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County Borough of Croydon.



ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

AND

SCHOOL MEDICAL OFFICER

For the Year 1920.

R. VEITCH CLARK, M.A., M.B., Ch.B., B.Sc., D.P.H.

CROYDON :
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Contents.

	PAGE
VITAL STATISTICS, SUMMARY OF	7
<u>SECTION I.</u>	
NATURAL AND SOCIAL CONDITIONS OF THE DISTRICT :—	
Climate	8
Social Conditions	8
Hospital Accommodation	9
SANITARY CIRCUMSTANCES OF THE DISTRICT :—	
Water	12
Rivers and Streams	14
Drainage and Sewerage	14
Closet Accommodation	14
Scavenging	14
Sanitary Inspection of the District ..	15
HOUSING	15
INFECTIOUS DISEASE, PREVALENCE OF AND CONTROL OVER :—	
Scarlet Fever	17
Diphtheria	17
Measles	17
Enteric Fever	17
Smallpox	17
Influenza	17
Pneumonia	18
Malaria, Dysentery, and Encephalitis lethargica ...	18
Tuberculosis	18
Ophthalmia neonatorum	18
HEALTH VISITORS' WORK, RECORD OF	18
DISINFECTION, RECORD OF ..	19
SICK ROOM REQUISITES	20
<u>SECTION II.</u>	
Table I. Vital Statistics of whole district during 1920 and previous years	22
II. Cases of Infectious Disease notified during 1920 ...	23
III. Causes of, and Ages at, Death during 1920 ...	24
IIIa. Causes of Deaths from Influenza and certain other conditions during 1920	37
Chart showing principal causes of death during 1920	
IV. Infant Mortality during 1920	39
V. Cases notified and deaths from the principal zymotic diseases for the year 1920 and preceding years ..	48
VI. Vital Statistics of separate localities in 1920 and previous years	49
VII. Meteorological Observations for 1920	50
VIIA. Meteorological Observations for 1920	51

MATERNITY AND INFANT WELFARE :—

Infant Mortality	...	...	...	...	...	...	52
Diarrhoea	...	...	...	...	...	...	53
Infant Centres	...	...	...	...	...	...	53
Provision of Fresh Milk at the Centres				...	...	...	56
Maternity Hostel	...	...	...	...	...	...	56
Ante-Natal Clinic	...	...	...	...	...	...	57
Sick Nursery	...	...	...	...	...	...	57
Feeding of Infants	...	...	...	...	...	...	57
Notifications of Births Act, 1907			...	...	...	...	59
Midwives	...	...	...	...	...	...	59

TUBERCULOSIS WORK :—

General Summary of Cases dealt with through the Tuberculosis Dispensary and work done in connection with them	59
Sanatorium and Hospital Treatment	65

VENEREAL DISEASE :—

Returns as to persons treated during the year	66
---	-----	-----	----

MENTAL DEFICIENCY :—

Returns as to cases dealt with	69
--------------------------------	-----	-----	-----	-----	----

SANITARY INSPECTING STAFF, WORK OF THE :—

Inspections	...	...	...	...	...	...	70
Table giving details of general sanitary work	...	...	...	...	...	...	71
Combined drainage	...	...	...	...	...	...	72
House drains re-laid	...	...	...	...	...	...	72
Examination of drains	...	...	...	...	...	...	72
Notices and Council Orders	...	...	...	...	...	...	72
Municipal and other Common Lodging Houses	...	...	...	...	...	...	72
Houses let in lodgings	...	...	...	...	...	...	73

Factories	74
Workshops	74
Homework	74
Bakehouses	74
Workplaces	75
Smoke Nuisances	75

RAG FLOCK ACT	75
---------------	-----	-----	-----	-----	-----	-----	----

Summary of Inspections	76
Details as to animals slaughtered	76
Summary of meat and other foods destroyed as unfit	78
Tuberculosis in meat	79
Tuberculosis in milk	79
Dairies, Cowsheds, and Milkshops Order	79

FOOD AND DRUGS ACTS :—

Prosecutions	80
Milk and Cream Regulations	81
Details of samples taken, 1920	82
Details of samples taken, 1905-1920	83

SECTION VIII.

BOROUGH HOSPITAL, WORK OF THE :—

Detailed analysis of expenditure	84
Maximum and minimum number of beds occupied	84
Admissions, 1920	84
Admissions, details of comparative, 1909-1920	85
Admissions, analysis of, 1920	86
Admissions, fatality for each disease	87
Illness of Staff	88
Work of Laboratory :—	
Examinations made for Cerebro-spinal meningitis	89
" " Tuberculosis	90
" " Enteric (Typhoid Fever)	91

SECTION IX.

SCHOOL MEDICAL OFFICER'S REPORT :—

Staff	92
Co-ordination	93

SCHOOL MEDICAL SERVICE IN RELATION TO THE PUBLIC
ELEMENTARY SCHOOLS :—

Number of schools and accommodation	93
School Buildings and Accommodation	93
School Hygiene	93

MEDICAL INSPECTION :—

Routine inspection	95
Inspection of selected children	95
Defective children re-examined	95
Table—Total number of children examined (routine)	96

FINDINGS OF MEDICAL INSPECTION :—

Uncleanliness	98
Cleansing Station	98
Clothing	98
Average Heights and Weights	99
Malnutrition	99
Vision and external eye disease	99
Enlarged tonsils and adenoids	99
Lymphatic Glands	100
Ear Disease	100
Defective Teeth	100
Affections of the Heart	101
Affections of the Lung	101
Tuberculosis	101
Nervous Diseases	102
Deformities	102
Ringworm	102
Skin Affections	102
Mental Conditions	102

INFECTIOUS DISEASE :—

School Closure	103
----------------	-----

	PAGE.
FOLLOWING UP :—	
Work of the Health Visitors	103
MEDICAL TREATMENT :—	
Minor Ailments	104
Uncleanliness	105
Enlarged Tonsils and Adenoids	105
Tuberculosis	106
Vision and External Eye Disease	106
Dental Defects	107
Crippling Defects and Orthopædics	110
OPEN AIR EDUCATION	111
PHYSICAL TRAINING	111
PROVISION OF MEALS	114
CO-OPERATION OF PARENTS	114
CO-OPERATION OF TEACHERS	115
CO-OPERATION OF SCHOOL ATTENDANCE OFFICERS	115
CO-OPERATION OF VOLUNTARY BODIES	115
BLIND, DEAF, DEFECTIVE AND EPILEPTIC CHILDREN	115
MENTALLY DEFECTIVE CHILDREN	116
GRANGEWOOD SPECIAL M.D. SCHOOL	116
PHYSICALLY DEFECTIVE CHILDREN	117
Class for Stammerers	117
NURSERY SCHOOLS	117
SECONDARY SCHOOLS	117
CONTINUATION SCHOOLS	117
EMPLOYMENT OF CHILDREN AND YOUNG PERSONS	117
MISCELLANEOUS :—	
Teaching of Infant Care	118

Appendix.

PUBLIC ELEMENTARY SCHOOLS.	
A. Table 1.	Number of Children Inspected 119
2.	Return of Defects found in the course of medical inspection 120
3.	Numerical Return of all Exceptional Children. 121
4.	Treatment of Defects of Children :—
(a)	Minor Ailments 123
(b)	Visual Defect 123
(c)	Defects of Nose and Throat 123
(d)	Treatment of Dental defects 124
(e)	Treatment of Uncleanliness 125
5.	Summary of treatment of Defects 126
6.	Summary relating to children medically inspected. 127

SECONDARY SCHOOLS.

B. Table 1.	Number of Children inspected	...	...	...	128
2.	Return of Defects found in the course of medical inspection.				129
3.	See Appendix A, Table 3.				
4.	Treatment of Defects of Children :—				
	(a) Minor Ailments.	...	...	...	130
	(b) Visual Defect	...	...	...	130
	(c) Defects of Nose and Throat	...	...	...	130
	(d) Treatment of Dental Defects	...	...	...	130
5.	Summary of treatment of defects	...	...	...	131
6.	Summary relating to children medically inspected				131

SUMMARY OF VITAL STATISTICS.

Population—Census of 1911—169,551.

Estimated Population, June, 1920—191,820 (Registrar-General's Estimate of Civilian Population).

Births—4,351 (nett).

Birth-Rate, per 1000—22.6.

Deaths—2,134 (nett).

Death Rate, per 1,000 living, 11.1. (See note § at foot of Table I., page 22).

Deaths under 1 year of age—275.

Infantile Mortality, per 1,000 births—63.

Zymotic Death Rate—.5 per 1,000 population.

Death Rate from all Tuberculous Diseases (including Phthisis)—
1.0 per 1,000 population.

Acreage of the Borough—9,012.

Density of population—21.3 per acre.

Rateable Value—£1,142,984.

Amount produced by 1d. Rate—£4,324.

County Borough of Croydon.

REPORT

OF THE

MEDICAL OFFICER OF HEALTH

For the Year 1920.

SECTION I.

NATURAL AND SOCIAL CONDITIONS OF THE DISTRICT.

Physical Features and General Character of the District.

The town lies immediately south of London, the northern boundary being the southern boundary of the metropolis along that part extending from the Crystal Palace to western end of Streatham Common. The shape of the town is that of a pear with the stalk as the southern extremity. The acreage is 9,012.

The soil is of clay, river gravel, chalk and sand. The clay lies chiefly in the northern and north-eastern parts of the Borough, the gravel in the central and western, and the chalk in the southern parts. The elevation extends from 135 feet above sea level at the lowest point to 379 feet at the highest.

Climate.

The climate of Croydon is mild. The meteorological returns are given in Tables VII. and VIIa.

Social Conditions.

Croydon is very largely a residential town. A large part of the population goes daily to work in London. The local industries are mainly those arising out of domestic needs, *e.g.*, shopkeeping, laundries, etc. There are several breweries and steelworks, an extensive business is carried on by the Croydon Gas Company which not only supplies gas to the town, but to large adjoining areas of the county of Surrey, and there is also a noted clock and bell making firm in the town. The recent establishment of the continental air-terminus at Croydon will probably considerably influence the development of the neighbouring areas. None of the works in the town, however, are of such extent as to have a noticeable influence either on the general character of the district or of the well-being of its inhabitants from the public health point of view.

Hospital Accommodation.

The hospital accommodation consists of :—

General—

Croydon General Hospital.
Norwood Cottage Hospital.
Purley Cottage Hospital.
Croydon Union Infirmary.

Special—

Croydon Borough Isolation Hospital.
Croydon Borough Sanatorium, North Cheam.
St. Mary's Maternity Hostel.

Croydon General Hospital—

*Report and Statistics of Patients treated during the Hospital Year
1919-20.*

I. In-Patients.

	1919-20.	1918-19.
Admissions from July 1st, 1919, to June 30th, 1920 ...	1316	1294
Patients in Hospital July 1st, 1919	82	90
Total	1398	1384
Cases of Accident or Emergency admitted free ...	895	862
Cases Admitted by Governors' Letters	182	184
Medical Free Cases	34	36
Discharged Soldiers (Pensioners)	205	212
Total	1316	1294
Males	675	741
Females	641	553
Total	1316	1294
The Average Stay in Hospital of each In-patient ...	21.4 days	22 days
The Average Number of Beds Occupied	85	88

II. Casualty Department.**(a) FREE :**

Fractures	256	172
Dislocations	30	21
Wounds, Minor Injuries, etc.	4240	3687

(b) BY GOVERNORS' LETTERS :

Tonsils and Adenoids	371	253
Phimosis	108	86
Total	5005	4219

• Total Attendances of Casualty Out-Patients 26,358

III. Out-Patient Department.

Medical and Surgical.

Total Number of New Cases	...	...	...	...	1882	1526
Renewal of Old Letters	...	...	...	...	1572	1411
					<hr/>	<hr/>
Total	...	...			3454	2937
					<hr/>	<hr/>

Ophthalmic.

Total Number of New Cases	...	...	...	...	1704	1585
Renewal of Old Letters	...	...	...	...	1017	972
					<hr/>	<hr/>
Total	...	...			2721	2557
					<hr/>	<hr/>

Ear, Nose, and Throat.

Total Number of New Cases	...	...	...	...	609	503
Renewal of Old Letters	...	...	...	...	215	202
					<hr/>	<hr/>
Total	...	...			824	705
					<hr/>	<hr/>

Dental.

Total Number of New Cases	...	...	...	...	347	277
Gas (N ₂ O) Administrations	...	...	...	...	520	462

Total Attendance of Out-Patients.

Medical and Surgical	...	...	...	...	13111	9799
Ophthalmic	...	...	...	...	6427	5694
Ear, Nose and Throat	...	...	...	...	2732	2064
Dental	...	...	...	...	801	574
Casualty	...	...	...	...	26358	—
Massage	...	...	...	...	3343	—
					<hr/>	<hr/>
Total	...	...			52772	18131
					<hr/>	<hr/>

Total Number of Patients treated during the Year.

In-patients	...	...	...	...	1398	1384
Casualty Patients	...	...	...	...	5005	4219
Out-patients (including Renewed Letters)	...	...	...	...	7346	6476
Massage Patients	...	...	...	...	160	—
					<hr/>	<hr/>
Total	...	...			13909	12079
					<hr/>	<hr/>

In-Patients. Summary of Results.

Cases Cured and Relieved	...	...	...	...	1218	1197
Cases Unrelieved	...	...	...	...	30	28
Remaining Under Treatment	...	...	...	...	79	67
Died	...	...	...	...	71	92
					<hr/>	<hr/>
Total	...	...			1398	1384
					<hr/>	<hr/>

Report of the X-Ray Department.

Period Year ending.	Patients examined.	Skiagrams taken.	Patients treated.	Attendances for treatment.
June 30th, 1916	919	1062	59	252
" 1917	941	1114	48	270
" 1918	1105	1433	60	381
" 1919	1164	1751	51	388
" 1920	1501	2313	67	448

Norwood Cottage Hospital—

	Numbers in 1919.	Numbers in 1920.
1. Number of Beds available for use	32	32
2. Average number of Patients resident daily throughout the year, <i>as counted and re- corded daily</i>	25.6	23.7
3. Number of In-Patients in the Hospital at beginning of year	27	19
4. Do. admitted during year	505	437
5. Do. in the Hospital at the end of year...	19	25
6. Average number of days each Patient was resident	18.21	—

Ascertained by dividing the yearly total of daily counts by the number of patients treated to a conclusion.

The following figures give a comparison of the results of the last two years :—

	1919.	1920.
Cured	335	313
Relieved	129	85
Unrelieved	13	6
Died	36	27
Number remaining at end of year	19	25
	<u>532</u>	<u>456</u>

Purley Cottage Hospital.

Total Number of beds : 10.

The number of cases treated in the wards during 1920 was 293. Of these 87 were detained for less than a day, leaving 206 occupying the regular beds. The average number of days each patient spent in Hospital was 17.5.

There has been a considerable increase in the number of patients treated in the Hospital as compared with last year.

	1919.	1920.
In-patients	223	293
Casualties	152	218

making a total this year of 511, against 375 last.

Croydon Union Infirmary.

Total number of beds : 440.

Male Wards (6)	192
Female Wards (5)	166
Children's Wards (1)	60*
Lying-in-Ward (1)	22
	<u>440</u>

Number of patients admitted during year 1920—1803.

Average duration of stay about 82 days.

*Includes "Waingates" annexe.

Croydon Borough Isolation Hospital.

Total number of beds : 170.

24 of the beds are in cubicle wards, which are designed for the individual isolation of patients, such isolation is also carried out in the "special" wards attached to the main wards of the Hospital. 12 of the cubicle beds and in addition 5 shelters are used for the treatment of advanced cases of pulmonary tuberculosis (6 female and 11 male).

The extension of the hospital to meet the growing needs of the town is receiving the consideration of the local authority. The work of the hospital is detailed in the Borough Hospital Report (see page 84).

Croydon Borough Sanatorium, North Cheam.

This was formerly the Croydon and Districts Joint Small-Pox Hospital, and has been converted into a Tuberculosis Sanatorium under a five years' Agreement with the Joint Small-Pox Board. 50 beds are provided, of which 15 are for Croydon, 30 for Surrey and 5 for Kent.

St. Mary's Maternity Hostel.

This institution is conducted under the auspices of the Croydon Mothers' and Infants' Welfare Association. 17 beds (each with its cot) are provided. The hostel is largely subsidised by the local health authority.

Two members of the Council are on the hostel committee of which the Medical Officer of Health is chairman, in addition to which he acts as the general medical superintendent of the hostel. Statistical details of the work of the hostel are given on page 56.

SANITARY CIRCUMSTANCES OF THE DISTRICT.**Water.**

The Corporation is the water authority for the whole borough. The supply is mainly derived from deep wells in the chalk, but the north-eastern part of the borough is supplied with water from the Metropolitan Water Board by agreement made with the latter body—this section of the water supply is intermittent in character.

The following is a description of the water works :—

LOW LEVEL.

Surrey Street Wells.—The chief pumping station is in the Wandle Valley, close to Surrey Street, where there are four wells varying in size and in depth to 50-ft. below which they are all bored. When pumping is going on the level of the water in the wells is about 27-ft. below the surface of the ground, and when it ceases it rises to within 14-ft. The lift to the reservoir averages 160-ft.

The first pair of pumping engines were set to work in December, 1851; they are now removed, the town having outgrown their size. The next pumping engine set to work was the 60-in. Cornish engine of 110-h.p., capable of lifting 134,000 gallons per hour into the low level reservoir, Park Hill. This was erected in 1867.

In 1876 the compound horizontal engine, of 150-h.p., was fixed, which is capable of lifting 178,000 gallons per hour into the same reservoir. Pumping is usually going on continuously, including Sunday, and the quantity raised averages 100,000 gallons per hour.

Waddon Well.—Pumping to supplement Surrey Street Wells commenced on July 21st, 1899, with temporary plant from boreholes. In 1911, permanent buildings were erected, and pumping plant brought into operation. The well is 8-ft. in diameter, sunk to a depth of 60-ft. and lined with cast iron cylinders, beyond which, to a total depth of 190-ft., it is 6-ft. 6-in. in diameter. The machinery consists of three Cornish boilers and a cross compound condensing pumping engine capable of lifting 130,000 gallons per hour.

Reservoir.—The low level reservoir, situated at Park Hill, is a brick domed, one capable of containing 950,000 gallons. The overflow level is 293-ft. above sea level.

HIGH LEVEL.

Addington Well.—The well is 10-ft. in diameter and 205-ft. deep, all in chalk. The well is not bored, but headings or tunnels 6-ft. high and 4½-ft. wide have been made chiefly about 150-ft. from the top. The total length of these is 813 yards, and they will hold with the lower part of the well about 502,000 gallons. Several important water-bearing fissures were cut through in the east headings, the first one yielding 600,000 gallons a day. The maximum yield is about two million gallons per day, and the minimum one million. Pumping to reservoir commenced in August, 1883.

The pumping machinery consists of two engines each 125-h.p., of the "Woolfe" type, 5 steel boilers, double-acting well and lift pumps of the bucket and plunger pattern. Each engine is capable of lifting 77,760 gallons per hour 250-ft. high, through a 21-in. pipe into the covered reservoir on Addington Hills.

In May, 1910, Filters were brought into use for treating the whole of the Addington supply. The three filters have a total area of 4,270 square yards. The water passes through two feet of fine sand and one foot of small gravel.

There is also a softening plant capable of softening 6,000 gallons of water per hour for use at the Croydon Mental Hospital. This water is pumped by two pumping engines each capable of discharging 3,000 gallons per hour into the tank in the Clock Tower at the Hospital.

Stroud Green Well.—The well is sunk to a depth of 390½-ft. from the surface, the lower 251-ft. in chalk.

The well is lined to a depth of 144-ft. with iron cylinders, the successive diameters of which are 12-ft., 11-ft. and 10-ft., and the latter diameter is continued in the chalk.

A 12-in. borehole is put down beyond to a depth of 537-ft. from the surface.

Headings are driven at 230-ft. and also at 365-ft. from the surface. At the former depth 2,827-ft. 6-in., and at the latter depth, 1,395-ft. of headings have been driven; both upwards and downwards boreholes are made in both sets of headings. The present yield of the Well is about 650,000 gallons per day. Pumping to mains commenced on the 11th July, 1905.

In 1906, permanent buildings and plant were erected. The machinery consists of three steel boilers, a triple expansion engine of 250-h.p., two well pumps and a set of three-throw force pumps capable of lifting 65,000 gallons per hour into the Addington Reservoir.

Reservoir.—This, situated at Addington Hills, is 420-ft. long, 124-ft. broad, and 16½-ft. deep, and holds 5 million gallons. It is built entirely of concrete, and the ground over it has been planted with heather and gorse.

The valves are placed in a house built over the entrance to the reservoir. The overflow is 465-ft. above sea level, and 87-ft. above Upper Norwood, the highest part of the borough.

AREA OF SUPPLY.

On the 29th of September, 1904, the Corporation took over that portion of the Borough previously supplied by the Lambeth Water Company, and recently by the Metropolitan Water Board, thus making the Corporation the water authority for the whole of the Borough. The new area is supplied with water obtained in bulk from the Metropolitan Water Board.

NEW WORKS.

New works are in progress as follows:—

A low level service Reservoir at Russell Hill to hold ten million gallons.

Waddon Pumping Station.—An Engine and Pumps capable of lifting 130,000 gallons an hour.

Pumping Mains between Surrey Street Works, Waddon Works, and Russell Hill.

Rivers and Streams.

There are few watercourses in the Borough, and only minor nuisances—very easily remedied—arise in connection with them. The most interesting of the watercourses is that of one of the sources of the Wandle and characterised by the flow of the bourne (the overflow of the underground water of the chalk) from the Kenley Valley.

Drainage and Sewerage.

The whole of the town is on the water-carriage system. The sewage is conveyed to and treated at two separate installations—the Beddington Sewage Works and Irrigation Farm situated just beyond the western boundary of the town and the Norwood Sewage Works and Irrigation Farm situated in the middle of the eastern boundary of the town. The treatment is effected in tanks followed by filtration through sprinkler beds and then by land irrigation.

Closet Accommodation.

The closet accommodation consists throughout of water-closets with the exception of 15 earth closets. In each of the latter instances there is adequate reason for their existence.

Scavenging.

The use of covered metal ashbins is general throughout the town. Domestic refuse is removed once weekly. The refuse is disposed of principally at the Corporation Destructor and at a large shoot on the Norwood Sewage Farm. Many complaints have in recent years been received of nuisance arising from this deposit, and the Corporation are proceeding to provide another destructor to deal with this section of the refuse.

Sanitary Inspection of the District.

The general inspection of the district had to be largely lessened during the war owing to shortage of staff, especially the routine house-to-house inspection. During 1920 the staff of inspectors was at its pre-war size and the normal activities resumed. The accumulation of work, however, resulting from the war conditions is such that it will take a considerable time before current work can cover all demands. Difficulties of labour and in the obtaining of material also hamper owners, but the progress made is generally satisfactory.

The details of this section of the department's work are given on pages 70—72.

HOUSING.

The following return shows the summary of housing work in the town during 1920. The detailed record of inspections of all kinds made by the Sanitary Inspecting Staff is to be found on page

I. HOUSING CONDITIONS.

1. Estimated population, 191,820.
2. General death-rate, 11.1.
3. Death-rate from tuberculosis, 1.0.
4. Infantile mortality, 63.
1. Number of dwelling houses of all classes, 41,986 (1919 estimate).
2. Number of working-class dwelling houses, 35,000 (approx.).
3. Number of new working-class houses erected, 267.

II. UNFIT DWELLING HOUSES.

1. *Inspection*—

- | | |
|--|------|
| a. Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts) | 3544 |
| b. Number of dwelling houses which were inspected and recorded under the Housing (Inspection of District) Regulations, 1910 | 2390 |
| c. Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation | Nil. |
| d. Number of dwelling houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation | 3961 |

2. *Remedy for Defects without Service of Formal Notices—*

a. Number of defective dwelling houses rendered fit in consequence of informal action by the Local Authority or their officers	3366
---	------

3. *Action under Statutory Powers—*

A. Proceedings under Section 28 of the Housing, Town Planning, Etc., Act, 1919 :—

1. Number of dwelling houses in respect of which notices were served requiring repairs	1
2. Number of dwelling houses which were rendered fit—	
A. By Owners	1
B. By Local Authority in default of owners	Nil.
3. Number of dwelling houses in respect of which Closing Orders became operative in pursuance of declarations by owners of intention to close ...	Nil.

B. Proceedings under the Public Health Acts :—

1. Number of dwelling houses in respect of which notices were served requiring defects to be remedied	435
2. Number of dwelling houses in which defects were remedied :—	
A. By owners	345
B. By Local Authority in default of owners	Nil.

C. Proceedings under Sections 17 and 18 of the Housing and Town Planning Act, 1909—

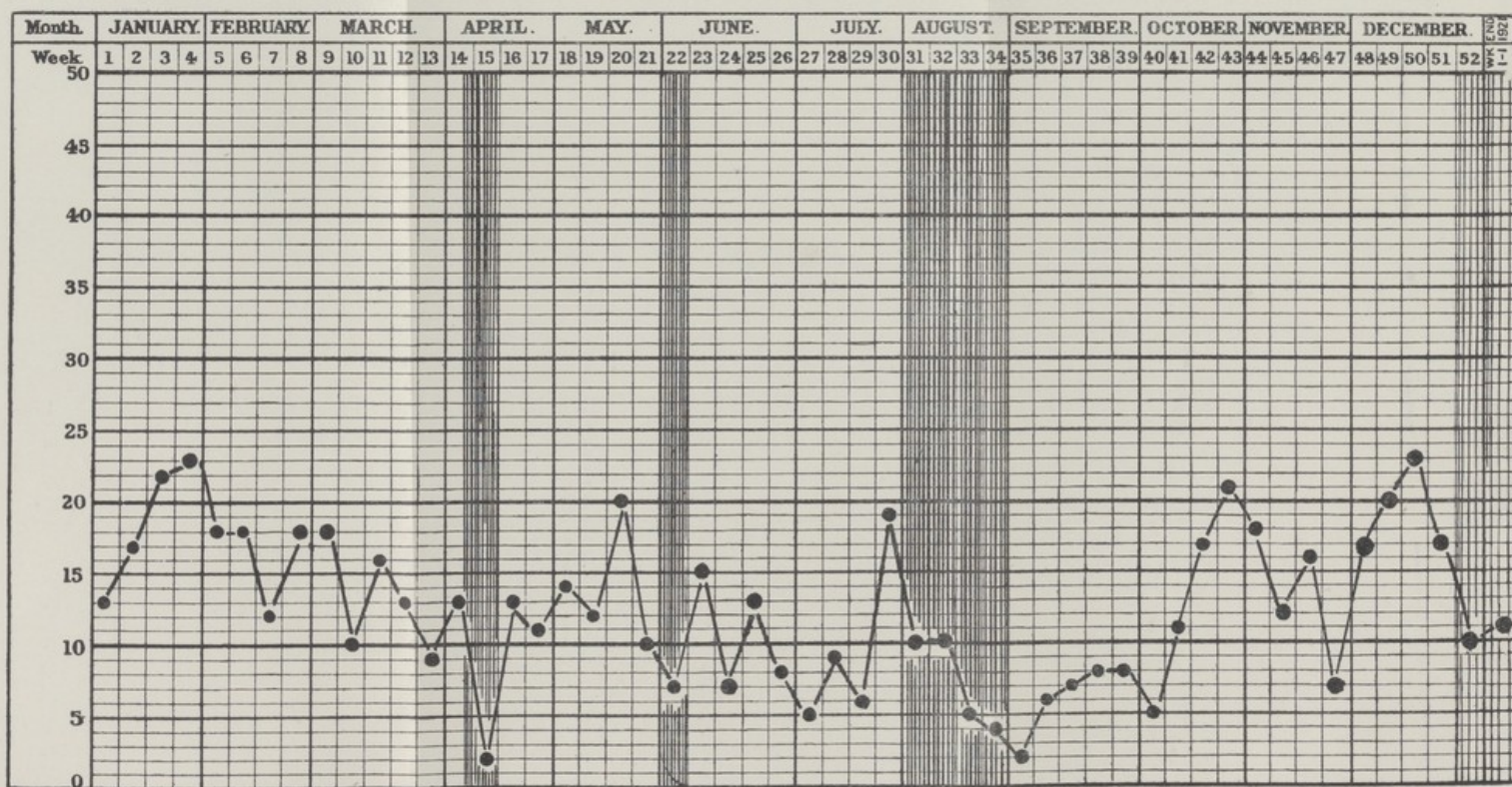
1. Number of representations made with a view to the making of Closing Orders	Nil.
2. Number of dwelling houses in respect of which Closing Orders were made	Nil.
3. Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit	Nil.
4. Number of dwelling houses in respect of which Demolition Orders were made	Nil.
5. Number of dwelling houses demolished in pursuance of Demolition Orders	Nil.

III. UNHEALTHY AREAS.

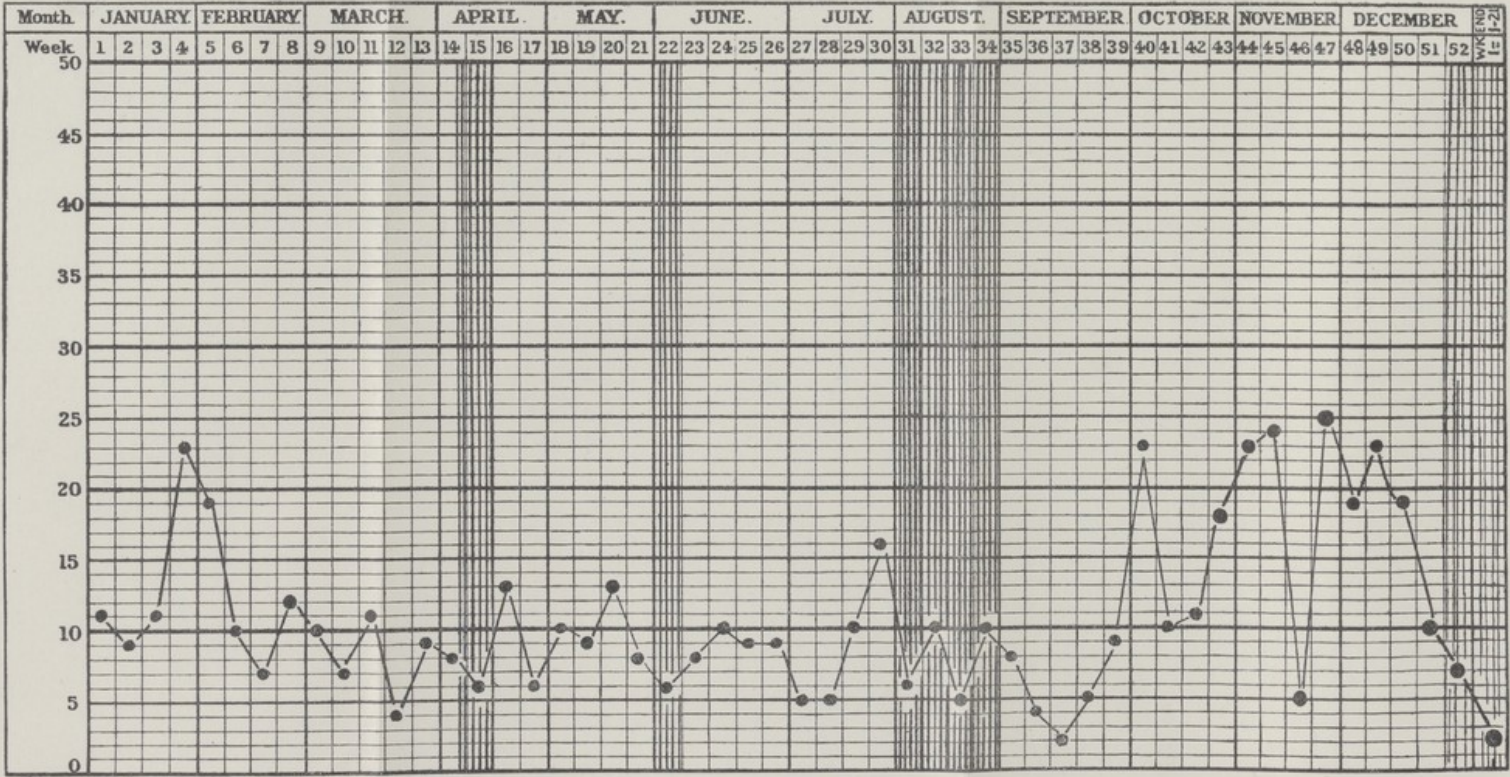
Areas represented to the Local Authority with a view to Improvement Schemes under (a) Part I. or (b) Part II. of the Act of 1890.

1. Name of area	Nil.
2. Acreage	Nil.
3. Number of working-class houses in area ...	Nil.

Weekly notifications of SCARLET FEVER during the year 1920.



Weekly notifications of DIPHTHERIA during the year 1920.



4. Number of working-class persons to be dis- placed	... .. Nil.
Number of houses not complying with the Building byelaws erected with the consent of the Local Authority under Section 25 of the Housing, Town Planning, Etc., Act, 1919	... .. 1
Staff engaged on housing work with, briefly, the duties of each officer.	
Sanitary Inspectors engaged in general Inspection of Districts	... .. 6

PREVALENCE OF AND CONTROL OVER INFECTIOUS DISEASES.

Scarlet Fever.

638 cases of scarlet fever were notified in 1920, as against 603 the previous year. Death occurred in 7 cases. The need for further hospital accommodation for scarlet fever was again urgently experienced in the winter months.

Diphtheria.

558 cases of diphtheria were notified in 1920, as against 429 for 1919. Death occurred in 26 cases. The hospital accommodation for this disease was severely taxed and the provision of further accommodation felt to be urgent.

Diphtheria Anti-toxin was supplied to practitioners on request as has been the practice for many years. 189 phials were issued in this manner, 34 of these phials were issued free of charge for the treatment of necessitous patients, but the remainder were paid for at cost price.

