporting discharged patients to the Bureau of Tuberculosis thereby inflating somewhat the register figure.

tuberculosis (all forms) were in hospitals. Then there followed a drop in the total number of patients with active disease, a trend toward out-patient treatment in clinics and a subsequent easing of the bed situation so that access to a hospital bed was improved materially. The bed complement has also been reduced so that fewer beds are available today than five or six years ago. It may be anticipated that the remaining facilities may continue to be used to their maximum capacity.

On December 31, 1959, 4,653 New York City residents with various forms of active tuberculosis were receiving hospital care in public and private institutions, both in and out of town. A large proportion of these people (3,996) was under institutional care within the city, mainly in hospitals under control of the Department of Hospitals of the City of New York. Other tuberculosis patients with arrested and inactive disease, therefore not in the "active" classification but under hospital care, are not included in the following tables.

HOSPITALIZATION FOR TUBERCULOSIS, NEW YORK CITY RESIDENTS
Patients Hospitalized on Last Day of Each Year
Ten-Year Period 1950-1959

Patients	Hospitals in City	Sanatoria Out of Town	Total
1950	6,714	2,361	9,075
1951	6,987	2,388	9,375
1952	7,347	2,259	9,606
1953	7,083	2,259	9,342
1954	6,208	1,762	7,970
1955	5,332	1,318	6,650
1956	5,185	1,067	6,252
1957	4,880	876	5,756
1958	4,378	744	5,122
1959	3,996	657	4,653

Note: Above figures exclude those who are out of town in boarding houses in health resorts: 1950 = 175, 1951 = 157, 1952 = 114, 1953 = 101, 1954 = 71, 1955 = 40, 1956 = 76, 1957 = 38, 1958 = 28, 1959 = 24.
Based on Tuberculosis Register, Department of Health, City of New York.

HOSPITALIZED PATIENTS ACCORDING TO BOROUGH OF RESIDENCE
As of December 31st, 1950-1959

Year	Patients' Borough of Residence†					New York City
	Manhattan	Bronx	Brooklyn	Queens	Richmond	
1950	4,354	1,170	2,316	1,103	132	9,075
1951	4,555	1,253	2,371	1,062	134	9,375
1952	4,672	1,269	2,414	1,106	145	9,606
1953	4,534	1,180	2,397	1,096	135	9,342
1954	4,014	1,086	1,955	808	107	7,970
1955	3,358	882	1,523	796	91	6,650
1956	3,238	774	1,455	719	66	6,252
1957	3,020	631	1,365	679	61	5,756
1958	2,626	565	1,295	573	63	5,122
1959	2,387	583	1,135	486	62	4,653

†Patients with active tuberculosis hospitalized in hospitals in New York City and out-of-town institutions.

A comparatively small number of New York City "city-charge" patients are hospitalized in state and county institutions in Upstate New York. On December 31, 1959 there were 186 patients so hospitalized, the majority (172) in state sanatoria with 168 of these at Ray Brook State Tuberculosis Hospital.

NEW YORK CITY PATIENTS*
In Upstate New York Tuberculosis Institutions
On Last Day of Year, 1953-1959

Year:-	1953	1954	1955	1956	1957	1958	1959
STATE SANATORIA							
Hermann M. Biggs Memorial Hospital	32	36	24	†	..	..	..
Broadacres Sanatorium	3	..	2	4	8	8	..
Homer Folks Tuberculosis Hospital	24	11	2	30	12	5	4
Mount Morris Tuberculosis Hospital ....	..	..	2	1	..	1	..
Onondaga Sanatorium**	2	2	2	2	..	..	..
Ray Brook State Tuberculosis Hospital..	94	102	101	157	141	165	168
State Sanatoria	155	151	133	194	161	171	172
COUNTY INSTITUTIONS							
Albany County Hospital .....	..	..	..	1	..	..	..
Glenridge Sanatorium .....	..	..	..	3	..	..	..
Grasslands Hospital	3	3	1	3	1	..	..
Homestead Sanatorium	1	..	1	..	..	..	..
Nassau County Sanatorium	2	1	5	2	9	6	8
Suffolk County Sanatorium	2	1	..	1	..	..	..
Summit Park Sanatorium	21	25	12	10	8	6	5
Ulster County Tuberculosis Hospital ...	..	..	..	2	2	1	1
County Institutions	29	30	19	22	20	13	14
VOLUNTARY INSTITUTIONS							
Stony Wold Sanatorium	92	92	‡	..	..	..	..
Total New York City Charges*	276	273	152	216	181	184	186

*New York "city-charge" cases. †Closed May 20, 1956. ‡Closed in 1955.
§Closed March 31, 1958. **Closed 1959. Based on reports by courtesy of
the Bureau of Administration, Department of Hospitals, City of New York.

DEPARTMENT OF HOSPITALS INSTITUTIONS The total bed complement of the Department of Hospitals institutions, including general and special hospitals, in 1959 was reported as 19,274.(†) On December 31, 1959 the tuberculosis bed complement in eight of the hospitals was 2,648, or 13.7 percent of the total. Therefore, one of every seven beds was assigned for care of tuberculous patients in 1959 as compared to one out of four in 1952 and 1953.

Bed Complement(‡)
DEPARTMENT OF HOSPITALS, CITY OF NEW YORK
1952-1959

Year	Bed Complement	
	All Hospitals	Tuberculosis Beds Number | Percent
1952	20,795	5,008 24.1%
1953	20,346	4,911 24.1%
1954	19,969	4,494 22.5%
1955	19,685	3,801 19.3%
1956	19,876	3,778 19.0%
1957	19,899	3,694 18.6%
1958	20,179	3,685 18.3%
1959	19,274	2,648 13.7%

Based on reports, Department of Hospitals, City of New York.

(†)Hospital Care Data for the Year 1959, Department of Hospitals, Medical Statistics and Records Service, City of New York (1960).

(‡)BED COMPLEMENT: The bed complement of a hospital is the number of hospital beds (exclusive of newborn infant bassinets) normally available for use by in-patients. Bed complement should not be confused with "Maximum Bed Capacity" which is theoretically the largest number of hospital beds, exclusive of newborn infant bassinets, which could be established in the hospital at any given time based upon space intended for such use, whether or not beds are installed. Handbook on Accounting, Statistics and Business Office Procedures for Hospitals, American Hospital Association (1950).

PRIVATE TUBERCULOSIS HOSPITALS IN CITY AND OTHER INSTITUTIONS OUT OF TOWN
in New York City and Suburban Area, Year 1959
Part A - ADMISSIONS, TOTAL TREATED, PATIENT DAYS CARE

Institution	Patients on First Day of Year	Admissions During Year			Total Treated During Year	Patient Days Care Rendered	Average No. Days Care During Year per Patient
		New	Re-Adm.	Total			
PRIVATE INSTITUTIONS IN CITY:							
Hosp. Jt. Dis. (Tbc.Cases)	0	22	4	26	26	784	30
Manhattan General Hospital	181	1	0	1	182	40,975	225
Montefiore Hosp.(Tbc.Serv.)	63	201	85	286	349	21,484	62
New York Hosp.(Tbc.Div.)..	18	40	0	40	58	4,879	84
St. Anthony's Hospital ...	253	686	128	814	1067	115,793	109
St. Joseph's Hospital	285	715	88	803	1088	111,374	102
Total Private	800	1665	305	1970	2770	295,289	107
SUBURBAN AREA-Outside City							
Grasslands Hosp.(Tbc.Serv.)	135	250	118	368	503	45,052	90
Nassau County Sanatorium..	236	176	66	242	478	87,660	183
Suffolk Sanatorium	82	99	48	147	229	29,934	131
Summit Park Sanatorium ...	63	65	37	102	165	23,601	143
Total Suburban	516	590	269	859	1375	186,247	135
N.Y. State Hosp.,Ray Brook	170	172	10	182	352	61,120	174

Part B - PATIENTS DISCHARGED ALIVE OR WHO DIED DURING YEAR

Institution	Total Discharged Alive or Dead	Patients Discharged Alive			Deaths During Year			Proportion† Died in Institution (All Causes)
		TB	Non-TB	Total	TB	Non-TB	All Deaths	
PRIVATE INSTITUTIONS IN CITY:								
Hosp. Jt. Dis. (Tbc.Cases)	25	25	0	25	0	0	0	..
Manhattan General Hospital	121	106	0	106	9	6	15	12%
Montefiore Hosp.(Tbc.Serv.)	304	115	152	267	8	29	37	12%
New York Hosp. (Tbc.Div.)..	44	44	0	44	0	0	0	..
St. Anthony's Hospital ...	687	601	40	641	37	9	46	7%
St. Joseph's Hospital	771	700	0	700	71	0	71	9%
Total Private	1952	1591	192	1783	125	44	169	9%
SUBURBAN AREA-Outside City								
Grasslands Hosp.(Tbc.Serv.)	390	266	63	329	43	18	61	16%
Nassau County Sanatorium..	246	203	21	224	16	6	22	9%
Suffolk Sanatorium	140	103	16	119	12	9	21	15%
Summit Park Sanatorium ...	103	83	8	91	9	3	12	12%
Total Suburban	879	655	108	763	80	36	116	13%
N.Y. State Hosp.,Ray Brook	170	160	0	160	8	2	10	6%

†Proportion of all discharges, alive and dead.