Measles and German Measles.

This disease is no longer notifiable, and no accurate knowledge of its incidence is available. 22 deaths only were recorded as due to measles, none to German measles.

Enteric Fever.

Only 12 cases were notified during the year, as against 5 in 1919. 4 deaths occurred.

Smallpox.

No cases of smallpox were notified during the year.

Influenza.

Table III.a, page 37, shews the weekly deaths from influenza, along with the deaths from certain other diseases which are epidemiologically of interest in relation to influenza. 43 deaths occurred from Influenza during the year. Anti-Influenza vaccine was supplied on request to practitioners in the town, and returns—so far as obtain from these practitioners—shew that twenty-one doctors used the vaccine for 118 patients, and that 215 injections were made.

Pneumonia.

98 cases of acute primary pneumonia and influenzal pneumonia were notified. Of deaths from pneumonia, 37 were due to lobar pneumonia, 69 to broncho pneumonia and 54 to pneumonia of which the type was not mentioned.

Malaria, Dysentery, Encephalitis Lethargica.

21 cases of malaria were notified, with 0 deaths.

4 cases of dysentery were notified, with 2 deaths. All cases of these two diseases were introduced from abroad. None arose in the town originally.

4 cases of encephalitis lethargica were notified, with 1 death.

Tuberculosis.

The general work at the tuberculosis dispensary is fully detailed in the section of the tables dealing with tubercle. A total of 805 new cases were medically examined during the year, and the total number of medical examinations made was 7,122. This—in view of the necessarily very careful nature of the examinations—means a large volume of work. In spite of this, it is impossible to give adequate attention to the “contacts” with cases of tuberculosis—one of the most important of the preventive sections of this field of public health work. It is certain that if we are to keep proper supervision of tubercular disease in the borough the staff apportioned for this duty will have to be increased at an early date.

The total number of cases who received treatment at Sanatoria and other outside institutions in 1920 was 335, and at the Borough Hospital 73.

The shortage of houses gives rise to most serious difficulties in arranging suitable living conditions at home for tuberculous persons just as it is doing in relation to all other infectious diseases.

Ophthalmia Neonatorum, 1920.

During the year 39 cases of ophthalmia neonatorum were notified. Of these 29 recovered, 2 died, 2 left the district, 3 were not seen (1 parent objected, 2 notified from Infirmary), 1 left eye slightly affected, and 2 both eyes slightly affected.

THE WORK OF THE HEALTH VISITORS.

This is set out in the accompanying table and again shows a large mass of useful work, conscientiously and efficiently performed.

HEALTH VISITORS.—The following is a summary of the work done and visits paid by the Health Visitors:

DISINFECTION.

The following table shews the disinfection carried out during 1920 :—

Destroyed.	Articles.	Disinfected by			Total.
		Steam.	Formalin Lamp.	Formalin Spray.	
3	Beds	973	...	...	973
5	Blankets	2877	...	...	2877
...	Blouses	110	3	...	113
1	Bolsters	919	...	...	919
15	Books (other than Library) ...	...	423	...	423
...	Books (Library) ... ..	...	679	...	679
2	Boots ... ..	...	...	436	436
...	Capes	10	...	...	10
...	Caps	103	...	7	110
...	Carpets	19	...	...	19
...	Cloaks	3	...	...	3
2	Coats	401	...	10	411
...	Corsets	101	...	...	101
...	Curtains	67	...	...	67
9	Cushions	484	...	...	484
...	Costumes	84	1	...	85
3	Counterpanes or Quilts	1024	...	...	1024
...	Dresses	144	...	...	144
1	Dressing Gowns	133	...	...	133
...	Handkerchiefs	162	...	...	162
...	Hearthrugs ... ..	...	...	...	...
1	Jackets	178	...	...	178
...	Mats	34	...	...	34
16	Mattresses	1516	...	...	1516
...	Neckerchiefs ... ..	...	...	...	...
12	Palliasses	308	...	...	308
...	Petticoats	229	...	...	229
9	Pillows	2976	...	...	2976
...	Rugs	176	...	2	178
...	Shawls	139	...	...	139
1	Sheets	665	...	...	665
5	Shirts	291	...	...	291
...	Skirts	98	...	...	98
...	Stockings (Socks)	609	...	...	609
...	Towels	251	...	...	251
1	Trousers	265	...	...	265
...	Underclothing	397	...	...	397
1	Vests	210	...	...	210
1	Waistcoats	164	...	...	164
20	Other articles	2008	...	15	2023
Total 108	Total ...	18128	1106	470	19704

Premises, etc., Disinfected.

Rooms.	Hospital Wards.	School Departments.	School Class rooms.	Vehicles.	School Lavatories.
2688	3	42	21	—	—

The disinfectors were also engaged from time to time in the removal of condemned foodstuffs to the Destructor, and also in journeys to the Borough Hospital in connection with laundry. Approximately four journeys per week in all.

**Cleansing of Persons at Disinfecting Station
during the Year 1920.**

	Adults.	School Children.	Children under School age.
Head Vermin	—	2	—
Scabies	22	109	5
Body Vermin	19	26	10
After Contact with Infectious Disease ...	—	1	—
	41	138	15

SICK ROOM REQUISITES.

Under the powers contained in the Public Health Act, 1875, the Corporation have since 1919 kept an outfit of sick room requisites for loan, when necessary, to families in the borough.

The following list shows the articles kept and the use made of the same :

<i>Name of Article.</i>	<i>Number.</i>	<i>Deposit Required.</i>
Bed Pans	12 (large)	1/6d.
Bed Pans	4 (small)	1/0d.
Urinals	6	1/0d.
Waterproof Sheetting	14 yards	1/0d. per yard.
Water Bed	1	10/0d.
Air pillows	4 (circular)	2/0d.
Air pillows	1 (square)	2/6d.
Feeding Cups	6	6d.
Douche Cans, complete	3	1/0d.
Breast relievers	3	6d.
Enema Syringes	4	6d.
Glycerine Syringe	1 (½-oz.)	9d.
Glycerine Syringe	1 (1-oz.)	1/0d.
Crutches	1 (pair)	2/0d.
Bed cradles	2	1/0d.
Hot water bottles	2	1/0d.
Hot water bottles	1 (rubber)	1/3d.
Hot water bottles	4 (stone)	9d.
Inhaler	2 (tin)	10d.
Bronchitis kettles	1	9d.
Bronchitis kettles	2	1/6d.
Bed rest	1	3/0d.

Of the articles detailed above, the following were out on loan during this year :—

<i>Article.</i>	<i>Number of deposits paid.</i>						
Air pillows, circular	17
Bedpans	6
Breast Reliever	2
Waterproof Sheeting	2
Douche cans	2
Enema Syringes	4
Best Rest	4
Hot water bottles	2
Urinals	3
Bronchitis kettles	1
Inhaler	2
Water bed	2

SECTION II.

TABLE I.

Vital Statistics of whole District during 1920 and previous years.

Year.	Population estimated to Middle of each Year.	BIRTHS.			TOTAL DEATHS REG. IN THE DISTRICT.		TRANSFER-ABLE DEATHS		NETT DEATHS BELONGING TO THE DISTRICT.			
		Uncorrected Number.	Nett.		Number.	Rate.*	of Non-residents registered in the District.	of Residents not registered in the District.	Under 1 Year of Age.		At all Ages.	
			Number.	Rate.*					Number.	Rate per 1,000 Nett Births.	Number.	Rate*
1	2	3	4	5	6	7	8	9	10	11	12	13
1906.	151,011	3886		25.7	2085	13.8	160	94	485	125	2019	13.4
1907.	154,342	3967		25.7	1953	12.5	149	97	371	94	1901	12.3
1908.	157,698	4017		25.5	2053	13.0	137	105	398	99	2021	12.8
1909.	161,078	3938		24.4	1974	12.3	165	70	313	79	1879	11.7
1910.	166,884	3810		22.8	1817	10.9	145	111	331	87	1783	10.7
1911.	170,451	3760	3748	22.0	2069	12.1	177	130	395	105	2022	11.9
1912.	174,257	3861	3859	22.1	1934	11.1	200	159	297	77	1893	10.8
1913.	178,094	3890	3895	21.8	2110	11.8	204	190	366	94	2096	11.7
1914.	181,956	4027	4007	22.0	2041	11.2	234	177	319	79	1984	10.9
1915.	177,345	3699	3704	20.8	2463	13.8	269	221	307	83	2415	13.6
1916.	175,765	3589	3636	20.6	2207	12.5	253	197	281	77	2151	12.2
1917.†	186,917	2836	2861	15.3	2207	11.8	262	219	249	87	2164	11.09
1918.‡	188,755	2632	2626	13.9	2687	15.9	388	245	202	76	2544	15.1
1919.||	191,922	3008	2965	15.4	2287	12.4	312	197	219	73	2172	11.7
1920 §	191,820	4434	4351	22.6	2225	11.6	299	209	275	63	2134	11.1

* Rates calculated per 1,000 of estimated population.

† Registrar General's estimate of civilian population.

‡ Registrar General's estimate of civilian population for death rate, 168,462.

|| " " " " " " death rate, 184,239

\$ " " " " " " " " 191,580

CENSUS, 1911.

Total population at all ages, 169,551.

Number of inhabited houses, 34,363.

Average number of persons per house, 4.9.

Area of District in acres (exclusive of area covered by water), 9,012.

TABLE II.
Cases of Infectious Disease notified during the Year 1920.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.									TOTAL CASES NOTIFIED IN EACH LOCALITY.									TOTAL CASES REMOVED TO HOSPITALS OR SANATORIA.	
	At all Ages.	At Ages—Years.						Unrecorded ages.	West.	North.	Central.	East.	South.	South Norwood.	Upper Norwood.	Thornton Heath.	Institution cases which could not be distributed.			
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 45.	45 to 65.											65 & upwd.		
Small-pox .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera (C) Plague (P) .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	558	6	123	334	56	32	7	..	..	133	71	43	57	66	130	9	49	..	..	499
Erysipelas	74	1	1	6	10	28	24	3	1	10	12	4	10	10	14	4	10	..	..	8
Scarlet Fever	638	6	142	390	63	37	..	..	..	173	108	41	56	36	171	13	40	..	..	528
Typhus Fever .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteric Fever	12	..	..	3	5	4	..	..	..	1	2	..	..	2	3	..	4	..	..	7
Relapsing Fever .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	14	..	..	..	3	11	..	..	..	4	4	..	1	1	2	2	..	..	..	4
Cerebro-spinal Meningitis	3	1	1	1	..	..	..	..	..	1	..	..	1	..	..	..	1	..	..	2
Ophthalmia Neonatorum	39	39	..	..	..	..	..	..	..	19	2	3	1	4	8	..	2	..	..	3
Pulmonary Tuberculosis	396	..	4	55	100	170	43	9	15	88	35	44	35	28	62	15	55	4	..	187
Other forms of Tuberculosis	84	..	11	49	10	9	2	..	3	28	2	11	4	3	20	2	12	2	..	25
Pneumonia	98	1	8	16	9	33	19	12	..	18	16	7	17	6	27	3	4	..	..	..
Malaria	21	..	..	..	7	13	..	1	..	8	4	..	..	6	2	..	1	..	..	..
Dysentery	4	..	..	..	2	..	..	..	2	..	2	..	1	..	1	..	..	..	..	..
Encephalitis lethargica	4	1	..	1	..	1	1	..	..	1	..	..	1	..	2	..	..	..	..	..
Posterior basic meningitis .. .. .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Anterior poliomyelitis	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
TOTALS	1946	55	291	855	265	338	96	25	21	484	258	153	184	162	472	48	179	6	..	1263

The Borough (Fever) Isolation Hospital is situated in the West Ward.
The Croydon and Districts Smallpox Hospital is at North Cheam.

TABLE III

Causes of, and ages at, Death during Year ending December 31st, 1920, excluding Deaths of Strangers at the Workhouse, Workhouse Infirmary, Borough Hospital, General Hospital, Purley Cottage Hospital, Norwood Cottage Hospital, 99, Central Hill (Servants' Reformatory), and adding Deaths of Croydon Residents known to have occurred outside the District.

No.	CAUSE	LOCALITIES.								Institution & Street Deaths which could not be distributed.	Total Institution Deaths distributed and not distributed.	Inquest Cases.	Total all Ages.	Males all Ages.	Females all Ages.	0-1.	1-2.	2-5.	5-15.	15-25.	25-45.	45-65.	65 and upwards.
		West.	North.	Central.	East.	South.	South Norwood.	Upper Norwood.	Thornton Heath.														
I.—General Diseases.																							
1	Enteric Fever	3							1	2		4	2	2					1	1	1	1	
2	Typhus																						
3	(A B.) Relapsing Fever																						
	(A) Relapsing Fever ...																						
	(B) Mediterranean Fever...																						
4	Malaria																						
5	Small-pox																						
	(A) Vaccinated																						
	(B) Not vaccinated																						
	(C) Doubtful																						
6	Measles	6	2	1		10	2	1		2 (2)		22	13	9	3	7	7	4	1				
7	Scarlet Fever	5					1	1		7		7	4	3			4	2	1				
8	Whooping Cough ...	1						1				2	1	1		2							
9	(A) Diphtheria	2	3	1	1	5	10	4		24 (4)	1	26	9	17			6	18				2	
	(B.C.) Croup																						
	(B) Membranous laryngitis																						
	(C) Croup																						
10	Influenza... ..	11	5	6	7	3	6	3	2	3 (5)		43	25	18		1	2	6	1	13	12	8	
11	Miliary Fever																						
12	Asiatic Cholera																						
13	Cholera Nostras																						
14	Dysentery			1	1					1		2	2							1	1		
15	Plague																						
16	Yellow Fever																						
17	Leprosy																						
18	Erysipelas	1			1			1				3	1	2					2	1			

[illegible]

TABLE III—continued.

No.	CAUSE.	LOCALITIES.								Institution & Street Deaths which could not be distributed.	Total Institution Deaths distributed and not distributed.	Inquest Cases.	Total all Ages.	Males all Ages.	Females all Ages.	0-1.	1-2.	2-5.	5-15.	15-25.	25-45.	45-65.	65 and upwards.
		West.	North.	Central.	East.	South.	South Norwood.	Upper Norwood.	Thornton Heath.														
37	Syphilis	1	1	2	1	...	1	...	...	4 (1)	...	6	5	1	4	...	...	...	...	...	...	2	...
38	(A.B.C.) Other Venereal Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Soft Chancre	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	1	...	...	...
	(B) Gonococcus Infection	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
	(C) Purulent Ophthalmia	...	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...
39	Cancer of the Buccal Cavity	3	...	1	2	1	...	...	...	2 (1)	...	7	6	1	...	...	...	...	...	...	...	3	4
40	Cancer of the Stomach, Liver, &c.	13	11	10	10	4	14	1	2	...	13 (8)	...	65	39	26	...	...	...	...	...	8	27	30
41	Cancer of the Peritoneum, Intestines & Rectum	5	8	3	6	7	8	6	...	20 (11)	...	43	20	23	...	...	...	...	...	...	2	18	23
42	Cancer of the Female Genital Organs	4	5	3	4	4	1	4	1	1	5 (1)	...	27	...	27	...	...	...	...	...	2	17	8
43	Cancer of the Breast	4	4	2	3	4	2	...	1	...	6 (4)	...	20	...	20	...	...	...	...	...	3	11	6
44	Cancer of the Skin	2	2	...	1	3	...	...	...	...	5	...	8	5	3	...	...	...	...	...	1	1	6
45	Cancer of other or unspecified Organs	7	9	5	8	5	10	4	...	...	14 (8)	...	48	25	23	...	1	1	...	...	5	26	15
46	(A.B.C.) Other Tumours (situation undefined)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Angioma	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Adenoma	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(C) Other Tumours included under 46	...	...	...	...	...	1	...	...	...	...	1	...	1	...	...	...	1	...	...	...	...	...
47	Rheumatic Fever	3	...	...	1	...	...	...	1	...	2 (1)	...	5	2	3	...	...	...	1	1	...	2	1
48	(A.B.) Chronic Rheumatism, Osteo-arthritis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Chronic Rheumatism	1	...	...	1	...	...	...	...	...	...	...	2	1	1	...	...	...	...	...	...	...	2
	(B) Osteo-arthritis	4	2	1	3	...	2	1	...	...	3	...	13	4	9	...	...	...	...	...	...	5	8
	(C) Gout	...	...	1	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	1
49	Scurvy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
50	Diabetes	2	2	2	3	8	3	1	2	...	1 (2)	...	23	15	8	...	...	...	...	2	1	9	11
51	Exophthalmic Goitre	...	...	...	1	...	1	...	...	...	1	...	2	...	2	...	...	...	...	...	1	1	...
52	Addison's Disease	...	1	...	...	...	...	1	...	...	1 (1)	...	2	2	...	...	...	1	1	...	...	...	...
53	(A.B.) Leucocythæmia, Lymphadenoma	...	...	...	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...
	(A) Leucocythæmia (Leucæmia)	...	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...
	(B) Lymphadenoma	...	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...

54	Anæmia, Chlorosis	1	1	...	3	...	1	1	3 (2)	1	7	5	2	...	1	...	1	...	2	2	1
55	(A.B.C.D.) Other General Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Diabetes Insipidus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Purpura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(C) Hæmophilia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(D) Other Diseases included under 55	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
56	Alcoholism (acute or chronic)	...	...	...	...	...	1	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	1	...
57	(A.B.) Chronic lead poisoning	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Occupational lead poisoning	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Non-occupational lead poisoning	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
58	Other chronic occupational poisonings	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
59	Other chronic poisonings	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
II.—Diseases of the Nervous System and of the Organs of Special Sense.																									
60	Encephalitis	...	...	1	...	...	1	...	...	...	...	...	1	...	2	...	2	1	...	...	...	...	1	...
61	(A) Cerebro-spinal fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
61	(B.C.) Meningitis, other forms or undefined	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Posterior basal meningitis	...	1	...	...	...	1	...	...	1	3 (1)	1	3	2	1	...	1	...	...	1	...	1	...	...
	(C) Meningitis, other forms	...	2	...	3	2	...	2	...	1	...	3	...	10	8	2	3	3	...	3	1	...	...	...
62	Locomotor Ataxy	...	1	1	...	...	...	...	1	...	1 (2)	...	3	3	...	...	...	...	...	...	...	2	1	...
63	(A.B.) Other diseases of the spinal cord	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Diseases formerly classed to "Other nervous affections"	...	4	1	2	1	1	3	1	1	...	3	...	14	6	8	...	...	...	1	...	3	3	7
	(B) Other diseases included under 63	...	1	1	1	...	2	...	1	2	...	3	...	8	4	4	...	...	...	2	1	...	3	2
64	(A.B.C.D.E.) Cerebral hæmorrhage, Apoplexy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Apop'lexy	...	4	...	...	1	...	2	1	...	...	2 (1)	...	8	5	3	...	...	...	...	...	2	6	...
	(B) Serous apoplexy and œdema of brain	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	1	...	...	...	...	...	...	...
	(C) Cerebral congestion	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(D) Cerebral atheroma	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(E) Cerebral hæmorrhage	...	18	23	9	15	13	19	9	9	3	37 (39)	13	118	53	65	...	...	...	...	1	6	43	68
65	Softening of brain	...	...	1	...	2	1	...	2	...	1	3	...	7	2	5	...	...	...	...	...	3	4	...
66	(A.B.C.) Paralysis without specified cause	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Hemiplegia...	...	1	...	...	2	...	1	...	1	...	2	...	5	2	3	...	...	...	...	1	...	4	...
	(B) Paraplegia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(C) Other forms of paralysis	...	1	1	...	...	1	...	...	...	...	...	...	3	1	2	...	...	...	...	1	...	2	...

TABLE III—*continued*.

No.	CAUSE.	LOCALITIES.								Institution & Street Deaths which could not be distributed.	Total Institution Deaths distributed and not distributed.	Inquest Cases	Total all Ages.	Males all Ages.	Females all Ages.	0-1.	1-2.	2-5.	5-15.	15-25.	25-45.	45-65.	65 and upwards.
		West.	North.	Central.	East.	South.	South Norwood.	Upper Norwood.	Thornton Heath.														
67	General paralysis of the insane ...	1	2	2	2	2	1	1	...	11	...	11	10	1	...	...	...	...	...	...	7	3	1
68	Other forms of mental alienation ...	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...
69	Epilepsy ...	1	3	...	...	1	1	...	2	...	6 (2)	1	8	6	2	...	...	...	1	3	2	2	...
70	(A.B.) Convulsions (non-puerperal; 5 yrs & over)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Epileptiform convulsions ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Others included under 70 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
71	(A.B.) Infantile convulsions (under 5 years)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Convulsions with teething ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Other infantile convulsions ...	4	2	...	...	...	7	2	2	...	1	3	17	13	4	17	...	...	...	...	...	...	...
72	Chorea ...	...	...	...	...	...	1	...	...	...	1	...	1	1	...	...	...	1	...	...	...	...	...
73	(A.B.) Hysteria, Neuralgia, Neuritis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Hysteria, Neuralgia, Sciatica ...	1	1	...	...	...	...	...	...	...	1	...	2	...	2	...	...	...	...	...	1	...	1
	(B) Neuritis ...	...	1	...	...	...	...	...	...	...	1	...	1	...	1	...	...	...	...	...	1	...	...
74	(A.B.C.D.) Other diseases of the nervous system	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Idiocy, Imbecility ...	...	...	...	...	...	...	...	...	...	(1)	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Cretinism ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(C) Cerebral tumour ...	1	2	...	1	...	2	...	2	...	4 (2)	...	8	2	6	...	...	...	1	...	5	2	...
	(D) Other diseases included under 74 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
75	Diseases of the eyes and annexa ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
76	(A) Vastoid disease ...	...	1	1	...	...	...	...	...	...	2	...	2	...	2	...	...	1	...	1	...	...	...
76	(B) Other diseases of the ears ...	...	...	...	...	...	...	...	1	...	...	...	1	1	...	...	...	...	...	...	1	...	...
III.—Diseases of the Circulatory System.																							
77	Pericarditis ...	...	...	...	...	...	...	...	3	...	2	1	3	2	1	...	...	...	1	...	...	2	...
78	(A.B.C.) Acute endocarditis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Acute myocarditis ...	...	1	...	...	...	...	1	...	1	...	2	...	2	...	...	...	...	...	...	1	1	...
	(B) Infective endocarditis ...	...	...	...	...	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	1	...	...
	(C) Other acute endocarditis ...	1	2	...	...	...	1	...	...	(1)	...	4	1	3	...	...	...	1	2	...	1	...	...

79	(A) Valvular disease ...	...	52	25	13	14	17	26	7	13	1	31(18	24	148	67	81	...	...	...	...	6	13	45	84
79	(B) Fatty degeneration of the heart ...	...	5	2	5	...	2	2	1	1	...	1	10	18	8	10	...	...	...	...	...	1	7	10
79	(C) Other organic disease of the heart ...	...	9	14	9	16	6	17	3	5	...	12 5)	9	79	34	45	...	...	...	1	...	6	23	49
80	Angina pectoris ...	...	1	1	...	...	1	...	...	...	...	1	...	3	1	2	...	...	...	...	...	1	2	2
81	(A) Aneurysm ...	...	1	1	...	...	1	1	...	1	...	2	3	5	4	1	...	...	...	...	...	1	2	2
81	(B) Arterial sclerosis ...	...	14	26	16	13	13	14	6	5	...	67()	5	107	35	72	...	...	...	...	...	...	8	99
81	(C) Other diseases of arteries ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
82	(A) Cerebral embolism and thrombosis ...	...	...	...	2	...	4	1	...	...	...	1	...	7	1	6	...	...	1	...	...	1	5	...
82	(B) Other embolism and thrombosis ...	...	...	1	1	...	...	2	1	...	...	1	...	5	1	4	...	...	...	...	...	...	5	...
83	(A.B.C.D) Diseases of the veins (Varices Hæmorrhoids, Phlebitis, &c.)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Phlebitis ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Varix ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(C) Pylephlebitis ...	...	...	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1
	(D) Varicocele ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
84	(A) Status lymphaticus ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
84	(B) Other diseases of the lymphatic system ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
85	(A.B.C.) Hæmorrhage; other diseases of the circulatory system	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Functional disease of the heart ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Epistaxis ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(C) Other diseases included under 85	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV.—Diseases of the Respiratory System.																								
86	Diseases of the nasal fossæ ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
87	(A.B.C.) Diseases of the larynx	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Laryngismus stridulus ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Laryngitis ...	...	...	...	...	...	1	1	...	1	...	...	...	3	1	2	...	...	3	...	...	...	...	...
	(C) Other diseases of larynx ...	...	...	...	...	...	...	1	...	...	...	1	...	1	1	...	...	...	...	...	...	...	1	...
88	Diseases of the thyroid body ...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	1	...	...	...	...	...	...	1	...
89	(A.B.) Bronchitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Bronchiectasis, Bronchial Catarrh, &c.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
90	(B) Other bronchitis ...	...	48	25	9	8	21	23	9	17	3	31(19	4	163	73	90	23	4	2	4	...	4	33	93
91	Broncho-pneumonia ...	...	14	10	5	8	7	6	3	16	...	11 (7)	12	69	36	33	26	6	10	7	...	1	4	15
92	(A.B.) Lobar and undefined.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Lobar pneumonia ...	...	3	7	3	5	3	9	1	6	...	3 (3)	10	37	23	14	...	...	...	2	1	9	16	9
	(B) Pneumonia (type not stated) ...	...	15	12	2	5	3	8	1	8	...	6 (2)	1	54	29	25	4	3	4	1	3	12	14	13

TABLE III—continued.

No.	CAUSE.	LOCALITIES.								Institution & Street Deaths which could not be distributed.	Total Institution Deaths distributed, and not distributed.	Inquest Cases.	Total all Ages.	Males all Ages.	Females all Ages.	0-1.	1-2.	2-5.	5-15.	15-25.	25-45.	45-65.	65 and upwards.	
		West.	North.	Central.	East.	South.	South Norwood.	Upper Norwood.	Thornton Heath.															
94	(A. B.) Pleurisy																							
	(A) Empyema	1	...	1	1	...	1	...	...	...	3	1	4	4	...	...	1	...	...	...	2	1	...
	(B) Other pleurisy	...	7	...	...	1	...	...	...	...	1 (1)	1	8	5	3	...	...	...	1	...	1	3	3
	A. B. C. D.) Pulmonary congestion, Pulmonary apoplexy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Pulmonary apoplexy and infarction	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Pulmonary oedema and congestion	1	...	1	1	1	1	3	...	3	...	2	1	...
	(C) Hypostatic pneumonia	...	...	...	...	...	1	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...	1
	(D) Collapse of lung (3 months and over)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
95	Gangrene of the lung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
96	Asthma	3	1	3	1	1	4	...	1	...	1 (1)	...	14	7	7	...	...	...	...	...	...	6	8
97	Pulmonary emphysema	...	...	...	1	1	...	...	...	...	...	...	2	1	1	...	...	...	...	...	...	...	2
98	(A) Fibroid disease of lung	1	...	...	...	1	1	...	...	...	1	...	3	...	3	...	...	...	...	...	...	1	2
98	(B) Other diseases of the respiratory system	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
V.—Diseases of the Digestive System.																								
99	(A) Diseases of the teeth and gums	1	...	1	...	...	...	...	...	...	...	...	2	2	...	2	...	...	...	...	...	...	...
99	(B. C. D.) Other diseases of the mouth and annexa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(b) Thrush, Aphthous Stomatitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(c) Parotitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(d) Other diseases included under 99	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100	(A. B. C.) Diseases of pharynx, Tonsillitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Tonsillitis	1	1	2	...	2	...	...	...	...	...	...	6	3	3	...	...	2	1	...	2	1	...
	(B) Ludwig's angina	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(C) Other diseases of the pharynx	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
101	Diseases of œsophagus	...	...	...	...	...	1	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...	1
102	Perforating ulcer of stomach	...	2	1	...	2	1	...	...	...	1 (2)	1	6	6	...	...	...	...	...	...	...	6	...

103	(A) Inflammation of stomach	...	4	2	1	2	1	2	...	2 (2)	1	12	5	7	6	1	3	2
103	(B) Other diseases of the stomach	...	1	...	...	...	...	1	...	1	...	1	...	3	2	1	...	...	...	...	...	1	2
*104	(A B.C.D.E.F.G.H.) Diarrhoea and enteritis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
&	(A) Infective enteritis	...	...	...	...	...	...	1	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...
105	(B) Diarrhoea—Not returned as infective	...	1	2	1	2	2	3	1	...	...	3 (4)	...	12	6	6	10	1	...	1	...	...	...
	(C) Enteritis—Not returned as infective	...	4	2	1	...	1	1	...	...	1	4 (1)	...	10	5	5	6	...	...	...	...	1	3
	(D) Gastro-enteritis—Not returned as infective	...	1	1	...	...	8	1	...	2	...	3 (11)	...	13	9	4	10	2	...	...	...	...	1
	(E) Dyspepsia, under 2 years	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(F) Colic	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(G) Ulceration of intestines	...	1	...	...	...	...	...	1	...	1	...	2	...	2	...	...	...	...	1	...	1	...
	(H) Duodenal ulcer	...	1	...	...	1	...	...	...	...	(1)	...	2	1	1	...	...	...	...	1	...	1	...
106	Ankylostomiasis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
107	Other intestinal parasites	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
108	Appendicitis	...	3	2	2	1	1	2	3	...	...	10 (3)	...	14	6	8	...	...	4	2	4	3	1
109	(A) Hernia	...	2	...	1	2	1	3	...	1	...	3 (3)	2	10	5	5	1	...	...	...	...	4	5
109	(B) Intestinal obstruction	...	2	6	4	5	...	3	...	...	...	9	2	20	9	11	2	2	...	...	1	2	12
110	Other diseases of the intestines	...	...	...	...	...	...	...	...	...	...	(1)	...	...	...	...	...	...	...	...	...	...	...
111	Acute yellow atrophy of liver	...	1	1	...	...	...	...	1	...	2	...	3	2	1	...	...	...	...	1	2	...	...
112	Hydatid of liver	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
113	(A.B.C.) Cirrhosis of the liver	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Cirrhosis of the liver (not returned as alcoholic)	...	2	2	1	1	1	2	...	...	1	...	9	6	3	...	...	...	...	...	...	8	1
	(B) Cirrhosis of the liver (returned as alcoholic)	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	1	...
	(C) Diseases formerly classed to "Other diseases of liver and gall bladder"	...	1	...	...	...	...	...	...	...	1	...	1	1	...	...	...	...	...	...	...	1	...
114	Biliary calculi	...	...	...	...	1	1	...	...	...	...	...	2	1	1	...	...	...	...	...	...	1	1
115	Other diseases of the liver	...	1	...	...	3	...	...	...	...	(2)	1	4	1	3	...	...	...	1	...	...	1	2
116	(A.B.) Diseases of the spleen	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Infarction of spleen	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Other diseases of the spleen	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
117	Peritonitis (cause unstated)	...	...	1	...	1	1	...	...	...	1 (1)	...	3	1	2	...	...	...	...	...	...	3	...
118	(A.B.) Other diseases of the digestive system	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Abdominal abscess, Sub-phrenic abscess	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Other diseases included under 118	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE III—continued.

No.	CAUSE.	LOCALITIES.								Institution & Street Deaths which could not be distributed.	Total Institution Deaths distributed and not distributed.	Inquest Cases.	Total all Ages.	Males all Ages.	Females all Ages.	0-1.	1-5.	2-5.	5-15.	15-25.	25-45.	45-65.	65 and upwards.	
		West	North	Central.	East	South.	South Norwood.	Upper Norwood.	Thornton Heath.															
	VI. — <i>Non-Veneral Diseases of the Genito- Urinary System and Annexa.</i>																							
119	Acute nephritis	1	...	...	...	...	...	...	1	...	(2)	...	2	2	...	...	...	...	...	...	...	2	...	...
120	(A.B.) Bright's disease	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Bright's disease as in 1901 list...	8	3	4	8	4	5	3	3	...	7 (2)	1	38	20	18	...	...	...	1	...	4	14	19	...
	(B) Nephritis (unqualified), 10 years and over and Uræmia	3	4	2	1	2	2	1	...	...	6 (3)	...	15	8	7	...	...	...	1	...	6	4	4	...
121	Chyluria ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
122	(A.B.C.D.) Other diseases of the kidney and annexa	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Abscess of kidney ... ..	...	...	...	...	...	...	...	...	...	(1)	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Cystic disease ... ..	...	...	...	...	...	...	...	1	...	1	1	1	1	...	...	...	...	1	...	...	...	...	...
	(C) Suppression of urine ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(D) Other diseases included under 122	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
123	Calculi of the urinary passages ... ..	...	1	1	...	...	...	...	...	...	2	...	2	2	...	...	...	...	...	...	...	...	2	...
124	Diseases of the bladder	2	2	1	1	...	1	...	...	...	2 (2)	...	7	5	2	...	...	...	...	...	...	5	2	...
125	(A.B.) Diseases of the urethra, Urinary abscess, &c.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Perineal abscess ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Other diseases of urethra, &c. ... ..	...	...	...	...	1	...	...	1	...	2 (1)	...	2	2	...	...	...	...	...	...	...	...	2	...
126	Diseases of the prostate	2	1	1	1	1	...	...	...	...	(1)	...	6	6	...	...	...	...	...	...	...	...	6	...
127	Non-venereal diseases of male genital organs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
128	(A.B.) Uterine hæmorrhage (non-puerperal)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Menorrhagia ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Other uterine hæmorrhage ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
129	Uterine tumour (non-cancerous) ... ..	...	...	...	1	...	1	...	...	...	1	...	2	...	2	...	...	...	...	...	1	1	...	...

[illegible]

TABLE III—continued.