Based on reports by courtesy of Department of Health, City of New York, and cooperating institutions.

TUBERCULOSIS HOSPITAL FACILITIES

New York City, 1957, 1958, 1959 and 1960*

HOSPITALS and SANATORIA	Tuberculosis Bed Complement				Patient Census				Ratio Bed Occupancy			
	1957	1958	1959	1960	1957	1958	1959	1960	1957	1958	1959	1960
NEW YORK: HOSPITALS and SANATORIA:												
Bellevue Hospital(a)	368	368	368	368	276	259	260	249	75%	70%	71%	68%
Elmhurst City Hospital	20 ^c	20	20	20	21	15	21	11	105%	75%	105%	55%
Harlem Hospital (b)	46	46	45	45	34	31	45	32	74%	67%	100%	71%
Kings County Hospital (a)	667	667	667	609	509	508	564	535	76%	76%	85%	88%
Metropolitan Hospital (b)	239	239	169	134	223	209	153	128	93%	87%	91%	96%
Nathan B. Van Etten Hosp. (b)	375	366	321	321	314	315	302	292	84%	86%	94%	91%
Sea View Hospital	1452	1452	531	531	991	852	479	455	68%	59%	90%	86%
Triboro Hospital	527	527	527	527	485	438	436	292	92%	83%	83%	91%
Department of Hospitals	3694	3685	2648	2555	2853	2627	2260	2216	77%	71%	85%	87%
N.Y. State Hospital, Ray Brook	151 [†]	170 [†]	168 [†]	164 [†]	151	170	168	164	..	..	..	..
Other State and County Hospitals	40 [†]	19 [†]	18 [†]	..	40	19	18	..	..	..	..	..
Hosp. Jt. Diseases (Tbc. Cases)	10	..	..	..	2	0	1	..	20%	..	..	..
Manhattan General Hospital	244	244	166X	..	234	181	61	..	96%	74%	37%	..
Montefiore Hospital	103	73	73	20	88	63	45	20	85%	86%	62%	100%
New York Hospital (Tbc. Service)	24	21	15	12	21	18	14	11	88%	86%	93%	92%
St. Anthony's Hospital	400	400	400	389	339	253	380	360	85%	63%	95%	93%
St. Joseph's Hospital	320	325	325	321	295	285	317	312	92%	88%	98%	97%
Private Institutions	1101	1063	979	742	979	800	818	703	89%	75%	84%	95%
New York City Patients	4986	4937	3813	3461	4023	3616	3264	3083 [†]	81%	73%	86%	89%

*For 1957-1959 as of December 31, 1960 as of June 30. (a)TB unit. (b)TB Service. (c)Elmhurst City Hospital opened March 31, 1957. (†)No stated bed complement. (X)Closed during 1960. (‡)Exclusive of patients in other state and county hospitals.

Data by courtesy of Department of Hospitals and Department of Health, City of New York, and Authorities of Private Institutions. Compiled by New York Tuberculosis and Health Association.

TUBERCULOSIS HOSPITAL FACILITIES

New York City Suburban Area, 1957, 1958 and 1959

HOSPITALS and SANATORIA	Tuberculosis Bed Complerent			Patient Census December 31			Ratio Bed Occupancy		
	1957	1958	1959	1957	1958	1959	1957	1958	1959
SUBURBAN AREA - Outside N.Y. City:									
Grasslands Hospital (Tbc. Service)	300	275	300	158	135	113	53%	49%	38%
Nassau County Sanatorium	357	326	326	236	236	232	66%	72%	71%
Suffolk Sanatorium	140	103	103	93	82	89	66%	80%	86%
Summit Park Sanatorium	88	88	77	67	63	62	76%	72%	81%
N.Y. Suburban Institutions	885	792	806	554	516	496	63%	65%	62%

Data by courtesy of Department of Hospitals and Department of Health, City of New York, and Authorities of Private Institutions. Compiled by New York Tuberculosis and Health Association.

BED COMPLEMENT, 1950-1959
Tuberculosis Hospitals and Sanatoria, New York City

HOSPITALS and SANATORIA	December 31									
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
Bellevue Hospital ^x	517	499	495	390	386	368	368	368	368	368
City Hospital	112	112	112	112	112	112	112	(o)	...	...
Elmhurst City Hospital .....	...	...	...	...	...	...	...	20	20	20
Harlem Hospital	48	48	48	48	48	48	48	46	46	45
Kings County Hospital	262	405	585	614	614	643	667	667	667	667
Kingston Avenue Hospital	204	204	204	183	183	108	(n)	...	...	...
Metropolitan Hospital	327	348	348	348	348	315 ⁱ	309	239	239	169
Morrisania Hospital	60	60	60	60	(a)	...	...	...	...	...
Municipal San., Otisville	420	420	420	420	(b)	...	...	...	...	...
Nathan B. Van Etten Hospital ...	...	...	...	...	135 ^c	260	295	375	366	321
Neponsit Beach Hospital	160	200	200	200	100	(d)	...	...	...	...
Sea View Hospital.....	1402	1402	1402	1402	1420	1420	1452	1452	1452	531
Seton Hospital	450	450	434	434	434	(e)	...	...	...	...
Triboro Hospital	557	557	545	545	527	527	527	527	527	527
Willard Parker Hospital	91	110	155	155	187	(j)	...	...	...	...
Department of Hospitals	4610	4815	5008	4911	4494	3801	3778	3694	3685	2648
N.Y.State Hospital, Ray Brook [†] ..	117	122	99	94	102	108	166	151	170	168
Other State & County Hospital [†] ..	83	120	77	90	79	51	59	40	19	18
Brooklyn Thoracic Hospital	125	125	125	127	128	(k)	...	...	...	...
House of Rest	76	76	76	76	(f)	...	...	...	...	...
Hosp. Jt.Diseases (Tbc.Cases) [†] ..	7	4	5	4	10	10	10	10	...	...
Hosp. Jt.Diseases(Country Home)..	60	60	60	(g)	...	...	...	...	...	...
Lenox Hill Hospital (Tbc.Serv.)..	21	21	21	21	(h)	...	...	...	...	...
Manhattan General Hospital [†]	340	340	338	337	361	256	244	244	244	166
Montefiore Hosp. (Westch. Div.)..	236	235	235	235	235	(l)	...	...	...	...
Montefiore Hosp. (Tbc.Service)..	112	112	118	89	84	103 ^x	103	103	73	73
New York Hospital(Tbc.Service)..	26	26	26	22	25	26	26	24	21	15
St. Anthony's Hospital	400	400	375	380	370	370	400	400	400	400
St. Joseph's Hospital	300	297	297	282	304	304	320	320	325	325
Stony Wold Sanatorium [†]	83	79	113	92	92	(m)	...	...	...	...
Private Institutions	1786	1775	1789	1665	1609	1069	1103	1101	1063	979
New York City Patients	6596	6832	6973	6760	6284	5029	5106	4986	4937	3813

†No stated bed complement for N.Y.C. patients. *Including Brooklyn Annex, which was closed October 1955, service closed 1960. ^xIncluding tuberculosis beds for children. (a)Morrisania Hospital closed Tbc.Service Sept.1,1954, (b)Municipal San., Otisville closed Oct.15,1954. (c)Nathan B. Van Etten Hosp. Tbc.Service opened Nov.1,1954, (d)Neponsit Beach Hosp. closed Jan.11,1955, (e)Seton Hosp. closed April 15,1955, (f)House of Rest closed Oct.30,1954, (g)Country Home, Hosp. Jt. Diseases closed July 31, 1953, (h)Lenox Hill Hosp. Tbc.Service closed March 12, 1954, (i)Metropolitan Hospital, new building (East Harlem), opened Sept.13,1955, (j)Willard Parker Hospital closed Tbc.Service Dec. 8, 1955, (k)Brooklyn Thoracic Hospital closed Sept. 16, 1955, (l)Montefiore Hospital, Westchester Division,closed Dec. 31,1955, (m)Stony Wold Sanatorium closed Nov. 30,1955, (n)Kingston Avenue Hospital closed June 15, 1956, (o)City Hospital closed March 20, 1957, replaced by Elmhurst City Hospital. (X)Including in 1955 additional beds in pulmonary wing used to accommodate patients transferred from Westchester Division.