No.	CAUSE.	LOCALITIES.								Institution & Street Deaths which could not be distributed	Total Institution Deaths distributed and not distributed.	Inquest Cases.	Total all Ages.	Males all Ages.	Females all Ages.	0-1.	1-2.	2-5.	5-15.	15-25.	25-45.	45-65.	65 and upwards.
		West.	North.	Central.	East.	South.	South Norwood.	Upper Norwood.	Thornton Heath.														
	VIII.— <i>Diseases of the Skin and of the Cellular Tissue.</i>																						
142	(A) Senile gangrene ...	1			1		1			1	1	3	1	2								1	2
142	(B C.D.) Gangrene, other types																						
	(B) Noma, Gangrene of mouth																						
	(C) Noma pudendi																						
	(D) Other gangrene	1								1		1		1								1	
143	Carbuncle, Boil ...						1					1	1						1				
144	(A.B.) Phlegmon, acute abscess			1		1			2	1		4	2	2								3	1
	(A) Phlegmon									1		1		1							1		
	(B) Acute abscess	1																					
145	(A.B.C.D.) Diseases of the integumentary system																						
	(A) Ulcer, Bedsore																						
	(B) Eczema																						
	(C) Pemphigus						1		1	2 (1)		2	1	1	1		1						
	(D) Other disease of integumentary system					1	1					2	1	1			1			1			
	IX.— <i>Diseases of the Bones and of the Organs of Locomotion.</i>																						
145	Diseases of the bones	1	1	1						3		3	3					1	1			1	
147	Diseases of the joints	1								1	1	1	1						1				
148	Amputations																						
149	Other diseases of locomotor system									(1)													
	X.— <i>Malformations.</i>																						
150	(A.B.C.D.) Congenital malformations									(1)													
	(A) Congenital hydrocephalus																						
	(B) Phimosi																						
	(C) Congenital malformation of heart		2				1					3	2	1	2			1					
	(D) Other congenital malformations	2	3					2		3		7	5	2	7								

		XI.—Diseases of Early Infancy.																	
151	(A) Premature birth	19	9	4	...	7	11	4	7	...	7 (5)	1	61	33	28	61	...	...	...
151	(B.C.D.E.) Infantile debility, Icterus & Sclerema	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Infantile atrophy, debility and marasmus	10	7	4	6	8	5	5	3	4	19 (9)	...	52	33	19	52	...	...	...
	(C) Icterus neonatorum	...	2	...	...	1	2	...	...	...	...	...	5	1	4	5	...	...	...
	(D) Sclerema and oedema neonatorum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(E) Want of breast milk	...	...	1	...	...	...	...	...	...	1	...	1	1	...	1	...	...	...
152	(A.B.C.D.) Other diseases peculiar to early infancy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Diseases of umbilicus, &c.	...	...	...	...	1	...	...	...	...	...	...	1	1	...	1	...	...	...
	(B) Atelectasis	...	1	...	1	1	2	...	1	...	1	...	1	6	4	2	6	...	...
	(C) Injuries at birth	...	2	1	...	1	...	...	...	...	...	...	1	4	3	1	4	...	...
	(D) Cyanosis neonatorum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
153	Lack of care	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		XII.—Old Age.																	
154	(A.B.) Old age	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(A) Senile dementia	...	...	1	...	2	...	...	...	...	1	...	3	...	3	...	...	...	3
	(B) Senile decay	...	15	15	17	10	13	7	4	12	4 (11)	...	93	33	60	...	...	...	93
		XIII.—Affections produced by External Causes.																	
155	Suicide by poison	...	1	...	...	...	1	...	...	...	...	2	2	1	1	...	...	1	...
156	Suicide by asphyxia	...	2	...	1	...	2	1	...	...	(1)	6	6	1	5	...	...	2	1
157	Suicide by hanging or strangulation	...	...	2	...	1	...	...	...	...	...	3	3	2	1	...	...	...	1
158	Suicide by drowning	...	1	...	1	...	1	...	...	...	2	3	3	1	2	...	...	2	1
159	Suicide by firearms	...	...	...	...	...	...	1	1	...	1	2	2	2	...	...	...	2	...
160	Suicide by cutting and piercing instruments	...	...	...	1	...	...	...	...	...	...	1	1	...	1	...	...	1	...
161	Suicide by jumping from high place	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
162	Suicide by crushing	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
163	Other suicides	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
164	Poisoning by food	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
165	Other acute poisonings	...	...	...	...	...	...	...	...	...	(1)	...	...	...	...	...	...	...	...
166	Conflagration	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
167	Burns (conflagration excepted)	...	1	...	...	1	1	...	1	...	3 (1)	4	4	3	1	...	2	...	...
168	Absorption of deleterious gases (conflagration excepted)	...	1	...	1	...	1	...	1	...	1	4	4	1	3	3	...	...	1
169	Accidental drowning	...	...	1	...	...	...	5	...	...	5	6	6	4	2	...	3	...	1
170	Injury by firearms	...	...	...	...	...	...	1	...	...	...	1	1	1	...	...	...	...	1
171	Injury by cutting or piercing instruments	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE III—continued

No.	CAUSE.	LOCALITIES.								Institution & Street Deaths which could not be distributed.	Total Institution Deaths distributed and not distributed.	Inquest Cases.	Total all Ages.	Males all Ages.	Females all Ages.	0-1.	1-2.	2-5.	5-15.	15-25.	25-45.	45-65.	55 and upwards.
		West.	North.	Central.	East.	South.	South Norwood.	Upper Norwood.	Thornton Heath.														
172	Injury by fall ...	...	3	...	...	...	1	...	1	...	3	5	5	1	4	...	...	...	...	...	...	1	4
173	Injury in mines and quarries ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
174	Injury by machines ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
175	Injury by other crushing (vehicles, railways, landslides, &c.) ...	4	1	2	1	2	...	...	1	...	8 (6)	11	11	9	2	...	1	...	3	1	2	2	2
176	Injury by animals ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
177	Starvation ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
178	Excessive cold ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
179	Effects of heat ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
180	Lightning ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
181	Electricity (lightning excepted) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
182	Homicide by firearms ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
183	Homicide by cutting or piercing instruments ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
184	Homicide by other means ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
185	Fractures (cause not specified) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
186	Other violence ...	...	...	2	...	...	...	...	...	...	1	1	2	1	1	...	...	1	...	...	1	...	...
XIV.—Ill-Defined Causes.																							
187	Dropsy ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
188	(A) Syncope (aged 1 year and under 70) ...	2	...	...	...	1	...	...	...	...	1	...	3	2	1	...	...	...	...	...	2	1	...
188	(B) Sudden death (not otherwise defined) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
189	(A) Heart failure (aged 1 year and under 70) ...	3	1	2	...	...	...	...	...	...	...	1	6	...	6	...	...	...	...	...	2	3	1
189	(B.C.D.E.) Other ill-defined causes	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	(B) Atrophy, debility, marasmus (aged 1 year and under 70) ...	1	...	...	...	...	...	...	...	...	1 (2)	...	1	1	...	...	1	...	...	...	...	...	...
	(C) Teething ...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
	(D) Pyrexia ...	...	...	...	1	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	1
	(E) Other ill defined deaths ...	...	...	...	1	2	...	...	...	...	...	2	3	1	2	2	...	...	...	...	...	1	...
189	(F) Cause not specified ...	1	...	1	...	...	2	...	1	...	4	3	5	4	1	2	...	...	...	1	2	...	...
TOTALS		452	349	215	224	257	330	122	168	17	619 (299)	179	2134	1031	1103	275	44	56	99	83	260	509	808

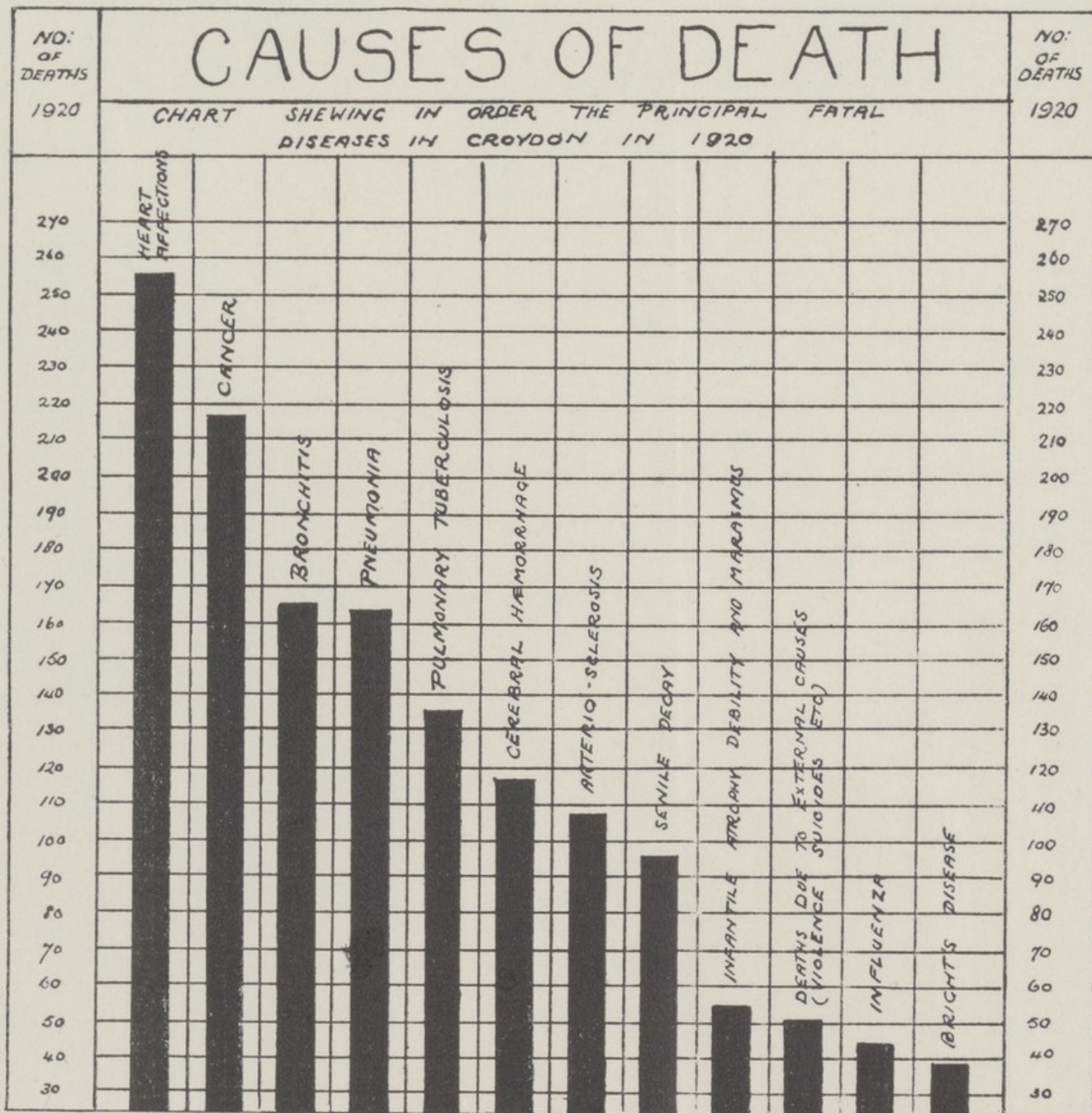
The total Institution Deaths include those of strangers occurring within the Borough. Deaths of such strangers occurring at the Workhouse, Workhouse Infirmary, Borough Hospital, General Hospital, Purley Cottage Hospital, Norwood Cottage Hospital, and 99, Central Hill (Servants' Reformatory), are excluded from all other columns of the Table. The numbers so excluded are in brackets.

TABLE IIIA.
DEATHS FROM INFLUENZA AND CERTAIN OTHER CONDITIONS 1920.

Week Ending.	Influenza.		Pneumonia.		Broncho- Pneumonia.		Phthisis.		Other Resp. Diseases.		Cerebro- Spinal Fever.		Measles.		Whooping Cough.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
January	3*	...	...	1	1	...	...	...	...	3	...	...	1	1	...	...
"	10	1	2	1	2	1	...	...	3	6	...	...	1	...	...	...
"	17	1	...	...	...	1	1	...	1	...	...	...	...	...	...	...
"	24	...	1	...	...	2	1	1	...	4	4	...	...	...	...	...
"	31	...	...	1	...	1	2	1	...	2	5	...	...	1	...	...
February	7	...	1	...	1	2	1	1	1	2	...	...	...	...	...	...
"	14	...	...	3	...	...	...	...	1	6	3	...	...	...	...	...
"	21	2	...	3	...	3	1	...	1	2	...	...	...	1	...	...
"	28	3	1	1	4	1	3	...	...	3	1	...	...	1	...	...
March	6	...	2	...	3	1	4	...	1	1	8	...	...	1	...	...
"	13	...	...	2	4	1	1	1	...	6	4	...	...	1	1	...
"	20	2	...	...	4	1	2	...	1	2	2	...	...	2	...	...
"	27	6	...	3	1	...	1	1	...	3	4	...	...	1	...	...
April	3	1	2	1	1	2	...	...	...	4	...	...	1	1	...	...
"	10	...	1	...	...	2	...	...	1	3	...	...	1	...	...	...
"	17	2	...	1	1	2	1	2	...	2	4	...	...	1	...	...
"	24	...	...	3	...	...	1	...	...	6	2	...	...	...	...	...
May	1	1	1	1	2	1	...	1	1	3	3	...	...	1	...	1
"	8	...	...	3	...	2	...	1	...	1	1	...	...	1	...	...
"	15	1	...	2	1	...	...	...	...	2	2	...	...	...	...	...
"	22	1	...	...	1	...	...	...	...	1	...	...	2	1	...	...
"	29	...	...	1	...	...	...	...	...	2	2	...	...	...	...	...
June	5	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
"	12	...	1	1	...	1	...	...	...	2	...	...	...	1	...	...
"	19	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...
"	26	...	...	2	...	...	...	...	...	1	1	...	...	...	...	...

TABLE IIIA.—Continued.

Week Ending.	Influenza.		Pneumonia.		Broncho- Pneumonia.		Phthisis.		Other Resp. Diseases.		Cerebro- Spinal Fever.		Measles.		Whooping Cough.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
July 3	1	...	...	...	...	...	3	1	...	...	...	...	...	...
" 10	1	1	...	1	1	...	...	...	...	...	...	...
" 17	1	1	...	...	...	...	...	1	...	...	...	...	...	...
" 24	1	...	...	...	...	...	...
" 31	1	...	...	...	...	...	...	...	...	...	...	...	...	...
August 7	1	...	...	...	...	1	2	...	...	...	...	...	...	...
" 14	...	1	1	...	...	...	1	1	...	1	...	...	...	...	...	...
" 21	...	1	...	...	2	...	...	...	1	...	...	...	...	...	...	...
" 28	...	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...
September 4	1	...	...	...	...	...	...	...	...	...	...	...	...	...
" 11	1	...	...	...	...	...	...	...
" 18	1	...	...	...	...	3	...	...	...	...	...	...	...
" 25	1	1	...	1	...	...	2	2	...	...	...	...	...	...
October 2	1	...	2	...	...	...	...	2	...	...	...	...	...	...
" 9	3	1	...	...	...	...	...	...
" 16	1	...	...	...	...	...	2	...	...	...	...	...	...
" 23	1	1	1	1	...	...	...	2	...	...	...	...	...	...
" 30	1	...	...	...	...	2	2	...	...	...	...	...	...
November 6	1	...	...	1	2	...	1	...	2	2	...	...	...	...	...	...
" 13	1	...	...	2	3	...	...	...	...	...	...
" 20	...	2	2	2	...	2	1	...	...	2	...	...	...	...	...	1
" 27	1	...	1	...	2	1	...	...	3	4	...	...	...	...	...	...
December 4	1	...	...	...	...	...	...	2	...	...	...	...	...	...
" 11	...	1	2	...	...	1	...	...	5	2	...	...	...	...	...	...
" 18	1	1	1	...	1	3	5	...	...	...	...	...	...
" 25	1	...	2	2	3	2	1	...	3	6	...	...	...	...	...	...
January 1, 1921	3	...	1	1	...	...	2	3	...	...	...	...	...	...
	25	18	52	39	36	33	14	10	93	110	...	...	13	9	1	1



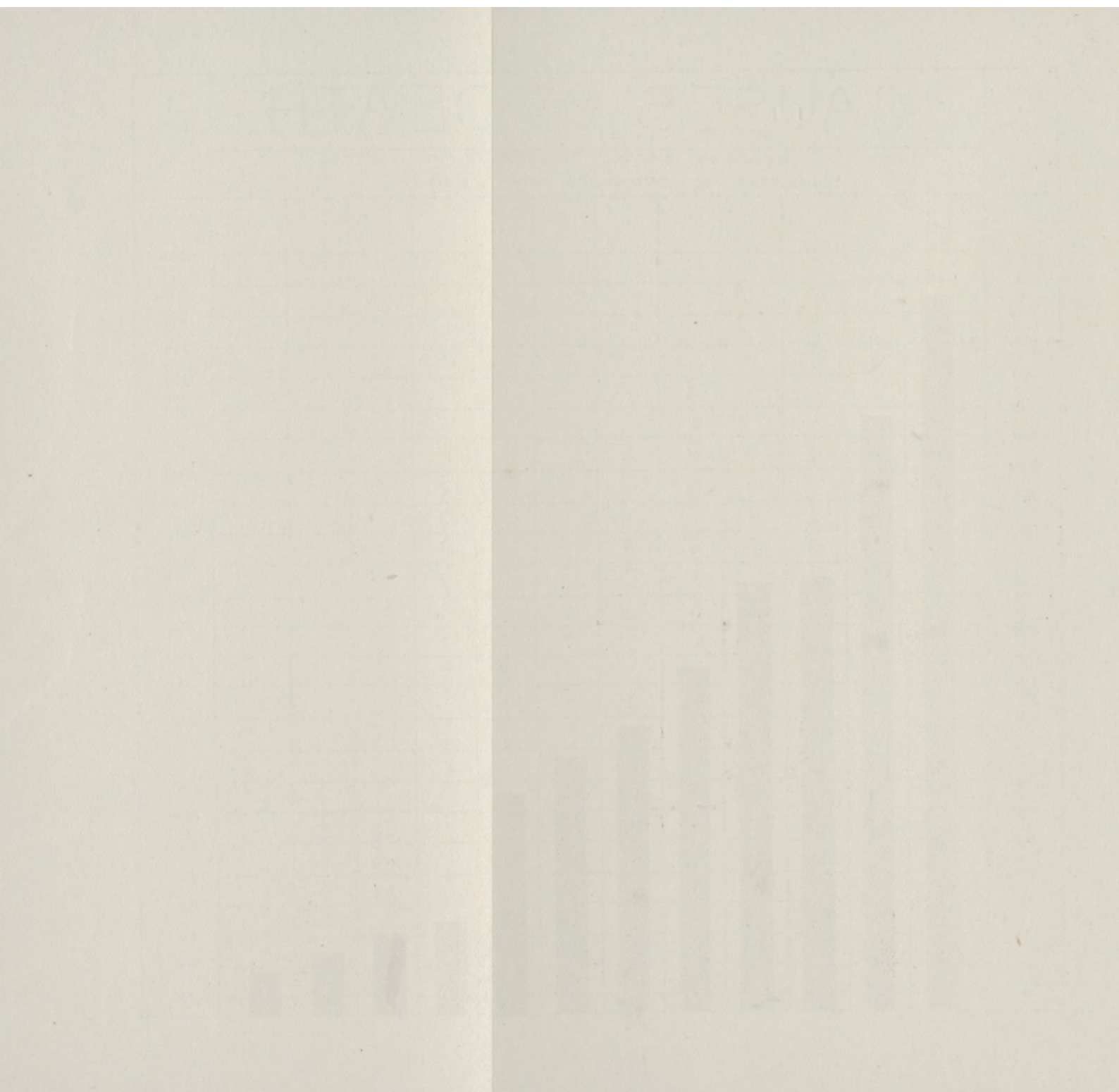


TABLE IV.
County Borough of Croydon—Whole Borough.
 INFANT MORTALITY.

1920. Nett Deaths from stated causes at various Ages under One Year of Age.

CAUSES OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths under 1 Year.
All Causes.										
Certified	79	27	15	18	139	65	33	24	14	275
Uncertified ... ..	...	...	...	...	...	...	...	...	..	..
Small-pox ... ..	...	...	...	...	...	...	...	...	...	...
Chicken-pox ... ..	...	...	...	...	...	...	...	...	...	...
Measles ... ..	...	...	...	...	...	...	...	1	2	3
Scarlet Fever ... ..	...	...	...	...	...	...	...	...	...	...
Whooping Cough ... ..	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup ... ..	...	...	...	...	...	...	...	...	...	...
Erysipelas ... ..	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis ... ..	...	...	...	...	...	...	1	...	2	3
Abdominal Tuberculosis ... ..	...	...	...	...	...	1	...	...	...	1
Other Tuberculous Diseases	1	...	...	...	1	...	...	...	...	1
Meningitis (<i>not Tuberculous</i>) ... ..	...	1	...	1	2	...	1	...	...	3
Convulsions	3	5	1	1	10	5	1	1	...	17
Laryngitis ... ..	...	...	...	...	...	...	...	...	...	...
Bronchitis ... ..	...	1	1	...	2	6	8	5	2	23
Pneumonia (all forms) ... ..	...	1	3	2	6	12	4	3	5	30
Diarrhoea ... ..	...	2	...	1	3	4	1	2	...	10
Enteritis and Gastro Enteritis	1	...	1	..	2	6	4	5	...	17
Gastritis	1	2	...	1	4	2	...	...	...	6
Syphilis... ..	...	1	...	...	1	3	...	...	...	4
Rickets ... ..	...	...	...	...	...	...	...	...	...	...
Asphyxiation, overlying ... ..	...	...	1	...	1	1	...	...	...	2
Injury at Birth	4	...	...	...	4	...	...	...	...	4
Pneumothorax	5	...	...	1	6	...	...	...	...	6
Congenital Malformations	4	1	...	...	5	3	1	...	...	9
Premature Birth	41	5	5	5	56	2	1	1	1	61
Atrophy, Debility and Marasmus	12	4	2	5	23	17	7	4	1	52
Other causes	7	4	1	1	13	3	4	2	1	23
	79	27	15	18	139	65	33	24	14	275

Births in the year { legitimate 4228.
 illegitimate 206.

Nett Deaths in the year of { legitimate infants, 244*
 illegitimate infants 31.

TABLE IV.—*Continued.*
County Borough of Croydon—West Ward.
 INFANT MORTALITY.

1920. Nett Deaths from stated causes at various Ages under One Year of Age.

CAUSES OF DEATH.	Under 1 Week	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths Under 1 Year.
All Causes.										
Certified	24	5	3	2	34	9	11	11	6	71
Uncertified .. ..	...	...	...	...	...	...	...	...	...	...
Small-pox ... ..	...	...	...	...	...	...	...	...	...	...
Chicken-pox ... ..	...	...	...	...	...	...	...	...	...	...
Measles ... ..	...	...	...	...	...	...	...	...	...	...
Scarlet Fever ... ..	...	...	...	...	...	...	...	...	...	...
Whooping Cough ... ..	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup ... ..	...	...	...	...	...	...	...	...	...	...
Erysipelas ... ..	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis ... ..	...	...	...	...	...	...	1	...	1	2
Abdominal Tuberculosis ... ..	...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases ... ..	...	...	...	...	...	...	...	...	...	...
Meningitis (<i>not Tuberculous</i>) ... ..	...	1	...	...	1	...	1	...	...	2
Convulsions	1	1	...	...	2	1	...	1	...	4
Laryngitis ... ..	...	...	...	...	...	...	...	...	...	...
Bronchitis ... ..	...	...	...	...	...	2	5	4	1	12
Pneumonia (all forms) ... ..	...	...	...	...	...	2	...	2	2	6
Diarrhœa ... ..	...	...	...	...	...	...	1	...	...	1
Enteritis and Gastro Enteritis	1	...	1	...	2	...	...	2	...	4
Gastritis ... ..	...	...	...	...	...	...	...	...	...	...
Syphilis ... ..	...	...	...	...	...	...	...	...	...	...
Rickets ... ..	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying ... ..	...	...	...	...	...	1	...	...	...	1
Injury at Birth	2	...	...	...	2	...	...	...	...	2
Atelectasis	1	...	...	...	1	...	...	...	...	1
Congenital Malformations	1	...	...	...	1	...	1	...	...	2
Premature Birth	14	2	1	1	18	1	...	...	...	19
Atrophy, Debility and Marasmus	3	1	...	1	5	2	1	1	1	10
Other causes	1	...	1	...	2	...	1	1	1	5
	24	5	3	2	34	9	11	11	6	71

Births in the year { legitimate, 1207.
 { illegitimate, 52,

Nett Deaths in the year { legitimate infants, 65.
 { illegitimate infants, 6,

TABLE IV.—*Continued.*
County Borough of Croydon—North Ward.
 INFANT MORTALITY.

1920. Nett Deaths from stated causes at various Ages under One Year of Age.

CAUSES OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths under 1 Year.
All Causes.										
Certified	14	6	4	1	25	13	2	1	4	45
Uncertified .. .. .	...	...	...	...	...	...	...	...	...	...
Small-pox .. .. .	...	...	...	...	...	...	...	...	...	...
Chicken-pox .. .. .	...	...	...	...	...	...	...	...	...	...
Measles... .. .	...	...	...	...	...	...	...	...	...	...
Scarlet Fever .. .. .	...	...	...	...	...	...	...	...	...	...
Whooping Cough .. .. .	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup... .. .	...	...	...	...	...	...	...	...	...	...
Erysipelas .. .. .	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis .. .. .	...	...	...	...	...	...	...	...	1	1
Abdominal Tuberculosis .. .. .	...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases .. .. .	...	...	...	...	...	...	...	...	...	...
Meningitis (<i>not Tuberculous</i>) .. .. .	...	...	...	...	...	...	...	...	...	...
Convulsions	1	...	...	1	2	...	...	...	...	2
Laryngitis .. .. .	...	...	...	...	...	...	...	...	...	...
Bronchitis .. .. .	...	1	...	...	1	1	...	...	1	3
Pneumonia (all forms) .. .. .	...	...	1	...	1	...	...	...	2	3
Diarrhoea .. .. .	...	1	...	...	1	1	...	...	...	2
Enteritis and Gastro Enteritis .. .. .	...	...	...	...	...	2	1	...	...	3
Gastritis	1	...	...	...	1	1	...	...	...	2
Syphilis... .. .	...	1	...	...	1	...	...	...	...	1
Rickets .. .. .	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying .. .. .	...	...	...	...	...	...	...	...	...	...
Injury at Birth... .. .	1	...	...	...	1	...	...	...	...	1
Atelectasis .. .. .	...	...	...	...	...	...	...	...	...	...
Congenital Malformations	2	...	...	...	2	3	...	...	...	5
Premature Birth	6	2	1	...	9	...	...	...	...	9
Atrophy, Debility and Marasmus	1	1	2	...	4	5	...	1	...	10
Other causes	2	...	...	...	2	...	1	...	...	3
	14	6	4	1	25	13	2	1	4	45

Births in the year { legitimate 685.
 illegitimate 64.

Nett Deaths in the year { legitimate infants 44.
 illegitimate infants 1.

TABLE IV.—*Continued*
County Borough of Croydon—Central Ward.

INFANT MORTALITY.

1920. Nett Deaths from stated causes at various Ages under One Year of Age.

CAUSES OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths Under One Year.
All Causes.										
Certified	5	...	1	2	8	5	6	...	1	20
Uncertified
Small-pox
Chicken-pox
Measles	1	1
Scarlet Fever
Whooping Cough
Diphtheria and Croup
Erysipelas
Tuberculous Meningitis
Abdominal Tuberculosis
Other Tuberculous Diseases
Meningitis (<i>not Tuberculous</i>)
Convulsions
Laryngitis
Bronchitis	1	...	...	...	1
Pneumonia (all forms)	3	...	...	3
Diarrhœa	1	1	...	...	...	...	1
Enteritis and Gastric Enteritis	1	...	...	...	1
Gastritis
Syphilis	1	...	...	...	1
Rickets
Suffocation, everlying
Injury at Birth
Atelectasis	1	...	...	...	1	...	...	...	...	1
Congenital Malformations
Premature Birth	2	...	1	...	3	...	1	...	...	4
Atrophy, Debility and Marasmus	2	...	...	...	2	1	1	...	...	4
Other causes	1	1	1	1	...	...	3
	5	...	1	2	8	5	6	...	1	20

Births in the year { legitimate, 321.
illegitimate, 6.

Nett Deaths in the year { legitimate infants, 17.
illegitimate infants, 3.

TABLE IV.—*Continued.*
County Borough of Croydon—East Ward.
 INFANT MORTALITY.

1920. Nett Deaths from stated Causes at various ages under One Year of Age.

CAUSES OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths under 1 Year.
All Causes.										
Certified	5	1	...	1	7	8	1	...	...	16
Uncertified
Small-pox
Chicken-pox
Measles
Scarlet Fever
Whooping Cough
Diphtheria and Croup
Erysipelas
Tuberculous Meningitis
Abdominal Tuberculosis
Other Tuberculous Diseases...
Meningitis (<i>not Tuberculous</i>)
Convulsions
Laryngitis
Bronchitis
Pneumonia (all forms)	1	1	3	...	...	...	4
Diarrhoea	1	...	...	...	1
Enteritis
Gastritis	1	...	...	1	...	...	...	...	1
Syphilis	1	...	...	...	1
Rickets...
Suffocation, overlying
Injury at Birth
Atelectasis	1	...	...	...	1	...	...	...	...	1
Congenital Malformations
Premature Birth
Atrophy, Debility and Marasmus	2	...	...	...	2	3	1	...	...	6
Other causes	2	...	...	...	2	...	...	...	...	2
	5	1	...	1	7	8	1	...	...	16

Births in the year { legitimate, 402.
 illegitimate, 8,

Nett Deaths in the year { legitimate infants, 15.
 illegitimate infants, 1,

TABLE IV.—*Continued.**County Borough of Croydon—South Ward.*

INFANT MORTALITY.

1920. Nett Deaths from stated Causes at various Ages under One Year of Age.

CAUSES OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths Under 1 Year.
All Causes.										
Certified	4	3	1	6	14	8	5	4	2	33
Uncertified
Small-pox
Chicken-pox
Measles	1	1
Scarlet Fever
Whooping Cough
Diphtheria and Croup
Erysipelas
Tuberculous Meningitis
Abdominal Tuberculosis
Other Tuberculous Diseases
Meningitis (<i>not Tuberculous</i>)
Convulsions
Laryngitis
Bronchitis	1	...	1	1	...	...	...	2
Pneumonia (all forms)	1	1	1	...	...	...	2
Diarrhœa	1	...	1
Enteritis and Gastro Enteritis	2	3	1	...	6
Gastritis
Syphilis
Rickets
Suffocation, overlying
Injury at birth	1	...	...	...	1	...	...	...	...	1
Atelectasis
Congenital Malformations
Premature Birth	2	...	...	3	5	...	...	1	1	7
Atrophy, Debility, and Marasmus	1	...	...	2	3	3	2	1	...	9
Other causes	3	...	...	3	1	...	...	...	4
	4	3	1	6	14	8	5	4	2	33

Births in the year { legitimate, 350.
 { illegitimate, 22.

Nett Deaths in the year { legitimate infants, 19.
 { illegitimate infants, 14.

TABLE IV.—*Continued.*
County Borough of Croydon—South Norwood.
 INFANT MORTALITY.

1920. Net Deaths from stated Causes at various Ages under One Year of Age.

CAUSES OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths Under 1 Year.
All Causes.										
Certified	14	7	1	3	25	13	2	4	1	45
Uncertified ... ..	...	...	...	...	...	...	...	...	...	...
Small-pox ... ..	...	...	...	...	...	...	...	...	...	...
Chicken-pox ... ..	...	...	...	...	...	...	...	...	...	...
Measles ... ..	...	...	...	...	...	...	...	1	...	1
Scarlet Fever ... ..	...	...	...	...	...	...	...	...	...	...
Whooping Cough ... ..	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup ... ..	...	...	...	...	...	...	...	...	...	...
Erysipelas ... ..	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis ... ..	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis ... ..	...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases... ..	...	...	...	...	...	...	...	...	...	...
Meningitis (<i>not Tuberculous</i>) ... ..	...	...	...	1	1	...	...	...	...	1
Convulsions	1	3	...	...	4	3	...	...	...	7
Laryngitis ... ..	...	...	...	...	...	...	...	...	...	...
Bronchitis ... ..	...	...	...	...	...	1	...	...	...	1
Pneumonia (all forms) ... ..	...	...	...	...	...	2	...	...	1	3
Diarrhoea ... ..	...	1	...	...	1	2	...	...	...	3
Enteritis and Gastro Enteritis ... ..	...	...	...	...	...	...	...	2	...	2
Gastritis ... ..	...	1	...	...	1	...	...	...	...	1
Syphilis ... ..	...	...	...	...	...	1	...	...	...	1
Rickets ... ..	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying ... ..	...	...	1	...	1	...	...	...	...	1
Injury at Birth ... ..	...	...	...	...	...	...	...	...	...	...
Atelectasis	1	...	...	1	2	...	...	...	...	2
Congenital Malformations ... ..	...	...	...	...	...	...	...	...	...	...
Premature Birth	9	1	...	...	10	1	...	...	...	11
Atrophy, Debility and Marasmus	1	...	...	1	2	2	1	...	...	5
Other causes	2	1	...	...	3	1	1	1	...	6
	14	7	1	3	25	13	2	4	1	45

Births in the year { legitimate, 636.
 { illegitimate, 33.

Net Deaths in the year { legitimate infants, 41.
 { illegitimate infants, 4.

TABLE IV.—*Continued.*
County Borough of Croydon—Upper Norwood.
 INFANT MORTALITY.

1920. Nett Deaths from stated Causes at various Ages under One Year of Age.

CAUSES OF DEATH.					Under 1 Week	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths Under 1 Year.
All Causes.														
Certified	...	...	...	...	5	2	1	2	10	1	2	3	...	16
Uncertified	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chicken-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Meningitis (<i>not Tuberculous</i>)	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Convulsions	...	...	...	...	...	...	...	...	...	1	1	...	...	2
Laryngitis	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Bronchitis	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Pneumonia (all forms)	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Diarrhoea	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Enteritis and Gastric Enteritis	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gastritis	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Syphilis	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rickets	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Injury at birth	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atelectasis	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Congenital Malformations	...	...	...	...	1	1	...	...	2	...	...	...	...	2
Premature Birth	...	...	...	...	2	...	1	1	4	...	...	...	...	4
Atrophy, Debility, and Marasmus	...	...	...	...	2	1	...	1	4	...	1	...	...	5
Other causes	...	...	...	...	...	...	...	...	...	...	...	...	...	...
					5	2	1	2	10	1	2	3	...	16

Births in the year { legitimate, 193.
 { illegitimate, 8.

Nett Deaths in the year { legitimate infants, 15.
 { illegitimate infants, 1.

TABLE IV.-- *Continued.*
County Borough of Croydon—Thornton Heath.

INFANT MORTALITY.

1920. Nett Deaths from stated Causes at various Ages under One Year of Age.

CAUSES OF DEATH.					Under 1 Week	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Month.	1-3 Months.	3-6 Months.	6-9 Months.	9-12 Months.	Total Deaths Under 1 Year.
All Causes.														
Certified	...	...	...	...	8	3	4	1	16	8	4	1	...	29
Uncertified	...	...	...	...	...	...	...	...	...	...	...	...	...	—
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chicken-pox	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria and Croup...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Abdominal Tuberculosis	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Other Tuberculous Diseases	...	...	...	...	1	...	...	...	1	...	...	...	...	1
Meningitis (<i>not Tuberculous</i>)	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Convulsions	...	...	...	...	...	1	1	...	2	...	...	...	...	2
Laryngitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bronchitis	...	...	...	...	...	...	...	...	...	...	3	...	...	3
Pneumonia (all forms)	...	...	...	...	...	1	2	...	3	4	1	...	...	8
Diarrhoea	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteritis and Gastric Enteritis	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Gastritis	...	...	...	...	...	...	...	1	1	1	...	...	...	2
Syphilis	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rickets	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Injury at Birth	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atelectasis	...	...	...	...	1	...	...	...	1	...	...	...	...	1
Congenital Malformations	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Premature Birth	...	...	...	...	6	...	1	...	7	...	...	...	...	7
Atrophy, Debility and Marasmus	...	...	...	...	...	1	...	...	1	1	...	1	...	3
Other causes	...	...	...	...	...	...	...	...	...	...	...	...	...	...
					8	3	4	1	16	8	4	1	...	29

Births in the year { legitimate, 434.
 illegitimate, 13.

Nett Deaths in the year { legitimate infants, 28.
 illegitimate infants, 1.

TABLE V.

Table showing the number of cases notified and deaths from the principal zymotic diseases for the Year 1920 and ten preceding Years.

	DISEASE.	1920.		1919.		1918.		1917.		1916.		1915.		1914.		1913.		1912.		1911.		1910.	
		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Notifiable.	Cerebro-Spinal Meningitis ..	3	3	4	..	25	1	18	..	29	1	24	9	..	..	..	..	..	..	..	..	..	..
	Poliomyelitis ..	1	1	2	..	..	..	1	..	2	..	4	1	..	..	..	..	..	..	..	..	..	..
	Small Pox ..	..	..	9	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Scarlet Fever ..	638	7	603	11	414	6	191	2	297	4	414	5	748	5	470	3	476	2	468	7	759	7
	Diphtheria and (1) Memb.Croup	558	26	429	36	179	2	191	9	312	4	195	14	226	18	451	16	767	25	514	37	267	21
	(2) Erysipelas ..	74	3	61	2	44	3	56	3	52	1	82	3	96	7	107	6	84	6	79	5	69	1
	Puerperal Fever ..	14	6	4	3	4	3	3	1	7	1	12	5	9	3	6	4	10	3	12	4	8	1
	Enteric Fever ..	12	4	5	..	15	2	6	..	13	..	22	3	20	5	32	6	32	7	24	7	26	..
	Simple Continued Fever ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Tuberculosis (3) ..	480	195	440	217	378	204	397	157	326	223	550	238	503	192	519	202	312	140	240	165	130	135
Non-notifiable.	Measles (4) ..	1	..	22	501	3	1057	2	2944	29	462	..	108	..	8	..	58	..	31	..	29	..	31
	Rubella ...	1	..	..	..	93	..	2439	..	636	..	..	..	..	..	..	..	..	..	..	..	..	..
	Diarrhoea and Enteritis ..	..	..	36	..	24	..	48	..	41	..	50	..	62	..	67	..	85	..	58	..	147	..
	Whooping Cough ..	..	..	2	..	1	..	10	..	9	..	27	..	12	..	24	..	23	..	13	..	38	..
	Influenza ..	..	..	43	..	139	..	478	..	20	..	46	..	45	..	15	..	26	..	18	..	14	..
	Bronchitis, *Pneumonia, and Pleurisy ..	..	..	335§	185†	353†	..	362	..	302	..	329	..	399	..	313	..	297	..	250	..	280	..

(1) Notifiable since May, 1897.

(2) Notifiable since January, 1900.

(3) Voluntary Notification, 1901-09.

Poor Law Cases, Compulsorily

Notifiable since 1st Jan., 1909.

Cases Treated in Hospital, Compulsorily Notifiable since 1st May, 1911.

All cases of Pulmonary Tuberculosis

notifiable since 1st January, 1912.

All forms of Tuberculosis notifiable since 1st February, 1913.

(4) Not now notifiable.

* Notifiable, i.e., acute primary pneumonia and influenzal pneumonia only.

† Pneumonia only.

‡ 136 Pneumonia.

§ Bronchitis 163, Broncho-Pneumonia 69, Pneumonia 91, Pleurisy 12=335.

In the above Table deaths of Non-residents occurring at the Workhouse, Workhouse Infirmary, Borough Hospital, General Hospital, Norwood Cottage Hospital, Purley Cottage Hospital, and 99, Central Hill (Servants Reformatory), are excluded. Prior to 1903 correction was only made for the first three institutions.

TABLE VI.—Vital Statistics of separate Wards in 1920 and previous years.

Names of Localities.	1. North Ward.				2. West Ward.				3. Central Ward.				4. East Ward.				5. South Ward.				6. South Norwood Ward.				7. Upper Norwood Sub-Division.				8. Thornton Heath Sub-Division.				9. Undistributed Institution Births and Deaths.				
Year	Population estimated to middle of each year.	Births Registered.	Deaths at all ages.	Deaths under 1 Year.	Population estimated to middle of each year.	Births Registered.	Deaths at all ages.	Deaths under 1 Year.	Population estimated to middle of each year.	Births Registered.	Deaths at all ages.	Deaths under 1 Year.	Population estimated to middle of each year.	Births Registered.	Deaths at all ages.	Deaths under 1 Year.	Population estimated to middle of each year.	Births Registered.	Deaths at all ages.	Deaths under 1 Year.	Population estimated to middle of each year.	Births Registered.	Deaths at all ages.	Deaths under 1 Year.	Population estimated to middle of each year.	Births Registered.	Deaths at all ages.	Deaths under 1 Year.	Population estimated to middle of each year.	Births Registered.	Deaths at all ages.	Deaths under 1 Year.					
	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d	a	b	c	d					
1910	54,458	1480	693	140	17,478	298	179	21	19,736	404	195	33	20,943	376	180	30	24,651	548	239	45	8,888	139	102	6	18,831	474	168	47	..	82	27	..	
1911	..	29,701	691	275	51	33,592	800	473	107	16,167	295	199	31	20,175	377	217	42	18,998	360	209	42	25,609	572	325	65	8,128	112	105	10	18,081	430	190	43	..	111	29	3
1912	..	30,450	685	273	46	34,064	820	436	88	16,110	298	190	25	20,743	417	199	27	19,111	370	203	24	26,228	577	281	39	8,115	131	103	14	18,527	416	174	35	..	140	34	..
1913	..	31,117	781	340	69	36,424	860	451	90	16,070	332	216	36	21,923	402	226	37	19,226	337	234	37	26,850	594	319	54	8,102	112	98	8	18,982	425	182	37	..	107	21	..
1914	..	31,860	729	302	45	37,302	841	490	95	16,021	290	175	27	21,837	468	214	32	19,690	353	218	28	27,498	628	304	42	8,298	109	101	10	19,441	496	159	40	..	113	21	..
1915	..	30,693	669	451	52	36,276	844	533	82	15,985	264	236	25	21,236	447	254	31	19,148	308	248	29	26,732	559	348	43	8,000	144	90	7	18,006	385	208	38	..	79	18	..
1916	..	30,659	729	550	44	35,935	769	488	97	15,949	216	182	14	21,041	458	203	21	18,970	309	190	19	26,485	589	245	33	7,905	112	115	9	18,731	377	158	36	..	61	19	..
1917	..	32,810	656	597	56	38,406	634	468	65	16,036	197	186	23	22,515	357	212	22	20,276	248	172	23	28,392	451	252	22	8,664	81	91	4	20,019	312	182	34	..	60	44	..
1918	..	2,562	516	665	42	34,604	704	582	57	14,449	205	200	13	20,340	503	298	30	18,268	232	211	17	2,492	349	292	19	7,717	84	118	3	18,039	239	171	21	..	66	6	..
1919	..	32,330	570	382	35	37,845	850	444	60	15,802	239	203	20	22,245	281	273	30	19,970	250	236	21	27,879	439	308	25	8,440	110	116	8	19,719	269	197	17	..	50	19	..
Averages of Years 1909 to 1918.	16,167	260	197	24	20,813	403	221	32	19,526	326	206	27	26,203	552	287	40	8,175	117	102	8	18,772	401	178	37	..	91	24	0.2	
Averages of Years 1911 to 1918.	..	30,895	660	433	51	35,938	778	493	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Averages of Years 1904 to 1910 inclusive.	50,541	1476	718	173	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1920	..	33,618	665	349	45	39,353	1250	452	71	16,432	327	215	20	23,132	410	224	16	21,775	372	257	33	28,960	669	330	45	8,776	201	122	16	20,504	447	168	59	..	84	17	..

NOTES.—Deaths of residents occurring beyond the district are included in sub-columns C of this table, and those of non-residents occurring at the Workhouse, Workhouse Infirmary, Borough Hospital, General Hospital, Norwood Cottage Hospital, Purley Cottage Hospital, and 99, Central Hill (Servants' Reformatory) are excluded.

Deaths of residents occurring in Public Institutions are allotted to the respective localities, according to the addresses of the deceased, and all deaths of Croydon residents whose exact home could not be ascertained, are included in Block 9.

* Including North Ward.

TABLE VII.
METEOROLOGICAL RECORD—YEAR 1920.

Rain Gauge 5-in. in diameter, 1-ft. above ground, 146-ft. above sea level. Temperature taken in the shade of a Stevenson's Screen, 4-ft. from the ground. The Ground Thermometer is suspended in an iron tube, the bulb being 4-ft. *below* the level of the ground.

Months 1920.	Temperature of Air during the Month.				Mean Temperature of Air.	Difference from average 50 years at Greenwich.	Mean Temperature of Ground at 4-ft.	Mean Temperature of the Dew Point.	Mean Tensional Difference between Ground and Dew Point	Rainfall.		
	Highest.	Lowest.	Mean of							No. of Days on which Rain fell.	Amount in Inches.	Difference from average 90 years at Greenwich
			All Highest.	All Lowest.								
January ..	56°	22°	47°·6	39°·3	43°·4	+ 5°·0	43°·6	37°·9	in. —·049	13	in. 2·30	in. + 0·51
February..	62°	28°	50°·6	37°·9	44°·2	+ 7°·7	43°·5	41°·2	—·022	8	0·53	— 1·0
March ..	67°	25°	54°·0	37°·8	45°·8	+ 4°·1	43°·9	41°·9	—·015	15	1·66	+ 0·15
April ..	64°	34°	54°·5	42°·4	48°·4	+ 1°·0	47°·4	44°·8	—·028	22	2·43	+ 1·83
May ..	80°	33°	65°·3	45°·7	55°·5	+ 2°·3	49°·7	49°·6	NIL	7	0·39	— 1·49
June ..	77°	36°	69°·9	51°·2	60°·5	+ 1°·0	55°·5	55°·9	+·011	10	1·92	— 0·11
July ..	76°	45°	66°·7	52°·1	59°·4	— 3°·2	57°·3	56°·5	—·011	17	3·65	+ 1·24
August ..	74°	41°	66°·0	50°·1	58°·0	— 3°·6	56°·9	55°·1	—·026	7	1·55	— 0·83
September	74°	41°	65°·3	48°·4	56°·8	— 0°·2	55°·4	55°·0	—·009	12	2·84	+ 0·64
October ..	75°	31°	61°·9	44°·6	53°·2	+ 3°·8	54°·1	51°·0	—·035	9	0·88	— 1·85
November	58°	23°	50°·5	34°·4	42°·4	— 1°·0	48°·2	42°·2	—·062	13	1·16	— 1·13
December	56°	13°	44°·4	37°·0	40°·7	+ 1°·0	44°·5	40°·1	—·036	20	1·98	+ 0·04
Means and Totals for the Year.	80°	13°	58°·0	43°·4	50°·7	+ 1°·1	50°·0	47°·6	—·023	153	21·29	— 2·99

The Rainfall for the Year was 5·15 inches *below* the average of 54 years at Croydon, and the number of days on which it rained was 153 or 10 days *below* the average.

H. CORDEN,
Croydon.

TABLE VIIA.

Prevailing direction of the Wind at Croydon in 1920.

Number of Days each Month.

1920.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	N.
January	4	...	1	4	17	3	1	1
February	5	2	3	1	16	2	...	...
March ... ..	...	3	2	3	15	5	3	...
April ... ..	...	1	...	...	22	4	2	1
May ... ..	...	2	4	2	16	4	3	...
June	2	4	5	1	7	5	1	5
July ... ..	...	...	...	3	14	12	1	1
August	4	2	...	2	3	10	4	6
September	1	3	3	2	7	10	2	2
October ... ..	...	16	4	10	1	...	...	...
November ... ..	...	6	4	6	6	3	4	1
December	6	2	1	4	8	2	4	4
TOTALS	22	41	27	38	132	60	25	21
	63		65		192		46	

The 10 years average 1867 to 1876, as embodied in Paper on 10 years Meteorology at Croydon, read to the Croydon Microscopical and Natural History Club, was:—

N.E. and E. Winds, yearly average	...	...	93.7
S.E. and S. " " "	...	...	63.7
S.W. and W. " " "	...	...	131.9
N.W. and W. " " "	...	...	73.8

H. CORDEN,

Croydon.

SECTION III.

MATERNITY AND CHILD WELFARE.

Infantile Mortality is measured by the proportion of deaths under one year to 1,000 births, and amounted to 63, as compared with 73 in 1919, 76 in 1918, 87 in 1917, 77 in 1916, 83 in 1915, 79 in 1914, 94 in 1913, 77 in 1912, 105 in 1911, 87 in 1910, 79 in 1909, 99 in 1908. During the year of 1920 the rate for England and Wales was 80, while in the 96 large towns it was 85, and in the 148 smaller towns 80, and in London 75.

The infant mortality rate of 63 is a record low rate for the borough by no fewer than 10 points.

The figures for the various Wards were:—

		<i>Deaths under 1 year.</i>	<i>Death-rate per 1000 Births (all causes).</i>	<i>Death-rate per 1000 births from 'diarrhoeal' diseases.</i>
Upper Norwood Sub-division	201	16	79	5
North Ward	749	45	60	7
Thornton Heath Sub-division	447	29	65	2
East Ward	410	16	39	2
Borough	4434	275	63	7
Central Ward	327	20	61	6
South Ward	372	33	88	19
West Ward	1259	71	56	4
South Norwood Ward ...	669	45	67	8

The following table shows the fluctuations since 1892 in the infantil mortality from "all causes," from "diarrhoeal diseases," and from "causes other than diarrhoeal."

<i>Years.</i>	<i>Total Infantile Mortality from all causes.</i>	<i>Infantile Mortality from "diarrhoeal" diseases.</i>	<i>Infantile Morality from other than "diarrhoeal" diseases.</i>
1893—1897 ...	142	25	117
1898—1902 ...	143	38	105
1903 ...	104	9	95
1904 ...	128	29	99
1905 ...	96	14	82
1906 ...	125	42	83
1907 ...	94	10	84
1908 ...	99	12	87
1909 ...	79	7	72
1910 ...	87	10	77
1911 ...	105	33	72
1912 ...	77	11	66
1913 ...	94	16	78
1914 ...	79	12	67
1915 ...	83	8	75
1916 ...	77	7	70
1917 ...	87	12	75
1918 ...	76	7	69
1919 ...	73	6	67
1920 ...	63	7	56

Diarrhoea and Epidemic Enteritis.

Deaths classified in the tables supplied by the Registrar-General as *diarrhœa*, *epidemic enteritis*, *enteritis* and *gastro-enteritis*, have been included as "diarrhœal" deaths: as this classification corresponds with that adopted in former years, comparisons made on the resultant figures are valid.

During 1920 diarrhœa and epidemic enteritis accounted for 10 deaths of infants under one year of age, 17 others being due to enteritis or gastro-enteritis, making a total of 27 deaths from "diarrhœal" diseases. A further 9 deaths at ages from one year and upwards were due to these diseases.

Infant Centres.

The Borough Centre is held in the same place—228, London Road—as the School Treatment Centre and the Spinal Remedial Class and Sick Nursery. The Infant Centre work consists of two medical consultations weekly on Monday and Thursday afternoons. At the medical consultations there have been during the year 1920 approximately 55 children attending each afternoon. The progress made by the children is extremely gratifying in practically all instances. Acute illnesses are not dealt with, being referred to hospital or private medical men. Expectant mothers are also seen and advised as to their welfare.

Infant foods and, to a small extent, special foods for mothers are obtainable at the Centre. These are supplied free of cost only to the very poorest people. A charge is made to others, not exceeding the cost price of the article.

Simple medicines are also prescribed and dispensed.

The total number of infants seen at this Centre in the year 1920 has been :—

New Cases	...	...	...	...	502
Total Attendances	...	...	...	...	5735

The Centre was opened in the latter part of 1914. One of the Lady Health Visitors acts as the Nurse to the Centre.

The **Croydon Mothers and Infants Welfare Association** runs nine other centres in the town. The Association provides the premises and the voluntary workers who assist very greatly at the meeting of the centres. The town provides the nursing and medical staff for these centres. The work done by the association has maintained a high level of efficiency. The co-operation between the Association and the Public Health Department is of the closest and pleasantest nature.

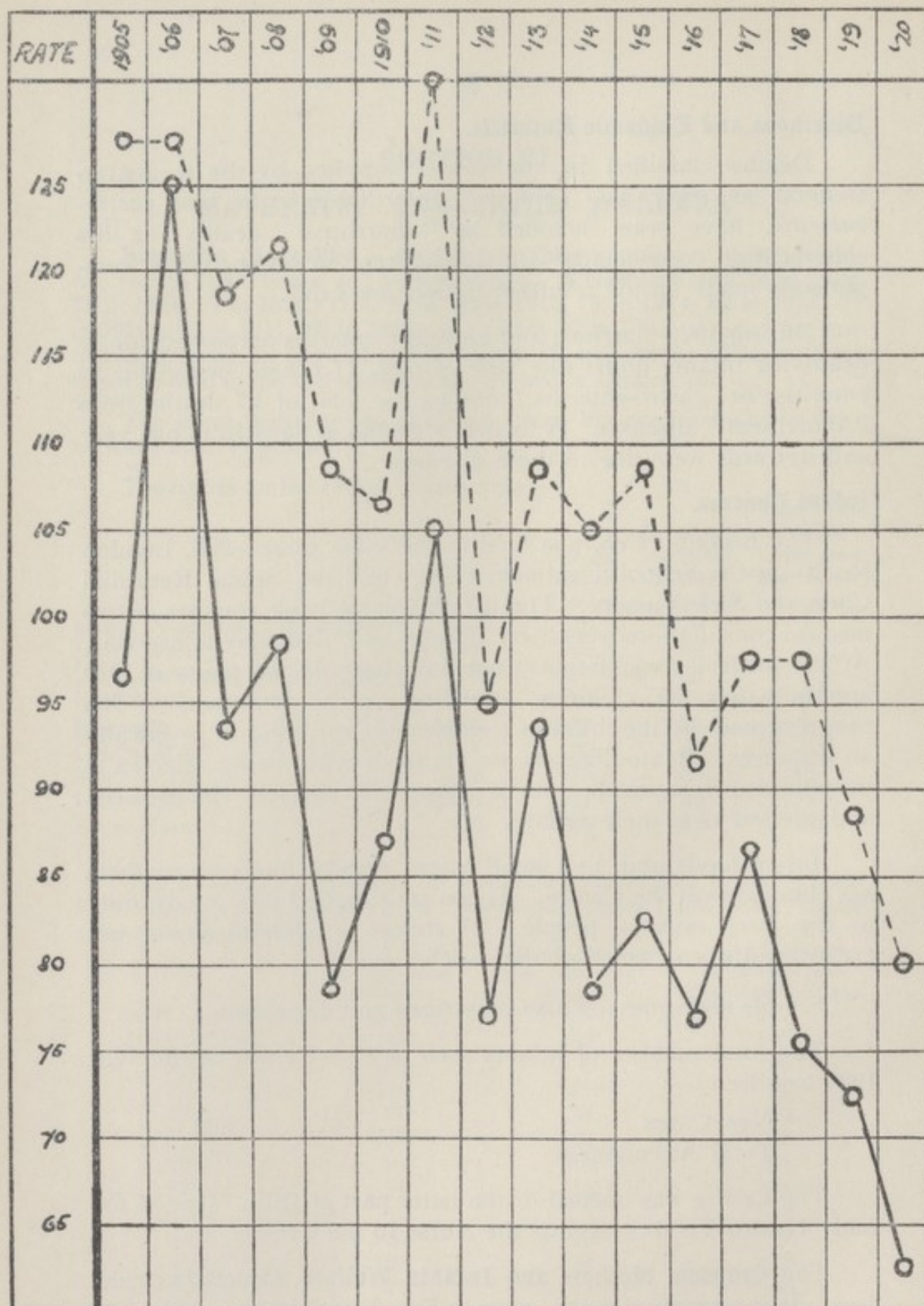


Chart shewing Infant Mortality Rate for Croydon compared with the rate for England and Wales.

Dotted lines indicate England and Wales.
Black „ „ CROYDON.

Infantile Mortality is measured by the proportion of deaths under one year to one thousand births.

The following table gives the numbers seen at the ten centres in the town during 1920.

INFANT CENTRES	Municipal Centre (228, London Road).	Central Croydon (Sylverdale Road).	South Croydon (Bartlett Street).	East Croydon (Lr. Addiscombe Rd.).	Woodside (St. Luke's Hall, Spring Lane).	South Norwood (Selhurst Road).	Upper Norwood (St. Margaret's, Naseby Road).	Thornton Heath (Mersham Road).	Thornton Heath (St. Alban's Hall, Whitehorse Lane).	West Croydon (Johnson Road).	TOTAL.
INFANTS UNDER 1 YEAR :											
Attendances—											
(a) 1. New Cases ...	407	142	145	161	135	289	96	125	197	205	1902
2. Old Cases ...	3782	1559	1807	1715	1546	3593	1038	1437	2805	3247	22529
Total ...	4189	1701	1952	1876	1681	3882	1134	1562	3002	3452	24431
Seen by Doctor...	1927	675	554	627	684	1294	486	1082	1277	1331	9937
CHILDREN 1—5 YRS. OF AGE :											
(b) 1. New Cases ...	95	38	59	38	58	84	40	42	65	114	633
2. Old Cases ...	1451	1227	1314	816	1356	2865	1542	1080	1464	1400	14515
Total ...	1546	1265	1373	854	1414	2949	1582	1122	1529	1514	15148
Seen by Doctor...	688	437	417	276	411	437	335	220	404	336	3961
Attendance of Mothers (a) & (b)	5078	2480	2691	2373	2394	5453	2080	2087	3807	3996	32439
EXPECTANT MOTHERS											
Attendances—											
(c) 1. New Cases ...	155	37	65	32	33	99	40	21	59	52	593
2. Old Cases ..	349	249	379	121	193	309	122	112	186	215	2255
Total ...	504	286	464	153	226	408	162	133	245	267	2848
Home Visits ...	104	63	79	42	43	133	72	52	73	91	752
VISITING of CHILDREN											
(a) Under 12 months											
1. First Visits ...	905	329	331	281	288	449	192	354	362	491	3982
2. Subsequent Visits	1047	435	475	509	565	489	378	555	589	756	5898
3. No. of Children seen ...	1597	421	432	572	511	868	562	589	646	893	7091
(b) From 1-5 y'rs. of age											
1. First Visits ...	229	188	212	45	154	108	103	175	177	281	1672
2. Subsequent Visits	512	313	320	209	235	565	482	292	318	599	3845
3. No. of children seen ...	733	309	310	212	228	739	615	403	437	663	4649
(c) Infant Deaths ...	44	19	23	9	8	39	18	33	37	41	271

At all the Centres in the town the children are regularly seen by a doctor. At least once a week all those that really require medical advice are seen, and all the infants under twelve months are seen not less often than once a month. It has at times been difficult to maintain this full service owing to the restrictions of the staff and the continued growth of the work, but on the whole the results of the work are as above stated.

At a considerable number of the Centres there are conducted auxiliary forms of activity, such as the demonstration of good modern hygienic infant clothing, penny banks, talks to mothers, etc.

At all the Centres records are kept of both infants and toddlers.

Provision of Fresh Milk at the Centres.

Milk is supplied under the same system of control as described in last year's report. The following statement shews the main details of the supply and the liabilities :—

MILK SUPPLIED TO MOTHERS AND INFANTS.

1st April 1920 to 31st March, 1921.

Supplied to Families.	No. of Quarts.	Received from Families.	Corporation Liability.	TOTALS.
		£ s. d.	£ s. d.	£ s. d.
Milk at 3d. ...	16089½	201 2 4½	419 13 6	620 15 10½
Milk at 6d. ...	2640¼	66 0 1½	68 17 4	134 17 5½
Milk Free ..	10308¾	—	437 0 8¾	437 0 8¾
Total number of Quarts supplied ...	29038½	267 2 6	925 11 6¾	1192 14 0¾

Total Number of Families 356.

Average supplied to each family, 81·57 quarts.

Average cost of supply to each family, £3 1s. 8½d. (at 9·08d. per quart).

Maternity Hostel.

The Hostel continues to provide to a limited extent one of the most urgent needs of the town. All cases are admitted by way of the centres or the ante-natal clinic except emergencies. 325 births occurred in the institution in 1920 as against 269 in 1919. The details are given in the subjoined statement. Every month as many cases have to be refused admission as are taken in. There is great need for the extension of this work.

St. Mary's Maternity Hostel.

ADMISSIONS, DISCHARGES, ETC., FOR PERIOD APRIL 1ST, 1920,
TO MARCH 31ST, 1921.

Women admitted.	CONFINEMENTS.			BIRTHS.				Women Dis- charged.
	Total.	Normal.	Com- plicated.	Total.	Alive.	Still- born.	Non- viable.	
325	322	220	102	325	313	11	1 (not a birth).	318

EXPLANATORY NOTES.

9 women in Hostel on April 1st, 1920, admitted during previous March.
16 women in Hostel on April 1st, 1921.
3 women admitted for ante-natal treatment only.
0 women admitted for post-natal treatment.
Twins born on three occasions.
Caesarean section performed in 2 cases.
One case of miscarriage.
No maternal deaths during 1920-21.

Ante-Natal Clinic.

This Clinic has continued to meet once weekly. The total number of expectant mothers attending was 152. 932 attendances were made during the year. The average weekly attendance was 18. The mothers are principally sent to the clinic through the maternity and infant centres and the maternity hostel. The larger proportion of the cases are subsequently confined in the maternity hostel. Cases of venereal disease are sent for treatment to one of the clinics for these conditions. A considerable amount of ante-natal advice is given in the routine work of the maternity and infant centres. Arrangements have been made which still more closely link up this Clinic with the work of the Hostel.

Sick Nursery.

The sick nursery has been continued as in former years. The disadvantageous conditions set out last year as attaching to these premises still hold, so that this very valuable piece of work—one of the most important adjuncts of the infant work of the town—continues to be seriously hampered. We urgently require greatly extended and improved accommodation for this type of ailing child. Below are given the statistics for the nursery for 1920.

Sick Nursery, 228, London Road.

Number of cases at Nursery at end of 1919	...	...	...	4
Number admitted during 1920	...	...	...	55
Number discharged during 1920	...	...	...	50
Number died during 1920	...	...	...	5
Number remaining at end of 1920	...	...	...	4

Method of Feeding.

The following are the particulars as to feeding of infants during the first six months of life of children who survived, and of children who **died between one week and six months old**. Deaths of infants under one week have been excluded because it is unlikely that methods of feeding can have been responsible for a fatal issue in so short a time.

TABLE A.

	Infants dying from Diarrhoeal Diseases. — 0-6 months.	Infants dying from other than Diarrhoeal Diseases. — 0-6 months.	Infants surviving 6 months.	Total investigated.
Breast Fed only... ..	16	75	1698	1789
Breast and subsequently Cow's milk ... ..	...	3	115	118
Ditto Condensed Milk	1	3	49	53
Ditto Other foods ...	1	5	190	196
Breast & simultaneously Cow's Milk	1	1	48	50
Ditto Condensed Milk	...	1	45	46
Ditto Other foods ...	...	...	110	110
Entirely Hand Fed— Cow's Milk	7	11	38	56
Ditto Condensed Milk	2	12	37	51
Ditto Other foods ...	14	15	89	118
Number investigated ...	42	126	2419	2587

TABLE B.—The same information expressed in percentages.

	Of all infants investigated under 6 months. per cent.	Of infants dying from Diarrhoeal Diseases. 0-6 months. per cent.	Of infants dying from other than Diarrhoeal Diseases. per cent.
Breast Fed only	69.1	38.1	59.5
Breast and subsequently Cow's Milk...	4.6	...	2.4
Ditto Condensed Milk ...	2.0	2.4	2.4
Ditto Other foods ...	7.6	2.4	4.0
Breast and simultaneously Cow's Milk	1.9	2.4	.8
Ditto Condensed Milk ...	1.8	...	.8
Ditto Other foods ...	4.3	...	...
Entirely Hand Fed—Cow's Milk ...	2.2	16.7	8.7
Ditto Condensed Milk ...	1.9	4.7	9.5
Ditto Other foods ...	4.6	33.3	11.9
	100.0	100.0	100.0

Table B shows that 38.1 per cent. of infant deaths from diarrhoeal diseases occurred amongst breast-fed children, and the remaining 61.9 per cent. amongst children who were either entirely hand fed or had artificial kinds of food as well as breast fed.

Notification of Births Act, 1907.

This Act was adopted by the Council on January 13th, and came into force on February 19th, 1908, after confirmation by the Local Government Board. During the past year 4,000 notifications were received. These births were notified as follows:—

Notified by medical men	...	...	...	998	
Notified by parents	...	...	...	919	
Notified by certified midwives	...	...	...	1960	
				<hr/>	
				3877	
Stillborn births notified	...	...	...	123	<hr/>
					<hr/>
					4000
					<hr/>

Midwives.

During the year 301 visits were paid to midwives by the Inspector of Midwives for the purpose of information or inspection.

At the end of 1919, 23 midwives were registered as practising in Croydon, and during 1920 four new names were added, leaving 32 on the register at the end of 1920.

SECTION IV.**TUBERCULOSIS WORK.**

The following paragraphs give a general summary of the arrangements made for dealing with tuberculosis, and are arranged seriatim to correspond with the headings in Circular No. 168 of the Ministry of Health:—

The Medical Officer of Health is Chief Administrative Officer for Tuberculosis.

The Specialist Clinical Tuberculosis Officer ranks as an Assistant Medical Officer of Health for Tuberculosis. His principal work is at the Dispensary, but he also acts as Consulting Physician to the Tuberculosis Ward in the Croydon Borough Isolation Hospital.

There is one Tuberculosis Dispensary situate at 13, Katharine Street, Croydon, attached to which, in addition to the above-mentioned Clinical Tuberculosis Officer, there are two nurses and three clerks.

The residential institutions at which tuberculous patients are treated under the town scheme are:—

Larchfield Sanatorium, Caterham—14 beds for women
—leased to the Corporation by contract.

Grosvenor Sanatorium, Ashford, Kent—20 beds—both male and female—leased to the Corporation by contract.

Various other sanatoria and hospitals where beds are not contracted for, but the occupied beds number on an average 56.

Croydon Borough Isolation Hospital—belonging to the local authority—17 beds—male and female—Resident Medical Officer, Dr. Kerr Simpson. Nursing staff provided out of the general staff of the Hospital—one sister specially attached to the tuberculosis ward.

Croydon Borough Sanatorium, North Cheam—belonging to the local authority—50 beds. These beds are divided as follows :—15 for Croydon cases, 30 for Surrey cases, and 5 for Kent cases. Resident Medical Officer : Dr. T. Dawson.

Cases from all sources are seen at the Tuberculosis Dispensary by the Clinical Tuberculosis Officer. The principal sources from which patients come are :—

- (a) Private medical practitioners.
- (b) School medical officers.
- (c) Croydon General Hospital, etc.

In general practice cases are not seen excepting after consultation with the private medical practitioner unless there be no actual family medical man attached to the case.

There is close liaison between the Tuberculosis Section of the Department and all other branches of the Public Health Service. School children and other persons seen in any section of the Department suspected to be suffering from tuberculosis are referred direct to the Dispensary for consultation and decision. The co-operation between the sources mentioned has always been smooth and successful.