Data by courtesy of Department of Hospitals, Department of Health, City of New York, Authorities of Private Institutions. Compiled by New York Tuberculosis and Health Association.

PATIENT CENSUS, TUBERCULOSIS HOSPITALS AND SANATORIA
New York City, 1950-1959

HOSPITALS and SANATORIA*	Census on Last Day of Year									
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
DEPARTMENT OF HOSPITALS:										
Bellevue Hospital	480	496	448	337	271	288	320	276	259	260
City Hospital (a)	104	130	122	102	97	110	71	..	..	..
Elmhurst City Hospital .....	..	..	..	..	..	..	..	21t	15	21
Harlem Hospital (b)	62	72	61	60	50	47	37	34	31	45
Kings County Hospital	304	362	518	549	524	562	597	509	508	564
Kingston Avenue Hospital	198	202	203	164	151	44 (s)	..	..	..	..
Metropolitan Hospital	348	353	357	363	299	282o	282	223	209	153
Morrisania Hospital (c)	46	33	37	29	..	..	..	..	..	..
Municipal San., Otisville (d)..	388	363	361	293	..	..	..	..	..	..
Nathan B. Van Etten Hosp. (e)..	..	..	..	..	124	252	267	314	315	302
Neponsit Beach Hospital (f) ...	154	194	180	184	42	..	..	..	..	..
Riverside Hospital (g) .....	..	..	..	..	..	..	..	..	..	..
Sea View Hospital	1524	1442	1559	1354	1262	1452	1237	991	852	479
Seton Hospital (h)	415	416	421	415	363	..	..	..	..	..
Triboro Hospital (i)	601	602	571	570	468	531	523	485	438	436
Willard Parker Hospital (j) ...	74	114	140	117	149	..	..	..	..	..
Total Census	4698	4779	4978	4537	3800	3568	3334	2853	2627	2260
(No. of Hospitals)	(13)	(13)	(13)	(13)	(12)	(9)	(8)	(8)	(8)	(8)
PRIVATE INSTITUTIONS:										
Brooklyn Thoracic Hospital	112	120	116	119	126	(p)	..	..	..	..
House of Rest (k)	63	62	48	14	..	..	..	..	..	..
Hosp.Jt.Diseases (Tbc.Cases) ..	7	4	5	4	1	1	2	2	0	1
Hosp.Jt.Diseases (Country Home)(l)	56	48	41	..	..	..	..	..	..	..
Lenox Hill Hosp.(Tbc.Serv.) (m)	21	20	19	18	..	..	..	..	..	..
Manhattan Gen'l Hosp.§ (n)	324	334	331	309	357	167	216	234	181	61
Montefiore Hosp.(Westch.Div.)..	228	234	233	234	232	(q)	..	..	..	..
Montefiore Hosp.(Tbc.Serv.) ...	119	119	117	97	83	103X	96	88	63	45
New York Hospital(Tbc.Serv.) ..	25	20	25	25	26	24	24	21	18	14
St. Anthony's Hospital	353	362	348	330	350	345	370	339	253	380
St. Joseph's Hospital	291	274	279	285	275	242	315	295	285	317
Stony Wold Sanatorium	83	79	113	92	92	(r)	..	..	..	..
Total Census	1682	1676	1675	1527	1542	882	1023	979	800	818
(No. of Institutions)	(12)	(12)	(12)	(11)	(9)	(6)	(6)	(6)	(6)	(6)

*Selected Institutions. §Includes Brooklyn Annex. (a)City Hospital Tbc.Service reported first time beginning Jan.1939, closed March 20,1957. (b)Harlem Hospital Tbc.Service reported first time beginning Jan. 1937. (c)Morrisania Hospital, data shown beginning 1950, Tbc.Service closed Sept.1,1954. (d)Municipal San.,Otisville, closed Oct. 15, 1954. (e)Nathan B. Van Etten Hospital Tbc.Service opened Nov.1, 1954. (f)Neponsit Beach Hospital closed Jan.8,1955. (g)Riverside Hospital closed April 11,1944. (h)Seton Hospital admitted to Dept.of Hospitals May 1,1948. (i)Triboro Hospital, 1941. (j)Willard Parker Hospital closed Jan.26,1943, Tbc. Service opened Jan.1,1949. (k)House of Rest closed Oct.30,1954. (l)Country Home (Hosp.Jt.Diseases) closed July 31,1953. (m)Lenox Hill Hospital, Tbc.Dept.1933, closed March 12, 1954. (n)Manhattan General Tbc.Dept. Feb. 21,1949, Brooklyn Annex closed Oct. 1955, service closed 1960. (o)Metropolitan Hospital, new building, (East Harlem), opened Sept. 13, 1955. (p)Brooklyn Thoracic Hospital closed Sept. 16,1955. (q)Montefiore Hospital Westchester Division closed Dec.31, 1955. (r)Stony Wold Sanatorium closed Nov. 30, 1955. (s)Kingston Avenue Hospital closed June 15,1956. (t)Elmhurst City Hospital opened March 21, 1957. (X)Included are patients in pulmonary wing transferred from Westchester Division. Compiled from reports of Department of Hospitals, City of New York, and Tuberculosis Sanatorium Conference of Metropolitan New York by New York Tuberculosis and Health Association.

X-RAY EXAMINATIONS FOR TUBERCULOSIS

It is estimated that last year over 800,000 New Yorkers received chest x-ray screening examinations for the detection of tuberculosis. The majority of the people so examined were adults. This estimate includes community-wide surveys as well as x-rays taken of patients admitted to general hospitals.

The Bureau of Tuberculosis (Department of Health), in its case-finding surveys and clinic work, and the three local tuberculosis associations reported taking 511,899 x-rays in 1959 as compared to 487,325 in 1958.

X-RAY EXAMINATIONS FOR TUBERCULOSIS*
New York City, 1950-1959

Year	Department of Health	Brooklyn TB and Health Assn.	Queensboro TB and Health Assn.	New York TB and Health Assn.	Total X-ray Examinations for TB
1950	437,931	44,268	56,654	22,754	561,607
1951	523,683	49,133	27,904	24,970	625,690
1952	421,702	48,765	29,618	27,590	527,675
1953	456,529	46,441	27,905	33,949	564,824
1954	511,415	30,261	26,290	25,755	593,721
1955	619,247	28,231	35,199	34,663	717,340
1956	770,954	23,688	33,776	30,846	859,264
1957	691,467	21,341	32,881	23,759	769,448
1958	432,392	14,198	21,236	19,499	487,325
1959	457,774	19,690	20,866	20,569	511,899

*By the Department of Health and Tuberculosis Associations. Based on reports from organizations listed above. In addition, x-ray examinations were made by the Department of Hospitals Clinics and Private Clinics for which agencies data were not available. Also in 1959, public and private hospitals took 299,389 x-rays in the hospital admission survey program.

Includes:
H.D. Survey Unit (70mm)
H.D. Powers Unit (70mm)
Patient's X-ray at clinics (includes Clinic Survey)

EAST HARLEM MASS X-RAY SURVEY The East Harlem Mass X-ray Survey, by the Department of Health, conducted during April-June, 1959, resulted in the x-raying of 51,935 persons. Of these, it is estimated that 32,333, or 62%, were residents of the East Harlem Health Center District. The remaining 38% lived outside the district.

There were 1,655 persons, or 3.2% of all those x-rayed, called in for further examination. Of these, 1,148 or 69% responded.

Fifty-five persons were diagnosed as having active pulmonary tuberculosis.(†) Of these, 50 were not previously registered, yielding a new case-finding rate of 1.0 case per thousand persons x-rayed. Forty-eight of these 50 persons were diagnosed after re-examination, while two had only survey x-rays.

Among the whites and the Puerto Ricans, case-finding rates were considerably higher for the males than for the females. In Negroes, this pattern did not prevail, but the numbers involved were too small to be meaningful. Notably high rates were found in the Puerto Rican males, who yielded 22 cases, or a rate of 1.9 cases per thousand persons x-rayed.

EAST HARLEM MASS X-RAY SURVEY, 1959
Active Pulmonary Tuberculosis, Not Previously Registered

Ethnic Group	Number X-rayed *	Active Pulmonary Tuberculosis Not Previously Registered	
		Number	Rate per 1000 X-rays
White	14,282	8	0.6
Male	8,761	8	0.9
Female	5,521	0	..
Puerto Rican	24,598	27	1.2
Male	12,943	22	1.9
Female	11,655	5	0.4
Negro	3,872	4	1.0
Male	1,941	1	0.5
Female	1,931	3	1.6
Not stated	9,183	11	1.2
Male	5,121	7	1.4
Female	4,062	4	1.0
All Races	51,935	50	1.0

*Tabulation based on 10 percent sample. Based on report, Bureau of Tuberculosis, Department of Health, City of New York, 1960.

(†)In addition, other tuberculosis findings were: 3 other active, 19 activity undetermined, 224 arrested or inactive, 241 apparently cured.

DEPARTMENT OF HEALTH Of the 450,774 examinations reported upon by the Department of Health, 279,874 x-rays were taken in connection with surveys and 170,900 at the clinics.

X-Ray Examinations
BUREAU OF TUBERCULOSIS, DEPARTMENT OF HEALTH
City of New York

X-Rays for Patients	1954	1955	1956	1957	1958	1959 <i>147,628</i>
Attending clinics..	147,669	162,848	172,319	160,111	150,323	170,900
Survey cases	363,746	456,399	598,635	531,356	282,069	279,874
(a) In clinics ..	(50,230)	(61,025)	(62,611)	(40,037)	(38,744)	(41,149)
(b) In field	(313,516)	(395,374)	(536,024)	(491,319)	(243,325)	(238,725)
Total	511,415	619,247	770,954	691,467	432,392	450,774

Subtract 14X17 Clinic Survey X Rays from Total "Other than 70M M X Rays" Taken at clinics. Obtain from X Ray Unit (Mr. Segal).

UNITED STATES

X-RAYS TAKEN FOR TUBERCULOSIS CASE FINDING
1946 - 1959

Year	United States†		New York City	
	Number	Percent‡	Number†	Percent‡
1946	6,000,000	4.3%	324,578	4.2%
1947	8,700,000	6.1%	452,404	5.8%
1948	11,345,401	7.8%	460,659	5.9%
1949	13,836,600	9.3%	595,747	7.6%
1950	14,793,795	9.8%	561,607	7.1%
1951	12,539,409	8.2%	625,690	7.9%
1952	13,466,229	8.6%	527,675	6.7%
1953	15,545,875	9.8%	564,824	7.2%
1954	16,233,027	10.1%	593,721	7.6%
1955	17,410,509	10.6%	717,340	9.2%
1956	18,101,678	10.8%	966,011*	12.4%
1957	17,512,800	10.3%	1,015,951*	13.0%
1958	13,488,400	7.8%	800,140*	10.3%
1959			811,288*	10.4%

†Public Health Service, U.S. Department of Health, Education, and Welfare.
‡By Department of Health and Tuberculosis Associations and since 1956 by various hospitals, exclusive of x-rays taken by other health agencies for which details were not available.
§Proportion of total population examined, based on revised population estimates taking into account for New York City 1957 enumeration of population by U.S. Bureau of the Census.
*Inclusive of x-rays of general hospital admissions, 1956=106,747, 1957=246,503, 1958=312,815, 1959=299,389.

ROUTINE CHEST X-RAYS OF PATIENTS ADMITTED TO GENERAL HOSPITALS

Prior to 1955 no organized program to provide routine chest x-ray examinations of patients admitted to general hospitals was in operation in New York City, although in Upstate New York such a plan had been started by the State Health Department. In 1955, New York State made funds available to provide photofluorographic units on a loan basis and for a modest payment to general and chronic disease hospitals for admission x-rays taken by them under the terms of the plan. The New York City Department of Health was made directly responsible for the supervision of this program. It serves as the liaison agency between the hospitals and the New York State Department of Health. By the end of 1956, 26 hospitals in the city were cooperating and, in 1959, 41 institutions. During 1956, 106,747 x-rays were taken and among them there were 851 cases of active pulmonary tuberculosis, a rate of 8 per 1,000 persons examined. In 1959, according to the New York City Department of Health, the total was 299,389 with 1,589 active cases, a rate of 5.3 per 1,000 examined. It is understood that some of these cases were previously registered.

ADMISSION CHEST X-RAYS, NEW YORK CITY

Year	Number Institutions	X-Rays Taken	Active Cases(Pulm.TB)**	
			Number	Rate†
1955*.....	5	17,264	131 =	7.6
1956	26	106,747	851 =	8.0
1957*.....	39	246,503	1,643 =	6.7
1958	41	312,815	1,727 =	5.5
1959	41	299,389	1,589 =	5.3

*N.Y. State plan started July 1, 1955. **X-ray diagnosis. †Active pulmonary tuberculosis cases per 1,000 examined. ‡Based on report by Division of Tuberculosis Control, N.Y. State Department of Health.

COST OF TUBERCULOSIS

Millions of dollars are spent annually in New York City upon the care and treatment of the tuberculous. It is difficult to estimate how much money is expended upon the care, treatment and rehabilitation of those who have come down with the disease. There are a few figures to indicate that the sum is substantial and it continues to be a heavy burden upon the taxpayer in New York City. In 1951 the City spent \$30,900,000 for the care and treatment of tuberculosis patients, but by 1959 that figure had shrunk to \$15,400,000.† This is only part of the picture since additional monies are provided by private health and welfare agencies in their campaigns against tuberculosis.

Nationwide, the United States Public Health Service estimated that during 1956 the cost of tuberculosis in the United States and its territories was more than \$725 million.(‡)

The following figures present the appropriations by official agencies in New York City, as recorded in the budget for the fiscal year 1960-1961.(§) These figures do not include expenditures by the Department of Welfare for assistance to the tuberculous.

(†)Dr. Leona Baumgartner, Commissioner of Health, City of New York, April 26, 1960, meeting of the New York Tuberculosis and Health Association and the State Charities Aid Association, Committee on Tuberculosis and Public Health.
(‡)Amer. Rev. of Tuberc. and Pulm. Dis., Vol. 77, No. 1, Jan. 1958.
(§)BUDGET FOR THE FISCAL YEAR 1960-1961 (City of New York) as adopted by the Board of Estimate April 28, 1960, and submitted to the Council (The City Record, Vol. LXXXVIII, No. 26830, May 10, 1960).

CITY OF NEW YORK:-DEPARTMENT OF HEALTH

Tuberculosis Control Activities

Service	Appropriations authorized 1960-61
Personal Service	\$1,905,022
Other than Personal Service	<u>400,492</u>
Total Tuberculosis Control Activities	<u>\$2,305,514</u>

Note: Appropriations authorized for 1959-1960 were \$2,283,790.

The Department of Health (Tuberculosis Control Activities) conducts programs for the control and prevention of tuberculosis; maintains a register for all known cases of tuberculosis in the City; operates 26 chest clinics throughout the City, providing diagnostic service, and antibacterial treatment in cooperation with hospitals, for ambulatory patients, consultation service for physicians and their private patients; augments case-finding operations through clinic x-ray services and mass chest x-ray activities covering diverse groups, including community groups, workers in industrial organizations, government employees, and schools.

Maximum personnel 1960-1961 -- 335 positions; 28,310 Physician sessions; 880 Public Health Nurse sessions; and 1,800 Clerk days.

CITY OF NEW YORK:-DEPARTMENT OF HOSPITALS

TUBERCULOSIS CARE HOSPITALS*

Service	Appropriations	
	As Modified 1959-60	Proposed 1960-61
In-Patient Service	\$15,649,904	\$13,915,162
Out-Patient Service	353,575	397,669
Total appropriations..	<u>\$16,003,479</u>	<u>\$14,312,831</u>

*Bellevue Tuberculosis Unit, Nathan B. Van Etten, Kings County Tuberculosis and Chronic Disease, Triboro, Sea View.