Where the diagnosis of a case is doubtful the patient is kept under regular observation both directly through the Dispensary and indirectly by communication with the general medical practitioners in the town.

Contacts are examined systematically as far as possible, more particularly when the nurse is visiting home cases of tuberculosis. Any contact giving ground for suspicion of early incidence of tuberculosis is referred for examination to the Dispensary. There is no doubt, however, that when the suitable time for extension of the work arrives further medical assistance will be required to enable the Department to examine and watch systematically home contact of known cases.

The only special method of examination of cases which has been employed is examination by X-rays.

The outstanding feature in my opinion of the scheme for tuberculosis is that without a very complete and effective system of after-care of tuberculous patients, the effects of sanatorium and hospital treatment, however good they may be in themselves, are largely lost. No system of after-care is of much value unless it has considerable financial backing secured.

No dental treatment is provided by the Local Authority specifically for tuberculous patients.

One nurse does actual nursing of advanced cases at their homes.

Approximately forty cases received extra nourishment in the form of milk regularly.

Cases of non-pulmonary tuberculosis are referred for treatment to the Royal Sea Bathing Hospital and similar institutions.

Six shelters were provided for the use of patients in their gardens. These were increased in 1921 by the addition of ten shelters.

The arrangements for After-care in Croydon were originally provided for by the establishment of an After-care Committee. It was, however, found that the Committee as a body was not really effective on account of the lack of adequate financial backing. It is an extremely difficult thing to get voluntary support for this work. The Committee, after a year or two's existence ceased to exist as such, and the After-care of tuberculosis patients has developed into individual interest on the part of the staff of the Public Health Department and of people who are disposed to give such help and advice.

Patients are advised as to the kind of occupation they should undertake after return from sanatorium treatment, and so far as is possible help is given to the patients to obtain such suitable form of activity. It cannot, however, be too strongly emphasised, that adequate after-care depends upon assured financial support.

Table showing origin of Cases seen at the Dispensary for the first time in 1920.

Cause of person attending Dispensary.	Insured.			Uninsured.*				Grand Total.
	Men.	Women.	Total.	Men.	Women	Child'n	Total.	
(1) <i>Referred by local doctors or hospital for diagnosis, treatment or advice</i>	65	77	142	20	68	68	156	298
(2) <i>Ditto ditto by School Medical Officers & from Infant Clinics.</i>	...	3	3	...	4	164	168	171
(3) <i>Ditto ditto from other, chiefly charitable, sources</i>	22	10	32	8	29	39	76	108
(4) <i>Seen as "Contacts"</i> ...	5	9	14	4	21	73	98	112
(5) <i>Ministry of Pensions</i> ...	114	...	114	2	...	...	2	116
	206	99	305	34	122	344	500	805

* This includes dependents of insured persons

Table showing the way in which new cases were dealt with in 1920.

	Insured.			Uninsured.				Grand Total.
	Men.	Women.	Total.	Men.	Women	Child'n	Total.	
(1) <i>Diagnosed as tuberculous:</i>								
(a) <i>Treated through the Dispensary</i> ...	135	75	210	11	37	76	124	334
(b) <i>Treated elsewhere</i> ...	12	6	18	6	28	20	54	72
(2) <i>Diagnosis not settled—Kept under observation</i>	31	8	39	12	49	186	247	286
(3) <i>Diagnosed not tuberculous</i>	28	10	38	5	8	62	75	113
	206	99	305	34	122	344	500	805

Table showing details of Medical Examinations made by the Medical Officer to the Tuberculosis Dispensary, 1920.

Period. 1920.	Total Medical Examinations made.						Grand Total.	New Cases Examined.		
	At the Dispensary.			Patients Houses. ²				Insured.	Non- Insured.	Total.
	Insured.	Non- Insured.	To'al.	Insured.	Non- Insured.	Total.				
Jan. 1st to March 31st	674	1178	1852	9	9	18	1870	90	139	229
April 1st to June 30th	660	1108	1768	17	5	22	1790	81	114	195
July 1st to Sept. 30th	588	996	1584	8	9	17	1601	64	92	156
Oct. 1st to Dec. 31st	726	1120	1846	9	6	15	1861	70	155	225
Totals	2648	4402	7050	43	29	72	7122	305	500	805

NOTE.—In addition to the medical examinations shown in this table the Medical Officer also visited and examined the tuberculous patients at the Borough Hospital twice weekly throughout the year.

The proportion of known tuberculosis in the Borough which is dealt with through the Dispensary continues to be satisfactorily high, as is shown by the following figures :—

(1) <i>Total Primary Notifications, 1920 ...</i>	480*
(2) <i>Total new cases seen at Dispensary and diagnosed as tuberculosis, 1920 ...</i>	406

Therefore approximately 84 per cent. of the cases notified in the Borough in 1920 were seen by the Medical Officer to the Tuberculosis Dispensary.

*(This figure includes "other forms of tuberculosis" in addition to pulmonary tuberculosis.)

In 1920 334 new cases were treated through, as well as being seen, at the Dispensary.

CROYDON BOROUGH SANATORIUM.

The fifty beds at the Croydon Borough Sanatorium are kept continuously full with the exception of course of an occasional intervening day or two arising out of the departure and arrival of patients. The following table shews the distribution of the beds amongst the three authorities who contribute towards the maintenance of the patients :—

District.	Remaining at end of year 1919.	Admitted during year 1920.	Discharged during year 1920.	Died during year 1920.	Remaining at end of year 1920.
Croydon C. B. ...	7	57	48	1	15
Kent C. C. ...	0	21	16	0	5
Surrey C. C. ...	18	107	81	15	29
Total ...	25	185	145	16	49

SANATORIUM AND HOSPITAL TREATMENT:

SUMMARY OF CASES TREATED AT SANATORIA,
1920.

	M.	W.	C.	Tl.
(A) Persons in Sanatoria on Jan. 1st, 1920	30	18	11	59
(B) Persons admitted to Sanatoria 1920	134	91	51	276
	164	109	62	335†
(C) Persons discharged from Sanatoria 1920	135	80	49	264
(D) Persons who died in Sanatoria 1920	3	—	1	4
	138	80	50	268
(E) Persons in Sanatoria on December 31st, 1920 ...	26	29	12	67

The total individuals receiving treatment in Sanatoria during 1920 is therefore:—

Men	164	} 355†
Women	109	
Children	62	

The total individuals sent to Sanatoria in 1920 is:—

Men	134	} 276†
Women	91	
Children	51	

† 124 men and 46 women were "insured persons." Of the "insured men" 93 were ex-service men.

SUMMARY OF CASES TREATED AT THE
BOROUGH HOSPITAL, 1920.

	M	W	C.	Tl
(A) Persons at the Borough Hospital on Jan. 1st, 1920	6	4	—	10
(B) Persons admitted to Hospital in 1920	36	26	1	63
	42	30	1	73‡
(C) Persons discharged from Borough Hospital 1920 ...	30	20	—	50
(D) Persons who died in the Borough Hospital 1920 ...	5	2	1	8
	35	22	1	58
(E) Persons in Borough Hospital on Dec. 31st, 1920 ...	7	8	—	15

Total individuals receiving treatment at the Borough Hospital in 1920 is

Men	42	} 73‡
Women	30	
Child	1	

The total individuals admitted to the Borough Hospital in 1920 is

Men	36	} 63
Women	26	
Child	1	

‡ 35 men and 14 women were "insured persons." Of the insured men 18 were ex-service men.

SECTION V.

VENEREAL DISEASE.

A joint scheme in which Croydon takes a part, and which consists of maintenance of clinics at practically all the big London Hospitals, has continued to run successfully. The Medical Officers of the joint authorities have met at frequent intervals during the year in London and discussed points which have arisen in connection with this scheme.

The main Table subjoined refers to this scheme. The smaller table gives details of the work carried out at the Croydon General Hospital Venereal Diseases Clinic during 1920. The treatment of male patients and arrangements for daily lavage have both been provided during 1920 at Croydon General Hospital Clinic. The increase in the number attending the local treatment centre is principally due to this extension of the arrangements.

The total number of cases dealt with from Croydon in 1920 was 391, as against 262 in 1919, and 190 in 1918. The number attending the clinics in London increased by 24; those attending the local clinic increased by 105. The number of pathological examinations made for private practitioners—1913 in 1920, as against 1909 in 1919, and 45 in 1918—does not continue to shew the increase which was characteristic of 1919.

VENEREAL DISEASES.

Annual Summary Year 1920.

	London.	Middlesex.	Essex.	Surrey.	Kent.	Herts.	Bucks.	East Ham.	West Ham.	Croydon.	All Districts.
1. No. of persons dealt with at or in connection with the clinic for the first time and found to be suffering from—											
Syphilis	7,917	704	392	285	206	89	58	121	324	80	10,176
Soft chancre	570	26	19	12	21	...	2	4	26	3	683
Gonorrhoea	10,127	872	443	293	182	87	53	164	363	71	12,655
Not found to be suffering from Venereal Disease...	4,998	534	237	165	113	39	32	72	229	58	6,477
Total	23,612	2,136	1,091	755	522	215	145	361	942	212	29,991*
Total Attendances	365,478	34,011	12,386	12,190	7,282	2,436	1,946	3,434	10,278	2,480	451,921
4. No. of "in-patient" days of Treatment	54,529	1,846	2,924	1,900	3,505	1,324	1,209	332	963	405	68,937
6. No. of doses of Salvarsan substitutes given	51,266	4,635	2,164	2,666	1,565	643	603	603	1,662	552	66,359

*In addition, 1,055 cases were dealt with from "counties outside the scheme," the majority of which were merchant seamen from all parts of the world.

The total number of new patients dealt with at the Clinics for the year was therefore ... 29,991
1,055
31,046

PATHOLOGICAL EXAMINATIONS.

Nature of Test.	London.	Middlesex.	Essex.	Surrey.	Kent.	Herts.	Bucks.	East Ham.	West Ham.	Croydon.	All Districts.
For Practitioners.											
For detection of spirochetes ...	26	...	1	2	...	...	...	...	...	...	29
For detection of gonococci ...	1,611	149	113	57	3	12	...	16	11	55	2,027
For Wassermann re-action ...	9,513	537	750	411	67	32	22	136	268	138	11,874
Other examinations	84	...	...	...	...	...	...	...	...	...	84
Total	11,234	686	864	470	70	44	22	152	279	193	14,014

VENEREAL DISEASES.

Return relating to persons residing in the County Borough of Croydon who were treated at the Croydon General Hospital, 1920 and 1919.

						1920.		1919.	
						M.	F.	M.	F.
Number of persons dealt with at or in connection with the out-patient Clinic for the first time and found to be suffering from :—									
Syphilis and Gonorrhœa	...	...	...	...	...	2	1	—	—
Syphilis	...	...	...	...	...	28	27	...	34
Soft Chancre	...	...	...	...	...	5	—	—	—
Gonorrhœa	...	...	...	...	...	40	25	...	18
Not suffering from venereal disease	..	...	...	...	...	26	25	...	22
						101	78	...	74
Number of persons discharged from the out-patient Clinic after completion of treatment for :—									
Syphilis	...	...	...	...	...	1	1	...	12
Soft Chancre	...	...	...	...	...	—	—	...	—
Gonorrhœa	...	...	...	...	...	—	1	...	—
						1	2	...	12
Number of persons who ceased to attend the out-patient Clinic without completing treatment and who were suffering from :—									
Syphilis	...	...	...	...	...	9	15	...	4
Soft Chancre	...	...	...	...	...	3	—	...	—
Gonorrhœa	...	...	...	...	...	7	9	...	1
						19	24	...	5
Total attendances of all persons at the out-patient Clinic who were suffering from :—									
Syphilis	...	...	...	...	...	225	491	...	339
Soft Chancre	...	...	...	...	...	29	—	...	—
Gonorrhœa	...	...	...	...	...	423	165	...	111
Not suffering from venereal disease	...	...	...	...	...	74	63	...	101
						751	719	...	551
Aggregate number of "in-patient days" of treatment given to persons suffering from :—									
Syphilis	...	...	...	...	...	20	—	...	67
Gonorrhœa	...	...	...	...	...	—	—	...	—
						20	—	...	67
Number of persons treated with Salvarsan substitutes						—	9	...	21
Number of doses of Salvarsan substitutes given						...	154	...	91
Examinations of pathological material :—									
Specimens from persons attending at the Treatment Centre which were sent for examination to an independent laboratory :—									
For detection of spirochetes	...	...	...	...	...	—	—	...	—
„ „ gonococci	...	...	...	...	...	—	33	...	12
„ Wassermann reaction	...	...	...	...	...	—	115	...	41
„ Others	...	...	...	...	...	—	—	...	12
						—	148	...	65

SECTION VI.

MENTAL DEFICIENCY, 1920.

CASES DEALT WITH.

<i>Date of Order.</i>	<i>Defective.</i>	<i>Sex.</i>	<i>Age at time of Order.</i>	<i>Nature of Order (whether for Institutional treatment or for Guardianship) and remarks.</i>
15th January	H. F. L.	M.	16	Institutional. Royal Earlswood Institution.
24th January	D. I. R.	F.	21	Institutional. Earlswood. Order made for contribution of ten guineas p.a. by father towards maintenance.
26th January	G. S.	M.	10	Institutional. Stoke Park Colony. Under Section 2 (1) (b) (ii) M. D. Act.
2nd March	N. A. T.	F.	20	Institutional. Stoke Park Colony.
2nd March	A. F.	F.	50	Placed under Guardianship.
9th March	E. P.	M.	19	Institutional. Rampton State Institution. Order made 1st June for contribution by father of 5/- p.w. towards maintenance. Under Section 2 (1) (b) (ii) M.D. Act.
10th March	W. H.	M.	7	Institutional. Earlswood. Cos of maintenance borne by father.
26th March	C. L.	M.	16	Institutional. Darenth Industrial Colony. On behalf of Hertford Local Authority.
26th March	C. P.	M.	16	Institutional. Darenth Industrial Colony.
30th April	E. J. W.	F.	35	Institutional. Queen's Road Institution. Order made for contribution by father of 5/- p.w. towards maintenance.
11th May	H. P.	F.	16	Institutional. Darenth Industrial Colony. Order made for contribution by father of 3/- p.w. towards maintenance.
18th May	F. H. W.	M.	26	Placed under Guardianship.
9th June	W. S.	M.	17	Institutional. Darenth Industrial Colony. Under Section 2 (1) (b) (ii) M. D. Act.
11th June	S. H.	M.	17	Institutional. Stoke Park Colony. Order made for contribution by father of 5/- p.w. towards maintenance.
20th July	V. W.	F.	16	Institutional. Princess Christian Farm Colony. Order made for contribution by father of 5/- p.w. towards maintenance.
20th July	C. M.	M.	45	Placed under Guardianship.
14th August	A. C.	F.	16	Institutional. Caterham Mental Hospital. Order made for contribution by father of 10/- p.w. towards maintenance.
18th Sept.	C. H.	M.	4	Institutional. Fountain Mental Hospital, Tooting. Order made for contribution by father of 10/- p.w. towards maintenance.
2nd October	C. K.	F.	61	Institutional. Queen's Road Institution.
20th October	I. H.	F.	17	Institutional. Stoke Park Colony. Order made for contribution by father of 2/6 p.w. towards maintenance.
24th November	W. R.	M.	5	Institutional. Fountain Mental Hospital, Tooting.
2nd December	G. R.	F.	16	Placed under Guardianship.
8th December	E. H.	M.	13	Institutional. Stoke Park Colony.

Total number of Defectives known by medical examination in the Borough	256
<i>Statutory Cases</i>	144
(a) 0—5 years	4
(b) 5—16 „	35
(c) Over 16 „	105
In Certified Institutions... ..	56
In Croydon Mental Hospital	11
In Poor Law Institutions	10
Resident at Home	58
Resident at Home under Guardianship	9

Education Cases

For a summary of these see Appendix A., Table 3 (School Medical Report page 121).

Total Number of Examinations made by the Medical Officers during 1920	248
Statutory Cases	134
Education Cases	114

During the year 1920 there have been three deaths, all statutory cases at Institutions—two of these were children under five years of age.

Three cases have been transferred to Croydon Mental Hospital, under the Lunacy Act.

Seven cases have removed from the Borough.

Twenty-four new cases were admitted to Grangewood Special M. D. School during the year.

Two cases were certified as imbeciles, and two cases came under the care of the Statutory Committee because of special circumstances.

SECTION VII.

WORK OF THE SANITARY INSPECTING STAFF.

GENERAL SANITARY WORK.

A summary of the work done by the Sanitary Inspectors during the year is given on the next page.

2,390 house-to-house inspections were made. These numbers are in addition to 1,154 inspections of houses where infectious diseases have been notified, and 73 inspections on request of larger houses, where the drains were tested and special reports sent to occupiers, prospective occupiers, or owners.

As a result of these inspections, 3,961 preliminary notices were served during the year.

Work done by the Sanitary Inspectors during the Year ending
31st December, 1920.

NATURE OF CASES DEALT WITH	Deputy Chief Insp. Culver.	Insp. Earwicker	Insp. Peck.	Insp. Richardson	Insp. Bull.	Insp. Vincent.	Insp. Flint.	Insp. Hunt.	TOTAL
House to House Inspection	518	54	335	433	...	470	303	277	2390
No. of Houses inspected where zymotic diseases have occurred	77	153	121	298	..	198	172	135	1154
No. of Visits of enquiry re infectious disease	113	205	152	401	..	207	194	179	1451
House drains tested with smoke (primary) ..	71	170	95	246	..	183	201	137	1103
" " " on application ..	16	24	5	5	..	2	5	16	73
Drains found defective	25	18	13	22	..	10	47	22	157
House drains re-laid	17	2	6	4	..	2	18	5	54
" " repaired	12	..	40	46	..	2	37	27	164
No. of smoke tests during repair	48	143	74	101	..	43	67	79	555
" water "	39	120	24	21	..	8	42	56	310
Damp-proof courses inserted .. .. .	..	..	2	3	..	..	8	20	33
Yards paved .. .. .	..	..	..	19	..	..	8	15	42
Inspection of Premises where offensive trades are conducted .. .. .	..	..	..	..	..	..	..	..	..
Inspections of Factories and Workshops, etc	1	..	..	..	1194	..	..	..	1195
" " Greengrocers, Fishmongers & Ice Cream Shops	110	193	138	33	..	193	176	150	993
" " Schools	11	..	49	11	..	63	3	22	159
" " Shops	65	..	..	1	..	..	..	13	79
" " Bakehouses .. .. .	..	..	..	..	546	..	..	..	546
" " Yards and Stables	38	497	306	81	..	274	296	573	2065
" " Common Lodging Houses .. .. .	..	..	..	..	493	..	..	..	493
" " " night visits .. .. .	..	..	..	..	10	..	..	..	10
" " Houses let in Lodgings .. .. .	..	..	..	..	..	..	59	..	59
" " " night visits .. .. .	..	..	..	..	..	..	..	..	..
" " Urinals	135	117	358	121	..	221	192	460	1604
Smoke observations .. .. .	..	..	..	..	19	..	..	..	19
Re-inspections of work in progress	953	1457	1550	1701	..	1127	1383	1491	9662
Sundry inspections	285	693	627	438	..	265	173	321	2802
Complaints from public investigated	396	343	86	282	..	214	306	248	1845
NUISANCES DISCOVERED.									
Houses requiring Cleansing & Whitewashing	222	175	137	314	..	152	187	184	1371
" Overcrowded	4	5	8	4	..	14	5	..	40
Leaky Roofs	89	121	74	125	..	39	158	103	709
Dampness in Houses	68	101	123	64	..	30	127	76	589
Drains found stopped	65	83	37	75	..	46	50	51	407
Drains and Sanitary Fittings found defective	163	177	162	237	..	93	223	129	1184
Defective Yard Surfaces	53	34	5	50	..	9	43	31	225
" Eaves and Downspouts	149	89	58	150	..	38	114	54	652
" Manure Receptacles .. .. .	..	6	..	..	..	..	1	..	7
" Urinals	1	3	..	..	..	..	1	..	5
" Ashbins	153	216	205	218	..	65	160	84	1099
Smoke Nuisances .. .. .	..	..	..	..	..	..	..	..	..
Animals improperly kept	6	18	..	5	..	1	2	..	32
Infringements of Bye-laws and Regulations	1	8	2	..	142	..	..	..	153
Offensive Accumulations	19	16	2	7	..	3	..	..	47
Sundry other Nuisances	13	48	182	360	..	..	230	194	1063
Total number of Nuisances	1006	1136	995	1609	142	488	1301	906	7583
Informal notices in abeyance 31st									
December, 1919	125	68	51	109	..	23	155	184	715
Informal Notices served	538	368	565	825	32	541	655	437	3961
" " complied with	461	294	456	747	32	496	472	408	3366
" " in abeyance	145	94	97	163	..	32	225	119	875
Referred to Committee	57	48	63	24	..	..	113	94	435

Combined drainage.—The number of systems of combined drainage dealt with as single *private* drains during the year was 3. This work was carried out under the provisions of the Croydon Corporation Act, 1905. The cost of carrying out the necessary works amounted to £65, and was borne by the owners instead of by the inhabitants at large.

House drains relaid.—In 54 instances the whole of the house drains were relaid, and 164 house drains were repaired or partially relaid.

Examination of drains.—73 written applications were received for the examination of the drains and sanitary condition of houses by occupiers or intending occupiers. In all cases special reports were made by the District Inspectors, copies of which were forwarded to the applicants. Where defects were found, and in many cases where improvements were suggested, the work was carried out by the owners without the necessity of serving sanitary notices.

Notices and Statutory Orders.—Most of the nuisances discovered were remedied on receipt of informal notices, but in 435 cases Statutory Orders had to be applied for. Two hundred and seventy-eight were complied with at the end of the year.

MUNICIPAL COMMON LODGING HOUSE.

This Lodging House affords accommodation for 17 women and 84 men. The number of nightly occupants during the year amounted to 29,030 men and 2,826 women, making a total of 31,856. The average number of lodgers amounted to 79 men and 8 women per night.

The receipts and expenditure (exclusive of sinking fund and interest) for the past seven years were :—

		<i>Receipts.</i>			<i>Expenditure.</i>		
		£	s.	d.	£	s.	d.
1914	...	822	4	9	...	735	8 9
1915	...	787	9	1	...	737	17 10
1916	...	722	16	1	...	682	15 10
1917	...	678	15	4	...	698	4 1
1918	...	781	1	7	...	854	3 0
1919	...	834	0	5	...	916	15 3
1920	...	1083	10	7	...	1216	14 9

OTHER COMMON LODGING HOUSES.

There are ten other houses on the register.

The following Table gives the situation of the ten registered houses and the accommodation provided therein :—

Premises.	No. of Rooms.	Accommodation.
11 & 12, Princess Road	12	54 men and 8 married couples.
9, Prospect Place	7	18 men and 5 married couples.
19, 20, 21, 22, 23 & 24, Lahore Road	30	50 men, 10 women, and 6 married couples.
52, Union Street	13	30 men.

Nos. 19 to 24, Lahore Road.—These houses are under one management and worked as one establishment, as also are Nos. 11 and 12, Princess Road. Practically, therefore, only four common lodging houses now remain in the Borough, with a total accommodation of 200 adults, or, if we add the Municipal Common Lodging House, a total of five houses with 263 single beds and 19 double beds.

During the year common lodging houses received 503 visits, while 10 houses received night visits.

Minor infringements of bye-laws were detected on 38 occasions, but in no case were they sufficiently serious for legal proceedings to be taken.

HOUSES LET IN LODGINGS.

There are 49 houses registered under the bye-laws. During the year these houses received 59 visits.

On no occasion were offences discovered for which prosecutions were necessary.

At the present moment the following houses are registered as houses let in lodgings :—

Wilford Road	...	...	...	...	25
Forster Road	...	...	...	...	12
Holmesdale Road	...	...	...	...	4
Ely Road	...	...	...	...	8
					—
					49
					==

FACTORY AND WORKSHOP ACT.

FACTORIES.

391 visits were made to Factories.

245 in reference to sanitary accommodation.

20 „ „ cleanliness of earth closets.

21 „ „ new occupation.

10 „ „ new drinking water regulations.

50 „ „ defective sanitary accommodation.

13 „ „ extra w.c. at motor works.

2 „ „ „ iron foundry.

25 sundry visits.

391 Total.

WORKSHOPS.

The number of workshops on register is 708.

The number of visits paid by the Inspector is 581.

HOMEWORK.

103 lists were received from employers, containing the names of 287 outworkers residing in the Borough. 191 further names were received from the Medical Officers of Health of various neighbouring districts, and the names of 37 outworkers residing outside the Borough were similarly despatched to the Medical Officer of Health for the district concerned.

167 visits were paid to outworkers.

32 visits were made to premises of employers of outworkers for the purpose of examining lists and other particulars.

BAKEHOUSES.

At the end of the year there were 77 Bakehouses in occupation, of which 8 were underground. 546 visits were made by the Inspector during the year, and 43 nuisances discovered and abated.

WORKPLACES.

At the end of the year there were 69 workplaces on the register, 55 visits to eating-house kitchens have been made, and 9 nuisances discovered and abated.

The following is a list of the various matters which required attention :—

	Factories.	Workshops	Laundries	Bake-houses.	Work-places.	Out-workers.	TOTAL
Screening of W.C's. ..	—	3	—	—	—	—	3
Cleansing, etc.	—	9	2	27	8	8	54
Insufficient W.C. accommodation	2	10	—	—	1	—	13
Defective ditto	23	19	—	1	—	—	43
Overcrowding	—	—	—	—	—	—	—
Dustbins	—	—	—	—	—	—	—
Paving	—	—	—	—	—	—	—
Want of ventilation of stoves	—	5	—	—	—	—	5
Want of intervening ventilated space	—	—	—	—	—	—	—
Drinking water supply ..	4	—	—	—	—	—	4
Sundry defects	1	3	—	16	—	—	20
	30	49	2	44	9	8	142

Preliminary Notices served—

Factories	...	...	...	...	...	...	9
Workshops	...	...	...	...	...	...	19
Workplaces	...	...	...	...	...	...	4
Bakehouses	...	...	...	...	...	...	—
							<u>32</u>

These 32 notices were duly complied with; the remainder of the matters requiring attention were satisfactorily dealt with by verbal notice.

Sixty-five communications were sent to H.M. Inspector of Factories in accordance with the various requirements of the Act.

SMOKE NUISANCES.

There were 19 observations made.

RAG FLOCK ACT, 1912.

No samples were taken under this Act during 1920.

SLAUGHTER HOUSES AND THE INSPECTION OF MEAT AND OTHER FOODS.

The Inspection of meat has been carried out as in previous years.

There are 12 registered slaughterhouses in the Borough, in addition to the Municipal slaughterhouses at Pitlake, which consist of 12 slaughter houses with lairs.

	In 1914.	In Jan. 1920.	In Dec. 1920.
Registered	14	12	12
Licensed ... ..	...	...	...
Total	14	12	12

The following table gives a summary of the work done during the year :—

Summary of Inspections during 1920.

Date. 1920.	Slaughterhouses.	Butchers.	Fishmongers.	Markets.	Cowkeepers.	Dairies.	Other Premises.	Total.
January	124	94	30	11	8	23	34	324
February	130	99	34	8	7	18	30	326
March	166	136	41	10	11	41	17	422
April	136	96	37	10	20	54	13	366
May	79	60	31	6	5	15	9	205
June	164	106	46	10	2	36	27	391
July	118	78	25	8	3	20	17	269
August and September	287	212	93	22	23	81	46	764
October	148	114	39	8	5	29	15	358
November	97	60	27	6	5	23	11	229
December	149	106	43	10	3	15	22	348
Totals	1598	1161	446	109	92	355	241	4002

The two following tables shew the number of animals slaughtered at the Public Slaughter Houses, Pitlake, during the year 1920, and a summary of the totals for the last ten years :—

1920.

Slaughterhouses.	Cattle.	Sheep.	Pigs.	Calves.	Total.
Public ...	509	1396	2604	135	4644
Private ...	248	1279	7883	2786	12196
Totals ...	757	2675	10487	2921	16840

Summary for ten years, 1911 to 1920.

Year.	Cattle.	Sheep.	Pigs.	Calves.	Total.
1911	635	9724	19371	3961	33691
1912	727	7874	19765	4017	32383
1913	458	4863	15282	3003	23606
1914	589	4171	13281	2667	20708
1915	1000	5339	22406	2539	31284
1916	1261	8332	26181	2661	38435
1917	2044	9904	18152	4604	34704
1918	2217	2215	1638	7103	13173
1919	1061	1482	4910	8017	15470
1920	757	2675	10487	2921	16840
Totals ...	10749	56579	151473	41493	260294

*Summary of Meat and other articles of food destroyed as unfit for food
with total weight :—*

1920.

ARTICLES.	Weight in lbs.			Remarks.
	Diseased.	Unsound.	Total.	
Beef	16,047	3,440	16,047	Including 28 carcasses.
Mutton	510	5,419	5,929	„ 128 „
Pork	5,480	250	5,730	„ 19 „
Veal	212	191	403	„ 9 „
Offal	7,643	1,553	9,196	„ foreign frozen offal.
Fish ... ..	...	3,374	3,374	Cod, Catfish, Dabs, Herrings, Haddock, Kippers, Megrims, Mackerel, Plaice, Saithe, Skate and Winkles.
Other Articles ... ..	...	8,389	8,389	Bacon, Ham, Rabbits, Chickens, Eggs, Cheese, Apples, Dates, Figs, Raisins, Tomatoes & Tinned Goods.
Total lbs.	26,452	22,616	49,068	Including 184 carcasses.

*Summary of whole carcasses condemned, with the reasons for such
condemnation :—*

1920.

Class of Animal.	Tuberculosis.	Peritonitis.	Pneumonia.	Pleurisy.	Metritis.	Enteritis.	Jaundice.	Actinomycosis.	Emaciated, various causes.	Immature.	Injuries.	Decomposition.	Total carcasses.
Cattle ..	13	2	1	1	2	3	..	1	3	..	2	..	22
Sheep ..	..	..	2	1	..	..	..	..	12	..	..	113	128
Pigs ..	16	..	..	..	..	1	1	..	..	..	..	1	19
Calves ..	..	..	..	..	..	4	..	..	..	5	..	..	9
Totals	29	2	3	2	2	8	1	1	15	5	2	114	184

Summary of Carcases in which Tuberculosis was found in the course of inspection and how such carcases were disposed of :—

1920.

Animals affected.	Carcase and all internal organs destroyed,	Part of carcase and all organs destroyed.	All or part of organs destroyed.	Total.
Cattle	13	2	35	50
Pigs	16	184	61	261
Total	29	186	96	311

TUBERCULOSIS IN MILK.

No samples of milk were taken on account of the impossibility of getting examinations made.

DAIRIES, COWSHEDS & MILK SHOPS ORDER.

Cowkeepers on Register (1919)	...	...	13
„ added (1920)	...	...	0
Cowsheds on Register (1919)	...	...	22
„ added (1920)	...	...	0
Number of Cows provided for	...	...	277
Approximate number of Cows (1920)	...	...	146
Dairymen and Milk Purveyors on Register	...	...	144
„ „ added (1920)	...	...	26
Number of Premises	...	...	197

SALE OF FOOD AND DRUGS ACTS.

During the year 240 samples of milk (207 new and 33 skimmed or separated) were taken. In 18 cases the samples were below the standard suggested by the Board of Agriculture.

Proceedings were instituted in respect of 4 of these samples, and fines and costs were imposed on the vendors to the extent of £32 15s. 6d. The other 14 samples were only slightly below the standard suggested by the Board of Agriculture.

In 11 cases the vendors were written to asking for an explanation, and in all cases subsequent samples were taken.

The following is a statement concerning the prosecutions undertaken during 1920 :—

PROSECUTIONS, 1920.

Date of Purchase.	Defendant.	Charge.	Result.	Penalty.	Costs.
1920				£ s d.	£ s. d
Mar. 25	A. J.	Selling Milk containing 11 per cent. of added water	Convicted	20 0 0	3 3 0
May 5	H. W. P.	Selling Milk 12 per cent. deficient of fat	Withdrawn.	—	1 1 0
Dec. 5	A. F.	Contravention the Milk Order, 1920 Selling Separated Milk which had been coloured	Convicted	2 0 0	1 1 0
„ 23	A. E. D.	Selling Milk 25 per cent. deficient of fat	„	5 0 0	10 6
Total ...				27 0 0	5 15 6

MILK AND CREAM REGULATIONS, 1912.

The following is a copy of the Report sent to the Local Government Board under the above-mentioned Regulations, viz. :

REPORT OF ADMINISTRATION IN CONNECTION WITH THE PUBLIC HEALTH (MILK AND CREAM) REGULATIONS, 1912.

REPORT FOR THE YEAR ENDED 31ST DECEMBER, 1920.

1. *Milk; and Cream not sold as Preserved Cream.*

	a) Number of samples examined for the presence of a preservative.	(b) Number in which a preservative was reported to be present.
MILK	240	Nil.
CREAM	6	Nil.

2. *Cream sold as Preserved Cream.*

(a) Instances in which samples have been submitted for analysis to ascertain if the statements on the label as to preservation were correct.

(i) Correct statements made	... Nil.
(ii) Statements incorrect	... Nil.
Total ...	Nil.

(b) Determinations made of milk fat in cream sold as preserved cream.

(i) Above 35 per cent.	... Nil.
(ii) Below 35 per cent.	... Nil.
Total ...	Nil.

(c) Instances where (apart from analysis) the requirement as to labelling or declaration of preserved cream in Art. v. (1) and the proviso in Art. v. (2) of the Regulations have not been observed. Nil.

(d) Particulars of each case in which the Regulations have not been complied with, and action taken. Nil.

3. *Thickening substances.*—Any evidence of their addition to cream or to preserved cream. Action taken where found. Nil.

4. *Other observations, if any.*—No preserved cream was on sale in the shops.

FOOD AND DRUGS ACTS.