CITY OF NEW YORK:-PAYMENTS TO CHARITABLE INSTITUTIONS
 Services to Medically Indigent, Sick and Infirm
 Care, Maintenance and Treatment of Medically Indigent
 Sick and Infirm in Hospitals and Sanatoria

Item	Days	Rate Per Diem	Authorized 1960-1961
Tuberculosis	263,440	\$10.00	\$2,634,400
TB (plus med. or surg. for non-related conditions)	4,570	20.00	91,400
Surgical treatment of TB patients ...	400	20.00	8,000
The Tuberculosis Preventorium for Children (Farmingdale, N.J.) ..	55,000	5.50	302,500

Note: The City of New York provides payments on a per diem basis to voluntary hospitals and tuberculosis sanatoria for care, maintenance and treatment of medically sick and infirm in general and special hospitals including convalescent and chronic patients.

* * *

SUMMARY, APPROPRIATIONS, NEW YORK CITY, 1960-1961

Department of Health	\$2,305,514
Department of Hospitals	14,312,831
Charitable Institutions	3,036,300
Total	\$19,654,645

Note: For direct services and does not include welfare costs.

TUBERCULOSIS MORTALITY

The total number of tuberculosis deaths recorded within the confines of New York City during 1959 was 779, a rate of 10.0 per 100,000 population, as compared to 833 deaths, a rate of 10.7, in 1958.

The rate of decline of the tuberculosis death rate has fluctuated from year to year. Before the use of specific antibacterial drug therapy, for the period 1940-1948, the yearly decline ranged from one to six percent. With the introduction into more general use of streptomycin in 1947 and para-aminosalicylic acid after 1949, the annual percentage change for the period 1949-1951 ranged from 9 to 18 percent. Following the use of isoniazid, for the period 1952-1954, the decline in the death rate ranged from 12 to 26 percent. In 1956 the drop was over 10 percent, in 1957 there was a two percent rise, in 1958 a decline of 15 percent, and in 1959 a decline of 7 percent.

TUBERCULOSIS MORTALITY*, NEW YORK CITY, 1940, 1945, 1950-1959

Year	Male		Female		Persons					
	Deaths *	Rate †	Deaths *	Rate †	Respiratory		Other Forms		All Forms	
					Deaths *	Rate †	Deaths *	Rate †	Deaths *	Rate †
1940	2,394	65	1,233	33	3,323	45	304	4	3,627	49
1945	2,448	65	1,065	27	3,211	42	302	4	3,513	46
1950	1,718	45	603	15	2,154	27	167	2	2,321	29
1951	1,508	39	631	15	1,978	25	161	2	2,139	27
1952	1,209	31	389	9	1,460	18	138	2	1,598	20
1953	965	25	329	8	1,183	15	111	1	1,294	16
1954	826	21	301	7	1,048	13	79	1	1,127	14
1955	840	22	244	6	1,023	13.1	61	0.8	1,084	14
1956	719	19	255	6	916	11.7	58	0.7	974	12
1957	767	20	215	5	931	11.9	51	0.7	982	13
1958	632	17	201	5	772	9.9	61	0.8	833	11
1959	573	15	206	5	736	9.4	43	0.6	779	10

*Included are deaths occurring within New York City (residents, non-residents and persons of unknown address). †Per 100,000 population.

RECORDED TUBERCULOSIS DEATHS*, NEW YORK CITY, SINCE 1950

Year:-	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
White										
Male	1,262	1,087	855	676	607	629	535	554	454	388
Female	342	382	224	200	188	124	136	123	118	105
Both sexes	1,604	1,469	1,079	876	795	753	671	677	572	493
Nonwhite										
Male	456	421	354	289	219	211	184	213	178	185
Female	261	249	165	129	113	120	119	92	83	101
Both sexes	717	670	519	418	332	331	303	305	261	286
All races										
Male	1,718	1,508	1,209	965	826	840	719	767	632	573
Female	603	631	389	329	301	244	255	215	201	206
Both sexes	2,321	2,139	1,598	1,294	1,127	1,084	974	982	833	779

*Included are deaths occurring within New York City (residents, non-residents and persons of unknown address).

TUBERCULOSIS DEATHS† BY AGE AND SEX, NEW YORK CITY, 1940, 1945, 1950-1959

Age:	0-4	5-10	10-15	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65	65-70	70-75	75-80	80-85	85+	All Ages
MALES, ALL RACES																			
1940	31	9	14	73	106	155	218	214	260	285	301	271	194	131	80	34	15	3	2394
1945	36	5	9	42	93	128	168	196	300	318	323	281	227	159	88	54	17	4	2448
1950	29	8	0	16	49	44	87	111	175	189	255	225	197	155	101	49	19	9	1718
1951	20	4	3	10	43	47	87	107	156	131	207	198	185	135	97	50	23	5	1508
1952	32	2	0	8	21	35	58	68	97	150	195	120	143	125	79	45	22	9	1209
1953	17	3	3	3	12	22	42	58	72	121	116	107	122	128	66	45	19	9	965
1954	11	3	3	0	9	15	33	50	53	85	136	117	98	83	64	47	14	5	826
1955	19	2	0	4	6	23	20	46	55	79	117	106	131	95	74	42	13	8	840
1956	5	1	0	2	5	14	20	47	47	75	84	100	112	76	59	34	25	13	719
1957	9	0	1	1	6	14	21	33	56	82	91	117	96	89	70	40	28	13	767
1958	7	1	1	2	6	11	20	29	41	67	73	104	87	78	53	29	15	8	632
1959	5	2	0	1	4	4	26	29	31	50	77	93	77	72	47	29	18	8	573
FEMALES, ALL RACES																			
1940	27	8	21	92	189	180	153	129	101	68	78	44	47	40	27	19	8	2	1233
1945	27	7	8	61	149	162	146	114	103	60	55	46	35	34	17	22	14	5	1065
1950	32	2	7	20	59	66	60	70	59	57	36	29	34	19	23	20	7	3	603
1951	30	3	3	25	35	92	67	62	76	52	41	39	29	23	28	10	12	4	631
1952	20	3	3	11	42	40	41	46	30	22	25	21	19	24	18	14	6	4	389
1953	21	2	1	6	18	26	39	34	30	31	20	25	23	15	15	14	4	5	329
1954	13	1	3	6	18	35	26	36	34	28	31	13	12	21	14	3	3	4	301
1955	6	3	1	3	13	24	26	39	24	29	18	15	12	12	5	8	4	2	244
1956	6	2	0	2	10	23	29	26	30	35	18	19	15	12	7	10	6	5	255
1957	5	1	0	3	9	22	21	23	38	25	24	9	11	9	8	3	1	3	215
1958	5	1	2	2	7	13	24	22	26	21	15	11	12	15	13	5	2	5	201
1959	7	0	0	0	7	12	18	28	14	26	22	14	14	15	10	9	4	6	206
BOTH SEXES, ALL RACES																			
1940	58	17	35	165	295	335	371	343	361	353	379	315	241	171	107	53	23	5	3627
1945	63	12	17	103	242	290	314	310	403	378	378	327	262	193	105	76	31	9	3513
1950	61	10	7	36	108	110	147	181	234	246	291	254	231	174	124	69	26	12	2321
1951	50	7	6	35	78	139	154	169	232	183	248	237	214	158	125	60	35	9	2139
1952	52	5	3	19	63	75	99	114	127	172	220	141	162	149	97	59	28	13	1598
1953	38	5	4	9	30	48	81	92	102	152	136	132	145	143	81	59	23	14	1294
1954	24	4	6	6	27	50	59	86	87	113	167	130	110	104	78	50	17	9	1127
1955	25	5	1	7	19	47	46	85	79	108	135	121	143	107	79	50	17	10	1084
1956	11	3	0	4	15	37	49	73	77	110	102	119	127	88	66	44	31	18	974
1957	14	1	1	4	15	36	42	56	94	107	115	126	107	98	78	43	29	16	982
1958	12	2	3	4	13	24	44	51	67	88	88	115	99	93	66	34	17	13	833
1959	12	2	0	1	11	16	44	57	45	76	99	107	91	87	57	38	22	14	779

†Total tuberculosis deaths recorded in New York City (residents who died within city, non-residents, residence unknown), exclusive of city residents who died out of town.

Based on reports by courtesy of Bureau of Records and Statistics, Department of Health, City of New York. Compiled by New York Tuberculosis and Health Association.

RESIDENT TUBERCULOSIS MORTALITY, NEW YORK CITY, 1958 AND 1959

Health Center DISTRICT	Population April 1, 1957	Resident Deaths in City*			Death Rate†	
		1958	1959	Change 1959/58	1958	1959
Central Harlem	239,195	95	94	- 1	40	39
East Harlem	183,915	32	28	- 4	17	15
Kips Bay-Yorkville	227,102	24	21	- 3	11	9
Lower East Side	295,110	53	44	- 9	18	15
Lower West Side	302,949	59	70	+ 11	19	23
Riverside	264,817	49	45	- 4	19	17
Washington Heights	280,981	33	18	- 15	12	6
MANHATTAN:	1,794,069	345	320	- 25	19	18
Fordham-Riverdale	233,305	12	7	- 5	5	3
Morrisania	272,867	36	21	- 15	13	8
Mott Haven	218,382	28	26	- 2	13	12
Pelham Bay	173,620	7	10	+ 3	4	6
Tremont	271,774	24	17	- 7	9	6
Westchester	254,419	7	12	+ 5	3	5
BRONX:	1,424,367	114	93	- 21	8	7
Bay Ridge	298,230	10	8	- 2	3	3
Bedford	285,863	26	37	+ 11	9	13
Brownsville	274,229	17	22	+ 5	6	8
Bushwick	213,919	19	12	- 7	9	6
Flatbush	472,124	13	34	+ 21	3	7
Fort Greene	220,118	32	34	+ 2	15	15
Gravesend	283,205	13	11	- 2	5	4
Red Hook-Gowanus	166,173	23	32	+ 9	14	19
Sunset Park	195,951	24	19	- 5	12	10
Williamsburg-Greenpoint ...	192,621	29	17	- 12	15	9
BROOKLYN:	2,602,433	206	226	+ 20	8	9
Astoria-Long Island City ..	259,805	20	9	- 11	8	3
Corona	207,097	15	8	- 7	7	4
Flushing	434,457	17	13	- 4	4	3
Jamaica East	283,996	26	22	- 4	9	8
Jamaica West	295,921	20	21	+ 1	7	7
Maspeth-Forest Hills	281,306	12	14	+ 2	4	5
QUEENS:	1,762,582	110	87	- 23	6	5
RICHMOND:	212,020	13	9	- 4	6	4
NEW YORK CITY:	7,795,471	788	735	- 53	10	9

Deaths recorded in city, including non-residents and persons with unknown address: 1958=833, 1959=779. *Tuberculosis deaths of residents who died within New York City, exclusive of residents who died out of town. †Deaths per 100,000 population. Rates based on revised population estimates taking into account the 1957 enumeration by U.S. Bureau of the Census.

Compiled from reports by courtesy, Bureau of Records and Statistics, Department of Health, City of New York, by New York Tuberculosis and Health Association.

RESIDENT TUBERCULOSIS DEATHS* BY RACE
New York City, 1945-1959

Year	White	Negro	Puerto Rican	Yellow	Others	Un-known	All Races
1945	2,741	966	115	79	2	41	3,944
1946	2,430	794	77	64	7	70	3,442
1947	2,124	835	66	46	5	112	3,188
1948	2,226	923	84	61	3	135	3,432
1949	1,806	804	68	46	2	123	2,849
1950	1,521	628	55	35	5	89	2,333
1951	1,407	589	76	35	4	60	2,171
1952	1,200	524	58	36	4	51	1,873
1953	802	364	29	24	3	26	1,248
1954	733	293	42	19	3	23	1,113
1955	714	287	38	17	1	11	1,068
1956	682	281	30	13	0	14	1,020
1957	622	262	38	20	1	9	952
1958	529	243	27	9	2	8	818
1959	490	235	24	16	4	17	786

*As defined by Department of Health, City of New York. Cases removed from the roster with tuberculosis as the cause of death, including deaths of residents who died outside of New York City.

RESIDENT TUBERCULOSIS DEATHS* NEW YORK CITY
(including residents who died outside of city)
Sex and Race, 1953-1959

Race	Male							Female						
	1953	1954	1955	1956	1957	1958	1959	1953	1954	1955	1956	1957	1958	1959
White	640	568	607	557	524	424	390	162	165	107	125	98	105	100
Negro	234	188	176	174	174	165	149	130	105	111	107	88	78	86
Puerto Rican	10	21	21	14	17	13	19	19	21	17	16	21	14	5
Yellow	24	17	16	12	20	9	16	0	2	1	1	0	0	0
Other	3	3	1	0	1	2	3	0	0	0	0	0	0	1
Unknown ...	20	17	9	9	6	5	14	6	6	2	5	3	3	3
All races..	931	814	830	766	742	618	591	317	299	238	254	210	200	195

Total resident TB deaths: 1953 = 1,248, 1954 = 1,113, 1955 = 1,068, 1956 = 1,020, 1957 = 952, 1958 = 818, 1959 = 786.

*Cases removed from the roster with tuberculosis as the cause of death.

UNITED STATES

The U.S. Public Health Service states that "At the beginning of 1956, there were an estimated 250,000 active cases of tuberculosis in the continental United States. Of this number, 150,000 or 60 percent, were known to State and local health departments. The rest of the estimated number comprised unknown cases, that is, currently unreported cases and a small number previously reported but since lost to supervision The estimates show that there also were 550,000 inactive cases. Of these, 250,000 were known to the health departments. The total number of active and inactive cases was estimated at 800,000 In addition, there were an estimated 1,200,000 persons who once had tuberculosis but who do not now require supervision according to State and local health department standards. Although these persons do not now require public health supervision, they constitute a reservoir of potential cases susceptible to reactivation."(†)

Estimate of Tuberculosis Prevalence in the United States
TUBERCULOSIS CASES AND PERSONS WHO ONCE HAD TUBERCULOSIS
1952 and 1956

Category	1952	1956
TOTAL CASES	950,000	800,000
Known	450,000	400,000
Unknown	500,000	400,000
Active cases	350,000	250,000
Known	200,000	150,000
Unknown	150,000	100,000
Inactive cases	600,000	550,000
Known	250,000	250,000
Unknown	350,000	300,000
Persons who once had tuberculosis.	1,050,000	1,200,000
Total cases plus persons who once had tuberculosis	2,000,000	2,000,000

Note: All estimates rounded to the nearest 50,000.

According to the National Tuberculosis Association of the 178 million Americans on January 1, 1960, 36 million were infected with tuberculosis. "Most new cases will come from people now infected. The 20 percent of our nation's population estimated to have been infected with TB germs sometime in the past will contribute three out of four of the new cases in the next few years. The rest will come from people not now infected."
Bulletin, National Tuberculosis Association, February 1960.

(†)Estimates of Tuberculosis Prevalence in the United States, 1956, Public Health Reports, U.S. Dept. of Health, Education, and Welfare, Vol. 72, No. 11, Nov. 1957.

The death rate for tuberculosis in the United States has continued its steady downward trend. For the years 1949-1954 the average annual rate of decline was 17.3 percent compared with the smaller rate of decline, 8.5 percent, for 1954-1957. The estimated tuberculosis death rate for 1959 was 6.7 per 100,000 population, as compared with 7.1 for 1958.

Provisional reports from State Health Departments indicate that there were approximately 75,108 new cases of tuberculosis reported in the continental United States during the calendar year 1959 compared to 82,266 in 1958. The majority of these cases in 1959, 56,709, were classified as active and probably active.

UNITED STATES
TUBERCULOSIS: Newly Reported Cases and Deaths
Since 1947

Year	Total New Cases Reported		Active and Probably Active New Cases		Deaths	
	Number	Rate†	Number	Rate†	Number	Rate†
1947	134,946	94.1	..	..	48,064	33.5
1948	137,006	93.8	..	..	43,833	30.0
1949	134,865	90.7	..	..	39,108	26.3
1950	121,742	80.4	..	..	33,959	22.4
1951	118,491	77.3	..	..	30,863	20.1
1952	109,837	70.5	85,607	55.0	24,621	15.8
1953	106,925	67.5	83,250	52.6	19,544	12.3
1954	100,540	62.4	78,592	48.8	16,392	10.2
1955	98,860	60.2	76,245	46.4	14,940	9.1
1956	90,465	54.1	68,866	41.2	14,061	8.4
1957	86,861	51.0	66,437	39.0	13,324	7.8
1958	82,266	47.2	63,000	36.4	12,361	7.1
1959*	75,108	42.6	56,709	32.2	11,730‡	6.7

†Per 100,000 population residing in United States, excluding Armed Forces overseas. *Provisional. ‡Estimated. Note: Above data are for continental United States.