Total Number of Samples taken during the year 1920.

Sample of	Total Samples.	Genuine.	Not Genuine.	Prosecutions.	Convictions.	Cautions
Milk	237	193	14	2	1	11
„ Separated or Skimmed	33	29	4	2	2	—
Butter	14	13	1	Informal	Sample.	—
Drs ' Prescriptions	11	11	—	—	—	—
Cream	6	6	—	—	—	—
Cheese	2	1	1	Informal	Sample.	—
Coffee	7	7	—	—	—	—
Pepper	6	6	—	—	—	—
Honey	2	2	—	—	—	—
Suet	1	1	—	—	—	—
Totals ...	289	269	20	4	3	11

Country Milk in course of delivery at railway station	...	58
On Milk rounds Sunday mornings	... ..	42
„ „ Weekdays	... ..	140
Total	...	<u>240</u>

FOOD AND DRUGS ACTS.

Particulars of Samples taken during the sixteen years 1905-1920 inclusive :—

Year.	Number of Samples taken.	Number Genuine.	*Number Adulterated.	Percentage of Adulterated.	Prosecutions.	Total amount of Fines and Costs imposed.
						£ s. d.
1905	356	320	36	10·0	8	36 13 0
1906	400	351	49	12·3	6	15 12 6
1907	448	413	35	7·8	13	86 8 0
1908	438	384	54	12·0	19	40 12 6
1909	455	424	31	6·8	7	55 13 0
1910	480	431	49	10·2	13	33 3 0
1911	501	436	65	12·9	6	18 8 6
1912	525	473	52	9·9	13	35 10 0
1913	535	497	38	7·1	4	37 14 4
1914	526	464	62	11·8	14	42 13 6
1915	504	427	77	15·2	18	105 11 0
1916	388	297	41	12·1	22	85 3 6
1917	356	305	51	14·3	16	227 11 0
1918	414	360	54	13·0	17	175 13 6
1919	339	315	24	7·6	9	45 0 0
1920	289	269	20	6·9	4	32 15 6

* The term adulterated includes samples found to be not up to standard.

SECTION VIII.

WORK OF THE BOROUGH HOSPITAL.

The total nominal accommodation at the Borough Hospital is 170 beds

The following table shows the highest and lowest number of beds occupied on any one night during each month of the year 1920.

Month.	Beds Occupied.		Month.	Beds Occupied.	
	Highest.	Lowest.		Highest.	Lowest.
January ..	215	183	July	138	111
February ..	219	191	August	135	106
March	204	164	September ..	105	79
April	167	130	October	173	101
May	163	141	November ..	185	163
June	163	132	December ..	213	165

During 1920 the average daily number of cases under treatment amounted to 156.0 as compared with 132.8 of the previous year.

The following table gives the total number admitted from the Borough and other Districts during the year 1920.

Districts.	Remaining at end of 1919.	Admitted during 1920.	Discharged during 1920.	Died during 1920.	Remaining at end of 1920.
Penge Urban D.C., non- pauper cases	11	89	78	2	20
The Borough of Croydon	186	1157	1132	43	168
Total ..	197	1246	1210	45	188

CROYDON BOROUGH HOSPITAL.

Detailed Analysis of Expenditure under all Heads for the Year ending March 31st, 1921, and 10 preceding Years.

Year ending March.	Average No. of Patients.	Provisions.				Alcohol.				Surgery and Dispensary.*				Domestic, including Coal and Gas.				Establishment and Miscellaneous Charges.								Salaries and Wages.				Total Average Cost per Bed occupied including Sinking Fund & Interest.	
		Total.		Average Cost per Bed occupied.		Total.		Average Cost per Bed occupied.		Total.		Average Cost per Bed occupied.		Total.		Average Cost per Bed occupied.		Establishment Charges and Repairs.	Miscellaneous Charges.	Total.		Average Cost per Bed occupied.		Medical, Dispensing, Nursing & other.	Average Cost per Bed occupied.		Total Ordinary Expenditure.	Total Average Cost per Bed occupied.	Sinking Fund and Interest.		
		£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.		
1911	134	2696	1 8	20 2 5	3 8 9 0	6		487	19 3 3	12 10	1703	9 8	12 14 3	1179	17 10	387	16 5	1567	14 3	11 14	0	2364	7 10	17 12	11	8823	1 5	65 16	11 2206	10 9	82 6 3
1912	134	2886	19 10	21 10 11	10 17 0	1 7		618	10 10 4	12 4	2062	18 3	15 7 10	2250	5 2	385	9 1	12635	14 3	19 13	4	2527	15 4	18 17 4	10742	15 6	80 3 4	2721	17 3	100 9 8	
1913	134	3047	0 5	22 14 10	10 19 10	1 7		729	8 10 5	8 10	2215	6 11	16 10 8	1959	0 10	467	17 1	2426	17 11	18 2	3	2726	0 4	20 6 10	11155	14 3	83 5 0	2774	12 0	103 19 1	
1914	143	3279	12 2	22 18 8	14 12 0	2 1		574	19 8 4	0 4	2467	3 4	17 5 1	2406	1 5	306	4 5	2712	5 10	18 19	4	2970	8 9	20 15 5	12019	1 9	84 11 0	3058	16 9	105 8 9	
1915	131	3455	18 1	26 7 7	17 15 9	2 8		410	5 2 3	2 8	2530	5 1	19 6 4	2433	0 9	558	9 2	2991	9 11	22 16	8	2984	17 9	22 15 9	12390	12 4	94 11 8	3095	5 0	118 4 3	
1916	96	3628	19 3	37 16 1	23 7 4 4	10		439	4 3 4	11 6	2566	10 8	26 14 8	1709	12 8	498	11 5	2208	4 1	23 0	1	2937	19 8	30 12 1	11804	5 3	122 19	3 3156	3 8	155 16 9	
1917	93	3393	18 2	36 9 10	12 11 6	2 8		451	11 11 4	17 2	2713	3 4	29 3 6	1368	1 2	742	7 11	2110	9 1	22 13	10	2751	17 11	29 11 10	11433	11 11	122 18	10 3184	16 3	157 3 9	
1918	84	3735	0 1	44 9 3	26 4 8 6	3		556	1 4 6	12 5	3303	3 8	39 6 6	1477	15 9	761	3 8	2238	19 5	26 13	1	2759	0 4	32 16 11	12618	9 6	150 4 5	3177	7 5	188 0 11	
1919	92	4261	15 6	46 6 6	33 10 0	6 7		745	19 0 8	2 2	2397	4 7	43 4 7	1489	6 1	723	13 0	2212	19 1	24 1	1	3080	6 11	33 9 8	14308	15 1	155 10 7	3167	12 6	189 19 2	
1920	156	6448	12 6	64 1 6	9 47 5 6	6 1		1459	15 2 9	7 2	2541	17 8	34 14 9	3278	19 5	1051	2 8	4329	2 1	27 15	0	6401	15 9	41 0 9	24105	8 8	154 10 6	3157	17 6	174 15 4	
1921	143	6856	13 3	37 18 10	46 14 6	6 6		946	4 8 6	12 5	5642	16 5	44 18 7	3012	8 4	816	0 1	3828	8 5	26 15	6	8535	15 7	59 13 10	26638	12 10	186 5 8	3171	8 9	208 9 3	

Receipts, 1920-21, from various sources ... £ s. d.
6037 17 6

*This includes a very considerable expenditure incurred in the Hospital laboratory in respect of laboratory work done for the town extraneous to the Hospital.

The following table shows the comparative admissions during 1920 and previous years.

	Cases admitted during 1909.	Cases admitted during 1910.	Cases admitted during 1911.	Cases admitted during 1912.	Cases admitted during 1913.	Cases admitted during 1914.	Cases admitted during 1915.	Cases admitted during 1916.	Cases admitted during 1917.	Cases admitted during 1918.	Cases admitted during 1919.	Cases admitted during 1920.
Scarlet Fever.. ..	608	624	381	365	417	653	413	295	201	386	532	583 (1)
Diphtheria	292	222	430	600	402	211	200	313	207	179	433	540 (2)
Cerebro Sp. Meningitis	—	—	—	—	—	—	67	24	38	23	3	1
Pulmonary Phthisis ..	11	—	—	—	48	56	61	44	40	37	44	63
Enteric Fever	—	15	18	16	28	15	13	10	6	13	4	12
Puerperal Fever	—	—	—	—	1	2	4	2	2	1	4	7 (3)
Morbilli	—	—	—	—	—	—	9	17	25	17	6	4
Rubella	—	—	—	—	—	—	—	—	12	2	3	1
Mumps	—	—	—	—	—	—	—	—	20	6	4	1
Erysipelas	—	—	—	—	—	—	—	—	18	10	6	10
Other diseases	45	47	29	25	6	10	11	33	10	37	29	24
Total	956	908	858	1006	902	947	778	738	579	711	1068	1246

- (1) Includes 11 cases of Rubella.
 „ 3 cases of Tonsillitis.
 „ 3 cases of Influenza.
 „ 1 case of Measles.
 „ 1 case of Dermatitis.
 „ 1 case of Teething Rash.
 „ 1 case of Gonococcal Rheumatism.
 „ 1 case of Desquamation from congenital sores.
 „ 13 cases in which no disease could be diagnosed.
- (2) „ 5 cases of Tonsillitis.
 „ 3 cases of Measles.
 „ 1 case of Herpes.
 „ 1 case in which no disease could be diagnosed.
- (3) „ 1 case of Pyosalpinx.

The following table gives the number of patients admitted for each disease, an analysis of the admissions, and the number discharged or who have died in the year 1920 :—

Disease.	Remaining at end of 1919.	Admitted during 1920.	Discharged during 1920.	Died during 1920.	Remaining at end of 1920.
Scarlet Fever	109	535	545	8	91
Admitted to Hospital as Scarlet Fever and found to be other disease ...	...	35	35	..	...
Admitted to Hospital for observation (including contact)	1	13	13	...	1
Diphtheria	71	529	502	21	77
Admitted as Diphtheria and found to be other disease	1	10	10	..	1
Admitted for observation (including contact)	1	1	1	...	1
Cerebro-Spinal Meningitis ... ..	...	1	...	1	...
Admitted as Cerebro-Spinal Meningitis and found to be other disease ...	...	...	...	..	...
Admitted for observation (including contact) ... ..	...	...	...	...	...
Enteric Fever	2	12	10	3	1
Admitted as Enteric and found to be other disease ... ..	...	...	...	...	...
Admitted for observation (including contact) ... ..	...	...	...	...	...
Pulmonary Tuberculosis	10	62	49	8	15
Admitted for Pulmonary Tuberculosis and found to be other disease ...	...	..	...	...	...
Admitted for observation (including contact) .. ..	...	1	1	...	...
Puerperal Fever	1	5	5	1	...
Admitted as Puerperal Fever and found to be other disease ... ..	...	1	1	...	...
Admitted for observation (including contact) ... ..	...	1	1	...	...
Morbilli ... ..	...	4	4	...	...
Admitted as Morbilli and found to be other disease ... ..	...	...	...	...	...
Rubella ... ..	...	1	1	...	...
Admitted as Rubella and found to be other disease ... ..	...	...	...	...	...
Erysipelas ... ..	...	10	9	...	1
Admitted as Erysipelas and found to be other disease ... ..	...	...	...	...	...
Mumps ... ..	...	1	1	...	..
Admitted as mumps and found to be other disease. ... ..	...	...	...	...	...
Other Diseases	1	24	22	3	...
Totals	197	1246	1210	45	188

The following table gives the fatality for each disease :—

	1912.	1913.	1914.	1915.	1916.	1917.	1918.	1919.	1920.
Scarlet Fever ...	1'1	'8	'7	'9	1'8	1'0	2'1	2'0	1'3
Diphtheria ...	3'6	3'02	6'4	4'02	4'65	4'1	13'2	8'7	3'9
Enteric Fever ...	25'0	19'2	20'0	33'3	100'0	—	9'0	—	25'0
Cerebro Sp. Menin. —	—	—	—	54'0	13'0	37'9	40'0	—	100'0
Pulmonary Phthisis —	—	12'5	12'6	37'2	40'0	48'6	35'3	52'2	12'9
Puerperal Fever —	—	—	—	60'0	100'0	—	—	—	20'0
Morbilli... ..	—	—	—	11'1	—	4'3	—	—	—
Mumps	—	—	—	—	—	—	—	—	—
Erysipelas ...	—	—	—	—	—	6'5	—	—	—
Other Diseases...	—	—	—	—	—	11'1	8'0	24'1	12'5
All Cases ...	3'2	2'9	3'1	'89	7'2	7'0	8'1	7'4	3'6

Under other diseases are included :—

	<i>Result.</i>			
Infantile Diarrhoea...	5	...	...	3 discharged ; 2 died
Enteritis	2	...	...	2 "
Ophthalmia Neonatorum	4	...	...	4 "
Influenza	2	...	...	2 "
Whooping Cough ...	2	...	...	2 "
Nephritis	2	...	...	2 "
Myelitis	1	...	...	1 "
Meningitis	1	...	...	1 died
Tonsillitis	1	...	...	1 discharged
Carbuncle	1	...	...	1 "
No disease*...	3	...	...	3 "
	24			

* 3 mothers with babies (ophthalmia neonatorum).

Notified as Diphtheria or for observation for Diphtheria—

	<i>Result.</i>			
Diphtheria and Scarlet Fever...	8	...	7	discharged ; 1 died
" " Measles ...	11	...	11	"
" " Chicken Pox...	1	...	1	"
" " Scabies ...	3	...	3	"
" " Rubella ...	1	...	1	"
" " Pneumonia ...	2	...	1	" 1 died
" " Mumps ...	2	...	1	" 1 remains

*Notified as Scarlet Fever or for observation for Scarlet Fever—**Result.*

Scarlet Fever and Diphtheria..	12	...	12	discharged	
" " Diphtheria and Measles	1	..	1	"	
" " Pneumonia and Measles	1	...	1	"	
" " Diphtheria and Scabies	1	...	1	"	
" " Chicken-pox	13	...	13	"	
" " Measles	10	...	9	"	1 died
" " and Mumps	4	...	4	"	
" " Broncho-pneumonia	1	...	1	"	
" " Pneumonia	2	...	2	"	
" " Rubella	1	...	1	"	
" " Albuminuria	1	...	1	"	
" " Cellulitis	1	...	1	"	
" " Nephritis	1	...	1	"	
" " Appendicitis	1	...	1	died	

Notified as Enteric or for observation for Enteric—

Enteric Fever and Pneumonia	1	...	1	died
-----------------------------	---	-----	---	------

Illnesses amongst the Staff—

Scarlet Fever	...	5	...	...	3 discharged ; 2 remains
Diphtheria	...	6	.	...	5 " 1 remains
Nephritis	...	2	...	...	2 "
Mumps	...	1	...	...	1 "
Carbuncle	...	1	...	...	1 "
Influenza	...	2	...	...	2 "
Tonsillitis	...	2	...	...	2 "

WORK OF THE BOROUGH LABORATORY.

The work of the Laboratory continues to be of the greatest value to the Borough.

Examinations for Diphtheria.

For Doctors.			For M.O.H.			For Wards (including Nose and Throat Swabs).
—	+	Total	—	+	Total	
1494	312	1806	1664	178	1842	4385

Outfits sent to the Town Hall.

Diphtheria.	Tubercle	Enteric.	Cerebro Spinal Meningitis.	Total.
3,583	914	82	46	4,625

Blood Serum prepared.

365 dozen tubes at 5/- per dozen = £91 5s. od.

Special Media prepared.

1 litre Peptone Media.

2,500 „ Agar Agar.

1,500 „ Neutral Red Agar.

1,000 „ Brilliant Green Broth.

500 „ Gelatine Media.

500 „ Bile Salt Media (MacConkey's).

200 „ Litmus Milk Media.

CEREBRO-SPINAL MENINGITIS.

Results of Examinations for Cerebro-Spinal Meningitis.

1920.	Examinations for Borough.			Examinations for Hospital.			Total.		
	All Examinations.			All Examinations.			All Examinations.		
	+	—	Total	+	—	Total	+	—	Total
January ...	11	32	43	1	—	1	12	32	44
February ...	—	2	2	—	—	—	—	2	2
March ...	—	2	2	—	—	—	—	2	2
April ...	—	—	—	—	—	—	—	—	—
May ...	—	7	7	—	—	—	—	7	7
June ...	—	—	—	—	—	—	—	—	—
July ...	—	—	—	—	—	—	—	—	—
August ...	—	—	—	—	—	—	—	—	—
September ...	—	—	—	—	—	—	—	—	—
October ...	—	—	—	—	—	—	—	—	—
November ...	—	—	—	—	—	—	—	—	—
December ...	—	6	6	—	—	—	—	6	6
First Quarter ...	11	36	47	1	—	1	12	36	48
Second „ ...	—	7	7	—	—	—	—	7	7
Third „ ...	—	—	—	—	—	—	—	—	—
Fourth „ ...	—	6	6	—	—	—	—	6	6
Total ...	11	49	60	1	—	1	12	49	61

TUBERCULOSIS.

Results of Examinations for Tuberculosis.

1920.	Examinations for Borough			Examinations for Hospital.			Total.		
	All Examinations.			All Examinations.			All Examinations.		
	+	—	Total	+	—	Total	+	—	Total
January ...	7	59	66	1	1	2	8	65	68
February ...	9	156	165	1	4	5	10	160	170
March ...	13	97	110	3	3	6	16	100	116
April ...	15	82	97	1	2	3	16	84	100
May ...	9	60	69	4	2	6	13	62	75
June ...	8	63	71	3	2	5	11	65	76
July ...	6	47	53	2	10	12	8	57	65
August ...	5	23	28	—	2	2	5	25	30
September ...	10	74	84	2	7	9	12	81	93
October ...	9	59	68	4	5	9	13	64	77
November ...	10	57	67	2	6	8	12	63	75
December ...	6	48	54	2	3	5	8	51	59
First Quarter ...	29	312	341	5	8	13	34	320	354
Second „ ...	32	205	237	8	6	14	40	211	251
Third „ ...	21	144	165	4	19	23	25	163	188
Fourth „ ...	25	164	189	8	14	22	33	178	211
Total ...	107	825	932	25	47	72	132	872	1004

ENTERIC (TYPHOID) FEVER.

Results of Examinations for Diseases simulating Enteric Fever.

1920.	Examinations for Borough.			Examinations for Hospital.			Total.		
	Agglutinative Reactions.			Agglutinative Reactions.			Agglutinative Reactions for all Purposes.		
	+	—	Total	+	—	Total	+	—	Total
January ...	—	1	1	—	—	—	—	1	1
February ...	—	2	2	—	—	—	—	2	2
March ...	—	1	1	—	—	—	—	1	1
April ...	—	2	2	—	3	3	—	5	5
May ...	1	4	5	—	—	—	1	4	5
June ...	2	2	4	—	—	—	2	2	4
July ...	1	2	3	1	2	3	2	4	6
August ...	—	5	5	2	1	3	2	6	8
September ...	—	2	2	—	1	1	—	3	3
October ...	1	3	4	—	—	—	1	3	4
November ...	2	3	5	—	1	1	2	4	6
December ...	—	2	2	—	2	2	—	4	4
First Quarter ...	—	4	4	—	—	—	—	4	4
Second „ ...	3	8	11	—	3	3	3	11	14
Third „ ...	1	9	10	3	4	7	4	13	17
Fourth „ ...	3	8	11	—	3	3	3	11	14
Total ...	7	29	36	3	10	13	10	39	49

MISCELLANEOUS EXAMINATIONS.

Since October 27th, 1920, 148 urines have been tested by Lugol's reaction, and for the presence of Diacetic Acid for diagnostic purposes.

- 1 Swab for organisms present.
- 1 Vincent's Angina.
- 2 Puerperal Fever.
- 4 Tubercular Meningitis.
- 2 Enteric Stools
- 4 Staphylococcic Vaccines.
- 3 Tubercular Urines.

SECTION IX.

REPORT TO THE EDUCATION COMMITTEE.

I. STAFF.

For the first time since the outbreak of war the staff engaged in medical work amongst school children was entirely permanent. In addition to the School Medical Officer, who is also Medical Officer of Health, the staff consisted of three whole-time Medical Officers, one part-time X-Ray Specialist, one part-time Ophthalmic Surgeon, eight part-time Nose and Throat Surgeons, two part-time Dentists, and nine School Nurses. The Organizer of Physical Training in the Elementary Schools acted also as supervisor of remedial exercises. The Medical Officers devote part of their time only to school work. A Masseuse holding certificates in Massage, Medical Electricity and Remedial Exercises was appointed in the latter part of the year. Towards the end of the year also an Elementary school teacher, after receiving special training at Manchester, was appointed to undertake the treatment of children suffering from certain forms of speech defect.

Dr. H. Gordon Smith resigned in April, and Dr. Ian C. Mackay was appointed in August to fill the vacancy.

At the commencement of the year the work of the school medical service was re-organized. Hitherto the medical inspection schedules had, on completion at routine inspections, been retained in boxes at the schools. The Chief Medical Officer of the Board of Education in his Annual Report for the year 1918 indicated that certain statistical information would be desired from School Medical Officers when submitting their Annual Reports for 1920 and subsequent years. To facilitate the extraction of the necessary figures and, moreover, to enable the medical staff to have ready access for the purpose of reference to the health record of any child who had been examined while attending elementary schools, a scheme for re-organization by which all inspection schedules became filed in my office was submitted to, and subsequently approved by, the Education Authority. The scheme demanded some additional clerical work on the part of the Head Teachers, and it is a pleasure for me to record here the willing co-operation of the teachers in this respect.

2. CO-ORDINATION.

The relationship between the general education staff and the school medical staff continues to be harmonious. The work of medical inspections is carried out smoothly largely owing to the ready co-operation of the teachers.

The Attendance Officers render most valuable assistance in ascertaining defective children, in reporting suspicious cases of infectious diseases and non-notifiable infections, and in bringing to the notice of the medical staff cases of prolonged absence from school.

The School Medical Service is in most intimate relationship with the Tuberculosis Dispensary. In addition to definite cases of the disease all children who, after careful examination by the School Medical Staff, appear to be suffering from early tuberculosis are referred to the Clinical Tuberculosis Officer for advice and such treatment as is necessary.

The medical records of children who have attended the Maternity and Child Welfare Centre and who have attained the age of five years are transferred automatically to the School Medical Service.

3. SCHOOL MEDICAL SERVICE IN RELATION TO THE PUBLIC ELEMENTARY SCHOOLS.

(a) *No. of Schools and Accommodation.*

In 1920 there were in Croydon :

(a) 22 provided schools, including 57 departments.

(b) 15 non-provided schools, including 33 departments.

The total provision in 1920 in the borough for elementary school children amounted to 37 schools, with 90 departments.

The number of children on the register on December 31st, 1920, was 26,088, as compared with 25,432 in 1919.

(b) *School Buildings and Accommodation.*

Additional accommodation in the form of huts of the army pattern has been provided at the following schools :—

	<i>Accommodation.</i>			
Davidson Road Handicraft Class	40
" " Cookery Room	18
Woodside Boys'	120
" Girls'	120
Ingram Road Boys'	164
" " Girls'	120
" " Handicraft Room	—
Boston Road Boys'	120
" " Girls'	120
Whitehorse Road Girls'	120
" " Infants'	135
South Norwood Junior Mixed	120

(c) *School Hygiene.*

The following is a statement of the sanitary work carried out during the year :—

All the schools were visited periodically and the undermentioned work was carried out :—

Central Polytechnic, Scarbrook Hill.

Drains laid in for waste water from two huts erected in yard

Parish Church Schools.

Rainwater pipes renewed where defective. Water supply to girls' offices increased.

Girls' High School, Wellesley Road.

Drains from two W.C.'s relaid.

Ventilation pipe of drain cleared and repaired.

Woodside Schools.

New iron buildings—gullies for waste from lavatory basins connected to inspection chambers on existing system.

Infant Boys'—trough W.C. of three divisions taken out and replaced with short hopper pans with separate flushing cisterns, connected to existing branch drain.

Public ventilation pipe reinstated.

Oval Road Schools.

New drains and W.C.'s for infants.

Tavistock Grove School.

Rainwater pipes unstopped.

St. Andrew's Boys' School.

Doors and seats of W.C.'s repaired.

Obstruction removed from ventilation pipe.

Princess Road Schools.

Front section receiving waste from lavatory basins relaid with manhole and ventilation.

Main soil section repaired where defective.

Lavatory basins wrongly connected with surface water drains transferred to soil sections.

Syphon trapped gullies provided to yard drain.

Ventilation pipes cleared.

The Crescent Schools.

Drains from fittings in temporary buildings at rear dis. connected.

Whitehorse Road Schools.

New iron building erected in infant's playground. 4-in. drain for lavatory basin waste laid from gully to connect with drain of caretaker's house.

Ecclesbourne Road Schools.

Infants' urinal. Drain in connection with same and range of W.C.'s were repaired and a new syphon trap placed on end of the range of W.C.'s

Boston Road Schools.

As a result of a smoke test a defective gully was found ; this has been replaced with a new one and drains have been flushed.

Mitcham Road Schools.

Flushing apparatus repaired, new seats provided and fixed to the offices.

4. MEDICAL INSPECTION.

Reference should here be made to Table I. Appendix A.

(a) The classes of children medically inspected in Croydon and the number so examined in each class, 1st January, 1920 to 31st December, 1920, are as follows :—

Routine Inspection.

Under the Regulations of the Board of Education :

Children admitted for the first time during the year	3570
Children between the ages of eight and nine years	1102
Children between the ages of 12 and 14 years and other age groups	2075
Total	6747

Inspection of Selected Children.

Obviously defective and submitted by Head Teachers, Attendance Officers, School Nurses, Care Committees, etc.	1170
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Not obviously defective :—

(i) Fitness for employment in accordance with Bye-laws regulating the employment of young persons	600
(ii) Candidates as bursars and student teachers	38

Defective children re-examined	466
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All routine and many special inspections were made on the school premises. Other special inspections involving more careful examinations were made at the Inspection Clinic, 228, London Road.

The following table shows the total number of children examined at routine inspections during 1920 classified according to the schools attended, the number of inspections held in each department, and the number of parents or guardians present:—

School.	No. of Inspections held.	No. of Children Inspected		No. of Parents or Guardians present.
		BOYS.	GIRLS.	
COUNCIL SCHOOLS :—				
Beulah Road School (All departments)	12	159	—	95
" " " "	14	—	184	111
Boston Road	14	192	—	70
" " " "	11	—	155	87
Brighton Road	10	149	—	41
" " " "	7	—	100	59
Davidson Road	8	88	—	75
" " " "	8	—	96	64
Dering Place	7	86	—	51
" " " "	7	—	75	63
Ecclesbourne Rd.	11	164	—	58
" " " "	9	—	114	56
Ingram Road	13	204	—	101
" " " "	11	—	180	115
Mitcham Road	15	232	—	160
" " " "	11	—	114	88
Oval Road	8	120	—	44
" " " "	9	—	138	94
Portland Road	14	200	—	115
" " " "	14	—	183	137
Princess Road	8	119	—	45
" " " "	8	—	97	47
South Norwood	8	168	—	64
" " " "	9	—	136	101
Spring Lane	2	22	—	21
" " " "	2	—	23	18
Stanford Road	2	36	—	33
" " " "	3	—	59	52
Sydenham Road	11	143	—	83
" " " "	13	—	176	107
Tamworth Road	8	94	—	46
" " " "	5	—	38	19
Tavistock Grove	6	59	—	34
" " " "	6	—	78	47
Upper Norwood	10	90	—	55
" " " "	7	—	56	32
Whitehorse Rd.	18	330	—	208
" " " "	15	—	255	182
Winterbourne Rd.	8	116	—	111
" " " "	8	—	94	80
Woodside	11	135	—	104
" " " "	10	—	110	88
Grangewood Special	2	28	—	—
" " " "	1	—	4	—
Day Central	1	48	—	10
" " " "	1	—	23	16
Totals	396	2982	2488	3267

COUNCIL. (NON-PROVIDED) SCHOOLS :—

All Saints' School (All Departments)	4	29	—	17
" " " " " " " "	1	—	11	8
Christ Church " " " " " "	9	95	—	22
" " " " " " " "	13	—	141	51
(Wildbore's) " " " " " "	3	31	—	4
" " " " " " " "	3	—	29	11
Holy Trinity " " " " " "	4	23	—	17
" " " " " " " "	4	—	70	59
Parish Church " " " " " "	10	134	—	86
" " " " " " " "	11	—	170	112
St. Andrew's " " " " " "	6	33	—	22
" " " " " " " "	6	—	66	43
St. Joseph's " " " " " "	1	14	—	6
" " " " " " " "	1	—	13	7
St. Mark's " " " " " "	2	19	—	18
" " " " " " " "	2	—	27	21
St. Mary's " " " " " "	3	22	—	18
" " " " " " " "	3	—	14	13
St. Michael's " " " " " "	5	24	—	21
" " " " " " " "	5	—	61	46
St. Saviour's " " " " " "	3	42	—	17
" " " " " " " "	4	—	47	30
Arch. Tenison's " " " " " "	1	21	—	7
" " " " " " " "	2	—	49	38
St. Peter's " " " " " "	3	33	—	26
" " " " " " " "	3	—	40	31
Shirley " " " " " "	1	14	—	5
" " " " " " " "	1	—	5	3
Totals (for Non-Provided) ...	114	534	743	769
Totals (for Provided) ...	396	2982	2488	3267
Totals (for Provided and Non-Provided) ...	510	3516	3231	4036
		6747		

(b) The Board's schedule of medical inspection has been followed in its entirety.

(c) The following are the sources from which early ascertainment of crippling defects has been obtained :—

(1) As a result of medical inspection, either routine or special, at the schools.

(2) From information obtained both by the Health Visitors and the School Attendance Officers as a result of their district work in the Borough.

(3) From the various Maternity and Infant Welfare Centres with which the School Medical Service works in close administrative contact

(4) From the Tuberculosis section of the Public Health Department, and

(5) From the Croydon Civic Service League, a local voluntary association which provides valuable and willing assistance.

(d) During the last part of the year under review arrangements were made whereby the attendances of children presenting themselves for inspection or treatment at any of the approved Clinics in the Borough would be reckoned for the purpose of ascertaining the average attendance at school in accordance with the regulations of Articles 43 and 44 of the Provisional Code of Regulations, 1919.

5. FINDINGS OF MEDICAL INSPECTION.

Table II., Appendix A, gives a return of defects found in the course of medical inspection, both at routine and special examinations, in 1920. Some of the noteworthy defects so discovered are considered more particularly below.

Uncleanliness.

Out of 6747 children examined at Routine Inspections, 43 or 0·63 per cent. were found to harbour body vermin; 38 or 0·56 per cent. had head vermin; 613 or 9·8 per cent. were found to have the eggs or the louse in the hair although no adult lice were seen; 38 or 0·56 per cent. had simply dirty heads: whilst 117 or 1·7 per cent. were described as dirty generally.

Compared with last year, the figures show an increase and the steady improvement which has been made during previous years has received a check. Demobilization was practically completed in 1920, and there is little doubt that the overcrowded housing conditions became aggravated, and so favoured the spread of vermin infestation.

The teachers have been whole-hearted in their endeavour to raise the standard of cleanliness and have always co-operated willingly with the School Nurses at the Uncleanliness Inspections which have been carried out at certain selected schools.

Apart from the Routine examinations, Uncleanliness Inspections were conducted by the School Nurses at 21 of the Council Schools. 11938 children came under review, 33 had body vermin, 419 head vermin, and 2028, whilst having no adult lice, were found to harbour the eggs in the hair. Slightly over one-fifth of these children gave evidence of vermin infestation.

Cleansing Station.

Twenty-six children were cleansed on account of body vermin and two for head vermin. Scabies still continues to be prevalent, and 47 children were treated for this condition.

Clothing.

Children with dirty clothing numbered 46 or 0·68 per cent. Children with defective footgear numbered 70 or 1·0 per cent. More children with insufficiently protected feet were observed, a condition no doubt to be associated with the inflated cost of the necessities of life.

Average Heights and Weights.

The following table gives the averages of the children examined at three age periods in ten of the schools in Croydon:—

Age.	Average Height in Inches.		Average Weight in Pounds.	
	Boys.	Girls.	Boys.	Girls.
5	42·5	42·1	40·5	39·0
8	48·4	47·6	51·1	50·7
13	56·3	57·9	77·2	86·3

Malnutrition amongst school children is increasing. Whilst in the previous year 137 (2·3 per cent.) came under observation on this account slightly more than twice as many (351, or 5·2 per cent.) were observed during this year.

In spite of the fact that nourishing food has become more plentiful it is not unlikely that the conditions of unemployment have in many cases deprived families, and particularly the larger families, of adequate and sufficient nourishment. A not uncommon diet is one which consists of white bread and margarine varied with a small portion of meat once or twice weekly. Such a diet is known to be insufficient for the needs of the growing child.

In addition to insufficient and non-nourishing food there are other causes of mal-nourishment, the result of disease, such, for example, as enlarged tonsils, adenoids, carious teeth, early tuberculosis, intestinal worms, whooping cough and measles.

Much is being done for such children by early and adequate treatment at the Throat and Dental Clinics and the Tuberculosis Dispensary and by the provision of milk for the convalescent and insufficiently nourished child.

The provision of open-air schools will go a great way to help these children, and until such schools materialise the opportunity should be taken of establishing open-air classes in the school playgrounds and recreation grounds with which the Borough is well equipped.

Vision and External Eye Disease.

739 Children had defective vision and 202 were found to be suffering from some form of external eye disease, such as squint, ulcers and inflamed eyelids. Where necessary the children were treated by the Ophthalmic Surgeon. 13·9 per cent of the children examined presented visual defects.

Enlarged Tonsils and Adenoids.

1,533 Children, or 22·7 per cent., were found suffering from unhealthy conditions of the throat or naso-pharynx. Adenoids tend to make a child deaf, and thus interfere seriously with the progress of the child in school. Enlarged tonsils render a child liable to infection by diseases such as rheumatism, scarlet fever and diphtheria.