Based on reports of Public Health Service (Dept. of Health, Education, and Welfare).

LARGE
AMERICAN
CITIES

During 1959 twenty-seven American cities with thirty-three million people reported 23,333 new cases and 3,115 tuberculosis deaths.

In some instances changes in the number of tuberculosis cases reported are due to an increase in the extent or intensity of case-finding activities and therefore the rates do not always reflect accurately changes in the incidence of tuberculosis. However, the data from this survey of the larger American cities would indicate clearly that there are still substantial numbers of tuberculosis cases to be found, isolated and provided with adequate medical care and treatment.

The City of New York, with the greatest number of cases and deaths, accounted for 21 percent of the new cases (4,924) and 25 percent of the tuberculosis deaths (779) in these twenty-seven cities. New York City, with a population of 7,795,471, comprises almost one-quarter of the population of these cities.

Eight of the cities recorded a slight rise in their tuberculosis death rate.

The combined population of the twenty-seven cities included in this survey comprises 19 percent of the United States total. In 1959 these cities contributed 31 percent of the newly reported cases and 27 percent of the tuberculosis deaths according to provisional reports.

The New York City population is slightly over four percent that of the United States but it had reported 8.7 percent of the new active cases last year.

(See tables on following pages)

TUBERCULOSIS IN LARGE AMERICAN CITIES

Part A - Tuberculosis New Cases, Selected American Cities, 1955-1959

City	Number of New Cases Reported					Change	59/58	Case Rate per 100,000 Population					Change	59/58
	1955	1956	1957	1958	1959			1955	1956	1957	1958	1959		
New York, N.Y.	6214	6137	6117	5482	4924	- 558 =	10%	79.4	78.6	78.5	70.3	63.2	- 7.1 =	10%
Chicago, Ill.	4216	3841	3623	3094	2790	- 304 =	10%	113.9	103.4	97.2	82.7	73.4	- 9.3 =	11%
Philadelphia, Pa.	2723	2263	2292	2420	2337	- 83 =	3%	125.8	104.1	104.7	110.1	106.3	- 3.8 =	3%
Los Angeles, Cal.	1714	1464	1479	1293	1190	- 103 =	8%	78.3	64.9	63.4	53.9	48.6	- 5.3 =	10%
Detroit, Mich.	2745	2586	2321	2290	1934	- 356 =	16%	144.3	135.4	121.4	114.5	96.7	- 17.8 =	16%
Baltimore, Md.	1187	1171	1083	899	833	- 66 =	7%	122.9	120.2	110.6	91.5	84.4	- 7.1 =	8%
Cleveland, Ohio	1194	1126	984	920	916	- 4 =	0.4%	129.1	121.6	106.3	99.4	99.0	- 0.4 =	0.4%
St. Louis, Mo.	604	540	516	455	452	- 3 =	0.7%	68.8	62.4	59.8	52.8	52.6	- 0.2 =	0.4%
Boston, Mass.	722	596	555	480	555	+ 75 =	16%	88.4	72.7	67.4	66.2	76.6	+ 10.4 =	16%
Washington, D.C.	589	569	471	636	476	- 160 =	29%	68.7	68.4	57.4	77.0	57.4	- 19.6 =	29%
San Francisco, Cal.	748	581	545	494	495	+ 1 =	0.2%	94.1	72.7	70.2	62.4	62.6	+ 0.2 =	0.3%
Pittsburgh, Pa.	431	395	338	335	370	+ 35 =	10%	63.4	58.1	49.9	49.6	59.5	+ 9.9 =	20%
Milwaukee, Wis.	552	419	448	402	361	- 41 =	10%	81.1	59.9	62.7	55.4	49.0	- 6.4 =	12%
Buffalo, N.Y.	599	501	438	440	382	- 58 =	13%	99.5	85.0	74.3	74.2	63.5	- 10.7 =	14%
Houston, Texas	373	763 ^x	944	1213	1607	+ 394 =	32%	53.1	105.4	106.7	133.3	173.7	+ 40.4 =	30%
New Orleans, La.	505	456	441	353	343	- 10 =	3%	80.2	71.3	67.9	58.6	52.4	- 6.2 =	11%
Minneapolis, Minn.	513	456	457	364	307	- 57 =	16%	95.6	84.4	84.2	66.7	55.9	- 10.8 =	16%
Cincinnati, Ohio	612	647	482	471	451	- 20 =	4%	121.4	128.4	95.6	85.4	78.4	- 7.0 =	8%
Dallas, Texas	374	351	314	302	264	- 38 =	13%	65.1	57.4	50.6	47.9	40.4	- 7.5 =	16%
Seattle, Wash.	479	467	359	285	271	- 14 =	5%	86.2	83.0	62.6	49.4	46.6	- 2.8 =	6%
Denver, Colo.	610	646	578	452	414	- 38 =	8%	123.4	129.2	111.4	85.1	77.4	- 7.7 =	9%
Kansas City, Mo.	298	293	278	264	248	- 16 =	6%	60.8	59.2	54.5	50.0	45.9	- 4.1 =	8%
San Antonio, Texas	484	490	530	553	509	- 44 =	8%	94.0	93.3	95.9	98.7	87.4	- 11.3 =	11%
Newark, N.J.	490	401	399	402	367	- 35 =	9%	110.6	90.5	90.3	89.9	82.1	- 7.8 =	9%
Memphis, Tenn.	388	302	280	256	242	- 14 =	5%	70.9	53.9	48.9	43.8	40.5	- 3.3 =	8%
Oakland, Cal.	294	228	215	172	181	+ 9 =	5%	73.5	56.4	53.2	42.6	45.7	+ 3.1 =	7%
San Diego, Cal.	166	167	133	115	114	+ 1 =	1%	35.6	34.1	26.5	21.9	20.6	- 1.3 =	6%

^xHouston, increase in 1956 due to intensive survey program. Population, 1959: New York City 7,795,471, Chicago 3,800,000, Philadelphia 2,198,000, Los Angeles 2,447,600, Detroit 2,000,000, Baltimore 987,000, Cleveland 925,000, St. Louis 859,750, Boston 724,702, Washington 829,000, San Francisco 790,700, Pittsburgh 621,500, Milwaukee 736,000, Buffalo 601,300, Houston 925,000, New Orleans 653,888, Minneapolis 548,864, Cincinnati 575,523, Dallas 654,000, Seattle 581,300, Denver 535,000, Kansas City 540,000, San Antonio 582,323, Newark 447,000, Memphis City 477,738 (Shelby County 119,487), Oakland 396,400, San Diego 554,000.

TUBERCULOSIS IN LARGE AMERICAN CITIES

Part B - Tuberculosis Deaths, Selected American Cities, 1955-1959

City	Number of Deaths					Change 59/58	Death Rate per 100,000 Population					Change 59/58
	1955	1956	1957	1958	1959		1955	1956	1957	1958	1959	
New York, N.Y.	1084	974	982	833	779	- 54 = 6%	13.9	12.4	12.6	10.7	10.0	- 0.7 = 7%
Chicago, Ill.	496	439	405	377	334	- 43 = 11%	13.4	11.8	10.9	10.1	8.8	- 1.3 = 13%
Philadelphia, Pa.	399	356	312	300	253	- 47 = 16%	18.4	16.4	14.2	13.6	11.5	- 2.1 = 15%
Los Angeles, Cal.	245	205	215	189	173	- 16 = 8%	11.2	9.1	9.2	7.9	7.1	- 0.8 = 10%
Detroit, Mich. #	184	191	203	198	180	- 18 = 9%	9.7	10.0	10.6	9.9	9.0	- 0.9 = 9%
Baltimore, Md. #	178	190	207	186	143†	- 43 = 23%	18.4	19.5	21.1	18.9	14.4	- 4.5 = 24%
Cleveland, Ohio	94	93	103	92	91	- 1 = 1%	10.2	10.0	11.1	9.9	9.8	- 0.1 = 1%
St. Louis, Mo.	113	134	104	94	92	- 2 = 2%	12.9	15.5	12.1	10.9	10.7	- 0.2 = 2%
Boston, Mass.	152	141	154	106	88	- 18 = 17%	18.6	17.2	18.7	14.6	12.1	- 2.5 = 17%
Washington, D.C. #	128	132	110	126	113	- 13 = 10%	14.9	15.9	13.4	15.3	13.6	- 1.7 = 11%
San Francisco, Cal.	100	82	69	52	72	+ 20 = 38%	12.6	10.3	8.9	6.6	9.1	+ 2.5 = 38%
Pittsburgh, Pa. #	84	73	100	109	84	- 25 = 23%	12.4	10.7	14.8	16.2	13.5	- 2.7 = 17%
Milwaukee, Wis. #	44	50	42	49	41	- 8 = 16%	6.4	7.2	5.9	6.7	5.6	- 1.1 = 16%
Buffalo, N. Y.	82	79	50	45	58	+ 13 = 29%	13.6	13.4	8.4	7.6	9.6	+ 2.0 = 26%
Houston, Texas	95	94	106	87	67	- 20 = 23%	13.5	13.0	12.0	9.6	7.2	- 2.4 = 25%
New Orleans, La.	113	92	111	90	96	+ 6 = 7%	18.0	14.4	17.1	14.9	14.7	- 0.2 = 1%
Minneapolis, Minn. #	33	32	26	24	34	+ 10 = 42%	6.2	5.9	4.8	4.4	6.2	+ 1.8 = 41%
Cincinnati, Ohio	60	69	48	58	60	+ 2 = 3%	11.9	13.7	9.5	10.5	10.4	- 0.1 = 10%
Dallas, Texas	40	33	35	42	41	- 1 = 2%	7.0	5.4	5.6	6.7	6.3	- 0.4 = 6%
Seattle, Wash.	42	40	23	33	20	- 13 = 39%	7.6	7.1	4.0	5.7	3.4	- 2.3 = 40%
Denver, Colo.	60	64	56	28	30	+ 2 = 7%	12.1	12.8	10.8	5.3	5.6	+ 0.3 = 6%
Kansas City, Mo.	51	56	63	57	46	- 11 = 19%	10.4	11.3	12.4	10.8	8.5	- 2.3 = 21%
San Antonio, Texas	91	105†	85†	72†	87†	+ 15 = 21%	17.7	20.0	15.4	12.8	14.9	+ 2.1 = 16%
Newark, N.J.	68	72	72	52	52	0 = ..	15.3	16.3	16.3	11.6	11.6	0 = ..
Memphis, Tenn. (a)	55	36	43	36	31	- 5 = 14%	12.3	7.9	9.3	7.7	6.4	- 1.3 = 17%
Oakland, Cal.	39	39	30	34	31	- 3 = 9%	9.8	9.7	7.4	8.4	7.8	- 0.6 = 7%
San Diego, Cal.	23	21	20	18	19	+ 1 = 6%	4.9	4.3	4.0	3.4	3.4	0 = ..

†Provisional. #Residents. (a)Memphis City.

Based on provisional reports by courtesy of Commissioners of Health and other Authorities.
Compiled by New York Tuberculosis and Health Association.

TUBERCULOSIS IN SELECTED COUNTRIES

Country	New Cases			Case Rate*			Deaths			Death Rate*		
	1957	1958	1959	1957	1958	1959	1957	1958	1959	1957	1958	1959
United States	86,861	82,266	75,108	51.0	47.2	42.6	13,324	12,361	11,730†	7.8	7.1	6.7
Puerto Rico	3,120	2,800	2,487	136.8	120.8	106.2	760	685	691	33.3	29.6	29.5
Canada	7,667	7,215	6,437†	46.3	42.4	36.9	1,160	1,009	948	7.0	5.9	5.4
Chile .....	..	..	..	..	..	..	4,110	3,776	4,073	57.7	51.7	54.6
Ecuador	4,699	5,463	4,692	120.3	138.0	115.7	1,420	1,454	1,306	36.3	36.7	32.2
England and Wales (a)	34,341	31,173	30,196	76.4	69.1	66.4	4,784	4,480	3,855	10.7	9.9	8.4
Scotland (b)	8,587	5,889	4,314	166.7	113.9	83.1	723	687	577	14.0	13.3	11.1
Northern Ireland	1,155	1,182	976	82.6	84.3	69.3	175	154	145†	12.5	11.0	10.3
Elre	4,164	3,899†	..	144.3	136.7	..	696	584	517	24.1	20.4	18.2
Norway (c)	1,436	1,396	..	41.1	39.6	..	315	278	..	9.0	7.9	..
Sweden	5,071	4,651	..	68.8	62.7	..	580	511	..	7.9	6.9	..
Denmark (d)	1,105	1,053	..	24.6	23.3	..	199	207	180	4.4	4.6	4.0
Finland	7,089	7,236	6,978	163.4	165.4	158.1	1,649	1,430	1,263	38.0	32.7	28.6
France (e)	43,894	43,233	..	100.2	97.6	..	12,085	10,829	10,302†	27.6	24.4	23.0
Belgium	5,922	7,150	4,440	65.6	78.8	48.6	1,882	1,706	..	20.8	18.8	..
Netherlands (f)	7,490	7,198	7,370†	67.9	64.3	64.9	515	482	413†	4.7	4.3	3.6
Switzerland (g)	5,811	5,503	..	113.6	106.1	..	908	793	809†	17.7	15.3	15.4
German Fed. Rep. (West)	82,016	79,176	..	158.2	151.7	..	9,465	8,936	..	18.3	17.1	..
West Berlin (h)	5,702	5,568	5,110	256.3	250.1	230.8	611	513	550	27.4	23.0	24.8
Spain .....	..	..	..	..	..	..	9,524	..	..	32.4	..	..
Malta	153	135	..	48.0	41.9	..	37	27	..	11.6	8.4	..
Iraq (Resp. TB)	11,800	15,180	..	180.4	227.2	..	997	861	..	15.2	12.9	..
Australia	4,035	3,908	3,582†	41.9	37.7	35.6	585	538	549	6.1	5.4	5.4
New Zealand: Europeans	1,146	1,096	925	54.9	51.3	42.4	181	140	98	8.7	6.5	4.4
Maoris	635	602	481	443.2	405.7	312.2	70	62	39	48.9	41.8	25.3
Union of South Africa (1)	52,296	58,365	59,406	334.0	366.9	367.6	4,235	4,233	..	27.1	26.6	..
Japan	520,899	498,779	499,873	571.9	542.1	537.7	42,718	36,274	32,914†	46.9	39.4	35.4
State of Singapore	3,032	3,488	5,666	205.7	225.1	358.2	751	624	618	50.9	40.3	39.1
Hong Kong	13,665	13,485	14,302	529.0	490.7	500.6	2,675	2,302	2,178	103.6	83.8	76.2

*Rate per 100,000 population. †Provisional. (a) Including cases reported as deaths. (b) Increase of cases in 1957 due to introduction of intensive programme of community surveys in areas of high incidence. (c) Bacillary tuberculosis (cases). (d) Pulmonary TB (cases). (e) New cases, registered by TB dispensaries. (f) New cases and relapses of active TB. (g) New cases, registered by dispensaries of "Association Suisse contra la Tuberculose". (h) New cases, registered by TB dispensaries. (1) Including Europeans, Asiatics, coloured and Bantu. Based on reports from Authorities of respective countries. Compiled by New York Tuberculosis and Health Assn.

POPULATION, NEW YORK CITY

Since preparation of this report the U.S. Bureau of the Census has released population figures for the April 1, 1960 Federal Census. Only totals for the five New York City boroughs are given with no additional details available at this time. Population estimates for 1958 and 1959, based on the 1957 and 1960 censuses, will be reflected in the various rates when the changes are taken into account.

POPULATION, NEW YORK CITY

Borough	1950	1957	1960
Manhattan	1,960,101	1,794,069	1,698,281
Bronx	1,451,277	1,424,367	1,424,815
Brooklyn	2,738,175	2,602,433	2,627,319
Queens	1,550,849	1,762,582	1,809,578
Richmond	191,555	212,020	221,991
New York City	7,891,957	7,795,471	7,781,984

Based on Federal Census.

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