Lymphatic Glands.

Glands in the neck were found enlarged in 619 children, or 9·1 per cent. Enlargements due to infection by the bacillus of tubercle are not here included.

Amongst the most common causes of glandular enlargement in the region of the neck are decaying teeth, enlarged tonsils and adenoids, ear discharge and verminous conditions of the head. As soon as the specific cause is treated the glands quickly subside.

Ear Disease.

77 Children, or 1·1 per cent., were deaf and 94, or 1·4 per cent., suffered from ear disease. The main causes of deafness are wax, adenoids, and measles and scarlet fever, the latter tending to produce middle ear disease showing itself by perforation of the drum and discharge.

Defective Teeth.

2,677 Children, or 39·5 per cent., were found at Routine Medical Inspections to have four or less than four decaying teeth, and 1,139 children, or 16·9 per cent., more than four defective teeth. Slightly more than half the children examined therefore had carious teeth.

The following tables shows the numbers of children in each age group suffering from dental caries and the percentage in each group having sound teeth :—

BOYS.

Age Group.	1-4 Decayed Teeth.	Over 4 Decayed Teeth.	Number with sound Teeth.	Percentage with sound Teeth.
3-4	...	..	...	...
4-5	14	7	32	60·2
5-6	247	123	443	54·4
6-7	233	181	274	39·8
7-8	99	74	113	39·5
8-9	231	133	135	27·0
9-10	40	25	26	28·5
10-11	5	2	8	54·0
11-12	3	...	10	77·0
12-13	238	35	364	57·3
13-14	143	8	244	62·0
14-15	13	2	11	42·0
Totals ...	1266	590	1660	47·2

Total number of boys inspected 3516

GIRLS.

3-4	1	...	1	50.0
4-5	14	3	37	68.5
5-6	230	103	346	50.9
6-7	305	189	212	30.0
7-8	118	53	118	40.8
8-9	309	138	156	25.8
9-10	64	25	34	27.6
10-11	26	2	18	39.1
11-12	4	...	11	73.3
12-13	218	21	210	46.7
13-14	115	12	108	45.9
14-15	7	3	20	66.6
Totals ...	1411	549	1271	39.3

Total number of girls inspected 3231

The present school dental service is not coping with the situation. Apathy on the part of the parents is still widespread. Skilled private dental treatment is expensive, and parents living in the outlying districts of the Borough do not find it convenient to make use of the facilities at the Town Hall. In previous reports the necessity for establishing subsidiary centres has been emphasised.

Affections of the Heart.

122 Children, or 1.8 per cent., were found to have permanently damaged hearts, caused in many cases by attacks of acute or sub-acute rheumatism. 195 children, or 2.8 per cent., had temporary and mild heart affections associated with anæmia or slight debility.

When such conditions are discovered teachers are at once advised to modify or suspend the physical side of the child's education.

278 children, or 4.1 per cent., suffered from anæmia.

Affections of the Lung were found in 219 children, or 3.2 per cent. Most were suffering from bronchitis or mild forms of bronchial catarrh.

Tuberculosis.

84 Children, or 1.2 per cent., were found to be suffering from tuberculosis infection in one or other of its manifestations.

Of these, 10 children were suffering from tuberculosis of the lungs whilst 65 were suspected of having the disease in the lungs in an early stage.

46 Children had tuberculous glands, 1 had tuberculosis of the spinal column, 1 had tuberculous infection of the hip joint and 3 of other bones and joints, 3 had tuberculosis of the skin, and 11 had the disease in other forms. All cases, both actual and suspected, were referred to the Clinical Tuberculosis Officer for treatment or disposal.

Nervous Diseases.

8 children were found suffering from epilepsy and 8 from chorea (St. Vitus' dance), a condition which is associated with rheumatism.

Deformities.

85 Children were found deformed as a result of rickets contracted in infancy.

141 Children suffered from marked degrees of spinal curvature.

14 Children were found crippled as a result of infantile paralysis.

36 Children were deformed through injury by accident, etc.

Ringworm.

12 Children were found to have the ringworm fungus in the hair of the head and 4 were infected with the fungus associated with the body.

Skin Affections.

Scabies or itch was found in 17 children, and impetigo or infectious scabs in 21 children.

Mental Conditions.

40 Children were found to be mentally sub-normal. It is not possible, as a rule, at a routine medical inspection where each child is reviewed only for a few minutes to arrive at a definite diagnosis of mental deficiency. Suspected cases are subjected to more particular examination later by one of the certifying officers. An account of the work connected with this portion of School Medical inspection is set forth on page 27.

6. INFECTIOUS DISEASE.

At Routine Inspections 7 cases were found. In addition, 15 special visits were made by the medical staff to certain schools where there had been an unusual local prevalence of any infectious disease.

Children suspected to be suffering from infectious diseases are excluded from attendance at school either by the Head Teachers or School Attendance Officers.

Notices of infectious diseases were despatched to the respective schools by the Public Health Department in 5,082 cases as described hereunder:—

Illness.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total.
Scarlet Fever ...	98	76	47	111	332
Diphtheria ...	75	64	62	119	320
Measles ...	570	480	25	12	1087
Mumps ...	45	100	25	110	280
Whooping Cough ...	21	72	69	85	247
Chicken-pox ...	139	66	26	92	323
Sore Throat ...	86	38	36	103	263
Ringworm (Scalp) ...	40	39	30	31	140
„ (body) ...	37	28	20	23	108
Impetigo ...	253	159	96	150	658
Scabies ...	52	28	18	39	137
Eye Cases ...	33	22	15	19	89
Other diseases ...	495	221	141	241	1098
Totals ...	1944	1393	610	1135	5082

School Closure.

In accordance with Article 45 (b) of the Code the following schools were closed :—

School.	Department.	Disease.	Closure.	
			From	To
Mitcham Road...	Infants ...	Chicken Pox ...	January 9th ...	February 6th
Whitehorse Road	Infants ...	Measles ...	„ 14th ...	„ 6th
Princess Road ...	Infants ...	Measles ...	„ 14th ...	„ 6th
Spring Lane ...	—	Chicken Pox ...	„ 29th ...	„ 27th
Ingram Road ...	Infants ...	Measles ...	„ 29th ...	„ 20th
Arch. Tenison's	Girls ...	Diphtheria ...	February 4th ...	March 5th
South Norwood	Infants ...	Measles ...	„ 11th ...	„ 5th
Christ Church	Infants ...	Measles ...	„ 12th ...	„ 5th
Parish Church ...	Infants ...	Measles ...	„ 27th ...	„ 19th
St. Peter's ...	Infants ...	Measles ...	March 2nd ...	„ 19th
Sydenham Road	Infants ...	Measles ...	„ 12th ...	„ 31st
Mitcham Road...	Infants ...	Measles ...	„ 12th ...	„ 31st
All Saints' ...	Girls & Infants	Measles ...	„ 12th ...	„ 31st
Portland Road...	Infants ...	Measles ...	„ 16th ...	„ 31st
Christ Church ... (Boston Road)	Infants ...	Measles ...	„ 16th ...	„ 31st
Brighton Road...	Infants ...	Measles ...	„ 18th ...	„ 31st
Oval Road ...	Infants ...	Measles ...	„ 22nd ...	„ 31st
Winterbourne Rd.	Infants ...	Measles ...	„ 22nd ...	„ 31st
Tamworth Road	Junior, Infants	Measles ...	„ 24th ...	„ 31st
St. Joseph's ...	Mixed & Infants	Measles ...	„ 24th ...	„ 31st
St. Michael's ...	Mixed & Infants	Scarlet Fever ...	November 22nd	December 13th
South Norwood	Infants ...	Diphtheria ...	„ 29th	„ 23rd

School premises were disinfected when necessary. In all, 42 school departments and 21 school classrooms were disinfected during the year.

7. FOLLOWING UP.

There are nine school nurses, two of whom assist at the Clinics only. The other seven attend at school medical inspections, visit the homes of children found to be defective at medical inspections or suspected to be suffering from infectious disease. Each of these seven

school nurses carries on other health visiting work, and has a district of her own in which she is well acquainted with the schools, children and parents.

The parents of those defective children whom the Medical Inspector considers require treatment or observation are visited at their homes by the School Nurses within a few days of the inspection at which the defects were observed, with a view to encouraging the parents to obtain the appropriate medical advice or treatment either from private medical practitioners, hospitals, or at the different treatment clinics established by the Education Committee in the Borough.

The work of the district school nurses is summarised in the following table:—

Visits to Houses where the following Diseases have occurred.	School Cases.	
	1st Visits	Subsequent Visits.
Scarlet Fever	76	75
Diphtheria	381	468
Measles	1497	136
German Measles	57	4
Mumps	394	108
Whooping Cough	296	120
Chicken Pox	450	81
Sore Throat	691	472
Ringworm (scalp)	144	613
„ (body)	118	214
Verminous Heads	26	15
Verminous Bodies	29	48
Impetigo	1491	2249
Scabies	165	529
Infectious Eye Disease	131	269
Other Diseases	2241	1238
	8187	6639
Visits paid to Elementary Schools for Medical Inspection	510	—
Number of Children prepared for Medical Inspection:—Newly Inspected	6747	—
Re-inspected	466	—
Specially Inspected	1170	—
Other Visits to Elementary Schools	157	7
Home Visits arising out of Medical Inspection	2280	1108
Home Visits for other information	997	407
Cultures taken	1437	45

8. MEDICAL TREATMENT.

Minor Ailments.

There is one clinic at 228, London Road available for the treatment of minor ailments. It is open daily. One of the medical staff is present thrice weekly to direct treatment and to make special examinations. A nurse is in attendance every day to carry out the treatment.

1,546 children were examined or treated for different conditions; there were 3,962 attendances. Table IV. (a), Appendix A, indicates the amount and nature of the work at the Centre.

Under "Miscellaneous" are included :—

Cases of rheumatism	25
Enlarged glands	35
Enlarged tonsils and adenoids	139
Other affections of nose and throat and other ear affections	151
Heart disease	37
Lung disease	44
Nervous diseases	22
Debility and anæmia	137

In addition, 100 children for whom milk in school had been prescribed were re-examined. There was also a large number of children referred from the Tuberculosis Dispensary for observation by the School Medical Inspectors.

85 children out of the total of 137 suffering from ringworm of the scalp were subjected to X-ray treatment.

Uncleanliness.

A brief account of the treatment of uncleanliness is given in Table IV (E), Appendix A.

Enlarged Tonsils and Adenoids.

(Table IV. (C), Appendix A).

The clinic for the operative treatment of these conditions continued to be held at the Croydon General Hospital in accommodation loaned to the Education Committee. During the greater portion of the year the clinic was open on one afternoon each week, but to meet the large number of cases referred for and awaiting treatment an additional weekly session was arranged. The actual operations and administration of anæsthetics are undertaken by eight local medical practitioners working in pairs and in rota for three monthly periods.

303 cases were treated at the clinic, and, as in the previous years, all those having dental caries were, prior to the operation, treated by the Dental Officers at the School Dental Clinic. The number of children treated for dental caries prior to operation at the throat clinic was 304.

In the latter part of the year classes were commenced in which instruction in the correct methods of breathing was given to children who had recently been treated at the Throat Clinic. These classes are held in a large room at the Central Polytechnic and conducted by Miss Cooke. This form of after-care is a most important part of the treatment of enlarged tonsils and adenoids, not only in teaching the children again to breathe properly, but in assisting their quick return to health after the more or less extended periods of general debility consequent upon obstructive affections of the throat and nose.

Each child after operation is expected to attend the class daily during a period of four weeks, the exercises lasting for twenty minutes to half-an-hour. Parents are summoned to attend on the first and last days of the instructional period when a medical officer is present for interview. Parents are shown the nature of the exercises and requested to encourage the children to carry out the exercises at home. The results have been highly satisfactory, and parents generally are enthusiastic in their praise of the effects—both of the operation and the after-treatment—on the well-being of the children. Ear discharges clear up, deafness diminishes in degree or entirely disappears, languor, want of appetite and mental dullness give place to alertness, brightness and a healthy desire for food.

During the last three months of the year the class met on 121 occasions, 68 children were treated and made 1,015 attendances.

Tuberculosis.

The closest co-operation exists between the School Medical Service and the Tuberculosis Dispensary. The advice of the Clinical Tuberculosis Officer is sought in regard to every case or every suspected case of the disease found by school medical inspectors amongst children attending school. 154 children were in this way referred to the Tuberculosis Officer for corroborative diagnosis and subsequent treatment or disposal. Out of this number, 39 were found after a period of observation to have no signs of the disease. In addition, 61 children of school age were referred to the Dispensary from other sources and 36 contacts of the disease examined. The total number of attendances at the Dispensary of children of school age during the year amounted to 3,109.

The question of exclusion from attendance at school is left to the discretion of the Tuberculosis Officer, who arranges for sanatorium or hospital treatment when necessary and prescribes milk, cod liver oil, and drugs which are supplied from the Dispensary. A most important part of the treatment is the advice given to parents of tuberculous children with the object of ensuring as far as possible the maintenance of proper hygienic treatment in the homes. Health Visitors visit the homes to encourage and advise the parents in this respect.

Children who have been under treatment at the Dispensary and in whom the disease has been arrested are referred back to the School Medical Officer, who arranges for their examination from time to time at the inspection clinic and supervises their after-care. In the last nine months of the year 146 children were kept under observation by the School Medical Inspectors.

Vision and External Eye Diseases.

The Eye Clinic continued to be held two mornings weekly at the Town Hall. The total number of children examined for refraction errors was 602, and the total number of attendances at the clinic 1,183. Most of the cases of external eye disease, such as conjunctivitis, blepharitis, corneal ulcers, were treated by the Ophthalmic Surgeon, the remaining few being seen at the Minor Ailments Clinic.

Spectacles are not provided, but parents may obtain glasses at reduced rates from an optician in the town.

A summary of the treatment of visual defect is given in Table IV. (B), Appendix A.

Dental Defects.

Table IV. (D), Appendix A, gives a summary of the work done by the two part time Dental Officers, both in regard to inspection and treatment.

The following tables are self explanatory, and indicate in greater detail the scope and findings of school dental inspection and the results of treatment.

Dental Inspection of Schools (Children 5—9 years of age)

School.	Children Examined.			Teeth all sound.		Teeth Defective.		Percent'ge with Sound Teeth.	
	Boys.	Girls.	Total.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.
Beulah Road	130	117	247	27	21	103	96	20.8	17.9
Boston Road	111	81	192	18	12	93	69	16.2	14.8
Brighton Road	56	58	114	10	17	46	41	17.8	29.3
Davidson Road	66	68	134	11	9	55	59	16.6	13.2
Dering Place	80	70	150	17	7	63	63	21.2	10.0
Ecclesbourne Road ...	145	85	230	32	18	113	67	22.1	21.1
Ingram Road	61	66	127	13	19	48	47	21.3	28.8
Mitcham Road	145	85	230	17	14	128	71	11.7	16.4
Oval Road	42	43	85	9	9	33	34	21.2	20.9
Portland Road	81	88	169	16	9	65	79	19.7	10.2
Princess Road	120	90	210	26	11	94	79	21.6	12.2
South Norwood	70	61	131	11	11	59	50	15.7	17.1
Spring Lane	10	8	18	4	3	6	5	40.0	37.7
Stanford Road	24	12	36	3	2	21	10	12.5	16.5
Sydenham Road	87	74	161	13	15	74	59	14.9	20.2
Tamworth Road	77	17	94	8	2	69	15	10.4	11.8
Tavistock Grove	111	92	203	20	17	91	75	18.0	18.5
Upper Norwood	14	18	32	1	5	13	13	7.1	27.8
Whitehorse Road	176	154	330	31	43	145	111	17.6	27.9
Winterbourne Road ...	132	114	246	42	35	60	79	31.8	30.7
Woodside	110	92	202	25	17	85	75	22.7	18.4
Grangewood Special School	11	9	20	1	1	10	8	9.1	11.1
All Saint's	13	13	26	5	2	8	11	38.4	15.4
Christ Church, Longley Rd.	39	41	80	5	7	34	34	12.8	17.0
Christ Church, Boston Rd.	24	33	57	4	4	20	29	16.6	12.1
Holy Trinity	21	52	73	3	9	18	43	14.3	17.3
Parish Church	172	99	271	24	17	148	82	13.9	17.1
St. Andrew's	33	36	69	9	10	24	26	27.3	27.7
St. Andrew's Old Town ...	8	7	15	1	...	7	7	12.5	...
St. Joseph's	5	5	10	...	1	5	4	...	20.0
St. Mark's	24	36	60	6	6	18	30	25.0	16.6
St. Mary's ... ..	...	...	...	...	...	...	...	...	...
St. Michael's	12	12	24	5	1	7	11	41.7	8.3
St. Saviour's	62	73	135	16	23	46	50	25.7	31.5
Archbishop Tenison's ...	12	13	25	1	5	11	8	8.3	38.4
St. Peter's	61	62	123	9	16	52	46	14.7	25.8
Shirley ... ..	...	...	...	...	...	...	...	...	...
Totals	2345	1984	4329	443	398	1902	1586	18.8	20.1

Dental Re-inspection of Schools.

Date.	School.	Children with teeth all sound at previous inspection. At re-inspection.				Children who were treated at the Dental Clinic for caries discovered at previous inspection. At re-inspection.				Children found to have defective teeth at primary inspection, but who have not been treated at the Dental Clinic. At re-inspection.							
		All sound.		Requiring treatment.		Requiring no further treatment		Requiring further treatment		Children treated privately.		Children treated privately and now requiring further treatment.		Children treated privately and not requiring further treatment.		Children who have received no dental treatment.	
		Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.
1920.																	
Jan. 12	Dering Place ...	2	4	...	...	3	...	...	...	...	...	...	...	...	...	2	6
" 14	Davidson Road ...	1	3	2	2	...	2	2	...	...	...	...	...	...	...	23	18
" 29	Parish Church ...	...	...	...	...	6	2	...	...	...	...	...	...	...	...	10	34
Mar. 24	Tamworth Road ...	2	1	...	...	...	2	1	...	...	...	...	...	...	...	14	5
" 26	Spring Lane ...	1	1	...	...	1	3	...	...	1	...	...	...	...	...	6	5
May 13	Grange Wood ...	5	2	...	1	3	2	1	...	...	...	...	...	...	...	7	3
" 17	St. Peter's ...	...	...	4	12	...	...	...	...	...	...	...	...	...	...	...	...
" 18	Winterbourne Road ...	11	3	1	...	12	11	1	4	...	1	...	...	...	1	13	9
" 19	Whitehorse Road ...	8	5	...	2	3	6	...	...	1	1	1	1	...	...	21	23
June 1	Sydenham Road ...	3	7	...	...	1	...	1	...	...	...	...	...	...	...	...	...
" 23	Stanford Road ...	1	1	1	...	4	2	1	...	1	...	...	...	1	...	4	5
" 30	Princess Road ...	5	3	2	...	...	...	...	...	...	...	...	...	...	...	24	21
July 7	Tavistock Grove ...	3	2	2	2	3	3	...	...	...	...	...	...	...	...	27	20
" 19	St. Andrew's ...	3	...	4	...	...	...	...	...	...	...	...	...	...	...	7	6
Sept. 1	Oval Road ...	1	...	2	1	1	2	...	2	...	...	...	...	...	...	12	8
" 2	Brighton Road ...	4	5	...	1	1	...	2	3	...	...	1	...	...	...	11	13
" 3	South Norwood ...	1	3	...	...	5	5	...	...	...	...	...	...	...	...	23	13
" 3	St. Mary's ...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	3	5
" 16	Davidson Road ...	3	2	1	2	3	2	1	...	...	...	...	...	...	...	8	13
" 16	Beulah Road ...	1	...	...	...	2	1	...	...	...	...	...	...	...	...	7	6
" 29	Holy Trinity ...	...	...	...	...	2	3	...	...	1	...	1	...	...	...	4	3
Oct. 1	Portland Road ...	6	4	1	1	6	10	1	2	1	1	1	1	...	...	20	19
" 6	Boston Road ...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	26	13
" 7	Parish Church ...	7	10	1	...	6	8	1	...	...	2	...	2	...	...	14	17
" 15	Woodside ...	8	6	1	1	8	5	3	4	...	...	...	...	...	...	20	17
" 19	Ingram Road ...	6	4	2	1	1	...	...	...	1	2	1	1	...	1	14	13
Nov. 4	Dering Place ...	5	...	...	...	5	...	...	...	...	...	...	...	...	...	20	16
" 12	Ecclesbourne Road ...	17	6	1	...	12	6	3	...	...	...	...	...	...	...	36	7
Dec. 13	St. Peter's ...	2	1	...	...	...	1	...	...	...	...	...	...	...	...	5	4

The work of the Dental Clinic 1920.

	No. of Permanent Teeth.				No. of Temporary Teeth.				Total Number of Fillings.		No. of admin-istrations of general Anaesthetic included in (1) and (2).		No. of other Operations.				Total number of children who failed to keep appoint-ment at Dental Clinic.	
	Extracted (1).		Filled.		Extracted (2).		Filled.						Permanent Teeth.		Temporary Teeth.			
	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.	Boys.	Girls.
Routine Inspections	7	2	20	15	1432	988	378	427	398	442	42	42	2	4	57	80	434	372
After re-inspection ...	...	...	2	1	115	88	31	38	33	39	...	...	...	3	1	...	25	29
Specials	17	6	6	...	59	61	3	6	9	6	10	7	...	...	...	...	16	9
Tonsils and Adenoids Cases	9	13	12	12	469	394	80	105	92	117	9	19	9	2	15	5	180	189
Backward Class Cases	5	2	4	2	7	2	...	...	4	2	2	2	...	...	...	...	1	...
Totals ...	38	23	44	30	2082	1533	492	576	536	606	63	70	11	9	73	85	636	599

No. of half-days devoted to inspection ... 63
 " " " treatment ... 252
 Total number of attendances made by children at the Clinic ... 3435

Number of new cases treated during the year:—
 Routine ... 831
 After re-inspection ... 81
 Specials ... 56
 Tonsils and Adenoids Cases ... 304
 Backward Class Cases ... 7
1279

Out of 3,488 children referred for treatment, the parents or guardians of only 1,223, or 35 per cent., made use of the opportunity offered.

A re-organization of the work of the School Nurses has recently been carried out, so that following-up at the homes of children with defective teeth has been improved, and it is hoped thereby to ensure a larger attendance of children at the Dental Clinic.

Crippling Defects and Orthopædics.

As in previous years the treatment by remedial exercises of children suffering from spinal curvature was carried out by the Organizer of Physical Training. The class was held on four afternoons weekly. The following table gives an account of the work done by Miss Appleton at this clinic:—

Number of children treated during the year ...	...	48
„ discharged as not requiring further treatment		17
„ discharged for other reasons, e.g., for hospital treatment, over school age, etc.	...	18
„ attending on December 31st, 1920	...	7
Total number of attendances during 1920	...	1380

Only the more severe cases of spinal curvature are treated at this clinic, but classes have now been formed at Whitehorse Road School and St. Andrew's School in which children suffering from milder degrees of curvature will be given daily remedial treatment under the direction of two specially selected lady teachers, and under the supervision of the Medical Officer and the Supervisor of Physical Training.

With the appointment of Miss Cooke as masseuse and the establishment of breathing exercise classes the accommodation in the Treatment Centre at 228, London Road, became inadequate, and consequently in September the Spinal Remedial Class was transferred to larger premises at the Central Polytechnic. Here in a large room it is possible for remedial exercises and massage to be carried out concurrently. The breathing exercise classes are held in the early part of the morning so as not to interfere with the work of the other two clinics.

During the last four months of the year 19 cases were treated by massage:—

Paralysis (infantile and birth palsies)	...	9
Spastic conditions	..	2
Scoliosis	...	7
Talipes	...	1
Total	...	19

Certain of these cases also received remedial exercises, which were carried out under the supervision of Miss Cooke. These children were still receiving treatment at the end of the year, and in many cases marked improvement was noted.

A summary of the treatment of the defects as shown in Tables IV. (A, B, C & D) is given in Table V. Appendix A: whilst Table VI., Appendix A, supplies a summary relating to children medically inspected at the *routine* inspections, 1920.

9. OPEN-AIR EDUCATION.

In spite of the fact that there is a large number of children in this Borough suffering from early tuberculosis, debilitating conditions, catarrhal infections of the lungs, mal-nourishment, etc., no open-air education of any description has yet been provided. The simplest and the least costly form of open-air education is the open-air class, and there are many schools in Croydon with playground area sufficient to permit of the establishment of such classes.

The Borough is well provided with recreation grounds and it should not be difficult to utilise these open-air spaces to provide outdoor education for selected children.

10. PHYSICAL TRAINING.

Below is given the report of the Organizer of Physical Training, to which the attention of the Committee is particularly directed.

To the Education Committee.

March, 1921.

Ladies and Gentlemen,

I beg to submit the report of my work as Organizer of Physical Training for the year 1920.

The work in the Elementary Schools has been encouraging in spite of many difficulties. Physical training has been carried on in accordance with the revised "Syllabus of Physical Training 1919," and "Syllabus of Physical Exercises for Children under seven years of age," issued by the Board of Education early in 1920.

As mentioned in my report of 1919, I had been preparing the way for the introduction of these two books by Courses (four in all) for both Senior and Infants' Teachers in the Autumn of 1919 and the Spring of 1920, so that as soon as copies of this Syllabus were available we were able to introduce it into the schools at once.

On March 19th I arranged a Demonstration to which the Head Teachers of all departments were invited. Typical lessons were conducted with classes of Infants, Standards 1, 2, 3, 4 and 5, and 6 and 7, and the same children also demonstrated suitable dances. This Demonstration, which was attended by practically every Head Teacher, as well as one of His Majesty's Inspectors, one member of the Education Committee and the Medical Officer of Health, was followed by a Conference in the afternoon as to the most effective methods of making the new Syllabus of real value in the schools. Several resolutions, arising out of consideration of the Board of Education Circular 1138, issued with the Syllabus, were passed and were submitted to the Education Committee in due course.

At the request of the Head Teachers this Demonstration was repeated for the Class Teachers on two evenings. At least 400 attended these two demonstrations—a proof, I think, of the enthusiasm and earnest desire of the teachers to promote the physical welfare of the children in their care.

At the request of the Medical Officer of Health, two Demonstrations of Physical Training were also arranged in connection with Health Week, May 3rd—8th, at the Gas Company's Hall in Katharine Street. Three schools took part, and the Demonstrations, which included physical exercises, games and dances, were well attended both by parents and the public generally. I would like, here, to express my gratitude to the teachers who aided me in all these Demonstrations and who, by their unfailing co-operation and enthusiasm, made it possible for them to be arranged.

The Chief Medical Officer of the Board of Education again refers in his Annual Report, 1919, to the difficulties of unsuitable clothing. We have certainly encountered this difficulty, especially this year, when suitable material has been almost prohibitive in price; but great progress has been made in the provision of suitable shoes, and the number of schools where the children wear shoes, either home-made or proper gymnastic ones, has increased considerably. In many schools the parents are giving loyal support and encouragement under difficult home circumstances—in fact, I think one of the most hopeful features of the year's work is the interest taken by many of the parents in the Physical Training carried on in the schools. I hope it may be possible during the coming year to give them more opportunities, by way of Demonstrations, etc., to see the work that is being accomplished.

At all the Demonstrations, quoted earlier in this Report, a table was arranged on which were shown suitable garments for wear during physical training which, with one or two exceptions, had been made by children in school.

Equipment for the proper carrying out of the training is still inadequate, but the schools have made efforts to supply what is absolutely necessary, *e.g.*, bean bags, team colours, ropes, balls, etc. In most cases the children are supplying their own colours, etc. The Organizer of Handicraft is giving valuable help by letting the boys at the Handicraft Centres make jumping stands for use in the schools.

A daily period for physical training is not yet universal, although it is found on the time tables of most of the schools where the value of this training is realised.

Considerable disappointment was felt at the decision of the Education Committee not to allow the older scholars to use the recreation grounds for their organised games. At the request of the Committee, the Head Teachers and I had drawn up a scheme by which the boys and the girls in the upper standards of those schools near to recreation grounds would be able to have their games' lessons there rather than in the smaller space of the playground, and we were looking forward hopefully to the benefits which would accrue thereby. May I respectfully urge that the Committee will reconsider their decision on this matter, and if it is found impossible to provide any equipment for use in the recreation grounds, permission may at least be granted to use the recreation grounds for such organised games as can be taken without apparatus or with apparatus provided by the schools themselves? I would again quote from the Report of the Chief Medical Officer of the Board of Education: "Games may prove of almost equal importance with the more formal lessons for children.

First, they have the direct physical value, and in many cases keep the child in the open-air . . . again they have considerable educational possibility in the training of character and the qualities which make for useful citizenship, such as healthy rivalry, co-operation, courage, endurance, public spirit, fair play, loyalty and working together in groups ; lastly, many of these activities provide lasting interests for leisure hours in after life, which in itself may prove to be an effective agency of health and strength. With the shortening of the hours of labour this question of the healthy occupation of leisure is of the utmost importance."

Many schools are now using the team system as suggested in the Syllabus in all physical training lessons, especially games, and the co-operative spirit resulting is most encouraging, and is felt not only in the physical training but in the general curriculum of the school also.

During the summer months I arranged a course of six lessons in games for the teachers of the senior departments. The games practised were mostly those mentioned in the Board of Education pamphlet "Suggestions in regard to Games." The class, which was a large one, (nearly 80 teachers attending) was held in the playground of Tavistock Grove Schools.

The decision of the Committee that swimming be included in the subjects of the time-table brought this subject under my direct organisation for the first time in 1920. It was found possible, under these new conditions to relieve the congestion at the Baths caused by several schools having to attend at the same time, and thus to make conditions for the teaching of this subject much easier. As permission to use the Baths in school hours was not given till the season had already commenced it was not possible to do all that was advisable, but, in conjunction with the Inspector, I am hopeful that the organisation of swimming may be complete for the season of 1921.

Owing to the courtesy and help of the Amateur Swimming Association I was able to arrange a course of six lessons for the teachers of the girls' departments on the Organisation of Swimming Lessons on the lines of their new Handbook of Swimming Instruction—the method recommended by the Board of Education in the Syllabus of Physical Training. As the Baths were only available for this course during school hours, permission was granted by the Committee for one teacher from each Senior, Mixed and Girls' departments to attend for six lessons in school hours. Mrs Austin, Hon. Secretary of the Southern District Education Committee of the Amateur Swimming Association, most generously gave her services for this course which proved a most helpful one. At the request of the local Secretary of the N.U.T. a second course, out of school hours, was arranged, but as the Baths were not available for such a course during the summer season it was not started until the weather was cold and unsettled, and after three lessons it was decided to postpone the rest of the course till the spring.

Four teachers holding the diploma of Reading Physical Training College are now working in the Elementary Schools with marked success. It has not been found possible, owing to staffing and other difficulties, to make them responsible for the entire physical training of the departments in which they are working, but they are taking as

much as possible, and their enthusiasm and influence re-act on the work of the whole school. They are also taking gymnastic classes at the Evening Institutes.

The gymnastic classes at the Evening Institutes have been carried on on the same lines as in 1919. At the request of the pupils some of the classes were continued through the summer term, and one Evening Institute conducted a most successful swimming club.

As hitherto, I devoted four sessions weekly to the Spinal Remedial Clinic. In September, 1920, the Clinic was removed from 228, London Road to Room 15, Central Polytechnic, as the accommodation available at the former was inadequate to allow Miss Cooke, the newly appointed full-time Masseuse, working at the same time. The particulars of the Clinic are given in the Report of the Medical Officer of Health. Dr. Barrie Lambert, a Medical Officer of the Ministry of Health, visited the Clinic in December.

In conclusion, I would like to testify to the valuable support and co-operation I have this year, as always, received from all in my efforts to promote the physical welfare of the children under our care.

I am, Ladies and Gentlemen,

Your obedient servant

MAY APPLETON.

11. PROVISION OF MEALS.

The selection of suitable children is made usually from recommendations submitted by school teachers, Attendance Officers and Care-Committees. Recommendations are considered and approved by the School Canteen Sub-Committee. Children are fed at local dining-rooms by arrangement with the respective proprietors. The dinners consist of two courses, meat and a milk pudding, and are supervised from time to time by one of the School Attendance Officers.

- 516 children were given free dinners.
- 31515 free dinners were provided.
- 203 children received free milk.
- 115 children received milk on part payment, and
- 72 children received milk, full payment for which was made by parents or guardians.

Milk was usually supplied on the recommendation of the School Medical Officer. Recommendations for milk supply are also made by the Tuberculosis Officer and the Maternity and Child Welfare Medical Officers, and accordingly steps have been taken to ensure that the supply of milk is in no case duplicated

Similar care is taken, in the absence of specific recommendation, to avoid supplying milk to a child already in receipt of meals, or meals to a child already receiving milk.

12. CO-OPERATION OF PARENTS.

As in past years, the attendance of parents at the routine medical inspections was invited, and 50.9 per cent. responded, as compared with 55.1 per cent. in 1919.

13. CO-OPERATION OF TEACHERS.

Much of the success of school medical inspection is due to the sympathetic assistance of the teachers. In all schools the greatest personal interest is shown and valuable information made available regarding the children. Through the tactful influence of the teachers difficult parents are induced to obtain or accept treatment for their defective children. Thanks are due in no small measure for the invaluable assistance which teachers so whole-heartedly render.

14. CO-OPERATION OF SCHOOL ATTENDANCE OFFICERS.

From the School Attendance Officers much useful and essential assistance is most willingly given to the School Medical Officer and his staff. In their investigations of causes of absence, infectious diseases which otherwise might have been overlooked are brought to the notice of the Medical Officer. To a large extent information regarding physically or reputed mentally defective children reaches the Medical Officer as a result of their activities, whilst frequently the treatment of children suffering from certain diseases, *e.g.*, ringworm, scabies, etc., is expedited through their influence with the parents. The closest and most happy co-ordination exists between Attendance Officers and the members of the School Medical Staff.

15. CO-OPERATION OF VOLUNTARY BODIES.

Valuable information in regard to crippled and other defective children has been supplied from time to time to the School Medical Officer and Tuberculosis Officer by the Croydon Civic Service League. This Association has also in many instances arranged for the supply of surgical appliances and convalescent home treatment.

Close contact is maintained with the local branch of the National Association for the Prevention of Cruelty to Children.

16. BLIND, DEAF, DEFECTIVE AND EPILEPTIC CHILDREN.

Table III., Appendix A, gives a numerical and classified account of exceptional defective children under the age of 16. The registers from which this table has been completed have as far as possible been revised, but at the same time it is not unlikely that several exceptional children having escaped notice and have not been included. The sources of ascertainment are:—

- (1) School Medical Inspections.
- (2) Home visitations by School Nurses, Health Visitors, School Attendance Officers, and Maternity and Child Welfare Health Visitors.
- (3) The Tuberculosis Dispensary.
- (4) Maternity and Child Welfare Centres, and
- (5) The Croydon Civic Service League.

Blind and deaf children, after certification by the School Medical Officer, are admitted to Special Schools, day or residential.

MENTALLY DEFECTIVE CHILDREN.

The work connected with the examination and certification has been considerably accelerated by the appointment of Dr. W. N. W. Kennedy, the Deputy School Medical Officer, as an additional certifying officer.

93 children reputed to be mentally deficient were examined. Of this number

- 34 were certified as mentally defective, 2 being ineducable, and 3 suffering also from epilepsy.
- 42 proved to be dull and backward, 17 retarded 1 to 2 years, 22 retarded 2 to 3 years, and 3 retarded more than 3 years.
- 2 were physically defective only.
- 1 suffered from epilepsy only.
- 11 were referred for observation, and
- 3 were normal children.

93

These cases were disposed of as follows :—

- 3 were returned to an ordinary class at an elementary school.
- 23 were returned to an ordinary class at an elementary school with special supervision.
- 26 were referred for instruction at an elementary school in a special class for dull and backward children under the Public Elementary School Code.
- 6 were recommended for treatment in a certified institution.
- 21 were admitted to Grangewood Special Day School for mentally deficient children.
- 3 were referred for treatment of physical defects, and
- 11 were placed under observation pending re-examination at a later date.

93

GRANGEWOOD SPECIAL M.D. SCHOOL.

The number of children receiving instruction at Grangewood Special School has during the year showed a marked increase.

The following is a summary of the number of children who attended :—

<i>Number of children on Register on 31st December, 1919</i>	...	58
Number of children admitted to class during 1920	...	35
Number of children discharged and re-admitted to Council Schools, 1920	...	—
Number of children discharged for unsuitability	...	8
Number of children left over age	...	8
<i>Number of children on Register, December 31st, 1920</i>	...	77

Special classes for dull and backward children have been formed in many of the provided schools, but due to the want of accommodation the Inspector has not been able to arrange similar accommodation in the non-provided schools.

PHYSICALLY DEFECTIVE CHILDREN.

The treatment of these children has been discussed under other headings.

Class for Stammerers.

Arrangements have been made to form a class for stammerers, and the first meeting of the class will be held in January, 1921. Miss Walshe, one of the Education Committee's teachers, has been given the opportunity of studying the treatment for stammering children at the Manchester Education Authority's special classes with a view to placing this new class under her direction.

The results of treatment will be fully discussed in the report for 1921.

17. NURSERY SCHOOLS.

No Nursery Schools have yet been established in the Borough.

18. SECONDARY SCHOOLS.

In 1920 the pupils of the two Higher Schools of the Education Committee, the Borough Boys' School and the Borough Girls' School, were medically inspected for the first time. The examinations did not begin until September. Later, at the request of the management of Old Palace Girls' School, the Committee arranged for the provision of medical inspection at this school. In this case the examinations did not begin until December.

The examination of the girls was carried out by one of the women medical officers.

The work was limited to the complete examination of newly admitted pupils, of pupils aged 12 and 15 years, and of those pupils likely to leave school before the end of the year. 199 boys and 413 girls were examined at the routine inspections, making a total of 612. In addition 63 children were re-examined.

A statement of the defects found and treatment carried out is given in Appendix B.

Information in regard to the treatment of those children presenting defects was incomplete since it was not possible in the short time available before the expiration of the year to arrange for the re inspection of more than 63 of the 612 pupils examined.

19. CONTINUATION SCHOOLS.

There are no Continuation Schools in the Borough.

20. EMPLOYMENT OF CHILDREN AND YOUNG PERSONS.

Milk and newspaper deliveries, general errands, hawking and newspaper selling are the popular forms of employment amongst children and young persons under 16 years of age, and at present those with which the school medical service is only concerned

In no instance was it considered necessary to refuse a certificate. Children granted certificates are seen from time to time at re-inspections in the schools.

21. MISCELLANEOUS.

38 young persons who desired to become Bursars and Student Teachers were medically examined during the year.

Teaching of Infant Care.

As in past years, the Infant Care Class has been conducted at Tavistock Grove and Beulah Road Schools, instruction being given by one of the Health Visitors.

R. VEITCH CLARK,

School Medical Officer.

TABLE I.—NUMBER OF CHILDREN INSPECTED 1st JANUARY TO 31st DECEMBER, 1920.

A.—Routine Medical Inspections.

Entrants.							Leavers.						GRAND TOTAL.
Age ...	3	4	5	6	Other Ages.	TOTAL	Intermediate Group.	12	13	14	Other Ages.	TOTAL	
Boys ...	—	53	813	688	286	1840	499	637	395	26	119	1676	3516
Girls ...	2	54	679	706	289	1730	603	449	235	30	184	1501	3231
TOTALS ...	2	107	1492	1394	575	3570	1102	1086	630	56	303	3177	6747

B.—Special Inspections.

	Special Cases.	Re-examinations, i.e., number of children re-examined.
Boys ...	734	267
Girls ...	436	199
TOTALS ...	1170	466

C.—Total Number of individual children inspected by the Medical Officer, whether as Routine or Special Cases.

8383

APPENDIX A.

TABLE II.—RETURN OF DEFECTS FOUND IN THE COURSE OF MEDICAL INSPECTION IN 1920.

DEFECT OR DISEASE.	ROUTINE INSPECTIONS.		"SPECIALS."	
	Number referred for treatment.	Number requiring to be kept under observation but not referred for treatment.	Number referred for treatment.	Number requiring to be kept under observation but not referred for treatment.
Malnutrition	50	5	14	1
Uncleanliness—Head	2	...	...	...
" Body	26	...	...	...
SKIN—				
Ringworm—Head	26	...	106	1
" Body	5	...	30	...
Scabies	41	...	36	...
Impetigo	45	...	38	...
Other Diseases	17	7	21	...
EYE—				
Blepharitis	8	...	3	...
Conjunctivitis	8	...	2	...
Keratitis ... ..	...	...	2	...
Corneal Ulcer	1	...	...	...
Corneal Opacities	1	...	...	...
Defective Vision	319	7	227	...
Squint	39	2	16	...
Other Conditions	29	...	24	...
EAR—				
Defective Hearing	6	...	1	...
Otitis Media	32	1	10	...
Other Ear Diseases	70	...	21	...
NOSE & THROAT—				
Enlarged Tonsils	167	63	16	1
Adenoids	113	22	37	5
Enlarged Tonsils & Adenoids	290	19	30	5
Other Conditions	4	4	2	...
ENLARGED CERVICAL GLANDS	12	6	...	1
DEFECTIVE SPEECH	7	...	10	2
TEETH—DENTAL DISEASES ... ..	...	...	...	...
HEART & CIRCULATION—				
Heart Disease—Organic	28	18	15	10
" " Functional	20	28	5	2
Anæmia	88	12	25	6
LUNGS—				
Bronchitis	29	26	5	...
Other Non-Tubercular Diseases	4	2	...	...
TUBERCULOSIS—				
Pulmonary—Definite	19	1	13	5
" Suspected	32	6	25	3
Non-Pulmonary—Glands	12	9	9	...
" Spine ... ..	...	...	...	...
" Hip	3	...	...	...
" Other Bones & Joints	1	...	...	...
" Skin ... ..	...	...	...	...
" Other Forms	1	...	...	...
NERVOUS SYSTEM—				
Epilepsy ... ..	...	1	4	5
Chorea	4	...	...	6
Other Conditions	3	2	8	1
DEFORMITIES—				
Rickets	10	...	...	...
Spinal Curvature	72	7	16	...
Other Forms	9	3	4	...
OTHER DEFECTS & DISEASES	61	27	24	3

NUMBER OF INDIVIDUAL CHILDREN having defects which required
treatment or to be kept under observation 3097

APPENDIX A.

TABLE III.—NUMERICAL RETURN OF ALL EXCEPTIONAL CHILDREN
IN THE AREA IN 1920.

			Boys.	Girls.	Total.
BLIND (including partially blind) within the meaning of the Elementary Education (Blind and Deaf Children) Act, 1893.	Attending Public Elementary Schools		2	3	5
	Attending Certified Schools for the Blind		6	3	9
	Not at School		6	2	8
DEAF AND DUMB (including partially deaf) within the meaning of the Elementary Education (Blind and Deaf Children) Act, 1893.	Attending Public Elementary Schools		3	1	4
	Attending Certified Schools for the Deaf		3	5	8
	Not at School		1	5	6
MENTALLY DEFICIENT.	FEEBLE-MINDED.	Attending Public Elementary Schools	1	1	2
		Attending Certified Schools for Mentally Defective Children	47	30	77
		Notified to the Local Control Authority by the Local Education Authority during the year	4	4	8
		Not at School	4	6	10
	IMBECILES.	Notified to the Local Control Authority by the Local Education Authority during the year	1	1	2
		At School	—	—	—
		Not at School	8	8	16
	IDIOTS.	Notified to the Local Control Authority by the Local Education Authority during the year	—	—	—
	EPILEPTICS.	Attending Public Elementary Schools	12	9	21
		Attending Certified School for Epileptics	4	1	5
		In Institutions other than Certified Schools	2	1	3
		Not at School	13	15	28

APPENDIX A.

TABLE III.—*Continued.*

			Boys.	Girls.	Total.
PHYSICALLY DEFECTIVE.	PULMONARY TUBERCULOSIS	Attending Public Elementary Schools	22	28	50
		Attending Certified Schools for Physically Defective Children	—	1	1
		In Institutions other than Certified Schools	—	—	—
		Not at School	5	4	9
	CRIPPLING DUE TO TUBERCULOSIS.	Attending Public Elementary Schools	8	4	12
		Attending Certified Schools for Physically Defective Children	1	—	1
		In Institutions other than Certified Schools	—	—	—
		Not at School	2	2	4
	CRIPPLING DUE TO CAUSES OTHER THAN TUBERCULOSIS, <i>i.e.</i> , PARALYSIS, RICKETS, TRAUMATISM.	Attending Public Elementary Schools	5	9	14
		Attending Certified Schools for Physically Defective Children	1	—	1
		In Institutions other than Certified Schools	—	—	—
		Not at School	4	7	11
	OTHER PHYSICAL DEFECTIVES.	Attending Public Elementary Schools	6	4	10
		Attending Open-Air Schools ...	—	—	—
		Attending Certified Schools for Physically Defective Children	—	1	1
		Not at School	5	8	13
DULL OR BACKWARD.		Retarded 2 years	5	5	10
		„ 2 3 „	10	11	21
		„ 3 „	3	7	10

APPENDIX A.

TABLE IV.—TREATMENT OF DEFECTS OF CHILDREN DURING 1920.

A.—Treatment of Minor Ailments.

Disease or Defect.	NUMBER OF CHILDREN			
	Referred for Treatment.	Treated.		
		Under Local Education Authority's Scheme.	Otherwise.	TOTAL.
SKIN—				
Ringworm, head	132	137	...	137
Ringworm, body	35	38	...	38
Scabies	77	114	...	114
Impetigo... ..	84	94	...	94
Minor Injuries	17	17	...	17
Other Skin Diseases	21	40	...	40
EAR DISEASE	140	75	4	79
EYE DISEASE (external and other)	47	26	...	26
MISCELLANEOUS	701	1005	8	1013

B.—Treatment of Visual Defect.

NUMBER OF CHILDREN.									
Referred for Refraction.	Submitted to Refraction.				For whom glasses were prescribed.	For whom glasses were provided.	Recommended for treatment other than by glasses.	Received other forms of treatment.	For whom no treatment was considered necessary.
	Under Local Education Authority's Scheme Clinic or Hospital.	By Private Practitioner or Hospital.	Otherwise.	TOTAL.					
632	602	7	4	613	192	35	233	107	154

C.—Treatment of Defects of Nose and Throat.

Referred for treatment.	NUMBER OF CHILDREN			
	Received Operative Treatment.			Received other forms of treatment.
	Under Local Education Authority's Scheme Clinic or Hospital.	By Private Practitioner or Hospital.	TOTAL.	
659	303	18	321	—

APPENDIX A.

TABLE IV. D.—TREATMENT OF DENTAL DEFECTS.

(1) Number of children dealt with.

	AGE GROUPS.										"Specials"	Total.
	5	6	7	8	9	10	11	12	13	14		
(a) Inspected by Dentist	—	3089	—	1240	—	—	—	—	—	—	—	4329
(b) Referred for Treatment	3488	...	...	...	...	...	—	3488
(c) Actually Treated	1223	...	...	...	...	...	56	1279
(d) Re-treated (result of periodical examination)	81	...	...	...	...	...	—	81

(2). Particulars of time given and of operations undertaken.

No. of half-days devoted to inspection.	No. of half-days devoted to treatment.	Total No. of Attendances made by the children at the Clinics.	No. of Permanent Teeth.		No. of Temporary Teeth.		Total No. of Fillings.	No. of administrations of general anaesthetics included in (4) and (5).	No. of other operations.	
			Extracted.	Filled.	Extracted.	Filled.			Permanent Teeth.	Temporary Teeth.
1	2	3	4	5	6	7	8	9	10	11
63	252	3435	61	74	3615	1068	1142	133	20	158

APPENDIX A.

E.—TREATMENT OF UNCLEANLINESS.

(a) Average number of visits per annum made by the School Nurses to each school	...	...	...
(b) Total number of examinations made of children by School Nurses in the year in the schools	...	...	11938
(c) The number of individual children found unclean	Nits	...	2028
	Head Vermin	...	419
	Body	„	33
	Total	...	<u>2480</u>
(d) Arrangements made by the Local Authority for cleansing, and the number of children cleansed under these arrangements	At Cleansing Station, Factory Lane, Croydon.		
	Head Vermin	...	2
	Body	„	26
	Total	...	<u>28</u>
(e) Legal proceedings taken under the Children Act 1908, or the School Attendance Bye-laws	1 Prosecution under the School Attendance Bye-laws. Fine of 10/- imposed.		

APPENDIX A.

TABLE V.—SUMMARY OF TREATMENT OF DEFECTS AS SHOWN IN
TABLE IV. (A, B, C AND D).

Disease or Defect.	NUMBER OF CHILDREN			
	Referred for Treatment.	Treated.		
		Under Local Education Authority's Scheme.	Otherwise.	TOTAL.
Minor Ailments	1254	1546	12	1558
Visual Defects	632	602	11	613
Defects of Nose and Throat ...	659	303	18	321
Dental Defects	3488	1279	...	1279
Other Defects (Tuberculosis) ...	319	...	319	319
TOTAL ...	6352	3730	360	4090

APPENDIX A.

TABLE VI—SUMMARY RELATING TO CHILDREN MEDICALLY INSPECTED AT THE ROUTINE INSPECTIONS DURING THE YEAR 1920.

(1) The total number children medically inspected at the Routine Inspections	6747
(2) The number of children in (1) suffering from :—	
Malnutrition	351
Skin Disease	104
Defective Vision (including Squint)	739
Eye Disease	202
Defective Hearing	77
Ear Disease	94
Nose and Throat Disease	1533
Enlarged Cervical Glands (non tubercular)	619
Defective Speech	86
Dental Disease	65
Heart Disease—Organic	122
“ “ Functional	195
Anaemia	278
Lung Disease (non tubercular)	219
Tuberculosis —	
Pulmonary — Definite	10
“ “ Suspected	65
Non-Pulmonary	65
Diseases of the Nervous System	46
Deformities	276
Other Defects and Diseases	270
(3) The number of children in (1) suffering from defects (other than uncleanliness or defective clothing or footgear) who require to be kept under observation (but not referred for treatment)	551
(4) The number of children in (1) who were referred for treatment (excluding uncleanliness, defective clothing, etc.)	1756
(5) The number of children in (4) who received treatment for one or more defects (excluding uncleanliness, defective clothing etc.)... ..	725

SECONDARY SCHOOLS.

TABLE I.—NUMBER OF CHILDREN INSPECTED 1ST JANUARY, 1920 TO 31ST DECEMBER, 1920.

A.—Routine Medical Inspection.

Entrants.								Intermediate Group. 8	Leavers.					GRAND TOTAL.
Age	...	3	4	5	6	Other Ages.	TOTAL		12	13	14	Other Ages.	TOTAL	
Boys	...	—	—	—	—	—	—	—	75	48	35	41	199	199
Girls	...	—	—	—	—	—	—	—	83	112	41	177	413	413
TOTALS	...	—	—	—	—	—	—	—	158	160	76	218	612	612

B.—Special Inspections.

	Special Cases.	Re-examinations. i.e., number of children re-examined.
Boys	...	—
Girls	1	63
TOTALS	1	63

Total number of individual Children
inspected by the Medical Officer, whether
as Routine or Special Cases

Number of individual
children inspected : —

676

APPENDIX B.

TABLE II.—RETURN OF DEFECTS FOUND IN THE COURSE OF MEDICAL INSPECTION IN 1920.

DISEASE OR DEFECT.	ROUTINE INSPECTIONS.		"SPECIALS."	
	Number referred for Treatment.	Number requiring to be kept under observation but not referred for Treatment.	Number referred for Treatment.	Number requiring to be kept under observation but not referred for Treatment.
Malnutrition	2	1	...	...
Uncleanliness—Head ... ..	...	...	...	...
Body ... ..	...	...	...	...
SKIN—				
Ringworm—Head ... ..	...	...	...	...
Body ... ..	...	...	...	...
Scabies ... ..	...	...	...	...
Impetigo ... ..	...	...	...	...
Other Diseases (non-tubercular)	1	...	...	...
EYE—				
Blepharitis ... ..	...	...	...	...
Conjunctivitis ... ..	...	...	...	...
Keratitis ... ..	...	...	...	...
Corneal Ulcer ... ..	...	...	...	...
Corneal Opacities ... ..	...	...	...	...
Defective Vision	92	1	...	...
Squint ... ..	...	...	...	...
Other Conditions ... ..	...	...	...	...
EAR—				
Defective Hearing	7	1	1	...
Otitis Media ... ..	...	...	...	...
Other Ear Diseases ... ..	...	...	...	...
NOSE AND THROAT				
Enlarged Tonsils	10	17	...	...
Adenoids	1	...	...	...
Enlarged Tonsils and Adenoids	1	...	...	...
Other Conditions	2	9	...	...
Enlarged Cervical Glands	1	...	...	...
Defective Speech ... ..	...	...	...	...
HEART AND CIRCULATION—				
Heart Disease—Organic	6	8	...	...
Functional ... ..	...	17	...	...
Anæmia	4	39	...	...
LUNG—				
Bronchitis ... ..	...	2	...	...
Other non-tubercular Diseases	1	1	...	...
TUBERCULOSIS—				
Pulmonary—Definite ... ..	...	2	...	...
Suspected	7	7	...	...
Non-pulmonary—Glands ... ..	...	4	...	...
Spine ... ..	...	...	...	...
Hip ... ..	...	...	...	...
Other bones & joints ... ..	...	...	...	...
Skin ... ..	...	...	...	...
Other Forms ... ..	...	...	...	...
NERVOUS SYSTEM—				
Epilepsy ... ..	...	...	...	...
Chorea ... ..	...	1	...	...
Other Conditions ... ..	...	7	...	...
DEFORMITIES—				
Rickets ... ..	...	...	...	...
Spinal Curvature	179	16	...	...
Other Forms ... ..	...	4	...	...
Other Defects and Diseases ... ..	...	12	...	...
CHEST EXPANSION $1\frac{1}{2}$ in. or under	18	...	...	...
DEFECTIVE TEETH	54	...	...	...

NUMBER OF INDIVIDUAL CHILDREN HAVING DEFECTS WHICH REQUIRED
TREATMENT OR TO BE KEPT UNDER OBSERVATION

APPENDIX B.

TABLE IV.—TREATMENT OF DEFECTS OF CHILDREN IN 1920.

A.—Treatment of Minor Ailments.

Disease or Defect.	NUMBER OF CHILDREN.			
	Referred for Treatment.	Treated.		
		Under Local Education Authority's Scheme.	Otherwise	TOTAL
SKIN—				
Ringworm (head) ... ..	...	...	...	...
Ringworm (body) ... ..	...	...	...	...
Scabies ... ..	...	...	...	...
Impetigo ... ..	...	...	...	...
Minor Injuries ... ..	...	...	...	...
Other Skin Disease	1	...	...	...
EAR DISEASE	8	...	...	...
EYE DISEASE (external or other) ... ..	...	...	...	...
MISCELLANEOUS	11	...	1	1

B.—Treatment of Visual Defect.

NUMBER OF CHILDREN.									
Referred for Refraction.	Submitted to Refraction.				For whom glasses were provided.	For whom glasses were prescribed.	Recommended for treatment other than by glasses.	Received other forms of treatment.	For whom no treatment was considered necessary
	Under Local Education Authority's Scheme, Clinic or Hospital.	By Private Practitioner or Hospital.	Otherwise.	TOTAL.					
92	...	1	...	1	...	...	...	...	...

C.—Treatment of Defects of Nose and Throat.

Referred for treatment.	NUMBER OF CHILDREN.			
	Received Operative Treatment.			Received other forms of treatment.
	Under Local Education Authority's Scheme, Clinic or Hospital.	By Private Practitioner or Hospital.	TOTAL.	
14	...	5	5	...

D.—Treatment of Dental Defects.

NIL.

APPENDIX B.

TABLE V.—SUMMARY OF TREATMENT OF DEFECTS AS SHOWN IN TABLE IV (A, B AND C).

Disease or Defect.	NUMBER OF CHILDREN.			
	Referred for Treatment.	Treated.		
		Under Local Education Authority's Scheme.	Otherwise.	TOTAL.
MINOR AILMENTS	20	...	1	1
VISUAL DEFECTS	92	...	1	1
DEFECTS OF NOSE & THROAT...	14	...	5	5
DENTAL DEFECTS ... ..	...	...	...	...
OTHER DEFECTS ... ..	...	...	...	...
TOTAL	126	...	7	7

TABLE VI.—SUMMARY RELATING TO CHILDREN MEDICALLY INSPECTED AT THE ROUTINE INSPECTIONS DURING THE YEAR 1920.

(1) The total number of children medically inspected at the Routine Inspections	612
(2) The number of children in (1) suffering from:—	
Malnutrition	114
Skin Disease	14
Defective Vision (including Squint)	108
Eye Disease	10
Defective Hearing	12
Ear Disease	1
Nose and Throat Disease	66
Enlarged Cervical Glands (non-Tubercular)	7
Defective Speech... ..	2
Dental Disease	10
Heart Disease—Organic... ..	22
“ “ Functional	51
Anæmia	52
Lung Disease (non-Tubercular)... ..	5
Tuberculosis—Pulmonary (definite)	2
“ “ (suspected)	11
“ “ Non-Pulmonary	28
Disease of the Nervous System... ..	56
Deformities	241
Other Defects and Diseases	38
(3) The number of children in (1) suffering from defects (other than uncleanness or defective clothing or footgear) who require to be kept under observation (but not referred for treatment)	144
(4) The number of children in (1) who were referred for treatment (excluding uncleanness, defective clothing, etc.)..	347
(5) The number of children in (4) who received treatment for one or more defects (excluding uncleanness, defective clothing, etc.)	7

TABLE I
Summary of the results of the experiments on the effect of the concentration of the solution on the rate of the reaction

NAME OF COMPOUND

Concentration of solution	Rate of reaction	Time taken for completion	Remarks
1.0	1.0	1.0	
0.5	0.5	2.0	
0.25	0.25	4.0	
0.125	0.125	8.0	
0.0625	0.0625	16.0	
0.03125	0.03125	32.0	
0.015625	0.015625	64.0	
0.0078125	0.0078125	128.0	
0.00390625	0.00390625	256.0	
0.001953125	0.001953125	512.0	
0.0009765625	0.0009765625	1024.0	
0.00048828125	0.00048828125	2048.0	
0.000244140625	0.000244140625	4096.0	
0.0001220703125	0.0001220703125	8192.0	
0.00006103515625	0.00006103515625	16384.0	
0.000030517578125	0.000030517578125	32768.0	
0.0000152587890625	0.0000152587890625	65536.0	
0.00000762939453125	0.00000762939453125	131072.0	
0.000003814697265625	0.000003814697265625	262144.0	
0.0000019073486328125	0.0000019073486328125	524288.0	
0.00000095367431640625	0.00000095367431640625	1048576.0	
0.000000476837158203125	0.000000476837158203125	2097152.0	
0.0000002384185791015625	0.0000002384185791015625	4194304.0	
0.00000011920928955078125	0.00000011920928955078125	8388608.0	
0.000000059604644775390625	0.000000059604644775390625	16777216.0	
0.0000000298023223876953125	0.0000000298023223876953125	33554432.0	
0.00000001490116119384765625	0.00000001490116119384765625	67108864.0	
0.000000007450580596923828125	0.000000007450580596923828125	134217728.0	
0.0000000037252902984619140625	0.0000000037252902984619140625	268435456.0	
0.00000000186264514923095703125	0.00000000186264514923095703125	536870912.0	
0.000000000931322574615478515625	0.000000000931322574615478515625	1073741824.0	
0.0000000004656612873077392578125	0.0000000004656612873077392578125	2147483648.0	
0.00000000023283064365386962890625	0.00000000023283064365386962890625	4294967296.0	
0.000000000116415321826934814453125	0.000000000116415321826934814453125	8589934592.0	
0.0000000000582076609134674072265625	0.0000000000582076609134674072265625	17179869184.0	
0.00000000002910383045673370361328125	0.00000000002910383045673370361328125	34359738368.0	
0.000000000014551915228366851806640625	0.000000000014551915228366851806640625	68719476736.0	
0.0000000000072759576141834259033203125	0.0000000000072759576141834259033203125	137438953472.0	
0.00000000000363797880709171295166015625	0.00000000000363797880709171295166015625	274877906944.0	
0.000000000001818989403545856475830078125	0.000000000001818989403545856475830078125	549755813888.0	
0.0000000000009094947017729282379150390625	0.0000000000009094947017729282379150390625	1099511627776.0	
0.00000000000045474735088646411895751953125	0.00000000000045474735088646411895751953125	2199023255552.0	
0.000000000000227373675443232059478759765625	0.000000000000227373675443232059478759765625	4398046511104.0	
0.0000000000001136868377216160297393798828125	0.0000000000001136868377216160297393798828125	8796093022208.0	
0.00000000000005684341886080801486968994140625	0.00000000000005684341886080801486968994140625	17592186044416.0	
0.000000000000028421709430404007434844970703125	0.000000000000028421709430404007434844970703125	35184372088832.0	
0.00000000000001421085471520200371742249853515625	0.00000000000001421085471520200371742249853515625	70368744177664.0	
0.000000000000007105427357601001858711249267578125	0.000000000000007105427357601001858711249267578125	140737488355328.0	
0.0000000000000035527136788005009293556246337890625	0.0000000000000035527136788005009293556246337890625	281474976710656.0	
0.00000000000000177635683940025046467781231689453125	0.00000000000000177635683940025046467781231689453125	562949953421312.0	
0.000000000000000888178419700125232338906158447265625	0.000000000000000888178419700125232338906158447265625	1125899906842624.0	
0.0000000000000004440892098500626161694530792236328125	0.0000000000000004440892098500626161694530792236328125	2251799813685248.0	
0.00000000000000022204460492503130808472653961181640625	0.00000000000000022204460492503130808472653961181640625	4503599627370496.0	
0.000000000000000111022302462515654042363269805908203125	0.000000000000000111022302462515654042363269805908203125	9007199254740992.0	
0.0000000000000000555111512312578270211816349029541015625	0.0000000000000000555111512312578270211816349029541015625	18014398509481984.0	
0.00000000000000002775557561562891351059081745147705078125	0.00000000000000002775557561562891351059081745147705078125	36028797018963968.0	
0.000000000000000013877787807814456755295408725738525390625	0.000000000000000013877787807814456755295408725738525390625	72057594037927936.0	
0.0000000000000000069388939039072283776477043628692626953125	0.0000000000000000069388939039072283776477043628692626953125	144115188075855872.0	
0.00000000000000000346944695195361418882385218143463134765625	0.00000000000000000346944695195361418882385218143463134765625	288230376151711744.0	
0.000000000000000001734723475976807094411926090717315673828125	0.000000000000000001734723475976807094411926090717315673828125	576460752303423488.0	
0.0000000000000000008673617379884035472059630453586578369140625	0.0000000000000000008673617379884035472059630453586578369140625	1152921504606846976.0	
0.00000000000000000043368086899420177360298152267932891845703125	0.00000000000000000043368086899420177360298152267932891845703125	2305843009213693952.0	
0.000000000000000000216840434497100886801490761339664459228515625	0.000000000000000000216840434497100886801490761339664459228515625	4611686018427387904.0	
0.0000000000000000001084202172485504434007453806698322296142578125	0.0000000000000000001084202172485504434007453806698322296142578125	9223372036854775808.0	
0.00000000000000000005421010862427522170037269033491611480712890625	0.00000000000000000005421010862427522170037269033491611480712890625	18446744073709551616.0	
0.000000000000000000027105054312137610850186345167458057403564453125	0.000000000000000000027105054312137610850186345167458057403564453125	36893488147419103232.0	
0.0000000000000000000135525271560688054250931725837290287017822265625	0.0000000000000000000135525271560688054250931725837290287017822265625	73786976294838206464.0	
0.00000000000000000000677626357803440271254658629186451435089111328125	0.00000000000000000000677626357803440271254658629186451435089111328125	147573952589676412928.0	
0.000000000000000000003388131789017201356273293145932257175445556640625	0.000000000000000000003388131789017201356273293145932257175445556640625	295147905179352825856.0	
0.0000000000000000000016940658945086006781366465729661285877227783203125	0.0000000000000000000016940658945086006781366465729661285877227783203125	590295810358705651712.0	
0.00000000000000000000084703294725430033906832328648306429386138916015625	0.00000000000000000000084703294725430033906832328648306429386138916015625	1180591620717411303424.0	
0.000000000000000000000423516473627150169534161643241532146930694580078125	0.000000000000000000000423516473627150169534161643241532146930694580078125	2361183241434822606848.0	
0.0000000000000000000002117582368135750847670808216207660734653472900390625	0.0000000000000000000002117582368135750847670808216207660734653472900390625	4722366482869645213696.0	
0.00000000000000000000010587911840678754238354041081038303673267364501953125	0.00000000000000000000010587911840678754238354041081038303673267364501953125	9444732965739290427392.0	
0.000000000000000000000052939559203393771191770205405191518366336822509765625	0.000000000000000000000052939559203393771191770205405191518366336822509765625	18889465931478580854784.0	
0.0000000000000000000000264697796016968855958851027025957591831684112548828125	0.0000000000000000000000264697796016968855958851027025957591831684112548828125	37778931862957161709568.0	
0.00000000000000000000001323488980084844277979255135012978795908420562744140625	0.00000000000000000000001323488980084844277979255135012978795908420562744140625	75557863725914323419136.0	
0.0000000000000000000000066174449004242213898962756750648939795421028137203125	0.0000000000000000000000066174449004242213898962756750648939795421028137203125	151115727451828646838272.0	
0.00000000000000000000000330872245021211069494813783753244698977105140686015625	0.00000000000000000000000330872245021211069494813783753244698977105140686015625	302231454903657293676544.0	
0.000000000000000000000001654361225106055347474068918766223494885525703430078125	0.000000000000000000000001654361225106055347474068918766223494885525703430078125	604462909807314587353088.0	
0.0000000000000000000000008271806125530276737370344593831117247427628517150390625	0.0000000000000000000000008271806125530276737370344593831117247427628517150390625	1208925819614629174706176.0	
0.00000000000000000000000041359030627651383686851722969155586237138142585751953125	0.00000000000000000000000041359030627651383686851722969155586237138142585751953125	2417851639229258349412352.0	
0.000000000000000000000000206795153138256918434258614845777931185690712928759765625	0.000000000000000000000000206795153138256918434258614845777931185690712928759765625	4835703278458516698824704.0	
0.0000000000000000000000001033975765691284592171293074228889655928453564643798828125	0.0000000000000000000000001033975765691284592171293074228889655928453564643798828125	9671406556917033397649408.0	
0.00000000000000000000000005169878828456422960856465371114448279642267823218994140625	0.00000000000000000000000005169878828456422960856465371114448279642267823218994140625	19342813113834066795298816.0	
0.000000000000000000000000025849394142282114804282326855572241398211339116094970703125	0.000000000000000000000000025849394142282114804282326855572241398211339116094970703125	38685626227668133590597632.0	
0.0000000000000000000000000129246970711410574021411634277861206991056955580474853515625	0.0000000000000000000000000129246970711410574021411634277861206991056955580474853515625	77371252455336267181195264.0	
0.00000000000000000000000000646234853557052870107058171389306103495284777902374267578125	0.00000000000000000000000000646234853557052870107058171389306103495284777902374267578125	154742504910672534362390528.0	
0.000000000000000000000000003231174267785264350535290856946530517476423889511871337890625	0.00000000000		